Modification M412

#### **PNNL Contract Table of Contents**

#### **SECTION A: Contract Form**

#### **SECTION B: Supplies or Services and Prices/Costs**

- B-1: Designation of Work and Facilities
- B-2: Obligated Funds
- B-3: Estimated Budget Authority, Total Available Performance Fees, and Total Available Mission Stretch Goal(s) Incentive Fee

#### **SECTION C: Description/Specifications/Work Statement**

- C-1: Introduction
- C-2: The Laboratory Vision
- C-3: Performance Expectations, Objectives, and Measures
- C-4: Statement of Work

#### **SECTION D: Packaging and Marking**

Reserved

#### **SECTION E: Inspection and Acceptance**

E-1: 52.246-9 Inspection of Research and Development (Short Form) (Apr 1984)

#### **SECTION F: Deliveries or Performance**

- F-1: Period of Performance
- F-2: 52.242-15 Stop-Work Order (Aug. 1989) Alternate I (Apr 1984)

#### **SECTION G: Contract Administration Data**

- G-1: Head of Contracting Activity (HCA), Contracting Officer (CO), and Contracting Officer's Representative (COR)
- G-2: 952.242-70 Technical Direction (DEC 2000)
- G-3: Correspondence Procedure
- G-4: Modification Authority

#### **SECTION H: Special Contract Requirements**

- H-1 Use Of Facilities for Contractor's Own Account
- H-2 Implementation Procedures for Public Affairs
- H-3 Transportation
- H-4 Source and Special Nuclear Materials
- H-5 Workers' Compensation
- H-6 Unemployment Compensation
- H-7 Contractor Acceptance of Notices of Violation or Alleged Violations, Fines, and Penalties
- H-8 Allocation of Responsibilities for Contractor Environmental Compliance Activities
- H-9 Other Intellectual Property Related Matters
- H-10 Continued Improvement Initiative
- H-11 Standards of Contractor Performance Evaluation
- H-12 Notice Regarding the Purchase of American-Made Equipment and Products Sense of Congress (AL-2003-03)

Modification M412

- H-13 Care Of Laboratory Animals
- H-14 Laboratory Facilities
- H-15 Privacy Act Records
- H-16 Administration of Subcontracts
- H-17 Long-Range Planning, Program Development and Budgetary Administration
- H-18 Application of DOE Contractor Requirements Documents
- H-19 Cap on Liability
- H-20 Performance Based Management and Oversight
- H-21 Site and Occupational Health Services
- H-22 Lobbying Restriction (Energy & Water Development Appropriations Act, 2003) (AL-2003-03)
- H-23 Lobbying Restriction (Department of Interior and Related Agencies Appropriations Act, 2003) (AL-2003-03)
- H-24 Determining Total Available Performance Fee and Fee Earned
- H-25 Project Management System
- H-26 Advance Understandings on Allowable Costs
- H-27 Employee Concerns Program
- H-28 Greening the Government Through Federal Fleet and Transportation Efficiency
- H-29 Conditional Payment of Fee or Profit--Safeguarding Restricted Data and Other Classified Information (66 Fed. Reg. 8560, Feb. 1, 2001)
- H-30 Contractor Compensation, Benefits and Pension
- H-31 Determining Total Available Mission Stretch Goal(s) Incentive Fee and Fee Earned
- H-32 Other Advance Understandings
- H-33 Open Competition and Labor Relations under Management and Operating and Other Major Facilities Contracts (Dec 2002) (AL 2002-08)

#### **SECTION I: Contract Clauses**

- I–1 52.202-1 Definitions (Dec 2001) Modified by DEAR 902-200 (Mar 2002)
- I–2 52.203-3 Gratuities (Apr 1984)
- I–3 52.203-5 Covenant Against Contingent Fees (Apr 1984)
- I–4 52.203-6 Restrictions on Subcontractor Sales to the Government (Jul 1995)
- I–5 52.203-7 Anti-Kickback Procedures (Jul 1995)
- I–6 52.203-8 Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity (Jan 1997)
- I–7 52.203-10 Price or Fee Adjustment for Illegal or Improper Activity (Jan 1997)
- I–8 52.203-12 Limitation on Payments to Influence Certain Federal Transactions (Jun 1997)
- I–9 52.204-4 Printed or Copied Double-Sided on Recycled Paper (Aug 2000)
- I–9A 52.204-7 Central Contractor Registration (Oct 2003) Alternate I (Oct 2003)
- I-10 52.208-8 Required Sources for Helium and Helium Usage Data (Apr 2002)
- I–11 52.209-6 Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended or Proposed for Debarment (Jul 1995)
- I–12 52.211-5 Material Requirements (Aug 2000)
- I–13 52.215-8 Order of Precedence -- Uniform Contract Format (Oct 1997)
- I–14 52.215-12 Subcontractor Cost or Pricing Data (Oct 1997)
- I–15 52.215-13 Subcontractor Cost or Pricing Data Modifications (Oct 1997)
- I–16 52.219-8 Utilization of Small Business Concerns (Oct 2000)
- I–17 52.219-9 Small Business Subcontracting Plan (Jan 2002)

Modification M412

- I–18 52.219-16 Liquidated Damages Subcontracting Plan (Jan 1999)
- I–19 52.222-1 Notice to the Government of Labor Disputes (Feb 1997)
- I–20 52.222-3 Convict Labor (Aug 1996)
- I–21 52.222-4 Contract Work Hours and Safety Standards Act -- Overtime Compensation (Sep 2000)
- I–22 52.222-11 Subcontracts (Labor Standards) (Feb 1988) (DEVIATION)
- I–23 52.222-21 Prohibition of Segregated Facilities (Feb 1999)
- I–24 52.222-26 Equal Opportunity (Apr 2002)
- I–25 52.222-29 Notification of Visa Denial (Feb 1999)
- I–26 52.222-35 Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001)
- I–27 52.222-36 Affirmative Action for Workers with Disabilities (Jun 1998)
- I–28 52.222-37 Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001)
- I–29 52.223-5 Pollution Prevention and Right-to-Know Information (Aug 2003) Alternate I (Aug 2003)
- I–30 52.223-10 Waste Reduction Program (Aug 2000)
- I–31 52.223-12 Refrigeration Equipment and Air Conditioners (May 1995)
- I–32 52.224-1 Privacy Act Notification (Apr 1984)
- I–33 52.224-2 Privacy Act (Apr 1984)
- I–34 52.225-1 Buy American Act Supplies (June 2003)
- I–35 52.225-9 Buy American Act-Construction Materials (June 2003)
- I–36 52.225-13 Restriction on Certain Foreign Purchases (Jan 2004)
- I–37 52.229-8 Taxes -- Foreign Cost-Reimbursement Contracts (Mar 1990)
- I–38 52.230-2 Cost Accounting Standards (Apr 1998)
- I–39 52.230-6 Administration of Cost Accounting Standards (Nov 1999)
- I–40 52.232-17 Interest (Jun 1996)
- I–41 52.232-24 Prohibition of Assignment of Claims (Jan 1986)
- I–42 52.233-1 Disputes (Jul 2002) Alternate I (Jul 2002)
- I–43 52.233-3 Protest After Award (Aug 1996) Alternate I (Jun 1985)
- I–44 52.236-8 Other Contracts (Apr 1984)
- I–45 52.237-3 Continuity of Services (Jan 1991)
- I–46 52.242-1 Notice of Intent to Disallow Costs (Apr 1984)
- I–47 52.242-13 Bankruptcy (Jul 1995)
- I–48 52.244-5 Competition in Subcontracting (Dec 1996)
- I–49 52.244-6 Subcontracts for Commercial Items (Apr 2003)
- I–50 52.247-1 Commercial Bill of Lading Notations (Apr 1984)
- I-51 52.247-63 Preference for U.S.-Flag Air Carriers (Jun 2003)
- I–52 52.247-64 Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003)
- I–53 52.247-67 Submission of Commercial Transportation Bills to the General Services Administration for Audit (Jun 1997)
- I–54 52.249-6 Termination (Cost-Reimbursement) (Sep 1996) (Modified by DEAR 970.4905-1 (Dec 2000))
- I–55 52.249-14 Excusable Delays (Apr 1984)
- I–56 52.251-1 Government Supply Sources (Apr 1984) (DEVIATION)

Modification M412

- I–57 52.251-2 Interagency Fleet Management System Vehicles and Related Services (Jan 1991)
- I–58 52.252-6 Authorized Deviations in Clauses (Apr 1984)
- I–59 52.253-1 Computer Generated Forms (Jan 1991)
- I-60 952.203-70 Whistleblower Protection for Contractor Employees (Dec 2000)
- I–61 952.204-2 Security (May 2002) (DEVIATION)
- I–62 952.204-70 Classification/Declassification (Sep 1997)(DEVIATION)
- I-63 952.204-75 Public Affairs (Dec 2000)
- I–64 952.208-7 Tagging of Leased Vehicles (Apr 1984)
- I–65 952-209-72 Organizational Conflicts of Interest (Jun 1997) Alternate I (Jun 1997)
- I–66 952.211-71 Priorities and Allocations (Atomic Energy) (Jun 1996)
- I–67 952.211-71 Priorities and Allocations (Domestic Energy Supplies) (Jun 1996) Alternate I (Jun 1996)
- I–68 952.215-70 Key Personnel (Dec 2000)
- I–69 952.217-70 Acquisition of Real Property (Apr 1984)
- I–70 952.223-75 Preservation of Individual Occupational Radiation Exposure Records (Apr 1984)
- I–71 952.224-70 Paperwork Reduction Act (Apr 1994)
- I–72 952.226-74 Displaced Employee Hiring Preference (Jun 1997)
- I–73 952.247-70 Foreign Travel (Dec 2000)
- I–74 952.250-70 Nuclear Hazards Indemnity Agreement (JUN 1996)
- I–75 952.251-70 Contractor Employee Travel Discounts (Dec 2000)
- I–76 970.5203-1 Management Controls (Dec 2000) (DEVIATION)
- I–77 970.5203-2 Performance Improvement and Collaboration (Dec 2000)
- I–78 970.5203-3 Contractor's Organization (Dec 2000) (DEVIATION)
- I–79 970.5204-1 Counterintelligence (Dec 2000)
- I–80 970.5204-2 Laws, Regulations, and DOE Directives (Dec 2000) (DEVIATION)
- I–81 970.5204-3 Access to and Ownership of Records (Dec 2000)
- I–82 970.5208-1 Printing (Dec 2000)
- I–83 970.5215-1 Total Available Fee: Base Fee Amount and Performance Fee Amount (Dec 2000) Alternate II (Dec 2000) Alternate III (DEC 2000)
- I–84 970.5215-3 Conditional Payment of Fee, Profit, or Incentives (Dec 2000) Alternate I (Dec 2000)
- I–85 970.5222-1 Collective Bargaining Agreements Management and Operating Contracts (Dec 2000)
- I–86 970.5222-2 Overtime Management (Dec 2000)
- I–87 970.5223-1 Integration of Environment, Safety, and Health into Work Planning and Execution (Dec 2000)
- I–88 970.5223-2 Acquisition and Use of Environmentally Preferable Products and Services (Dec 2000)
- I–89 970.5223-4 Workplace Substance Abuse Programs at DOE Sites (Dec 2000)
- I–90 970.5226-1 Diversity Plan (Dec 2000) (DEVIATION)
- I–91 970.5226-2 Workforce Restructuring under Section 3161 of the National Defense Authorization Act for Fiscal Year 1993 (Dec 2000)
- I–92 970.5226-3 Community Commitment (Dec 2000)
- I–93 970.5227-2 Rights in Data-Technology Transfer (Dec 2000)

Modification M412

- I–94 970.5227-3 Technology Transfer Mission (Aug 2002) Alternate I (Aug 2002)
- I–95 970.5227-4 Authorization and Consent (Aug 2002)
- I–96 970.5227-5 Notice and Assistance Regarding Patent and Copyright Infringement (Aug 2002)
- I–97 970.5227-6 Patent Indemnity-Subcontracts (Dec 2000)
- I–98 970.5227-8 Refund of Royalties (Aug 2002)
- I–99 970.5227-10 Patent Rights-Management and Operating Contracts, Nonprofit Organization or Small Business Firm Contractor (Aug 2002)
- I–100 970.5228-1 Insurance-Litigation and Claims (Mar 2002)
- I–101 970.5229-1 State and Local Taxes (Dec 2000)
- I-102 970.5231-4 Preexisting Conditions (Dec 2000) Alternate I (Dec 2000)
- I–103 970.5232-1 Reduction or Suspension of Advance, Partial, or Progress Payments (Dec 2000)
- I–104 970.5232-2 Payments and Advances (Dec 2000) Alternate II (Dec 2000) Alternate III (Dec 2000) (DEVIATION)
- I–105 970.5232-3 Accounts, Records, and Inspection (Dec 2000) Alternate II (Dec 2000)
- I-106 970.5232-4 Obligation of Funds (Dec 2000)
- I-107 970.5232-5 Liability with Respect to Cost Accounting Standards (Dec 2000)
- I–108 970.5232-6 Work for Others Funding Authorization (Dec 2000)
- I–109 970.5232-7 Financial Management System (Dec 2000)
- I–110 970.5232-8 Integrated Accounting (Dec 2000)
- I–111 970.5235-1 Federally Funded Research and Development Center Sponsoring Agreement (Dec 2000)
- I–112 970.5236-1 Government Facility Subcontract Approval (Dec 2000)
- I–113 970.5242-1 Penalties for Unallowable Costs (Dec 2000)
- I–114 970.5243-1 Changes (Dec 2000)
- I–115 970.5244-1 Contractor Purchasing System (Dec 2000) (DEVIATION) (Includes modifications in final rule dated 1/18/01.)
- I–116 970.5245-1 Property (Dec 2000) Alternate I (Dec 2000) (DEVIATION)

#### **SECTION J: List of Attachments**

- <u>APPENDIX A</u> Advance Understandings on Human Resources
- APPENDIX B Special Bank Account Agreement
- APPENDIX C Subcontracting Plan for Socioeconomic Programs
- APPENDIX D List of Applicable DOE Directives and External Requirements
- APPENDIX E Performance Evaluation and Measurement Plan
- <u>APPENDIX F</u> Radiochemical Processing Laboratory Authorization Agreement
- APPENDIX G DOE Research and Development Bilateral and Multilateral Agreements
- APPENDIX H Mission Stretch Goal(s) Performance Evaluation and Measurement Plan

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Contract Number: DE-AC05-76RL01830 Modification M412

## Part I – The Schedule

## **Section B**

## **Supplies or Services and Prices/Costs**

## **Table of Contents**

B-1	Designation of Work and Facilities 1
B-2	Obligated Funds
B-3	Estimated Budget Authority, Total Available Performance Fees, and Total
	Available Mission Stretch Goal(s) Incentive Fee

Modification M412

#### **B** – 1 Designation of Work and Facilities

The Government expressly engages the Contractor to manage and perform work and services, and to manage, operate and maintain the facilities of Department of Energy (DOE) both as described in this Contract and as designated in writing from time to time by DOE, including the utilization of information, material, funds, and other property of DOE, the collection of revenues, and the acquisition, sale or other disposal of property for DOE subject to the limitations as hereinafter set forth. The Contractor undertakes and promises to exert its best efforts to manage and perform said work and services and to manage, operate, and maintain said facilities, upon the terms and conditions herein provided and in accordance with such directions and instructions not inconsistent with this Contract which DOE may deem necessary to give to the Contractor from time to time. In the absence of applicable directions and instructions from DOE, the Contractor will use its best judgment, skill and care in all matters pertaining to the performance of this Contract.

(End of Clause)

#### B-2 Obligated Funds

The total amount of funds presently obligated by the Government with respect to this Contract is \$8,000,744,167.46 (through modification A411). Such amount may be increased or decreased in accordance with the Contract clause 970.5232-4 "Obligation of Funds".

(End of Clause)

# B-3 Estimated Budget Authority, Total Available Performance Fees, and Total Available Mission Stretch Goal(s) Incentive Fee

- (a) In accordance with the Contract clause entitled "Determining Total Available Performance Fee and Fee Earned", the annual total available performance fees for this Contract shall be \$7,300,000 for FY03 and \$7,800,000 for FY04 through FY07 respectively. The total annual estimated Budget Authority is \$511,200,000.
- (b) In accordance with the Contract clause entitled "Determining Total Available Mission Stretch Goal(s) Incentive Fee and Fee Earned", the total available Mission Stretch Goal(s) Incentive fee for the term of this Contract shall be \$3,000,000.

  (End of Clause)

## **PART I – The Schedule**

## **Section C**

## **Description/Specifications/Work Statement**

## **Table of Contents**

C-1	Intro	oduction	1
C-2	The	Laboratory Vision	2
C-3	Performance Expectations, Objectives, and Measures		
	3.1	Core Expectations.	3
		3.1.1 General	
		3.1.2 Program Development and Mission Accomplishment	
		3.1.3 Laboratory Stewardship	
		3.1.4 Operational and Financial Management Excellence	
	3.2	Performance Evaluation Expectations	
	3.3	Performance Objectives and Measures	
C-4	State	ement of Work	
	4.1	General	
	4.2	Mission	
		4.2.1 Science mission role	
		4.2.2 National Security mission role	9
		4.2.3 Energy Resources mission role	
		4.2.4 Environmental Quality mission role	
		4.2.5 Technology Transfer Programs	
		4.2.6 Science and Mathematics Education Programs and Cooperation with Universities a	
		Other Research Institutions	
		4.2.7 International Research Collaboration	12
		4.2.8 Other Related Work and Operation of the Laboratory	
	4.3	Operating Envelope	
		4.3.1 Operating Principles	
		4.3.2 Facilities	
		4.3.3 Hazards	
		4.3.4 Security	
		4.3.5 External Regulation	

#### C-1 Introduction

This Performance-Based Management Contract (PBMC) is for the management and operation of the Pacific Northwest National Laboratory (the Laboratory). Battelle Memorial Institute (the Contractor) shall, in accordance with the provisions of this Contract, accomplish the missions and programs assigned by the U.S. Department of Energy (DOE) and manage and operate the Laboratory. The Laboratory is one of the DOE's Office of Science (SC) multi-program laboratories. The Laboratory is a Federally Funded Research and Development Center (FFRDC) established in accordance with Federal Acquisition Regulation Part 35 and operated under this management and operating (M&O) contract, as defined in FAR 17.6 and DEAR 917.6.

This Contract reflects the Department's effort to enable the Contractor to achieve more highly effective and efficient management of the Laboratory, resulting in a safe and secure environment, outstanding science and technology results, more cost effective operations, and enhanced Contractor accountability. Toward this end, this Contract establishes a process for minimizing the use of unnecessary DOE orders by tailoring existing and new orders that will enable the Contractor to propose alternate standards, which rely primarily on state and federal laws and regulations, and management processes based on national standards, certified systems and best business practices. Contractor managers shall be held more accountable for maintaining risk mitigation as laboratory processes and assurance models change.

This Contract reflects the application of performance-based contracting approaches and techniques which emphasize results/outcomes and minimize "how to" performance descriptions. The Contractor has the responsibility for total performance under the Contract, including determining the specific methods for accomplishing the work effort, performing quality control, and assuming accountability for accomplishing the work under the Contract. Accordingly, this PBMC provides flexibility, within the terms and conditions of the Contract, to the Contractor in managing and operating the Laboratory.

Desired results of this Contract include improved Contractor operational efficiencies, allocations of Contractor oversight resources to direct mission work, and streamlined and more effective federal line management focused on a system-based approach to federal oversight with increased reliance on the results obtained from certified, nationally recognized experts and other independent reviewers. Moreover, science and technology have improved peer review metrics, stretch goals, and incentives to achieve extraordinary results.

Under this PBMC, it is the Contractor's responsibility to develop and implement innovative approaches and adopt practices that foster continuous improvement in accomplishing the mission of the Laboratory. DOE expects the Contractor to

produce effective and efficient management structures, systems, and operations that maintain high levels of quality and safety in accomplishing the work required under this Contract, and that to the extent practicable and appropriate, rely on national, commercial, and industrial standards and can be verified and certified by independent, nationally recognized experts and other independent reviewers. The Contractor shall conduct all work in a manner that optimizes productivity, minimizes waste, and fully complies with all applicable laws, regulations, and terms and conditions of the Contract.

To the maximum extent practical, this PBMC shall:

- (a) Describe the requirements in terms of outcomes or results required rather than the methods of performance of the work;
- (b) Use a limited number of systems-based measurable performance standards (*i.e.*, terms of quality, timeliness, quantity, etc.) to drive improved performance and increased effective and efficient management of the Laboratory;
- (c) Provide for appropriate financial incentives (e.g., fee) when performance standards and contract requirements are achieved;
- (d) Specify procedures for reduction of fee when services are not performed or do not meet Contract requirements; and
- (e) Include non-financial performance incentives where appropriate.

#### **C-2** The Laboratory Vision

Consistent with the Department's, Office of Science's and other applicable program office's strategic plans, the Contractor shall develop a Laboratory strategy that includes a compelling five (5) year vision for the Laboratory, mission/major program description, and a work plan that describes how they will accomplish the vision. The Laboratory strategy shall be updated yearly as called for within the Clause entitled "Long-Range Planning, Program Development, And Budgetary Administration". The Performance Evaluation and Measurement Plan, as called for within the Clause entitled "Standards of Contractor Performance Evaluation", identifies performance outcomes and indicators, which are updated and agreed upon by the Parties annually, as standards against which the Contractor's overall performance of scientific, technical, operational, and/or managerial obligations under this Contract shall be assessed.

#### C-3 Performance Expectations, Objectives, and Measures

#### 3.1 Core Expectations

#### 3.1.1 General

The relationship between DOE and its national laboratory management and operating contractors is designed to bring best practices for research and development to bear on the Department's missions. Through application of these best practices, the Department seeks to assure both outstanding programmatic and operational performance of today's research programs and the long-term quality, relevance, and productivity of the laboratories against tomorrow's needs. Accordingly, DOE has substantial expectations of the Contractor in the areas of: program delivery and mission accomplishment; laboratory stewardship; and excellence in laboratory operations and financial management.

### 3.1.2 Program Development and Mission Accomplishment

The Contractor is expected to provide effective planning, management, and execution of assigned research and development programs. The Contractor is expected to execute assigned programs so as to strive for the greatest possible impact on achieving DOE's mission objectives, to aggressively manage the Laboratory's science and technology capabilities and intellectual property to meet these objectives, and to bring forward innovative concepts and research proposals that are well-aligned with DOE missions. The Contractor shall propose work that is aligned with, and likely to advance, DOE's mission objectives, and that is well matched to Laboratory capabilities. The Contractor shall strive to meet the highest standards of scientific quality and productivity, "on-time, on budget, as-promised" delivery of program deliverables, and first-rate service to the research community through user facility operation.

The Contractor is expected to demonstrate benefit to the nation from R&D investments by transferring technology to the private sector and supporting excellence in science and mathematics education to the extent such activities are consistent with achieving continuous progress towards DOE's core missions.

#### 3.1.3 Laboratory Stewardship

The Contractor is expected to be an active partner with DOE in

assuring that the Laboratory is renewed and enhanced to meet future mission needs. Within the constraints of available resources and other Contract requirements, the Contractor, in partnership with DOE, shall:

- (a) Maintain a Laboratory vision and long-term strategic plan that addresses the evolution of Laboratory capabilities to meet anticipated DOE and national needs.
- (b) Attract, develop, and retain an outstanding work force, with the skills and capabilities to meet DOE's evolving mission needs.
- (c) Renew and enhance research facilities and equipment so that the Laboratory remains at the state-of-the-art over time and is well-positioned to meet future DOE needs.
- (d) Build and maintain a financially viable portfolio of research programs that generates the resources required to renew and enhance Laboratory research capabilities over time.
- (e) Maintain a positive relationship with the broader research community, to enhance the intellectual vitality and research relevance of the Laboratory, and to bring the best possible capabilities to bear on DOE mission needs through partnerships.
- (f) Build a positive, supportive relationship founded on openness and trust with the community and region in which the Laboratory is located.

#### 3.1.4 Operational and Financial Management Excellence

The Contractor is expected to effectively and efficiently manage and operate the Laboratory through best-in class management practices designed to enable research while assuring the protection and proper maintenance of DOE research and information assets, the health and safety of Laboratory staff and the public, and the environment. The Contractor is expected to operate the Laboratory so as to meet all applicable laws, regulations, and requirements. The Contractor is expected to manage the Laboratory cost-effectively, striving to provide the greatest possible research output per dollar of research investment, and, accordingly, to develop and deploy management systems and practices that are designed to enhance research productivity and mission accomplishment consistent with meeting operational requirements.

### 3.2 Performance Evaluation Expectations

The performance expectations of this Contract are broadly set forth in this Section and reflect the DOE's minimum needs and expectations for Contractor performance. Specific performance work statements, performance standards (measures applied to results/outputs), acceptable performance levels (performance expectations), acceptable quality levels (permissible deviations from performance expectations), and related incentives shall be established annually, or at other such intervals determined by the DOE to be appropriate. The related incentives may be monetary, or where monetary incentives are not desirable or considered effective, the Contractor's performance may be used as a factor which directly affects the past performance report card, or a factor in a decision to reduce or increase DOE oversight or Contractor reporting, as appropriate.

In performance under this Contract, the Contractor shall be evaluated within the following general performance goals and expectations:

- (a) Quality of Science and Technology: Produce original, creative scientific output that advances science and technology while achieving sustained scientific progress and impact that is recognized by the technical community.
- (b) Relevance to DOE Missions and National Needs: Conduct quality scientific research that advances the missions of DOE and other national programs and contributes to U.S. leadership in international scientific and technical communities.
- (c) Success in Constructing and Operating Research Facilities & Equipment: Provide quality strategic planning for facilities/equipment needed to insure the Laboratory can meet its S&T missions today and in the future, while effectively and efficiently maintaining current S&T facilities and equipment and providing effective, efficient operation of user facilities (EMSL/ARM).
- (d) Effectiveness and Efficiency of Research Program Management: Provide for effective capability stewardship, expert delivery, and success in relationship and risk management.

Furthermore "Mission Stretch Goals," as specified within Section J, Appendix H, have been identified as incentives for the Contractor to exceed expectations within the science and technology arena. Incentives for the accomplishment of these mission stretch goals shall be awarded as called for within the Contract clause entitled "Determining Total Available Mission Stretch Goal(s) Incentive Fee and Fee Earned," and "Appendix H."

#### 3.3 Performance Objectives and Measures

The results-oriented performance objectives of this Contract are stated in the Performance Evaluation and Measurement Plan, and/or in the Work Authorization Directives issued annually in accordance with the special clause entitled "Long-Range Planning, Program Development And Budgetary Administration." The objectives shall be accomplished within an overall framework of management and operational performance requirements and standards contained elsewhere in this Contract. To the maximum extent practicable, these requirements and standards have also been structured to reflect performance-based contracting concepts, including the clause entitled "Application of DOE Contractor Requirements Documents," which permits the Contractor to propose to the Contracting Officer alternative and/or tailored approaches based on national, commercial or industrial standards and best business practices to meet the outcomes desired by the Government.

DOE's Quality Assurance/Surveillance Plan (QASP) for evaluating the Contractor's performance under the Contract shall consist primarily of the Performance Evaluation and Measurement Plan (PEMP) as called for within the Section I Contract clause entitled "Total Available Fee: Base Fee Amount and Performance Fee Amount." The QASP establishes the process DOE shall use to ensure that the Contractor has performed in accordance with the performance standards and expectations. The QASP shall summarize the performance standards, expectations and acceptable quality levels for each task; describe how performance will be monitored and measured; describe how the results will be evaluated; and state how the results will affect Contract payment.

The Contractor shall develop and implement a Laboratory assurance process, acceptable to the Contracting Officer, which provides reasonable assurance that the objectives of the Contractor's management systems are being accomplished and that the systems and controls will be effective and efficient. The Contractor's assurance process shall reflect an understanding of the risks, maintain mechanisms for eliminating or

mitigating the risks, and maintain a process to ensure that the management systems and their attendant assurance process(es) meet Contract requirements.

#### C-4 Statement of Work

#### 4.1 General

The Contractor shall furnish the necessary personnel, facilities, equipment, materials, supplies, and services (except those provided by the Government) to accomplish the statement of work. The statement of work under this PBMC is comprehensive in that the Contractor is expected to perform all necessary technical, operational, and management functions to manage and operate the Laboratory and perform the DOE missions assigned to the Laboratory. This statement of work encompasses all ongoing objectives of the Laboratory, as well as those objectives that may be assigned during the term of the Contract, and includes, but is not limited to: all infrastructure management and maintenance; human resources management; environmental management; health, safety, and security; and purchasing, financial, and other administrative systems.

#### 4.2 Mission

The Laboratory's research and development missions and programs support the overarching national security mission of the DOE through efforts in fundamental science, energy and environmental sciences and technologies, and national security. The Laboratory shall continue to provide highly skilled staff who support multi-disciplinary efforts to rapidly translate scientific discoveries into applications in physical, computational, and environmental sciences, and on special facilities, including the Environmental Molecular Sciences Laboratory (EMSL). The Laboratory shall support the President's commitment to sustain and nurture the nation's science and technology enterprise, to support national goals in security, energy, environmental quality, human health and economic growth, and to provide a significant resource for scientists world-wide to engage with Laboratory staff in accelerating the nation's progress towards these goals.

The Laboratory's mission statement is documented and updated annually as necessary as part of the Laboratory's strategy development process. As a multi-program national laboratory, the Laboratory's mission is to create new knowledge and deliver solutions to science and technology challenges in DOE's core missions. The Laboratory envisions being DOE's best-inclass multi-program laboratory known for breakthrough science and for rapidly translating discoveries into applications that solve critical challenges and benefit our nation and society. Over the term of this

Contract, the Contractor shall conduct a broad spectrum of research and development programs in DOE's science, national security, environmental quality, and energy missions as assigned by DOE. The Contractor shall make its government-funded scientific and technical research results broadly available to the public. The Contractor shall continue to use its multidisciplinary capabilities and apply its expertise to conduct research for the government and the private sector. The Contractor shall also provide technical advice and guidance to DOE in support of policy development, program planning, and other DOE activities as requested by DOE, and shall bring forward recommendations for new research and development programs designed to achieve DOE mission goals.

In keeping with its overall role as a multi-program national laboratory, the specific research programs conducted and the overall mix of research at the Laboratory will change, as needed, over the Contract period in keeping with DOE's changing mission needs, advances in science and technology, and other drivers. Accordingly, this statement of work is not intended to be all-inclusive or restrictive, but is intended to provide a broad framework and general scope of the work to be performed at the Laboratory. This statement of work does not represent a commitment to, or imply funding for, specific projects or programs.

As a multi-program laboratory, work under this Contract includes scientific and technical programs sponsored by major DOE organizations. Primary DOE sponsors include:

- Office of Science
- Environmental Management
- Nuclear Energy Science and Technology
- Energy Efficiency and Renewable Energy
- Fossil Energy
- National Nuclear Security Administration
- Office of Intelligence
- Office of Counterintelligence

Additionally, the Contractor shall engage in other DOE and non-DOE science and technology initiatives that derive from the Laboratory's missions and utilize the Laboratory's core competencies. A summary of current Laboratory programs supporting DOE's mission areas follows. Descriptions of major programs are updated annually in the Laboratory's strategy.

#### 4.2.1 Science mission role

In the science mission, the Contractor shall deliver the scientific knowledge and discoveries for DOE's applied missions; advance the frontiers of the physical sciences and areas of the biological, environmental and computational sciences; and provide world-class research facilities and essential scientific human capital to the nation's overall science enterprise. Areas of research shall include conducting research under DOE's Biological and Environmental Research programs, including biomolecular science and microbiology, environmental science (atmospheric science, climate research, and subsurface science), and computational modeling. The Contractor shall also conduct research programs in chemistry, chemical physics, materials science, nuclear science and technology, and computer and information science as part of DOE's Basic Energy Sciences and Advanced Scientific Computing Research programs.

Specifically the Contractor shall operate the William R. Wiley Environmental Molecular Sciences Laboratory (EMSL), a user facility that provides a broad range of advanced experimental and computational tools for advanced research in the environmental, biological, chemical, and materials sciences, and other user facilities as designated by or constructed by DOE.

#### 4.2.2 National Security mission role

In the national security mission, the Contractor shall support DOE efforts to strengthen United States security through the application of nuclear science and by reducing the global threat from weapons of mass destruction. The Contractor shall also support DOE efforts in arms control and nonproliferation, intelligence analysis, and counterintelligence. In particular, the Contractor shall provide science, technology, and engineered systems to monitor nuclear treaties and agreements, to prevent the proliferation of weapons of mass destruction, and to counter terrorism, including threats from chemical and biological agents. The Contractor shall provide technical expertise for the United States' international efforts to improve the safety of nuclear power generation and the management and safeguarding of nuclear materials. Other areas of emphasis shall include cyber security, homeland security, and infrastructure protection. The Contractor shall also provide selected support for DOE's stockpile stewardship.

#### 4.2.3 Energy Resources mission role

In the energy resources mission, the Contractor shall increase global energy security, maintain energy affordability and reduce adverse environmental impacts associated with energy production, distribution, and use by developing and promoting advanced energy technologies, policies and practices that efficiently increase domestic energy supply, diversity, productivity, and reliability. The Contractor shall be a major asset to DOE and the nation in providing a balanced portfolio of secure, clean, and affordable energy systems compatible with achieving a sustainable energy future. The Contractor shall provide science and engineering for developing clean, affordable technologies for transportation, energy generation, and energy efficient buildings and industrial processing. Particular areas of emphasis include development of low-cost, high performance, solid oxide fuel cells, hybrid fuel cell systems, energy storage systems, bio-based products, and essential technology for a hydrogen economy. Tools shall also be developed for transforming the energy grid into a secure and dynamically predictable transmission and distribution system. Other areas of emphasis include leadership in climate modeling, integrated assessment, and CO<sub>2</sub> capture and sequestration science and technology, establishing a sound basis for the geologic and terrestrial sequestration that enables the nation to effectively manage the risks posed by climate change. The Contractor shall also provide unique capabilities in advanced materials, processes and diagnostics critical to the development of next-generation nuclear reactors and securing a safe and viable nuclear energy option.

#### 4.2.4 Environmental Quality mission role

In the environmental quality mission, the Contractor shall provide science and technology support to DOE's effort to aggressively clean up the environmental legacy of nuclear weapons and civilian nuclear research and development programs, permanently dispose of the Nation's radioactive wastes, minimize the social and economic impacts to individual workers and their communities resulting from departmental activities, and ensure the health and safety of DOE workers, the public and protection of the environment. The Contractor shall provide science and technology contributions that substantially reduce the cost, time, and risk associated with DOE's cleanup, and enable site cleanup and closure decisions to have a sound, scientific basis. The Contractor shall support DOE's waste characterization, waste disposal, cleanup, and land restoration programs, both nationally and at the Hanford Site. The Contractor shall utilize advanced computational capabilities that enable the design of bio-chemical remediation processes that target specific distributed contaminants, optimize the facilities that will be used to treat large quantities of concentrated contaminants, and provide sub-surface

contaminant behavior models that satisfy stakeholder needs for decision and informational tools. Areas of emphasis include solving tank waste problems at DOE sites, vitrification and processing technologies for waste treatment and immobilization, fate and transport modeling, environmental measurements and monitoring, ecological studies, and technology for groundwater cleanup. The tools and technologies developed by the Contractor for cleanup shall be expanded to help address the region's and Nation's most challenging natural resource issues - water stewardship, carbon management, and ecosystem protection.

#### 4.2.5 Technology Transfer Programs

The Contractor shall contribute to U.S. technological competitiveness through research and development partnerships with industry that capitalize on the Laboratory's expertise and facilities. Principal mechanisms to effect such contributions are: cooperative research and development, access to user facilities, reimbursable work for non-DOE activities, personnel exchanges, and licenses.

The Contractor shall cooperate with industrial organizations to assist in increasing U.S. industrial competitiveness, by assisting in the application of energy science and technology. Such cooperation may include an early transfer of information to industry by arranging for the active participation by industrial representatives in the Laboratory's programs. Cooperation with industrial partners may include long-term strategic partnerships aimed at commercialization of inventions or the improvement of industrial products. The Contractor shall respond to specific near-term technological needs of industrial companies with special consideration given to working with small, small disadvantaged and women-owned businesses as well as regional and local companies through special assistance programs targeting such organizations. The Contractor shall develop productive relationships/partnerships with regional and local companies, Governments and universities through forums such as conferences, workshops, and traveling presentations. It is anticipated that these organizations will be particularly effective participants in the Laboratory's technology transfer activities in promoting a mutually beneficial relationship between DOE, the Contractor and the communities surrounding the Laboratory.

Cooperation may also include use by industrial organizations of Laboratory facilities and other assistance as may be authorized, in writing, by the Contracting Officer.

## 4.2.6 Science and Mathematics Education Programs and Cooperation with Universities and Other Research Institutions

The Contractor shall develop partnerships with colleges and universities, including Minority-Serving Institutions, and manage programs to enhance science and mathematics and technology education at all levels. The Contractor shall encourage participation by a diverse group of faculty and students in Laboratory programs bringing their talents to bear on important research problems and contributing to the education of future scientists and engineers. The Contractor shall conduct programs for pre-college students and faculty to enrich science and mathematics and technology education including programs to encourage members of under-represented societal groups to enter careers in the science and engineering fields.

The Contractor shall manage and operate programs for cooperation with academic and nonprofit research institutions to integrate research and education in scientific and technical fields underlying DOE's programs, as well as facilitate partnerships between the Laboratory and other research and educational institutions. This cooperation may include, but is not limited to, such activities as: (i) joint experimental programs with colleges, universities, and nonprofit research institutions; (ii) exchange of college and university faculty and Laboratory staff; (iii) student/teacher educational research programs at the pre-collegiate and collegiate level; (iv) post-doctoral programs; (v) arrangement of and participation in regional, national, or international professional meetings or symposia; (vi) use of special Laboratory facilities by colleges, universities, and nonprofit research institutes; or (vii) provision of unique experimental materials to colleges, universities, or nonprofit research institutions or to qualified members of their staffs.

#### 4.2.7 International Research Collaboration

In accordance with established DOE policies, the Contractor will maintain a broad program of international research collaboration in areas of research of interest to the DOE. This collaboration will be both in areas where DOE has formal international cooperation agreements which assign the Contractor a specific role, as well as in areas of general interest to DOE's research programs.

This collaboration may include, but is not limited to, such activities as: (i) participation in assigned aspects of formal international agreements; (ii) maintenance of liaison with peer groups in the international R&D community; (iii) participation in programs of international scientific organizations; (iv) developing and proposing to DOE, joint experimental programs and/or work for others from international sponsors; or (v)

participation in programs involving visits, assignments, or exchanges of staff/students.

#### 4.2.8 Other Related Work and Operation of the Laboratory

The Contractor shall plan, manage and execute other research and development programs as directed or approved by DOE. In addition, the Contractor shall support local and regional economic development and apply existing Laboratory assets in the execution of such support.

The Contractor shall also manage, operate, protect, maintain and enhance the Laboratory's ability to function as a DOE multi-program national laboratory, provide the infrastructure and support activities, support the accomplishment of the Laboratory's missions and provide the accountability to the DOE under the results-oriented, performance-based provisions of this Contract.

#### 4.3 Operating Envelope

#### 4.3.1 Operating Principles

This section summarizes the overall operating envelope for the Laboratory. Specific provisions of this Contract regarding management and operational requirements have been established so as to be consistent with this intended operating envelope, and assignment of programs with operating requirements outside the range established here may require review and modification of relevant Contract terms.

The operating envelope generally consists of environmental, safety, health and quality (ESH&Q), facility management, and safeguards and security requirements that bound the operation of facilities and activities (work). These requirements are captured by the Laboratory's Standards Based Management Systems and deployed to facilities, staff and "the bench top" through a series of electronic tools (e.g. IOPS, EPR, FUAs). The requirements flow shall be managed through a disciplined interface between DOE and the Contractor. Requirements shall be graded and tailored to the risks inherent in the conduct of work, and work shall be authorized using the guiding principles and core values of integrated safety management. Requirements at the contractual level shall be set forth in accordance with the clause in Section H, entitled "Application of DOE Contractor Requirements Documents."

The Requirements Integration Tailoring (RIT) process as described in the Standards Based Management System may be used as the approved

process to identify appropriate standards. When such a process is used, it shall be based on the following criteria:

- (a) For Laboratory standards, the DOE site management and Contractor management participate in and agree on the process, including extent of stakeholder involvement and confirmation of standards
- (b) Standards are based on the work, the environment in which the work is performed, and the hazards or risks (operational and administrative) associated with the work.
- (c) Laboratory processes include robust mechanisms for establishing and maintaining standards that govern the conduct of work.
- (d) People qualified by knowledge, experience, and training select or develop and confirm the standards.
- (e) The process is documented and the adequacy of the standards selected is justified; justification is not required for standards not selected.
- (f) The selected standards are accepted by all as the basis for the performance of work and oversight.
- (g) To the extent possible, standards are outcome-based (i.e., establish the "what" versus the "how").
- (h) Preference is given to external laws and regulations, consensus standards or generally accepted standards. If consensus or generally accepted standards are not sufficient, site-specific standards based on DOE Directives are developed.
- (i) Process efficiencies are sought through multi-site benchmarking and collaboration in the selection of standards for similar work.

To accommodate the broad range of work at the Laboratory, and to assure proper control of classified and high hazard work without imposing unnecessarily burdensome requirements on low risk activities or facilities, the Contractor shall apply a graded approach to establishing work requirements and overseeing project work.

#### 4 3 2 Facilities

The Laboratory's facilities include those located in Richland, Washington, the Hanford Reservation, and may include those located in Sequim,

Washington, Seattle, Washington, Portland, Oregon, Washington D.C., and other sites as may be designated by the Contractor upon approval of the DOE Contracting Officer.

Over the course of this Contract, the Contractor shall conduct work involving nuclear and radiological materials in non-nuclear facilities and manage at least one Category II nuclear facility.

This Contract will enable the establishment of the Laboratory "Nuclear Island" concept. The nuclear island(s) shall be operated consistent with the requirements set forth within a DOE-approved Authorization Agreement. The nuclear island(s) include those work activities at the Laboratory that are conducted within Hazard Category 1, 2, or 3 DOE nuclear facilities, as designated in accordance with DOE-STD-1027-92, "Hazard Categorization and Accident Analysis Techniques for compliance with DOE Order 5480.23, Nuclear Safety Analysis," and 10 CFR 830. Currently, the "Nuclear Island" at the Laboratory consists of the work and facilities associated with the Radiochemical Processing Laboratory (RPL). More simply, the current nuclear island can be defined as the RPL and immediately adjacent ancillary areas, as defined in both the Documented Safety Analysis (DSA) and Facility Use Agreement (FUA).

The Contractor shall initiate and continually improve facility and waste management practices that implement the "Start Clean - Stay Clean" principles whereby research projects and facility operations are planned so that wastes will be minimized at the end of the project or the life of the facility.

#### 4.3.3 Hazards

The Contractor shall conduct biological research, including animal studies. Research conducted shall not utilize agents that exceed biohazard level III without DOE approval.

The Contractor shall conduct research utilizing a broad range of nuclear, radiological, and chemical quantities and shall maintain individual facility chemical inventories below Threshold Planning Quantities. The Contractor shall conduct research involving non-ionizing radiation hazards including but not limited to infrared sources, lasers, magnetic fields, radio frequency fields, microwave fields, electric fields and ultraviolet light sources. Over the course of this Contract the Contractor shall conduct work involving physical hazards including but not limited to electrical, pressure systems, work at heights (e.g. roofs and ladders), noise greater than 85dBA, thermal hazards, and other energy hazards. The Contractor shall also conduct research involving equipment or hazards including but not limited to the following: aircraft, boats, firearms, underwater diving,

confined space, facility construction and modification, forklifts, cranes, hoists, and off-road motor vehicle use.

#### 4.3.4 Security

Over the term of this Contract, the Contractor shall conduct work with a broad range of information security protections, including cyber security and export controls, ranging from open research intended for broad public dissemination, to classified research. In particular, the Contractor shall conduct a significant volume of classified work in support of DOE's national security mission. The Contractor shall therefore maintain appropriately controlled space, including Special Compartmentalized Information Facility (SCIF) space.

Over the course of this Contract, Contractor staff may participate in international programs likely involving short-term and long-term staff deployments to foreign countries, including sensitive countries.

#### 4.3.5 External Regulation

Over the term of this Contract, DOE may evaluate the potential of moving all or parts of the Laboratory to external regulation (OSHA, NRC.). The Contractor shall support DOE in evaluating the benefits and costs of external regulation, and in execution of a pilot program or transition if a decision to proceed is made.

Modification M412

## Part I – The Schedule

## Section D – Packaging and Marking

## Reserved

Contract Number: DE-AC05-76RL01830 Modification M412

## Part I – The Schedule

## **Section E**

## **Inspection and Acceptance**

## **Table of Contents**

E-1 52.246-9 Inspection of Research and Development (Short Form) (Apr 1984) ...... 1

Modification M412

#### E – 1 52.246-9 Inspection of Research and Development (Short Form) (Apr 1984)

The Government has the right to inspect and evaluate the work performed or being performed under the Contract, and the premises where the work is being performed, at all reasonable times and in a manner that will not unduly delay the work. If the Government performs inspection or evaluation on the premises of the Contractor or a subcontractor, the Contractor shall furnish and shall require subcontractors to furnish all reasonable facilities and assistance for the safe and convenient performance of these duties.

(End of Clause)

Contract Number: DE-AC05-76RL01830 Modification M412

## Part I – The Schedule

## **Section F**

## **Deliveries or Performance**

## **Table of Contents**

F-1	Period of Performance1
F-2	52.242-15 Stop-Work Order (Aug. 1989) Alternate I (Apr 1984)

Modification M412

#### F-1 Period of Performance

This Contract shall be effective as specified in Block No. 3 – Effective Date, of the Standard Form 30, for this modification, except as otherwise provided, and shall continue up to and including September 30, 2007, unless sooner terminated according to its terms and conditions, or extended in accordance with the appropriate FAR and DEAR provisions.

(End of Clause)

#### F – 2 52.242-15 Stop-Work Order (Aug. 1989) Alternate I (Apr 1984)

- (a) The Contracting Officer may, at any time, by written order to the Contractor, require the Contractor to stop all, or any part, of the work called for by this Contract for a period of 90 days after the order is delivered to the Contractor, and for any further period to which the Parties may agree. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Within a period of 90 days after a stop-work is delivered to the Contractor, or within any extension of that period to which the Parties shall have agreed, the Contracting Officer shall either:
  - (1) Cancel the stop-work order; or
  - (2) Terminate the work covered by the order as provided in the Termination clause of this Contract.
- (b) If a stop-work order issued under this clause is canceled or the period of the order or any extension thereof expires, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule, the estimated cost, the fee, or a combination thereof, and in any other terms of the Contract that may be affected, and the Contract shall be modified, in writing, accordingly, if:
  - (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this Contract; and
  - (2) The Contractor asserts its right to the adjustment within 30 days after the end of the period of work stoppage; provided that, if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon the claim submitted at any time before final payment under this Contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.

Contract Number: DE-AC05-76RL01830 Modification M412

## Part I – The Schedule

## **Section G**

## **Contract Administration Data**

## **Table of Contents**

G-1	Head of Contracting Activity (HCA), Contracting Officer (CO),	
	Administrative Contracting Officer (ACO), and Contracting Officer's	
	Representative (COR)	1
G-2	952.242-70 Technical Direction (DEC 2000)	2
G-3	Correspondence Procedure	3
	Modification Authority	

Contract Number: DE-AC05-76RL01830 Modification M412

# G-1 Head of Contracting Activity (HCA), Contracting Officer (CO), Administrative Contracting Officer (ACO), and Contracting Officer's Representative (COR)

- (a) The Chief Operating Officer, DOE Office of Science, has been designated as the HCA for this Contract.
- (b) The primary CO for this Contract shall be Ronnie L. Dawson. When necessary, other DOE COs may act within the authority delegated to them to facilitate administration of this Contract.
- (c) Paul W. Kruger, the Manager, Pacific Northwest Site Office, has been designated as the ACO for this Contract.
- (d) The COR(s) for this Contract have been designated, in writing, by the ACO in accordance with paragraph (b) of the clause entitled "Technical Direction" and are listed below:

Name & Position	Authorities
Julie K. Erickson, Deputy Manager	Unlimited authority to act for the
Pacific Northwest Site Office	Contracting Officer for functions that do not
	involve a change in the scope, price, terms,
	or conditions of the Contract.
Debbie E. Trader, Director	Unlimited authority to act for the
Programs Division	Contracting Officer for functions within the
	scope of the PNSO Programs Division that
	do not involve a change in the scope, price,
	terms, or conditions of the Contract.
Roger F. Christensen, Director	Unlimited authority to act for the
Operations Division	Contracting Officer for functions within the
	scope of the PNSO Operations Division that
	do not involve a change in the scope, price,
	terms, or conditions of the Contract.
Lynnette R. Downing, Work for	Unlimited authority to act for the
Others Coordinator	Contracting Officer for Work for Others
	functions that do not involve a change in the
	scope, price, terms, or conditions of the
	Contract.
Dationa O. Carter, Attorney-	Unlimited authority to act for the
Advisor, Oak Ridge Office of	Contracting Officer for Litigation
General Counsel	Management and Legal Policy functions
	that do not involve a change in the scope,
	price, terms, or conditions of the Contract.

(End of Clause)

Modification M412

#### **G–2** 952.242-70 Technical Direction (DEC 2000)

(a) Performance of this work under this Contract shall be subject to the technical direction of the Contracting Officer's Representative (COR). The term "technical direction" is defined to include, without limitation:

- (1) Providing direction to the Contractor that redirects Contract effort, shift work emphasis between work areas or tasks, require pursuit of certain lines of inquiry, fill in details, or otherwise serve to accomplish the contractual Statement of Work.
- (2) Providing written information to the Contractor that assists in interpreting drawings, specifications, or technical portions of the work description.
- (3) Reviewing and, where required by the Contract, approving, technical reports, drawings, specifications, and technical information to be delivered by the Contractor to the Government.
- (b) The Contractor will receive a copy of the written COR designation from the Contracting Officer. It will specify the extent of the COR's authority to act on behalf of the Contracting Officer.
- (c) Technical direction must be within the scope of the work stated in the Contract. The COR does not have the authority to, and may not, issue any technical direction that:
  - (1) Constitutes an assignment of additional work outside the Statement of Work;
  - (2) Constitutes a change as defined in the Contract clause entitled "Changes;"
  - (3) In any manner causes an increase or decrease in the total estimated Contract cost, the fee (if any), or the time required for Contract performance;
  - (4) Changes any of the expressed terms, conditions or specifications of the Contract; or
  - (5) Interferes with the Contractor's right to perform the terms and conditions of the Contract.
- (d) All technical directions shall be issued in writing by the COR.
- (e) The Contractor must proceed promptly with the performance of technical direction duly issued by the COR in the manner prescribed by this clause and

Modification M412

within its authority under the provisions of this clause. If, in the opinion of the Contractor, any instruction or direction by the COR falls within one of the categories defined in (c)(1) through (c)(5) of this clause, the Contractor must not proceed and must notify the Contracting Officer in writing within five (5) working days after receipt of any such instruction or direction and must request the Contracting Officer to modify the Contract accordingly. Upon receiving the notification from the Contractor, the Contracting Officer must:

- (1) Advise the Contractor in writing within thirty (30) days after receipt of the Contractor's letter that the technical direction is within the scope of the Contract effort and does not constitute a change under the Changes clause of the Contract;
- (2) Advise the Contractor in writing within a reasonable time that the Government will issue a written change order; or
- (3) Advise the Contractor in writing within a reasonable time not to proceed with the instruction or direction of the COR.
- (f) A failure of the Contractor and Contracting Officer either to agree that the technical direction is within the scope of the Contract or to agree upon the Contract action to be taken with respect to the technical direction will be subject to the provisions of the clause entitled "Disputes."

  (End of Clause)

#### G-3 Correspondence Procedure

Acting as a representative of the DOE Office of Science, the Pacific Northwest Site Office (PNSO) has the overall lead responsibility for oversight and administration of the programs and activities conducted by the Laboratory. To promote timely and effective administration, correspondence, submitted under the Contract, shall contain a subject line commencing with the Contract number and shall be subject to the following procedures:

#### (a) Technical Correspondence

Technical correspondence shall be addressed to the DOE Program Manager, COR, or other duly authorized Government representative, with an information copy of the correspondence to the PNSO. For the purpose of this paragraph, technical correspondence does not include technical correspondence where patent issues are involved; correspondence which proposes or otherwise involves waivers, deviations, or modifications to the requirements, terms, or conditions, of this Contract; and correspondence associated with approval requirements of the Contracting Officer.

#### (b) Other Correspondence

Modification M412

Other than technical correspondence shall be addressed to the Contracting Officer with information copies of the correspondence to the PNSO and as appropriate to the DOE Program Manager, COR, or other authorized Government representatives.

(End of Clause)

#### **G-4** Modification Authority

Notwithstanding any of the other provisions of this Contract, a Contracting Officer shall be the only individual on behalf of the Government authorized to:

- (a) Accept nonconforming work;
- (b) Waive any requirement of this Contract; or
- (c) Take any action involving a change in the scope, price, terms, or conditions of this Contract.

(End of Clause)

Contract Number: DE-AC05-76RL01830 Modification M412

## Part I – The Schedule

## Section H Special Contract Requirements Table of Contents

H-I	Use Of Facilities for Contractor's Own Account	I
H-2	Implementation Procedures for Public Affairs	1
H-3	Transportation	3
H-4	Source and Special Nuclear Materials	
H-5	Workers' Compensation	3
H-6	Unemployment Compensation	5
H-7	Contractor Acceptance of Notices of Violation or Alleged Violations, Fines	٠,
	and Penalties	5
H-8	Allocation of Responsibilities for Contractor Environmental Compliance	
	Activities	5
H-9	Other Intellectual Property Related Matters	6
H-10	Continued Improvement Initiative	. 12
H-11	Standards of Contractor Performance Evaluation	. 12
H-12	Notice Regarding the Purchase of American-Made Equipment and Produc	
	- Sense of Congress (AL-2003-03)	
H-13	Care Of Laboratory Animals	
H-14	Laboratory Facilities	. 16
H-15	Privacy Act Records	. 16
H-16	Administration of Subcontracts	. 17
H-17	Long-Range Planning, Program Development and Budgetary Administrat	ion
H-18	Application of DOE Contractor Requirements Documents	
H-19	Cap on Liability	
H-20	Performance Based Management and Oversight	
H-21	Site and Occupational Health Services	
H-22	Lobbying Restriction (Energy & Water Development Appropriations Act,	
	2003) (AL-2003-03)	. 23
H-23	<b>Lobbying Restriction (Department of Interior and Related Agencies</b>	
	Appropriations Act, 2003) (AL-2003-03)	
H-24	Determining Total Available Performance Fee and Fee Earned	. 24
H-25	Project Management System	. 24
H-26	Advance Understandings on Allowable Costs	. 25
H-27	Employee Concerns Program	. 31
H-28	Greening the Government Through Federal Fleet and Transportation	
	V	. 31
H-29	Conditional Payment of Fee or ProfitSafeguarding Restricted Data and	
	Other Classified Information (66 Fed. Reg. 8560, Feb. 1, 2001)	. 32
H-30	Contractor Compensation, Benefits and Pension	
H-31	Determining Total Available Mission Stretch Goal(s) Incentive Fee and Fe	e
	Earned	. 48

Contract Number:	DE-AC05-76RL01830
	Modification M412

H-32	Other Advance Understandings
	Open Competition and Labor Relations under Management and Operating
	and Other Major Facilities Contracts (Dec 2002) (AL 2002-08)49

Modification M412

#### H-1 Use Of Facilities for Contractor's Own Account

During the term of this Contract, the Contractor may use the facilities designated under Section B and other Government-owned or leased property in its custody under this Contract to conduct research and development activities for its own account, to the extent and in accordance with such terms and conditions as DOE and the Contractor may agree to from time to time as set forth in Use Permit Agreement No. DE-GM05-00RL01831 dated February 01, 2000. Except as incorporated by reference in the aforementioned Agreement, the terms and conditions of this Contract shall not apply to such research and development activities.

(End of Clause)

# H-2 Implementation Procedures for Public Affairs

# (a) Public Affairs and News Releases

- (1) The Parties recognize the importance of coordination with regard to areas covered in this clause so as to achieve public policy objectives important to the nation. As a federal agency, DOE must assure that news releases which describe its policies and procedures as related to the operation of its national scientific laboratories do so on an accurate and timely basis. Accordingly, the Parties recognize the importance of advanced coordination of significant news media activities, including news releases, major announcements, and significant interactions with national news media. The Parties agree that the procedures and policies established in this clause shall constitute the procedures required by the clause in this Contract entitled Public Affairs.
- (2) Coordination is especially important in certain circumstances and the Contractor shall be guided by the following principles. The Contractor will:
  - i. Coordinate and communicate with the PNSO Public Affairs Officer on interactions with Congress.
  - ii. Ensure that State, local, territorial, and Indian Governments are provided an opportunity to participate in development of national energy and energy-related policies and programs, and particularly in those policies and programs which directly affect them.
  - iii. Seek public participation in coordination with the PNSO Public Affairs Officer to the extent allowable in pending policy and planning issues which are substantial and which can have major impacts on the public.

- (3) The Contractor will exercise diligent efforts to inform DOE in advance of significant public affairs events or other major activities, including presentations, publications, significant audio-visual materials, and special exhibits. When such advance exchange is not possible operationally, the Contractor shall promptly furnish the released information to the DOE concurrent with its release. When preparing public information about the Contractor's performance or activities, DOE will exercise the same diligence in attempting to coordinate with the Contractor prior to its release.
- (4) The Contractor shall not release information attributed directly to DOE or which purports to represent established DOE policy without advance concurrence of the PNSO Public Affairs Officer. Nothing in this clause shall be construed so as to limit the right of the Contractor to publicize the results of its scientific research, consistent with the advance coordination principles outlined above.
- (5) In all public releases of information in communication products related to the Laboratory, identification of the facility as a Department of Energy facility shall be made prominently in the communication product involved. This identification should include a statement that the Laboratory is a DOE facility which is operated by the Contractor under a performance based management contract. The inclusion of such a standard statement does not replace, however, the requirement for prominent identification of the Laboratory as a DOE facility in an appropriate editorial context in the communications product.
- (6) Nothing in this clause is intended to interfere with requirements associated with information that is classified or controlled under a statute or Executive Order.

#### (b) Public Involvement

- (1) The Contractor agrees to provide public involvement where appropriate and in cooperation with the PNSO Public Affairs Officer.
- (2) DOE recognizes such activities as an integral component of Contractor management responsibilities in the execution of the Contract. The Parties recognize their mutual responsibilities to coordinate public involvement activities and to coordinate all related external communications consistent with the principles outlined in paragraph (a), Public Affairs and News Releases, above.
- (3) In carrying out Laboratory public involvement activities, the Contractor agrees that it will make no statements contrary to DOE policy or enter into

Modification M412

any commitments with external parties regarding departmental actions without DOE concurrence.

(End of Clause)

#### H-3 Transportation

The Contractor shall use carriers providing services commensurate with DOE program needs, taking full advantage of special reduced rates where available.

(End of Clause)

# H-4 Source and Special Nuclear Materials

The Contractor shall comply with all applicable regulations and instructions of DOE relative to the control of and accounting for source and special nuclear material (as these terms are defined in applicable regulations). The Contractor shall make such reports and permit such inspections as DOE may require with reference to source and special nuclear materials. The Contractor shall take all reasonable steps and precautions to protect such materials against theft and misappropriations and to minimize all losses of such materials. The Contractor shall also submit to DOE, as requested for all specified nuclear materials, the annual Nuclear Materials Inventory Assessment and the Nuclear Materials Forecast.

(End of Clause)

# H-5 Workers' Compensation

- (a) Pursuant to State of Washington Revised Code (RCW) Title 51, the Department of Energy (DOE), Richland Operations Office (RL) is a group self-insurer for purposes of workers' compensation coverage. The coverage afforded by those workers' compensation statutes shall, for work under this Contract in the state of Washington, be subject to the following:
  - (1) Under the terms of a Memorandum of Understanding (MOU) with the Washington Department of Labor and Industries (L&I), DOE has agreed to perform all functions required by self-insurers in the State of Washington. While this MOU is in effect, the Contractor is not required to pay for workers compensation coverage or benefits except as otherwise provided below or as directed by the Contracting Officer.
  - (2) The Contractor shall submit to DOE (or other party as designated by DOE for transmittal to the L & I), such payroll records required by the workers compensation laws of the State of Washington.
  - (3) The Contractor shall submit to DOE (or other party as designated by DOE), for transmittal to the Department, the accident reports provided for by RCW Title 51, Section 51.28.010, or any other documentation requested by DOE or

Modification M412

the L&I pursuant to the workers compensation laws of the State of Washington.

- (4) The Contractor shall take such action, and only such action, as DOE requests in connection with any accident reports, including assistance in the investigation and disposition of any claim thereunder and, subject to the direction and control of DOE, the conduct of litigation in the Contractor's own name in connection therewith.
- (5) Under RCW Title 51.32.073, DOE is the self-insurer and is responsible for making quarterly payments to the State Department of L&I. In support of this arrangement, the Contractor is responsible for withholding appropriate employee contributions and forwarding on a timely basis these contributions plus the employer-matching amount to DOE.
- (6) The workers' compensation program shall operate in partnership with Contractor employee benefits, risk management, and environmental, safety, and health management programs. The Contractor shall cooperate with DOE for the management and administration of DOE, Richland Operations Office (RL) self-insurance program that provides workers' compensation benefit coverage to Contractor employees at PNNL.
- (7) The Contractor must certify to the accuracy of the payroll record used by the Department in establishing the self-insurance claims reserves, and cooperate with any state audit.
- (8) The Contractor shall submit to the Contracting Officer, a yearly evaluation and analysis of workers' compensation cost as a percent of payroll compared with the percentage of payroll cost reported by a nationally recognized Cost of Risk Survey that has been pre-approved by the Department (once DOE has provided the Contractor with the necessary data to perform the analysis required in this paragraph).
- (b) The Contractor will provide statutory worker's compensation coverage for staff members performing work under this Contract outside of the State of Washington and not otherwise covered by the State of Washington worker's compensation laws.
- (c) Subcontractors performing work under this Contract on behalf of the Contractor are not covered by the provision of the Agreement referenced in (a)(1) of this clause. The Contractor shall flow-down to its subcontractors the requirement to provide statutory worker's compensation coverage for the subcontractor's employees. The Contractor shall have no responsibility for subcontractor worker's compensation when it includes this requirement in the subcontract.

(End of Clause)

Modification M412

# **H-6** Unemployment Compensation

(a) The Contractor will provide coverage for staff members under state unemployment compensation laws in any state in which any part of the work is carried on.

(b) DOE shall be given the benefit of any employer experience rating credit received by the Contractor and attributable to wages subject to contribution paid under this Contract.

(End of Clause)

# H-7 Contractor Acceptance of Notices of Violation or Alleged Violations, Fines, and Penalties

- (a) The Contractor shall accept, in its own name, service of notices of violation or alleged violations (NOVs/NOAVs) issued by Federal or State regulators to the Contractor resulting from the Contractor's performance of work under this Contract, without regard to liability. The allowability of the costs associated with fines and penalties shall be subject to the other provisions of this Contract.
- (b) The Contractor shall notify DOE promptly when it receives service from the regulators of NOVs/NOAVs and fines and penalties.

  (End of Clause)

# H-8 Allocation of Responsibilities for Contractor Environmental Compliance Activities

- (a) The Parties commit to full cooperation with regard to acquiring any necessary permits or licenses required by environmental, safety and health (ES&H) laws, codes, ordinances, and regulations of the United States, states or territories, municipalities or other political subdivisions, and which are applicable to the performance of work under this Contract. It is recognized that certain ES&H permits will be obtained jointly as co-permittees, and other permits will be obtained by either party as the sole permittee. The Contractor, unless otherwise directed by the Contracting Officer, shall procure all necessary non-ES&H permits or licenses.
- (b) This clause allocates the responsibilities of DOE and the Contractor, referred to collectively as the "Parties", for implementing the environmental requirements at facilities within the scope of the Contract. In this Clause, the term "environmental requirements" means requirements imposed by applicable Federal, State, and local environmental laws and regulations, including, without limitation, statutes, ordinances, regulations, court orders, consent decrees, administrative orders, or compliance agreements, including the *Hanford Federal Facility Agreement and Consent Order*, consent orders, permits, and licenses.

(c) (i) Liability and responsibility for civil fines or penalties arising from or related to violations of environmental requirements shall be borne by the party causing the violation irrespective of the fact that the cognizant regulatory authority may assess any such fine or penalty upon either party or both Parties without regard to the allocation of responsibility or liability under this Contract. This contractual allocation of liability for any such fine or penalty is effective regardless of which party signs permit applications, manifests, reports, or other required documents, is a permittee, or is the named subject of an enforcement action or assessment of a fine or penalty. The allowability of the costs associated with fines and penalties assessed against the Contractor shall be subject to the other provisions of this Contract.

- (ii) In the event that the Contractor is deemed to be the primary party causing the violation, and the costs of fines and penalties proposed by the regulatory agency to be assessed against the Government (or the Government and Contractor jointly) are determined by the Government to be presumptively unallowable if allocated against the Contractor, then the Contractor shall be afforded the opportunity to participate in negotiations to settle or mitigate the penalties with the regulatory authority. If the Contractor is the sole party of the enforcement action, the Contractor shall take the lead role in the negotiations and the Government shall participate and have final authority to approve or reject any settlement involving costs charged to the Contract.
- (d) DOE agrees that if bonds, insurance, or administrative fees are required as a condition for permits obtained by the Contractor under this Contract, and the Contractor has been directed in by the Contracting Officer to obtain such permits after the Contractor has notified the Contracting Officer of the costs of complying with such conditions, such costs shall be allowable. In the event such costs are determined by DOE to be excessive or unreasonable, DOE shall provide the regulatory agency with the acceptable form of financial responsibility. Under no circumstances shall the Contractor be required to provide any corporate resources or corporate guarantees to satisfy such regulatory requirements.

(End of Clause)

# H-9 Other Intellectual Property Related Matters

(a) Transfer of Patent Rights to a Successor Contractor

As consideration for the Contractor's commitment to expend private monies in its privately-funded technology transfer effort under this Contract at a level at least commensurate with such expenditures under its prior contracts, including at least one million two hundred fifty thousand dollars (\$1,250,000) per year for activities under the privately-funded technology transfer program which includes a combination of the filing of an average of 20 patent applications, and no fewer than 15, per year during the period of this Contract, including expenses related to the patenting,

Modification M412

marketing, licensing and development of Subject Inventions, the Parties agree that at the termination or expiration of this Contract, the following terms and conditions shall apply to Subject Inventions which were elected to be pursued under the Contractor's privately-funded technology transfer program, and to the licenses and royalties generated therefrom:

- In the event Contractor has executed a license, assignment or other (1) commercialization agreement to a Subject Invention prior to termination or expiration of this Contract in which royalties, fees, equity or other consideration is to be or has been paid (hereinafter "agreement"), the distribution of net income from royalties, equity, or any other consideration received or to be received under such agreement shall remain as prior to Contract termination or expiration and shall continue for the duration of such agreement. As set forth in paragraph (d) below, fifty-one percent (51%) of such net income shall go to the Successor Contractor at the Facility for use at the Facility pursuant to its contract or, in the absence of a Successor Contractor, to such other entity designated by the Government, and forty-nine percent (49%) may be retained by the Contractor for use in accordance with 35 USC Section 200 et seq. Administration of agreements related to such Subject Invention, shall remain with the Contractor. Title to such Subject Invention shall remain with the Contractor provided the Contractor has fulfilled the commitments set forth in paragraph (a) above. If the Contractor has not fulfilled the commitments set forth in paragraph (a) above, upon request, title to such Subject Invention shall be transferred to the Successor Contractor, or such other entity designated by the Government.
- (2) In the event Contractor has not executed an agreement (as defined in paragraph (1) above) to a Subject Invention, upon request, title to such Subject Invention shall be transferred to the Successor Contractor, or to such other entity designated by the Government, unless Contractor can demonstrate that it has expended at least twenty thousand dollars (\$20,000) of private monies in its privately funded technology transfer program toward the patenting, licensing, marketing and/or development of such Subject Invention, and the Contractor has fulfilled the commitments set forth in paragraph (a) above. In the event Contractor retains title to a Subject Invention under this paragraph, the distribution of royalties, fees, equity or other consideration from such agreement shall be as set forth in paragraph (1) above.
- (3) In the event Contractor retains title to Subject Inventions under paragraphs (1) or (2) above, and executes an agreement (as defined in paragraph (1) above) to such Subject Inventions after the termination or expiration of this Contract, the distribution of royalties, fees, equity or other consideration from such agreement shall be as set forth in paragraph (1) above.

(4) The Contractor and the Government shall enter negotiations prior to such termination or expiration with respect to retention of the title to Subject Inventions. Such negotiations shall consider the equities of the Parties with respect to each Subject Invention and shall take into consideration the presence of private investment, DOE's need for continued operation of the Facility, potential commercial use, assumption of patent related liabilities, effective technology transfer, and the need to market the technology. Such negotiations shall not change the disposition of title provided for in paragraphs (1) and (2) above unless mutually agreed by the Contractor and the Government.

(5) For any Subject Invention to which the Contractor maintains title or administration of an agreement under paragraphs (a)(1)-(2) above, the Contractor agrees that, to the extent it is able to do so in view of prior licenses or assignments, it will negotiate in good faith to enable the Successor Contractor to practice such subject invention in the form of CRADAs, Work For Others agreements, licenses or other appropriate agreements, in order to fulfill the missions and programs of the Facility. It is the intention of the Contractor to enable the Successor Contractor to continue operation of the Facility, including the Facility's technology transfer program. In any event, the Successor Contractor retains the nonexclusive royalty-free right to practice the Subject Invention on behalf of the U.S. Government.

#### (b) Costs

- (1) Except as otherwise specified in the clause of this Contract entitled, "Technology Transfer Mission," as allowable costs for conducting activities pursuant to provisions of that clause, no costs are allowable as direct or indirect costs for the preparation, filing, or prosecution of patent applications or the payment of maintenance fees or licensing and marketing costs after the Contractor elects to pursue commercialization of a Subject Invention under its privately-funded technology transfer program pursuant to paragraph (f) below. Should the Contractor make such election after allowable costs have been incurred with respect to the patenting of a particular Subject Invention, such costs shall be repaid from private funds concurrent with such election.
- (2) For a four-year period from October 1, 1988, the effective date of Contract Modification M140, an amount not to exceed \$200,000/year was agreed to be allowable as an indirect cost for activities such as the preparation, filing, or prosecution of patent applications or the payment of maintenance fees or licensing and marketing costs.
- (3) To the extent that the Contractor utilized indirect cost monies pursuant to paragraph (b)(2) above, the annualized balance of royalties or income (net)

Modification M412

being returned to and used at the Facility shall be in the ratio of expenditure of allowable funds pursuant to paragraph (b)(2) above to the sum of such expended allowable funds plus any private Contractor funds for invention costs set forth in the clause entitled, "Patent Rights – Management and Operating Contracts, Nonprofit Organization or Small Business Firm Contractor." However, the annualized net royalties or income being returned to the Facility for use at the Facility shall in no event be less than fifty-one percent (51%) of the balance of royalties or income earned.

**(4)** To the extent that the Contractor utilized indirect cost monies pursuant to this clause, paragraph (b)(2) above, it shall provide reimbursement thereof in the form of funds to be used at the Facility when royalties or income from all invention activities set forth in the clause entitled, "Patent Rights – Management and Operating Contracts, Nonprofit Organization or Small Business Firm Contractor", become self sustaining. Such reimbursement shall be on an annualized basis and shall be equal to twenty percent (20%) of the balance of net royalties or income prior to distribution to the Contractor. Further, where the Contractor assigns or conveys title to a Subject Invention to other than an affiliate of the Contractor, the Contractor shall provide reimbursement of any indirect cost monies utilized with respect to such Subject Invention pursuant to paragraph (b)(2) above in the form of funds to be used at the Facility. Such reimbursement shall be made out of any net royalties or income from Subject Inventions (whether or not from the Subject Invention conveyed) before such royalties are used for any other purpose.

#### (c) Liability of the Government

- (1) It is understood that the privately-funded technology transfer activities of the Contractor under this clause are not subject to the clause entitled, "Insurance-Litigation and Claims".
- (2) The Contractor shall not include in any license agreement or assignment any guarantee or requirement, which would obligate the Government to pay any costs or create any liability on behalf of the Government.
- (3) The Contractor shall include in all licensing agreements and in any assignment of title the following clauses unless otherwise approved or directed by the Contracting Officer following consultation with the DOE Patent Counsel:
  - (i) "This agreement is entered into by Battelle Memorial Institute (BMI) in its private capacity. It is understood and agreed that the U.S. Government is not a party to this agreement and in no manner whatsoever shall be liable for nor assume any responsibility or

obligation for any claim, cost or damages arising out of or resulting from this agreement or the subject matter licensed assigned)."

- (ii) "Nothing in this Agreement shall be deemed to be a representation or warranty by the U.S. Government of the validity of any of the patents or the accuracy, safety, or usefulness for any purpose, of any TECHNICAL INFORMATION, techniques, or practices at any time made available by BMI. The U.S. Government shall have no liability whatsoever to LICENSEE or any other person for or on account of any injury, loss, or damage of any kind or nature sustained by, or any damage assessed or asserted against, or any other liability incurred by or imposed upon LICENSEE or any other person, arising out of or in connection with or resulting from:
  - (A) The production, use, or sale of any apparatus or product, or the practice of the INVENTIONS;
  - (B) The use of any TECHNICAL INFORMATION, techniques, or practices disclosed by BMI; or
  - (C) Any advertising or other promotional activities with respect to any of the foregoing, and LICENSEE shall hold the U.S. Government harmless in the event the U.S. Government is held liable. BMI represents that it has the right to grant all of the rights granted herein, except as to such rights as the Government of the United States of America may have or may assert."

#### (d) Distribution of net income

In the event the Contractor engages in a privately funded technology transfer program under the clause of this Contract entitled, "Patent Rights – Management and Operating Contracts, Nonprofit Organization or Small Business Firm Contractor" or the clause of this Contract entitled, "Rights in Data – Technology Transfer", such that private funds are utilized for technology transfer after the Contractor elects to pursue privately-funded commercialization of a Subject Invention or after the Contractor has received permission from the Contracting Officer to assert statutory copyright in a software program and received DOE approval to commercialize such software under its privately funded technology transfer program under paragraph (i) below, net income from such privately funded technology transfer program shall be distributed as follows:

(1) Fifty-one percent (51%) of net income shall be used at the Facility for scientific research, development and education consistent with the research

Modification M412

and development mission and objectives of the Facility. Forty-nine percent (49%) of such net income may be used by the Contractor at a location other than the Facility if such use is for scientific research, development, and education consistent with the research and development mission and objectives of the Facility in accordance with 35 USC Section 200 et seq.

(2) "Net income" is defined as that amount remaining after the expense of patenting costs, licensing and marketing costs, payments to inventors, and other expenses incidental to the administration of Subject Inventions is deducted from gross income received.

### (e) Equity Plan

It is the intent of the Government and the Contractor that the Contractor shall, in its discretion, take reasonable and prudent actions from both a commercial and stewardship of the Facility's technology transfer perspective related to the ownership of equity received from third parties under this Contract. The Contractor shall submit to the Contracting Officer a plan, which shall set forth principles for the Contractor's acquisition, retention and disposition of equity received from third parties as consideration for licenses or assignments granted to such third party. Such plan shall consider, at a minimum,

- (1) the manner in which the Contractor shall acquire such equity in a third party, including the manner in which the Contractor shall apportion capital contributions to such third party between the relative value of private Contractor contributions and the value of contributions representing a license under a Subject Invention;
- (2) the manner in which the Contractor shall hold such equity, given that the Government has an undivided 51% interest in that portion of such equity representing the value of contributions resulting from a license to such Subject Invention;
- (3) the manner in which the Contractor shall dispose of such equity, giving due consideration to the potential for a conflict of interest between the interests of the Government and the Contractor; and
- (4) the manner in which the Contractor's inventors are compensated.
- (f) The Contractor shall indicate whether a Subject Invention will be pursued under its government-funded technology transfer program or its privately-funded technology transfer program within six (6) months after the Subject Invention is reported to the Contractor, unless otherwise agreed in writing by the DOE Patent Counsel.

(g) In its privately-funded technology transfer program, the Contractor shall be substantially guided by the principles of U.S. Competitiveness and Fairness of Opportunity as set forth herein.

(h) When requesting approval from DOE to assert statutory copyright in a particular software package pursuant to the clause entitled "Rights in Data—Technology Transfer" (Clause I-93(e) herein), Contractor may request that commercialization of such software proceed under the provisions of this Clause H-9. If approved, no costs of such commercialization thereafter shall be allowable, and the proceeds of such commercialization shall be treated in accordance with paragraph (a) above as if such proceeds had resulted from the commercialization of a Subject Invention.

(End of Clause)

## H-10 Continued Improvement Initiative

It is the intent of the Parties to continue to work together during the term of this Contract to develop and implement innovative approaches and techniques for improving Contractor performance and Contract administration. This initiative for continued improvement will focus on improving Contractor efficiency and effectiveness, enhancing Contractor accountability, gaining savings in Laboratory programs, improving cost-effective management of risks, and increasing efficiencies in Federal oversight of the Contract. Areas that the Parties will evaluate, include, but are not limited to, the following:

- (a) Elimination/reduction of mandatory Hanford Site Services and ensure cost allocation equity;
- (b) Contractor-provided facilities through long-term leasing or capital lease arrangements;
- (c) Consolidated Laboratory concept and administration;
- (d) Policies and procedures related to the Technology Transfer mission of the Laboratory.
- (e) Incentive Compensation and/or other enhancements to variable pay programs; and
- (f) Benefits and Pension reciprocity.

(End of Clause)

#### H-11 Standards of Contractor Performance Evaluation

(a) Use of objective standards of performance, self assessment and performance evaluation

(1) The Parties agree that the Contractor will utilize a comprehensive performance-based management approach for overall Laboratory management. The performance-based management approach will include the use of objective performance goals and indicators, agreed to in advance of each performance evaluation period, as standards against which the Contractor's overall performance of the scientific and technical mission obligations under this Contract will be assessed. The performance criteria will be limited in number and focus on results to drive improved performance and increased effective and efficient management of the Laboratory.

- (2) The Parties agree to utilize the process described within Section J, Appendix E "Performance Evaluation and Measurement Plan (PEMP) to evaluate the performance of the Laboratory. The Parties further agree that the evaluation process described in Appendix E will be reviewed annually and modified, if necessary, by agreement of the Parties. If agreement of the Parties cannot be reached, the Contracting Officer has the unilateral right to establish the evaluation process.
- (3) The Parties agree that the Contractor will conduct an ongoing self-assessment process as the principal means of determining its compliance with the Contract Statement of Work and performance indicators identified within Section J, Appendix E. To assist the DOE in accomplishing the appropriate level of oversight, the Contractor shall work in partnership and cooperation with DOE and other external organization, as appropriate, in the self-assessment process. This work includes, but is not limited to, the development and execution of self-assessments and the utilization of the results for continuous improvement.
- (4) The Contractor shall provide periodic updates, as requested by the DOE, on the performance against the Appendix E. The Contractor shall provide a formal status briefing at mid-year and year-end, and a formal self-evaluation report to the DOE at year-end. Specific due dates and formats for the abovementioned briefings and reports shall be agreed to by the Laboratory Director and the Manager, Pacific Northwest Site Office (PNSO). In addition, the year-end report must provide:
  - (i) an overall summary of performance for the performance period;
  - (ii) performance ratings for each PEMP element and the Laboratory overall; and
  - (iii) a summary of key strengths and opportunities for improvement.

(5) DOE, as a part of its responsibility for oversight, evaluation, and information exchange, shall provide an annual programmatic appraisal and other appraisals, and reviews of the Contractor's performance of authorized work in accordance with the terms and conditions of this Contract. The Office of Science, through the PNSO, has the lead responsibility for oversight of the programs and activities conducted by the Contractor.

- (6) The Contracting Officer shall annually provide a written assessment of the Laboratory's performance to the Contractor, which shall be based upon the process described in Appendix E. The Parties acknowledge that the performance levels achieved against the specific performance objectives and measures shall be the primary, but not sole, criteria for determining the Contractor's final performance evaluation and rating. The Contractor's selfassessment results, to include results of any third party reviews which may have been conducted during the evaluation period, will be considered at all levels to assess and evaluate the Contractor's performance. The Contracting Officer may also consider other relevant information not specifically measured by the objectives and measures established within Appendix E that is deemed to have an impact (either positive or negative) on the Contractor's performance. Other relevant information that may be used by the Contracting Officer may include, but is not limited to, information gained from peer reviews, operational awareness, outside agency reviews (i.e., OIG, GAO, DCAA, etc.) conducted throughout the year, annual reviews (if needed), and DOE "for cause" reviews. With exception of "for cause" reviews, the DOE Pacific Northwest Site Office will conduct no more than one management and operations review per year. The on-site portion of such reviews will normally last no more than two weeks. Contractor success in meeting or exceeding performance expectations in a particular management or operations functional area may be rewarded with less frequent – or no – review of the functional area. Conversely, marginal performance or "for cause" situations may result in more frequent reviews.
- (b) Standards of performance measure review
  - (1) The Parties agree to review the PEMP elements (goals, objectives, performance indicators, and expected levels of performance) contained in Appendix E annually and to modify them upon the agreement of the Parties; provided, however, that if the Parties cannot reach agreement on all the goals, objectives, performance indicators, and expected levels of performance for the next period, the Contracting Officer shall have the unilateral right to establish reasonable new goals, objectives, performance indicators and expected levels of performance and/or to modify and/or delete existing goals, objectives, performance indicators, and expected levels of that the goals, objectives, performance indicators, and expected levels of

Modification M412

performance will be modified by the Contractor and the DOE as new areas of emphasis or priorities emerge which the Parties may agree warrant recognition in the performance-based integrated management approach.

- (2) Failure to include an objective or performance indicator in the Contract Appendix E does not eliminate the Contractor's obligation to comply with all applicable terms and conditions as set forth elsewhere within the Contract.
- (3) In the event the Contracting Officer or HCA decides to exercise the rights set forth in paragraphs (a)(6) or (b)(1) above, he/she will notify the Contractor, in writing, of the intended decision ten days prior to issuance. (End of Clause)

# H-12 Notice Regarding the Purchase of American-Made Equipment and Products – Sense of Congress (AL-2003-03)

It is the sense of the Congress that, to the greatest extent practicable, all equipment and products purchased with funds made available under this award should be American-Made. (End of Notice)

#### H-13 Care Of Laboratory Animals

- (a) Before undertaking performance of any contract involving the use of Laboratory animals, the Contractor shall register with the Secretary of Agriculture of the United States in accordance with Section 6, Public Law 89-544, Laboratory Animal Welfare Act, August 24, 1966, as amended. The Contractor shall furnish evidence of such registration to the Contracting Officer.
- (b) The Contractor shall acquire animals used in research and development programs from a dealer licensed by the Secretary of Agriculture, or from exempted sources in accordance with the Public Laws enumerated in (a), above, of this provision.
- (c) In the care of any animals used or intended for use in the performance of this Contract, the Contractor shall comply with USDA regulations governing animal care and usage, as well as all other relevant local, State, and Federal regulations concerning animal care and usage. In addition the Contractor will ensure that research will be conducted in a facility that either: (i) has a current National Institutes of Health (NIH) assurance number for animal care and usage, or (ii) is currently accredited for animal care and usage by an appropriate organization such as the Association for Assessment and Accreditation of Laboratory Animal Care (AAALAC) International, or (iii) has a DOE Assurance Plan Number. (End of Clause)

Modification M412

### H-14 Laboratory Facilities

<u>Laboratory Facilities</u>. DOE agrees to continue to furnish and make available to the Contractor, for its possession and use in performing the work under this Contract, the Laboratory facilities designated as follows:

- (a) The Government-owned or leased land, buildings, utilities, equipment and other facilities situated at the Laboratory Site in Richland, Washington; and
- (b) Government-owned or leased facilities at such other locations as may be approved by DOE for use under this Contract.

DOE also reserves the right to make part of the designated land or facilities available to other Government agencies or other users on the basis that the responsibilities and undertakings of the Contractor will not be unreasonably interfered with. Before exercising its right to make any part of the land or facilities available to another agency or user, DOE will confer with the Contractor.

Subject to mutual agreement, other facilities may be used in the performance of the work under this Contract.

(End of Clause)

#### H-15 Privacy Act Records

In accordance with the Privacy Act of 1974, 5 U.S.C. 552a (Public Law 93-579) and implementing DOE regulations (10 CFR 1008), the Contractor shall maintain the following "Systems of Records" on individuals in order to accomplish the United States Department of Energy functions:

- (a) Intelligence Related Access Authorization (DOE-15)
- (b) Personnel Radiation Exposure Records (DOE-35)
- (c) Security Education and/or Infraction Reports (DOE-48)
- (d) Access Control Records of International Visits, Assignments, and Employment at DOE Facilities and Contractor Sites (DOE-52)
- (e) Counterintelligence Administrative and Analytical Records and Reports (DOE-81)
- (f) Counterintelligence Investigative Records (DOE-84)

Modification M412

The parenthetical DOE number designations for each system of records refer to the official "System of Records" number published by the DOE in the Federal Register pursuant to the Privacy Act.

(End of Clause)

#### H-16 Administration of Subcontracts

- (a) The administration of all subcontracts entered into and/or managed by the Contractor, including responsibility for payment hereunder, shall remain with the Contractor unless assigned at the direction of DOE.
- (b) The DOE reserves the right to direct the Contractor to assign to the DOE, or another Contractor, any subcontract awarded under this Contract.
- (c) The DOE reserves the right to identify specific work activities in Section C "Description/Specifications" to be removed (de-scoped) from the Contract in order to contract directly for the specific work activities. The Department will work with the Contractor to identify the areas of work that can be performed by small businesses in order to maximize direct federal contracts with small businesses. The Contractor agrees to facilitate these actions. This facilitation will include identifying direct contracting opportunities valued at \$5 million or above for small businesses for work presently performed under subcontracts, as well as work performed by Contractor employees. The Contractor shall notify the DOE one-year in advance of the expiration of any of its subcontracts valued at \$5 million or above, or if applicable, one-year prior to the exercise of an option and/or the option notification requirement, if any, contained in the subcontracts. The DOE will review this information and the requirements of the Contractor to determine the appropriateness for small business opportunities. This review may result in the DOE electing to enter into contracts directly with small businesses for these areas of work. The Contracting Officer will give notice to the Contractor not less than 120 calendar days prior to the date for exercising the option and/or the expiration of the subcontract and/or prior to entering into a contract for work being performed by Contractor employees. Following award of these direct federal contracts, DOE may assign administration of these contracts to the Contractor. The Contractor agrees to accept assignments from the DOE for the administration of these contracts. The parameters of the Contractor's responsibilities for the small business contracts and/or changes, if any, to this Contract, will be incorporated via a modification to the Contract. The Contractor will accept management and administration responsibilities, if so determined.
- (d) To the extent that DOE removes (de-scopes) work from this Contract, any such removed or withdrawn work shall be treated as a change in accordance with the clause of this Contract, titled Changes (Dec 2000). A "material change" for the purpose of this clause is defined as cumulative changes during a fiscal year that result

Modification M412

in a plus or minus 10% change to the Laboratory's budget. To the extent that DOE assigns the administration of a contract to the Contractor, or removes (de-scopes) work, the Parties reserve the right to negotiate an equitable adjustment in the Contractor's annual available performance fee. The negotiation of fee will be in accordance with the Contract clause entitled "Determining Total Available Performance Fee and Fee Earned". The Parties will also negotiate appropriate adjustments to the Contractor's Subcontracting Plan or any other applicable Contract terms and conditions impacted by such withdrawal or addition of work scope to recognize the changes to the Contractor's subcontracting base and goals.

(End of Clause)

### H-17 Long-Range Planning, Program Development and Budgetary Administration

- (a) <u>Basic Considerations</u>. Throughout the process of planning, and budget development and approval, the Parties recognize the desirability for close consultation, for advising each other of plans or developments on which subsequent action will be required, and for attempting to reach mutual understanding in advance of the time that action needs to be taken.
- (b) <u>Laboratory strategy</u>. It is the intent of the Parties to develop annually a Laboratory strategy that includes a compelling five (5) year vision for the Laboratory, mission/major program description, and a work plan that describes how the vision will be accomplished. Development of the Laboratory strategy is the strategic planning process by which the Parties through mutual consultation reach agreement on the general types and levels of activity which will be conducted at the Laboratory for the period covered by the strategy. The five (5) year vision for the Laboratory, mission/major program description, and work plan approved by DOE provides guidance to the Laboratory for long-range planning of programs, site and facility development, and for budget preparation. It also serves as a baseline for placement of work at the Laboratory.

# (c) Work Authorization

- (1) To carry out DOE's program of work, the Contractor will submit, in writing, to the DOE, work program documents covering work it believes it can and should pursue hereunder in the best interest of scientific progress.
- (2) Work programs shall be developed and approved in accordance with DOE's system for preparing, budgeting, and authorizing work, and shall constitute work to be performed under this Contract during the pertinent periods involved. Such work programs may include program and project performance objectives and milestones. Subject to the other provisions of this Contract, and except as the Parties may otherwise agree as part of an agreed work program for basic science, additions to, deletions from, and other changes in the agreed work program for basic science, within the general scope thereof and not constituting major changes in the agreed work program, may be made

Modification M412

by the Contractor as and when it appears to the Contractor to be in the best interest of scientific and technical objectives of the agreed work program to do so.

(End of Clause)

# H-18 Application of DOE Contractor Requirements Documents

- (a) <u>Performance</u>. The Contractor will perform the work of this Contract in accordance with each of the Contractor Requirements Documents (CRDs) appended to this Contract as "Appendix D," and "Appendix F" until such time as the Contracting Officer approves the substitution of an alternative procedure, standard, system of oversight, or assessment mechanism resulting from the process described below.
- (b) <u>Laws and Regulations Excepted</u>. The process described in this clause shall not affect the application of otherwise applicable laws and regulations of the United States, including regulations of the Department of Energy.
- (c) <u>Deviation Processes in Existing Orders.</u> This clause does not preclude the use of deviation processes provided for in existing DOE directives.
- (d) Proposal of Alternative. The Laboratory Director may, at any time during performance of this Contract, propose an alternative procedure, standard, system of oversight, or assessment mechanism to the requirements in a listed CRD by submitting to the Contracting Officer a signed proposal describing the nature and scope of the alternative procedure, standard, system of oversight, or assessment mechanism (alternative), the anticipated benefits, including any cost benefits, to be realized by the Contractor in performance under the Contract, and a schedule for implementation of the alternate. In addition, the Contractor shall include an assurance signed by the Laboratory Director that the revised alternative is an adequate and efficient means to meet the objectives underlying the CRD. Upon request, the Contractor shall promptly provide the Contracting Officer any additional information that will aid in evaluating the Contractor's proposal.
- (e) <u>Action of the Contracting Officer</u>. The Contracting Officer shall within sixty (60) days:
  - (1) deny application of the proposed alternative;
  - (2) approve the proposed alternative, with conditions or revisions;
  - (3) approve the proposed alternative; or
  - (4) provide a date by which a decision will be made (not to exceed an additional 60 days).

(f) Implementation and Evaluation of Performance. Upon approval in accordance with (e)(2) or (e)(3)above, the Contractor shall implement the alternative. In the case of a conditional approval under (e)(2) above, the Contractor shall provide the Contracting Officer with an assurance statement, signed by the Laboratory Director, that the revised alternative is an adequate and efficient means to meet the objectives underlying the CRD. Additionally, the statement shall describe any changes to the schedule for implementation. The Contractor shall then implement the revised alternative. DOE will evaluate performance of the approved alternative from the date scheduled by the Contractor for implementation.

- Application of Additional or Modified CRDs. During performance of the (g) Contract, the Contracting Officer may notify the Contractor that he or she intends to unilaterally add CRDs not then listed in Appendix D or Appendix F or modifications to listed CRDs. Upon receipt of that notice, the Contractor, within thirty (30) calendar days, may, in accordance with paragraph (d) of this clause, propose an alternative procedure, standard, system of oversight, or assessment mechanism. The resolution of such a proposal shall be in accordance with the process set out in paragraphs (e) and (f) of this clause. If an alternative proposal is not submitted by the Contractor within the thirty (30) calendar-day period, or, if made, is denied by the Contracting Officer under paragraph (e), the Contracting Officer may unilaterally add the CRD or modification to Appendix D or Appendix F. The Contractor and the Contracting Officer shall identify and, if appropriate, agree to any changes to other Contract terms and conditions, including cost and schedule, resulting from the addition of the CRD or modification.
- (h) <u>Deficiency and Remedial Action</u>. If, during performance of this Contract, the Contracting Officer determines that an alternative procedure, standard, system of oversight, or assessment mechanism adopted through the operation of this clause is not satisfactory, the Contracting Officer may, in his or her sole discretion, determine that corrective action is necessary and require the Contractor to prepare a corrective action plan for the Contracting Officer's approval. If the Contracting Officer is not satisfied with the corrective action taken, the Contracting Officer may direct corrective action to remedy the deficiency, including, if appropriate, the reinstatement of the CRD.

(End of Clause)

#### H-19 Cap on Liability

(a) The Parties have agreed that the Contractor's liability, for certain obligations it has assumed under this Contract, shall be limited as set forth in paragraph (b) below. These limitations or caps shall only apply to obligations the Contractor has assumed pursuant to the following:

- (1) The cost principle at DEAR 931.205-47 titled "Costs Related to Legal and Other Proceedings" [DOE coverage—paragraph (h), Costs Associated with Whistleblower Actions];
- (2) The clause titled "Property", paragraph (f)(1)(i)(C);
- (3) The clause titled "Insurance Litigation and Claims", (h), with respect to prudent business judgment only; and
- (4) The clause titled "Insurance Litigation and Claims", (j)(2), except for punitive damages resulting from the willful misconduct or lack of good faith on the part of the Contractor's managerial personnel as defined in the clause titled "Definitions".
- (b) The Contractor shall be liable for an amount not-to-exceed 1.25 times the maximum total available performance fee for each fiscal year. The amount of the Contractor's liability shall be calculated on a cumulative, per fiscal year basis. The annual cap which will apply shall be based on the fiscal year in which the Contractor's act or failure to act was the proximate cause of the liability assumed by the Contractor. In the event the Contractor's act or failure to act overlaps more than one fiscal year, the limitation will be the annual limitation for the last fiscal year in which the Contractor's act or failure to act occurred. If the Contractor's cumulative obligations equal the amount of the annual limitation of liability, the Contractor shall have no further responsibility for the costs of the liabilities it has assumed pursuant to (a)(1) though (4) above.

  (End of Clause)

# H-20 Performance Based Management and Oversight

- (a) Performance-based management shall be the key enabling mechanism for establishing the DOE-Contractor expectations on oversight and accountability. DOE expectations (outside of individual program performance and requirements of laws and regulations) and performance targets shall be established through the Performance Evaluation and Measurement Plan (PEMP) pursuant to the clause entitled "Standards of Contractor Performance Evaluation". This PEMP shall establish the expected strategic results in the areas of mission accomplishment, stewardship and operational excellence. Mission performance goals shall be established by agreement with each major customer of the Laboratory, and customer evaluation will be the primary means of evaluating mission performance. Stewardship and operational goals shall be established by agreement with DOE. Contractor self-assessment, third party certification, and Contractor and DOE independent oversight, as appropriate, shall be the primary means for assessing stewardship and operational performance. Routine DOE oversight of Contractor performance will be conducted at the systems level.
- (b) The performance-based management system shall be the primary vehicle for addressing issues associated with performance expectations. In the event of a

Modification M412

substantive performance shortfall in any area, the appropriate improvement expectations and targets will be incorporated into the PEMP and tracked through self-assessment and independent oversight, as appropriate.

(c) Compliance with applicable Federal, State and local laws and regulations, and permits and licenses, shall be primarily determined by the cognizant regulatory agency and DOE will primarily rely upon the determination of the external regulators in assessing Contract compliance. DOE oversight will be achieved through periodic assessments at the management system level, including review of Contractor self-assessments and assessments by independent third parties.

(End of Clause)

#### **H-21** Site and Occupational Health Services

#### (a) Site Services

The Contractor may submit to the Contracting Officer alternative proposals for obtaining services currently provided by other contractors as Shared Services. All proposals will reflect innovative cost-effective approaches whereby the Contractor will obtain services in a manner reflecting the best interests of the Government and the Contractor. The Contractor will consider contractual and regulatory constraints in all proposals. The Contractor must submit proposals under this clause to the Contracting Officer a minimum of 90 calendar days in advance of the proposed date for transitioning services.

The Contracting Officer shall accept, reject, or conditionally accept the proposal, in writing, within 90 calendar days of receipt. The Contracting Officer shall provide an explanation for any rejection.

# (b) Occupational Health Services

Occupational Health Services are provided primarily by the Hanford Onsite Medical provider.

- (i) The Contractor shall obtain for itself and, as directed by the Contracting Officer, shall require subcontractors performing work at the Richland Laboratory Campus to obtain the following services from the Onsite Medical provider unless an exception is granted, in writing, by the Contracting Officer: occupational medical evaluations including return to work and fitness for duty evaluations, pre-placement evaluations, work restriction reviews, medical surveillance evaluations, health care centers, case management for plant injuries, and medical records services.
- (ii) Other Occupational Health Services not specified within paragraph (b)(i) above, such as, but not limited to, a wellness program, voluntary health maintenance examinations, and immunization services, may be procured from other competent providers. As stipulated under paragraph (a) above

Modification M412

if the Contractor elects to utilize an outside medical provider for any of the these services, the Contractor must submit a proposal 90 calendar days in advance of a proposed date for transitioning services. The Contracting Officer shall accept, reject, or conditionally accept the proposal, in writing, within 90 calendar days of receipt as called for under paragraph (a) of this clause. Furthermore, should the Contractor elect to utilize an outside medical provider for health maintenance examinations, the Contractor shall ensure that full records of such examinations, including but not limited to, raw data, x-rays, blood and urine tests, and physician notes are provided to DOE for disposition in a Records Holding Area consistent with statutes and regulations pertaining to the retention of such records. Such services acquired by the Contractor must be in the most cost-effective manner for the Contractor and the Government and must be more cost-effective than the manner in which these services are provided by the Hanford Onsite Medical provider.

# (c) Cost-Efficiency Comparison Information

To facilitate the cost-efficiency comparisons required under paragraphs (a) and (b) above, DOE agrees to provide pricing information associated with services provided by other Hanford Site contractors to the fullest extent possible and at the highest level sufficient to perform such analysis. DOE will deliver the information to the Contractor within 30 days of the Contractor's request or such time period as agreed to by the Parties.

(End of Clause)

# H-22 Lobbying Restriction (Energy & Water Development Appropriations Act, 2003) (AL-2003-03)

The Contractor agrees that none of the funds obligated on this award shall be expended, directly or indirectly, to influence congressional action on any legislation or appropriation matters pending before Congress, other than to communicate to Members of Congress as described in 18 U.S.C. 1913. This restriction is in addition to those prescribed elsewhere in statute and regulation.

(End of Clause)

# H-23 Lobbying Restriction (Department of Interior and Related Agencies Appropriations Act, 2003) (AL-2003-03)

The Contractor agrees that none of the funds obligated on this award shall be made available for any activity or the publication or distribution of literature that in any way tends to promote public support or opposition to any legislative proposal on which Congressional action is not complete. This restriction is in addition to those prescribed elsewhere in statute and regulation.

(End of Clause)

Modification M412

### H-24 Determining Total Available Performance Fee and Fee Earned

In implementation of the clause in Section I entitled, "Total Available Fee: Base Fee Amount and Performance Fee Amount," the following shall apply:

- (a) There shall be no base fee for the period of this Contract. The Parties have agreed to a multi-year performance fee for the Contract period, to be 100% at risk, and determined as described below:
  - (1) During the period of Contract performance the total available performance fee for FY03 shall be \$7,300,000. For FY04 through FY07, the total available performance fee shall be \$7,800,000 per fiscal year.
  - (2) The Parties have agreed that in the event of a significant change (greater than plus or minus 10%) to the Laboratory's budget for any fiscal year, the negotiated fee shall be subject to adjustment. The Parties may renegotiate, in good faith, the total available performance fee pool. The FY 2003 Estimated Allowable Cost (Budget Authority) will serve as the base year to which each fiscal year Estimated Allowable Cost (Budget Authority) will be compared.
- (b) Determination of Total Available Fee Amount Earned.

The Government shall, at the conclusion of each specified evaluation period, evaluate and/or validate the Contractor's performance in accordance with the clause in Section I entitled "Total Available Fee: Base Fee Amount and Performance Fee Amount." The evaluation of the Contractor performance shall be in accordance with Section J, Appendix E "Performance Evaluation and Measurement Plan."

(End of Clause)

# H-25 Project Management System

The Contractor shall provide a Project Management System that delivers the policies, procedures, and tools that assist PNNL project managers in completing projects on time and within budget. The system will be applied to all projects using a graded approach based upon the nature, complexity, risk, size, and sensitivity of the work being performed. Attributes of the system will include the following:

- (a) Definition and organization of the work scope
- (b) Planning
- (c) Work authorization

Modification M412

- (d) Performance assessment
- (e) Change management
- (f) Closeout.

The Contractor shall conduct periodic self-assessments and independent reviews of the effectiveness of its Project Management System by comparing performance with industry standards and best practices.

The Contractor shall implement an Earned Value management system for capital projects exceeding \$20 million that is compliant with ANSI/EIA-748-1998. The Contractor shall certify to the Government that it has complied with the standard and provide a system description document with the certification. The Contractor shall be prepared to demonstrate compliance. The Contractor shall support a Government review and provide requested documentation to the Government in support of a review, if the Government determines a need for such a review.

For projects proposed to be funded by the Science Laboratory Infrastructure Program, the Contractor shall provide support to DOE as requested by the federal Project Manager.

(End of Clause)

# H-26 Advance Understandings on Allowable Costs

- (a) Allowable costs under this Contract shall be determined according to the requirements of DEAR 970.5232-2, Payments and Advances. For purposes of effective Contract implementation, certain items of cost are being specifically identified below as allowable and/or unallowable under this Contract to the extent indicated:
  - (1) Home office expenses are allowable to the extent that such expenses are allocated consistent with FAR 31.2 and Cost Accounting Standards.

    Because this is an M&O contract, a substantially reduced allocation of Home Office expense is calculated consistent with DEAR 970.3102-3-70 and CAS 403 Allocation of Home Office Expenses to Segments using the 3 factor formula for allocation of residual expenses as currently applied by the Contractor.
  - (2) Losses and expenses (including settlements made with the consent of the Contracting Officer) sustained by the Contractor in the performance of this Contract and certified in writing by the Contracting Officer to be reasonable are allowable, except the losses and expenses expressly made unallowable under other terms and conditions of this Contract.
  - (3) Stipends and payments made to reimburse travel or other expenses of researchers and students who are not employed under this Contract but are participating in research, educational or training activities under this

Modification M412

Contract are allowable to the extent such costs are incurred in connection with fellowship, international agreements, or other research, educational or training programs approved in writing by the Contracting Officer.

- (4) Payments to educational institutions for tuition and fees for researchers and students who are not employed under this Contract but are participating in research, educational or training activities under this Contract, or institutional allowances in connection with fellowship or other research, educational or training programs are allowable.
- (5) Costs incurred or expenditures made by the Contractor, as directed, approved, or ratified in writing by the Contracting Officer and not unallowable under any statute, regulation, or other provision of this Contract, are allowable.
- (6) In accordance with FAR 31.205-43, Meetings, Meals, and Refreshments (MMR) are allowable and/or unallowable as follows:

The costs of meeting rooms, meeting supplies and equipment rental, and, in very limited circumstances, meals for PNNL staff members and guests incidental to conducting business may be allowable on Contract work. Allowability of these costs is governed by the policy and practices described below.

#### **Allowable Cost**

Certain expenses associated with a business meeting are allowable on Contract work subject to the following general criteria. All costs incurred which do not conform to the criteria stated herein are unallowable. Meals and refreshment costs associated with all meetings that meet the definition of a "conference" under DOE Order 110.3 are unallowable.

#### General Criteria:

<u>Purpose</u> - The principal purpose of the meeting must be the dissemination of business, technical, or professional information necessary for the conduct of PNNL business or, performance of the Contract to support and further accomplishing the PNNL's mission (FAR 31.205.43).

<u>Reasonableness</u> - The cost must be considered reasonable in accordance with FAR 31 201-3

<u>Substantiation</u> - Documentation must be provided to Contractor management that substantiates the business purpose of the meeting,

Modification M412

justification for incurring the cost, and a detailed cost estimate or, if afterthe-fact, a statement of the costs incurred.

The following type of expenses may be allowable:

Meeting Room Rental - Rental of a conference room is allowable when justified by a bona fide business reason. DOE or Contractor-owned facilities and equipment shall be given first consideration. Prudence and common sense should govern the decision to secure an off-site location. An itemized receipt, showing a complete breakdown of all costs, must be provided.

Audiovisual equipment - Rental of equipment to aid with presentation at a meeting is an allowable expense. An itemized receipt, showing a complete breakdown of all costs, must be included with the expense report.

Meeting supplies - Meeting supplies such as flip charts, markers, and tape are allowable as a MMR expense.

Working Meals – Working meals shall only be provided when other options, such as breaking for lunch, have been thoughtfully considered and determined to be impracticable. Allowability of expenses for working meals and refreshments under this Contract is limited. Meal and refreshment cost must meet all of the following criteria, in addition to the general criteria above, to be allowable.

- i. The food must be incidental to the meeting and necessary in order to maintain the continuity of the meeting. Discussions or presentations must continue throughout the meeting period (e.g., no breaks for meals or refreshments). The food must be served at the meeting location (i.e., the meal must be served in the meeting room).
- ii. Attendance during the meal is mandatory for full participation in the meeting and/or maintenance of group cohesiveness. Attendees cannot breakaway from the meeting without missing essential discussions, lectures, or presentations.
- iii. Meetings must have non-Hanford guests in attendance (i.e., non-Hanford staff with whom Laboratory staff are conducting business). For the purposes of this definition, Hanford staff includes all PNSO, RL, ORP, and Hanford Contractor personnel.
- iv. Further, meetings:
  - (A) Must be at least four hours in length for refreshments to be allowable.
  - (B) Must be at least six hours or more for both a working meal and refreshments to be allowable.

- v. The average cost per attendee of a working meal is limited to 30% of the location's M&IE per diem rate; refreshments are limited to 15% of the M&IE per diem rate.
  - (A) Cost includes caterer's fee, tax, and gratuity.
  - (B) Refreshments are defined as coffee, tea, juices, soft drinks, pastries, cookies, and other similar items.
- vi. The following documentation must be provided to Contractor management to demonstrate the meeting meets the criteria:
  - (A) Detailed Agenda;
  - (B) Justification should address the following as a minimum:
    - I. The meal is incidental to and an integral part of the conference or meeting;
    - II. Attendance at the meal is necessary for full participation;
    - III. Attendees are not free to take meals elsewhere without missing essential formal discussions; and
    - IV. The meal is part of a formal conference or meeting that includes not only functions such as speeches or business carried on during a seated-meal, but also includes substantial functions taking place separate from the meal.
  - (C) List of attendees and their affiliation; and
  - (D) Total cost of meals and refreshments and the cost per person (estimated if advance approval is being requested).
- vii. Approval
  - (A) All expenses must be approved by the Line Manager;
  - (B) Additional approval must be obtained from the Travel Accounting Section of Business Support Services (verifying that the meeting meets the above criteria and the cost is reasonable); and
  - (C) Advance approval from Travel Accounting Manager is recommended. Advance approval allows a 10% tolerance in cost-per-person for fewer than planned attendees and "no-shows". Without advance approval there is no tolerance in the cost-per-person rate.

Reward and Recognition Event - Meals served at the PNNL Recognition & Rewards Program Annual Event to staff and guests as described in the approved Program Plan are allowable. The meals must be considered reasonable in accordance with FAR 31.201-3. Alcohol, entertainment, gifts, and decorations for this event are unallowable.

Employment Interview Meals - On occasion, an external employment candidate may be provided a meal as part of the interview activity. The meal expense for the candidate(s) is allowable for both on and off-site meals. To be allowable, the meal must be an integral and necessary part

Modification M412

of the interview process. If the candidate is internal, no meal costs are allowable. The cost of the interviewee's meal reduces the meal cost claimed by the candidate on travel status. For an interviewer in travel status, the meal cost is covered in the meals category of the Travel Expense Report.

Overtime meals - When called for by the bargaining unit contract, overtime meals are allowable for the bargaining unit staff, their supervisors, and other non-bargaining unit staff required to be present.

Meals Provided to Government Employees - If a meal is provided to a Government employee, the Government employee must be notified of the cost of the meal and a mechanism must be provided for he/she to pay for the meal. If the Government employee is on travel status, he/she may choose to have that day's meal per diem reduced in lieu of making the payment. The requirement for providing notification and a payment mechanism must be met regardless if the meal is allowable or unallowable.

Other Items/Events - Requests for approval of the allowability of other necessary and reasonable Meeting, Meal, and Refreshment costs not covered under this policy must be made to the PNNL CFO. After determining allowability of the request is appropriate, the Supervisor, Travel Accounting will submit the request to the DOE Contracting Officer for written approval.

#### Documentation:

- i. Business purpose and justification for the expenditure;
- ii. Detailed cost estimate:
- iii. Attendee list with affiliation (if applicable);
- iv. Supporting documentation from client (if available); and
- v. Line manager signature approval.

#### **Unallowable Cost**

Meeting, Meal, and Refreshment expenses not covered above are unallowable. Specific examples include:

- Meals provided to staff or guests away from the business meeting and/or conference location (e.g., breaking to have a meal at a restaurant);
- ii. A staff member's lunch with a DOE representative or another Government client or associate Contractor;
- iii. Meal expenses for interviews with current PNNL staff members;
- iv. Meal expenses for PNNL staff involved in interviewing potential PNNL employees;
- v. Meal costs for spouses of either party of an interview;

Modification M412

- vi. Alcoholic beverages under any circumstance;
- vii. Gifts;
- viii. Entertainment expenses;
- ix. Costs related to Protocol functions unless otherwise approved in writing in advance by the DOE Contracting Officer;
- x. The cost of in-home functions unless otherwise approved in writing in advance by the DOE Contracting Officer;
- xi. Holiday or staff Parties;
- xii. Rental of formal wear for functions attended; and
- xiii. Meals and refreshments associated with internal meetings are unallowable unless it involves situations that relate to imminent danger to human life or the destruction of Government property.
- (7) Appropriate charges are allowable in accordance with reimbursement policies mutually agreed upon in advance in writing by the Contracting Officer for the use of Battelle facilities and general purpose equipment and appropriate charges for the use of special purpose equipment when DOE-owned special purpose equipment in Contractor's custody is not available for such use. Definitions follow:

<u>Battelle facilities</u>: Battelle-owned or -leased general purpose facilities included in the Consolidated Laboratory. Such general purpose facilities are comprised of buildings, trailers, and structures that house research activities and necessary support functions, including those devoted to administration and general services. Buildings and structures include the building service equipment, such as that required for heat, power, ventilation, etc., that is carried in the property records as part of the value of the building or structure.

Special purpose equipment: Equipment used in the direct support of the technical aspects of research and development activities. It includes all personal workstations, all equipment in the custody of a research organization, and all client (OFA, DOE related service, non-1830 client) funded equipment. SPE excludes Laboratory infrastructure equipment (general purpose equipment). (Note: Long-standing DOE and Battelle agreements define computers in the possession of support organizations as special purpose equipment.)

General purpose equipment: Equipment that is administrative in nature (i.e., not research equipment), of a general use or institutional nature that benefits multiple cost objectives and is required for Laboratory-wide needs. It includes equipment used in support of landlord functions, including equipment that would normally be provided to a tenant. (Note: Long-standing DOE and Battelle agreements define computers in the possession of support organizations as special purpose equipment.)

(8) Imputed interest costs relating to leases classified and accounted for as capital leases under generally accepted accounting principles (GAAP) are allowable, provided that the decision to enter into a capital leasing arrangement has been specifically authorized and approved in writing by the DOE Contracting Officer in accordance with applicable procedures and such interest costs are recorded in an appropriately specified DOE account established for such purpose.

(End of Clause)

# H-27 Employee Concerns Program

- (a) The Contractor shall develop and maintain an employee concerns program (ECP) and plan to be reviewed and approved by DOE.
  - (1) Contractor and subcontractor personnel shall be informed of the availability of the ECP, their right to raise concerns relating to the environment, safety, health, or management of DOE-related activities through the Contractor or Departmental ECP programs and to do so without any fear of harassment or reprisal.
  - (2) The Contractor shall evaluate and attempt to resolve employee concerns in a manner that protects the health and safety of both employees and the public, ensure effective and efficient operation of programs, and use alternative dispute resolution techniques whenever appropriate.
  - (3) The Contractor shall conduct an annual self-assessment to measure the effectiveness of the ECP. Problems that hinder the ECP from achieving its objectives shall be corrected.
  - (4) The Contractor shall provide timely notification to the Department of any significant staff concerns or allegations of retaliation or harassment. The Contractor shall cooperate with any Departmental actions including requests for documentation or information involving employee concerns.
- (b) The Contractor currently has in place an ECP that meets these requirements. If the Contractor revises the ECP, a copy of the revised ECP shall be provided to DOE for approval.

(End of Clause)

# H-28 Greening the Government Through Federal Fleet and Transportation Efficiency

When performing motor vehicle fleet operations for the Department of Energy, the Contractor will conduct such operations in accordance with the requirements of Executive Order 13149 of April 21, 2000, Greening the Government Through Federal Fleet and Transportation Efficiency, including implementing guidance for the Department of Energy fleet. Such operations should include the use of environmentally

Modification M412

preferable motor vehicle products in the maintenance of these vehicles when such products are reasonably available, and meet manufacturers warranty requirement and applicable performance standards. Environmentally preferable motor vehicle products include re-refined motor vehicle lubricating oils, retread tires, and bio-based motor vehicle products.

(End of Clause)

# H-29 Conditional Payment of Fee or Profit--Safeguarding Restricted Data and Other Classified Information (66 Fed. Reg. 8560, Feb. 1, 2001)

(Note: DOE is currently finalizing a new Conditional Payment of Fee or Profit – Safeguarding Restricted Data and Other Classified Information clause through the rulemaking process. When the new clause comes into effect, the Contractor will have the option to retain the current clause or modify the Contract and adopt the new clause.)

#### (a) General.

- (1) The payment of fee or profit (i.e., award fee, fixed fee, and incentive fee or profit) under this Contract is dependent upon the Contractor's compliance with the terms and conditions of this Contract relating to the safeguarding of Restricted Data and other classified information (i.e., Formerly Restricted Data and National Security Information) including compliance with applicable laws, regulations, and DOE directives. The term "Contractor" as used in this clause to address failure to comply shall mean "Contractor or Contractor employee."
- (2) In addition to other remedies available to the Federal Government, if the Contractor fails to comply with the terms and conditions of this Contract relating to the safeguarding of Restricted Data and other classified information, the Contracting Officer may unilaterally reduce the amount of earned fee, fixed fee, or profit which is otherwise payable to the Contractor in accordance with the terms and conditions of this clause.
- (3) Any reduction in the amount of fee or profit earned by the Contractor will be determined by the severity of the Contractor's failure to comply with Contract terms and conditions relating to the safeguarding of Restricted Data or other classified information pursuant to the degrees specified in paragraph (c) of this clause.
- (4) Any reduction in the amount of fee or profit earned by the Contractor relating to the safeguarding of Restricted Data or other classified information will be determined under this clause and not under the clause in this Contract entitled "Conditional Payment of Fee, Profit or Incentives"

#### (b) Reduction Amount.

(1) If it is found that the Contractor has failed to comply with Contract terms

Modification M412

and conditions relating to the safeguarding of Restricted Data or other classified information, the Contractor's earned or fixed fee, or profit may be reduced. Such reduction shall not be less than 51% nor greater than 100% of the total fee or profit earned for a first degree performance failure, not less than 26% nor greater than 50% for a second degree performance failure, and up to 25% for a third degree performance failure. The Contracting Officer may consider mitigating factors that may warrant a reduction below the specified range, including a determination that no reduction should be made (see 48 CFR 904.402(c), 66 Fed. Reg. 8562).

- (2) (i) For purposes of this clause, the Contracting Officer will at the time of Contract award allocate the total amount of fee or profit that is available under this Contract to equal periods of 12 months to run sequentially for the entire term of the Contract (i.e., from the effective date of the Contract to the expiration date of the Contract, including all options). The amount of fee or profit to be allocated to each period shall be equal to the average monthly fee or profit that is available or otherwise payable during the entire term of the Contract, multiplied by the number of months established above for each period.
  - (ii) The total amount of fee or profit that is subject to reduction under this clause, in combination with any reduction made under any other clause in the Contract that provides for a reduction to the fee or profit, shall not exceed the amount of fee or profit that is earned by the Contractor in the period established pursuant to paragraph (b)(2)(i) of this clause in which a performance failure warranting a reduction occurs.
- (c) Safeguarding Restricted Data and Other Classified Information. The degrees of performance failures relating to the Contractor's obligations under this Contract for safeguarding of Restricted Data and other classified information are as follows:
  - (1) First Degree: Performance failures that have been determined, in accordance with applicable DOE regulation or directive, to have resulted in, or that can reasonably be expected to result in, exceptionally grave damage to the national security. The following performance failures or performance failures of similar import will be considered first degree:
    - (i) Non-compliance with applicable laws, regulations, and DOE directives actually resulting in, or creating a risk of, loss, compromise, or unauthorized disclosure of Restricted Data or other classified information classified as Top Secret.
    - (ii) Contractor actions that result in a breakdown of the safeguards and security management system that can reasonably be expected to result in the loss, compromise, or unauthorized disclosure of

Restricted Data, or other classified information which is classified as Top Secret.

- (iii) Failure to implement corrective actions stemming from the loss, compromise, or unauthorized disclosure of Restricted Data or other classified information classified as Top Secret.
- (2) Second Degree: Performance failures that have been determined, in accordance with applicable DOE regulation or directive, to have actually resulted in, or that can reasonably be expected to result in, serious damage to the national security. The following performance failures or performance failures of similar import will be considered second degree:
  - (i) Non-compliance with applicable laws, regulations, and DOE directives actually resulting in, or creating risk of, loss, compromise, or unauthorized disclosure of Restricted Data or other classified information which is classified as Secret.
  - (ii) Contractor actions that result in a breakdown of the safeguards and security management system that can reasonably be expected to result in the loss, compromise, or unauthorized disclosure of Restricted Data, or other classified information which is classified as Secret.
  - (iii) Failure to promptly report the loss, compromise, or unauthorized disclosure of Restricted Data or other classified information regardless of classification.
  - (iv) Failure to implement corrective actions stemming from the loss, compromise, or unauthorized disclosure of Restricted Data or other classified information classified as Secret.
- (3) Third Degree: Performance failures that have been determined, in accordance with applicable DOE regulation or directive, to have actually resulted in, or that can reasonably be expected to result in, undue risk to the common defense and security. In addition, this category includes performance failures that result from a lack of Contractor management and/or employee attention to the proper safeguarding of Restricted Data and other classified information. These performance failures may be indicators of future, more severe performance failures and/or conditions, and if identified and corrected early would prevent serious incidents. The following performance failures or performance failures of similar import will be considered third degree:
  - (i) Non-compliance with applicable laws, regulations, and DOE directives actually resulting in, or creating risk of, loss,

compromise, or unauthorized disclosure of Restricted Data or other classified information which is classified as Confidential.

- (ii) Failure to promptly report alleged or suspected violations of laws, regulations, or directives pertaining to the safeguarding of Restricted Data or other classified information.
- (iii) Failure to identify or execute corrective actions to mitigate or eliminate identified vulnerabilities and reduce residual risk relating to the protection of Restricted Data or other classified information in accordance with the Contractor's Safeguards and Security Plan or other security plan, as applicable.
- (iv) Contractor actions that result in performance failures which unto themselves pose minor risk, but when viewed in the aggregate indicate degradation in the integrity of the Contractor's safeguards and security management system relating to the protection of Restricted Data and other classified information.

  (End of Clause)

### H-30 Contractor Compensation, Benefits and Pension

- (a) The Contractor shall develop, implement and maintain formal policies, practices and procedures to be used in the administration of its compensation system including a compensation system self-assessment plan consistent with 48 CFR 31.205-6, "Compensation for personal services." The Contractor's compensation system and methods shall be fully documented, consistently applied, and acceptable to DOE in accordance with 48 CFR 31.205-6 as supplemented by DEAR 970.3102-05-6. Costs incurred under a compensation program will generally be deemed reasonable if they are in accordance with the program accepted by the Contracting Officer, consistent with applicable cost principles, and conform to Contracting Officer approved applicable industry benchmarks. Further advance understandings on allowable costs are detailed in the attached Appendix A of this Contract.
- (b) The Contractor shall submit the following to the Contracting Officer for a determination of cost reimbursement under the Contract:
  - (1) A description of the compensation program supported by the relevant data comparing it to other industry or relevant benchmark programs.
  - (2) Compensation System self-assessment and compensation system existing baseline package for DOE validation.

- (3) Proposed compensation design changes that increase cost must be approved by the Contracting Officer prior to implementation.
- (4) Annual Compensation Increase Plan (CIP).
- (5) Individual compensation actions, as required in the Contract including initial and proposed changes to base salary and or payments under an Executive Incentive Compensation Plan submitted on the Application for Contractor Compensation Approval, DOE F 3220.5.
- (6) Any proposed establishment of an incentive compensation plan.
- (c) The Contractor shall provide the Contracting Officer with the following reports:
  - (1) Annual Contractor Salary-Wage Increase Expenditure Report to include, at a minimum, breakouts for merit, promotion, variable pay, special adjustments, and structure movements for each pay structure showing actual against approved amounts.
  - (2) At the time of Contract award and upon any change thereafter, a list of the top five most highly compensated executives and their salaries.
  - (3) Annual Report of Contractor Expenditures for Employee Supplemental Compensation through the Department Workforce Information System (WFIS), compensation and benefits module.

## Part I - Benefit Programs

The Contractor shall implement an employee benefits program that supports at a reasonable cost the effective recruitment and retention of highly skilled workforce at the Department facility. No presumption of allowability will exist when the Contractor implements changes to its existing employee benefits program until the Contracting Officer makes a determination of cost reimbursement for reasonable changes to the program.

- (a) Submit to the Contracting Officer for a determination of cost reimbursement a periodic evaluation of the Contractors Employee Benefits Program based on two professionally recognized performance measures:
  - (1) An Employee Benefits Value Study (ben-val) Measure every two years which is an actuarial study of the relative value (RV) of the benefits programs offered by the Contractor measured against the RV of benefit programs offered by comparator companies approved by the Contracting Officer. To the extent that the value study does not address post-retirement benefits (PRB) other than pension, the Contractor shall provide

separate PRB cost and plan design data comparison with external benchmarks for nationally recognized and Contracting Officer approved survey sources.

- (2) An Employee Benefits Cost Survey Comparison (cost survey) Method every year that analyzes the Contractor's employee benefits cost on a per capita basis per full time equivalent employee and compares it with the cost reported by the U.S. Chamber of Commerce (CoC) Annual Employee Benefits Cost Survey or other Contracting Officer approved broad based national survey.
- (b) When net benefit value and/or per capita cost exceed the comparator group by more than 5 percent, submit corrective action plans to achieve a net benefit value and per capita cost not to exceed the comparator group by more than 5 percent.
- (c) When required by the Contracting Officer submit an analysis of the specific plan costs that are above the per capita cost range and a corrective action plan to achieve conformance with a Contracting Officer directed per capita cost range.
- (d) Implement corrective action plans determined to be reimbursable by the Contracting Officer to align employee benefit programs with the target in paragraph (b) of this Part I.
- (e) Post Retirement Life, Medical and Other Benefit Obligations Upon Contract Termination. Employer costs for retiree medical benefits will be prorated based only on service under this Contract.
  - (1) Subject to the availability of appropriated funds obligated to this Contract, if the Contract terminates, the Department of Energy will make available to the Contractor in a timely manner sufficient funds so that the Contractor has no out-of-pocket expenditures from corporate funds to cover all liabilities incurred under this Contract related to Contracting Officer-approved employee welfare benefit plans (including but not limited to medical, life, and workers' compensation). If so requested by the DOE at the time of Contract termination or expiration, the Contractor will continue as the sponsor of these plans until all liabilities of such plans are discharged.
  - (2) If the Contract terminates, the Department of Energy may make use of a third party such as an insurer to guarantee benefit payments.

#### Part II – Leave of Absence Without Pay

An employee may be granted a leave of absence without pay for up to three years by the Contractor provided the absence will not interfere with the Contractor's operations or create any conflict of interest. Continuation of benefits during leave of absence without

Modification M412

pay will be administered according to the Contractor's leave of absence policy and any applicable Plan amendments as subject to ERISA.

(a) Granting of company service for a period of leave and restoration of vacation eligibility immediately upon return to work may be provided for employees who return to work from leaves including, but not limited to:

- (1) Leaves granted when it is in the Government's interest to make an employee's expertise or services available to DOE, another DOE Contractor, another government agency (e.g. Department of Homeland Security, Department Of Defense, Centers for Disease Control, or National Aeronautics and Space Administration), colleges or universities, or other work-related activities such as the International Atomic Energy Agency.
- (2) Entrepreneurial leave granted to accelerate technology start up based on DOE developed technologies.
- (b) Continuation of company service credit and/or immediate restoration of vacation upon return to work for any leave without pay other than those listed above require DOE approval if the leave exceeds 180 days.
- (c) The Contractor shall submit an annual report to the Contracting Officer identifying all employees on leave of absence without pay under this provision, the organization they are supporting, the location of assignment and length of leave of absence.

#### Part III Group Pension Plans

Staff members of the Contractor's Pacific Northwest National Laboratories (PNNL) assigned to or performing work under the Contract may participate in the Contractor's Group Pension Plans (the Plans) applicable to PNNL in accordance with the terms of the Plans. The Group Pension Plans are trusteed plans described in items (a) and (b) below and with respect to the Plans, the Contractor and DOE agree as follows:

- (a) "Pension Plan of Pacific Northwest Laboratories, Battelle Memorial Institute," [PNNL Plan] (applicable to non-bargaining unit employees) effective July 1, 1987, and as the foregoing PNNL Plan may be amended from time to time by the Contractor's Board of Trustees; and as determined to be reimbursable by the DOE Contracting Officer.
- (b) "Hanford Contractors Multi Employer Defined Benefit Pension Plan for HAMTC Represented Employees," [HAMTC Plan] (applicable to bargaining unit employees) effective April 1, 1987; and, as the foregoing HAMTC Plan may be amended from time to time by the Plan Administrator in cooperation with the

Administrative Committee; as determined to be reimbursable by the DOE Contracting Officer.

- (c) The PNNL Plan and disposition, payment and transfer of Plan assets shall satisfy the requirements of the Employee Retirement Income Security Act (ERISA), the Internal Revenue Service (IRS), and the Department of Labor and any other applicable Federal statutes and regulations.
- (d) All costs related to the PNNL Plan required to meet the requirements of this Article including administrative costs incurred by the Contractor and applicable to the work under the Contract and employer contributions related to work performed under this Contract will be allowable costs. To the extent practicable all non-settler administrative costs shall be charged to the pension plan rather than to the operating budget to the maximum extent permitted by Department of Labor regulations. The employer contributions will be allowable at rates determined for PNNL based on actuarial valuations performed by the actuary appointed by Battelle, using the entry age normal cost method of funding.
- (e) The Contractor will provide DOE with annual actuarial valuation reports and IRS Form 5500 Reports. These reports shall contain information regarding PNNL Plan assets and liabilities. Said information shall be based on the valuation assumptions and calculation methods which are then in use for the PNNL Plan. The actuarial valuation reports shall be provided to DOE within thirty (30) days after preparation or nine (9) months following the opening of a plan year for which funding requirements are calculated, whichever is earlier.
- (f) Unless otherwise agreed, the Contractor will obtain an actuarial valuation of the PNNL Plan as of the effective date of Contract termination or expiration. The cost of such valuation will be allocated in accordance with then current procedures for allocating actuarial valuation costs.
- (g) Procedures for Annual Accounting of Employer Pension Contributions for PNNL Plan
  - (1) For each plan year, the Contractor will provide to DOE an accounting of assets associated with employer pension contributions with respect to the Contract work of PNNL and the Non-Contract work of PNNL as follows:
    - (i) accrual basis market value of such associated assets at the beginning of the PNNL Plan year;
    - (ii) the dollar amount of employer pension contributions made during the plan year allocated, on the basis of the cost of non-bargaining direct staff labor during such year, to the Contract work and the Non-Contract work;

- (iii) the dollar amount of investment income on such associated assets based on the yield rate determined on the dollar-weighted market value basis as shown in actuarial reports of the Plan;
- (iv) the dollar amount of related benefits and/or assets disbursed to terminated and retired PNNL staff members and beneficiaries; such related benefits and/or assets will be allocated on the basis of the historical relationship of non-bargaining direct staff labor to the Contract work of PNNL staff members and the other work of PNNL staff members; and
- (v) accrual basis market value of associated assets at the end of the plan year [(i) + (ii) + (iii) (iv) = (v)].
- The first accounting under this PNNL Plan shall be as of June 30, 1987, and shall reflect the removal of those assets and liabilities transferred to the HAMTC Plan effective April 1, 1987, from total PNNL pension assets accounted for in previous reports covering the periods from January 1, 1965 on. For the Plan year ending June 30, 1987, and annually thereafter, the Contractor will provide to DOE an accounting of assets as described in Part III, paragraph (g)(1) above. Such reports shall be provided to DOE within thirty (30) days after preparation but no more than nine (9) months following the opening of the plan year for which funding requirements are calculated. The final accounting period shall end with the effective date of Contract termination.
- (h) References to termination of the Contract in this Article are intended to cover the circumstances created when the contractual relationship between DOE and the Contractor is terminated in whole or in part by formal action of DOE in accordance with the Clause of the Contract entitled "Termination". It is not intended that the provisions of this Article pertaining to Contract termination be implemented in cases when reduced funding levels or cessation of individual projects or programs require work force reductions but do not affect the continuing contractual relationship under the Contract.
- (i) Procedures for Determination of Contract Service Pension Assets and Liabilities Upon Contract Termination.
  - (1) <u>Contract Service Assets</u>. Contract Service Assets shall include all assets attributable to employer contributions with respect to the Contract work of PNNL, as determined in this Part III, paragraphs (g)(1) and (g)(2) above. Such assets shall also include applicable employer contributions due the fund but not paid as of the effective date of termination.
  - (2) <u>Non-Contract Service Assets</u>. Non-Contract Service Assets shall include all assets attributable to employer contributions with respect to the Non-

Modification M412

Contract work of PNNL as determined in this Part III, paragraphs (g)(1) and (g)(2) above. Such assets shall also include applicable employer contributions due the fund but not paid as of the effective date of termination.

(3) <u>Liabilities for Present and Future Benefits</u>

Modification M412

### (i) Pensioners, Beneficiaries, and Terminated Vested Members

The liability for benefits for PNNL pensioners, beneficiaries, and terminated vested members who separated prior to the date of Contract termination and whose separation was not directly caused by such termination, shall be equal to the present value of such benefits as of the effective date of termination of the Contract. Such present value shall be calculated using GATT rates for interest and mortality as appropriate for the PNNL Plan, consistent with the then current actuarial valuation, or as mutually agreeable to the DOE and the Contractor based on circumstances at the time.

## (ii) Active Participants Retained by Battelle

For the active participants retained by Battelle, the past service liability shall be calculated as of the effective date of Contract termination using the PNNL Plan actuarial assumptions, actuarial cost method, and benefits as then in effect. The calculations shall be completed in a manner comparable to those for an ongoing plan.

# (iii) Active Participants Not Retained by Battelle in the Event There Is No Successor Pension Plan

If there is no successor pension plan, liabilities for vested accrued benefits of PNNL Participants whose active membership is terminated as a result of Contract termination, including benefits becoming vested by reason of such termination under applicable PNNL Plan provisions, law and/or IRS regulations, shall be equal to the present value of such vested benefits calculated using the GATT rates for interest and mortality, as appropriate for the PNNL Plan consistent with the then current actuarial valuation, or as mutually agreeable to the DOE and the Contractor based on circumstances at the time.

# (iv) Active Participants Not Retained by Battelle in the Event There is a Successor Pension Plan

For the Participants covered by a successor pension plan, the past service liability shall be calculated as of the effective date of Contract termination using the Plan actuarial assumptions, actuarial cost method, and benefits as then in effect. The calculations shall be completed in a manner comparable to those for an ongoing pension plan.

(j) <u>Disposition of Contract Service Assets and Liabilities</u>

(1) The liabilities and Contract Service Assets associated with such liabilities for pensioners, beneficiaries, and terminated vested members as described in this Part III, paragraph (i)(3)(i) shall be retained by Battelle and shall include an amount actuarially determined to cover reasonable administrative service costs provided, however, that if requested by DOE to do so, Battelle shall solicit proposals from at least three insurance carriers for a single premium purchase non-participating contract for assumption of liabilities for such participants. The award shall be based on mutual agreement between the DOE and the Contractor, and shall be consistent with fiduciary standards related to such transactions. In such case, retained assets shall equal the cost of such insurance contracts.

- (2) The remainder of Contract Service Assets, after the retention described in this Part III, paragraph (j)(1) above, shall be divided into two parts as follows:
  - (i) One part equals such remainder of Contract Service Assets multiplied by the ratio R / (R+S) where:

R = past service liability for active Participants retained by Battelle calculated as described in this Part III, paragraph (i)(3)(ii). And

S = past service liability for active Participants not retained by Battelle calculated as described in this Part III, Paragraph (i)(3)(iv).

This part of Contract Service Assets will be retained by Battelle.

- (ii) The other part of Contract Service Assets equals the total of Contract Service Assets less the amount retained by Battelle under Part III, paragraph (j)(1) and paragraph (j)(2)(i) above.
  - (A) If there is a successor plan, then this part shall be transferred to, and associated liabilities calculated in accordance with this Part III, paragraph (i)(3)(iv) shall be assumed by, the successor plan.
  - (B) If there is no successor plan, then
    - 1. this part and associated liabilities calculated in accordance with this Part III, paragraph (i)(3)(iii) will be retained by Battelle;

2. if such assets exceed the associated liabilities (including the option of purchasing annuities to cover the liabilities) and the PNNL Plan terminates, Battelle will pay to DOE from Plan assets any excess amount remaining after plan termination costs, penalties, and taxes resulting from such termination of the Plan; and

3. if Plan assets remaining after the costs, penalties and taxes resulting from termination of the Plan are not sufficient to cover the liabilities in accordance with this Part III, paragraph (i)(3)(iii) then DOE will pay to Battelle the deficiency; provided, however, payment by DOE shall be subject to the availability of appropriated funds which may be used for such purposes.

## (C) If there is no successor plan, then

- 1. this part and associated liabilities calculated in accordance with this Part III, paragraph (i)(3)(iii) will be retained by Battelle; and
- 2. if the PNNL Plan does not terminate, then DOE and Battelle shall meet to determine an equitable disposition of the PNNL Plan.

## (k) <u>Disposition of Non-Contract Service Assets and Liabilities</u>

- (1) The liabilities and Non-Contract Service Assets associated with such liabilities for pensioners, beneficiaries and terminated vested members as described in this Part III, paragraph (i)(3)(i) shall be retained by Battelle.
- (2) The remainder of Non-Contract Service Assets, after the retention described in paragraph (k)(1) above, shall be divided into two parts as follows:
  - (i) One part equals such Non-Contract Service Assets multiplied by the ratio T / (T+W) where:

T = past service liability for active Participants retained by Battelle calculated as described in paragraph (i)(3)(ii); and

W = past service liability for active Participants not retained by Battelle calculated as described in paragraph (i)(3)(iv).

This part of Non-Contract Service Assets will be retained by Battelle.

- (ii) The other part of Non-Contract Service Assets equals the total of Non-Contract Service Assets less the amount retained by Battelle under paragraph (k)(1) and paragraph (k)(2)(i) above.
  - (A) If there is a successor plan, then this part shall be transferred to, and associated liabilities calculated in accordance with paragraph (i)(3)(iv) shall be assumed by, the successor plan.
  - (B) If there is no successor plan, then this part and associated liabilities calculated in accordance with paragraph (i)(3)(iii) will be retained by Battelle. Any excess or shortage of Non-Contract Service Assets in relation to such liabilities will be retained or absorbed by Battelle.

## (l) <u>Financial Adjustments</u>

- (1) If within six (6) months after the termination of the Contract, a retained staff member of Battelle is transferred to the successor contractor, or a transferred staff member is returned to Battelle, adjustments will be made to Contract and Non-Contract Service Assets as if the transfer had been effective on the date of Contract termination, and appropriate payments or transfers of assets will be made.
- (2) If at the end of twenty-four (24) months following Contract termination, the terminations of retained staff members during this period exceed the numbers expected in the actuarial assumptions of the Plan at Contract termination, liabilities for vested benefits of the excess terminated staff members will be calculated as the present value of benefits as of the date the staff member terminated; such present value shall be calculated using the GATT rates for interest and mortality, as appropriate for the PNNL Plan consistent with the then current actuarial valuation, or as mutually agreeable to the DOE and the Contractor based on circumstances at the time. This value will be substituted for the value previously established for the retained staff members; adjustments will be made to Contract and Non-Contract Assets; and appropriate payments or transfers of assets will be made.
- (3) The procedures outlined above in paragraph (1)(2) shall also be applied to all staff members who transfer to a successor contractor; adjustments shall be made as above and appropriate payments will be made.

### (m) Payments and Transfers of Assets

(1) Payments by either party for excesses or shortages of Contract Service Assets as described in paragraph (j)(2)(ii) shall be in U.S. currency and completed within thirty-six (36) months of the effective date of Contract termination or such longer period as may be mutually agreed upon. Both parties shall have the option of making payments in one lump sum or in any series of installments at a rate of return mutually agreeable to the parties.

- (2) If transfers of Plan assets are made to a successor plan as described in paragraph (j)(2)(ii) and paragraph (k)(2)(ii) in the form of investment holdings, such holdings shall include cash, equity securities, and fixed income securities. Such assets shall be allocated on a pro rata basis, with the prorating for fixed income assets based on rating and sector classification. Transfers shall include interest earnings on applicable assets from the effective date of termination to the date of transfer as calculated in paragraph (m)(1) above.
- (3) Battelle will transfer Plan assets at a rate at least sufficient to meet the cash flow requirements of transferred staff members who go into benefit status after the effective date of Contract termination.
- (n) The Contractor will take no unilateral action concerning the termination, merger, spin-off, or other action affecting the status of the Plan as covering only Non-Bargaining employees of the Pacific Northwest National Laboratory without the approval of the DOE. In the event of a Plan termination, the costs and disposition of Plan assets and liabilities shall be as set out in paragraphs (i) and (j) above, or as mutually agreeable to the DOE and the Contractor based on circumstances at the time.
- (o) With respect to the Multi-Employer Pension Plan for HAMTC Represented Employees (Part III, paragraph (b) above), the Contractor and DOE agree that effective April 1, 1987, pursuant to a collective bargaining agreement, the Contractor became a participating employer in the Hanford Contractor Multi-Employer Pension Plan for HAMTC Represented Employees. All assets and liabilities of the "Employees Retirement Plan of Battelle Memorial Institute" were transferred to and merged with the said Multi-Employer Plan.
- (p) Costs incurred by the Contractor for contributions required by the HAMTC Plan are allowable to the extent applicable to the work under the Contract.
- (q) The HAMTC Plan fund, not the Contractor, shall be liable for costs incurred in the course of administration (actuary fees, reports, and similar expenses); provided, however, that costs for employee communications, sign up and termination, payroll, and similar expenses are allowable as normal operating

expenses to the extent applicable to work under the Contract.

(r) Upon expiration or termination of the Contract, all liability of the Contractor with respect to the HAMTC Plan shall cease. The Contractor shall have no claim to any HAMTC Plan assets in excess of HAMTC Plan liabilities, nor shall the Contractor be required to fund any excess of HAMTC Plan liabilities over HAMTC Plan assets. DOE agrees that all costs, including cost of defense, from any withdrawal liability arising under federal law by reason of the Contractor's withdrawal from the Multi-Employer Plan shall be an allowable cost under the Contract subject to the provisions of paragraph (j) of the clause entitled "Payments and Advances".

- (s) The Contractor will take no action concerning the termination, merger, spin-off, or other action affecting the status of the plan as covering only Bargaining Unit employees of the Pacific Northwest National Laboratory.
- (t) With respect to all Plans, unless otherwise required by federal law or resulting from the collective bargaining process, no amendment to any of the Plans shall result in allowable costs under this Contract if the adoption date of such amendment is later than 12 months before the termination or expiration date of the Contract and the termination or expiration of the Contract is due to the act or failure to act of the Contractor, or the failure of the Contractor to bargain in good faith with the government for an extension of the Contract.
- (u) The aggregate annual contribution to any Plan shall range from the minimum specified by Internal Revenue Code (IRC) Section 412(b) to the amount necessary to fully fund the year end expected current liability. However, the aggregate annual contribution to a Plan shall be no less than the minimum specified by IRC Section 412(b) nor greater than the tax-deductible limit specified by IRC Section 404.

#### Part IV - Group Savings Plans

The Contractor maintains or is a participating employer in savings plans for eligible non-bargaining employees. In addition, the Contractor is a participating employer in a multi-employer plan for bargaining unit employees. The savings plans are trusteed plans described in the following two documents entitled "Battelle Employees' Savings Plan", and "Hanford Contractors Multi-Employer Savings Plan for HAMTC Represented Employees". The plans must be established and maintained as qualified defined contribution plans under the regulations of the Internal Revenue Service. The Plan and Trust documents and any amendments thereto which effect substantive changes or increase costs are subject to the approval of the Contracting Officer. With respect to the Plans, the parties agree as follows:

(a) Costs of employer matching contributions incurred and accrued under the terms of the Plans are allowable to the extent applicable to Contract work. To the extent permitted by law or regulation, the Plans funds, not the Contractor, shall be liable

for the costs of administration.

- (b) The Contractor will provide the Contracting Officer with annual accounting reports within eight months after the close of a Plan year. A copy of IRS Form 5500, together with any supplemental or supporting documents submitted therewith, will be provided to DOE each year when prepared by the Contractor, which may be provided in lieu of the accounting report required by this provision.
- (c) Employee forfeitures of accrued benefits shall be in accordance with the terms of the Plans and such forfeitures shall be used to reduce Contractor contributions made on behalf of remaining participating employees.
- (d) In the event of Contract expiration or termination, the Contractor, if requested by DOE to do so, will transfer assets and liabilities to a replacement contractor's plan.
- (e) In the event of Plan terminations, vest immediately one hundred percent in the Plan participants' individual accounts.
- (f) Upon expiration or termination of the Contract, all liability of the Contractor with respect to the Hanford Contractors Multi-Employer Savings Plan for HAMTC Represented Employees shall cease. DOE agrees that all costs, including cost of defense from any withdrawal liability arising under federal law by reason of the Contractor's withdrawal from the Multi-Employer Plan shall be an allowable cost under the Contract, subject to the provisions of paragraph (j) of the clause entitled "Payments and Advances".
- (g) The Contractor will take no action concerning termination, merger, spin-off, or other action affecting the status of the Plans without the approval of the DOE.

  (End of Clause)

# H-31 Determining Total Available Mission Stretch Goal(s) Incentive Fee and Fee Earned

(a) Mission Stretch Goal(s) Fee

In addition to the yearly performance fee available in accordance with the special clause entitled "Determining Total Available Performance Fee and Fee Earned," the Contractor may earn additional "Mission Stretch Goal(s)" incentive fee based on the successful completion of the Mission Stretch Goal(s) identified within Section J, Appendix H of the this Contract. The Parties have agreed that a total available Mission Stretch Goal(s) incentive fee of \$3,000,000 shall be available for the Contract period and is to be 100% at risk.

(b) Determination of Total Available Mission Stretch Goal(s) Incentive Fee Amount Earned.

The Government shall, at the conclusion of the specified Mission Stretch Goal(s) evaluation period or other timeframe as may be agreed upon between the Parties, evaluate and/or validate the Contractor's performance in accordance with the clause in Section I entitled "Total Available Fee: Base Fee Amount and Performance Fee Amount." The evaluation of the Contractor Mission Stretch Goal(s) and amount of Mission Stretch Goal(s) incentive fee earned shall be in accordance with Section J, Appendix H, "Mission Stretch Goal(s) Performance Evaluation and Measurement Plan."

(c) Nothing in this clause shall diminish or remove any rights afforded the Government regarding Contract termination as may be set forth elsewhere within this Contract. In the event of such termination, whether for the convenience of the Government or default by the Contractor, the Contractor shall be entitled to any Mission Stretch Goal(s) Incentive Fee Amount provisionally earned, as determined by the Government.

(End of Clause)

### H-32 Other Advance Understandings

- (a) To facilitate continuity of performance and Contract administration, all agreements, memorandums of understanding, and contractual assumptions which have been appropriately agreed to in writing by both Parties prior to this Contract extension will continue in effect according to the terms thereof unless they have been superceded or, if they are in conflict with any other terms and conditions of this Contract extension.
- (b) For purposes of the clause in this Contract titled "Access to and Ownership of Records, it is understood and agreed that the Contractor-owned legal records that are subject to an attorney-client privilege or an attorney-work-product privilege require special handling to preserve these privileges. Therefore, the Parties agree that inspection, copying, or audit of any such records will only be conducted by DOE Counsel or its designees.
- (c) The initial submittal of the "Assurance Letter" required by the clause entitled "Management Controls (Dec 2000) (DEVIATION)" shall be no later than November 30, 2004. Unless changed by mutual agreement, subsequent "Assurance Letters" shall be submitted annually by the last day of November. (End of Clause)

# H-33 Open Competition and Labor Relations under Management and Operating and Other Major Facilities Contracts (Dec 2002) (AL 2002-08)

"Labor organization," as used in this clause, shall have the same meaning it has in 42 U.S.C. 2000e(d).

(a) Unless acting in the capacity of a constructor on a particular project, the Contractor shall not-

(1) Require bidders, offerors, Contractors, or subcontractors to enter into or adhere to nor prohibit those Parties from entering into or adhering to agreements with one or more labor organizations, i.e., project labor agreements, that apply to construction project(s) relating to this Contract; or

- (2) Otherwise discriminate against bidders, offerors, Contractors, or subcontractors for refusing to become or to remain signatories or to otherwise adhere to project labor agreements for construction project(s) relating to this Contract.
- (b) When the Contractor is acting in the capacity of a constructor, i.e., performing a substantial portion of the construction with its own forces, it may use its discretion to require bidders, offerors, Contractors, or subcontractors to enter into a project labor agreement that the Contractor has negotiated for that individual project.
- (c) Nothing in this clause shall limit the right of bidders, offerors, Contractors, or subcontractors to voluntarily enter into project labor agreements.

  (End of Clause)

# **Part II – Contract Clauses**

# **Section I**

# **Contract Clauses**

# **Table of Contents**

I–1	52.202-1 Definitions (Dec 2001) Modified by DEAR 902-200 (Mar 2002)	
I-2	52.203-3 Gratuities (Apr 1984)	4
I-3	52.203-5 Covenant Against Contingent Fees (Apr 1984)	
I-4	52.203-6 Restrictions on Subcontractor Sales to the Government (Jul 1995)	5
I-5	52.203-7 Anti-Kickback Procedures (Jul 1995)	5
I–6	52.203-8 Cancellation, Rescission, and Recovery of Funds for Illegal or Improper A (Jan 1997)	•
I-7	52.203-10 Price or Fee Adjustment for Illegal or Improper Activity (Jan 1997)	
I–8	52.203-12 Limitation on Payments to Influence Certain Federal Transactions (Jun 1	1997)
I–9	52.204-4 Printed or Copied Double-Sided on Recycled Paper (Aug 2000)	
<b>I-9A</b>	52.204-7 Central Contractor Registration (Oct 2003) Alternate I (Oct 2003)	18
I-10	52.208-8 Required Sources for Helium and Helium Usage Data (Apr 2002)	
I-11	52.209-6 Protecting the Government's Interest When Subcontracting with Contract	
	Debarred, Suspended or Proposed for Debarment (Jul 1995)	
I-12	52.211-5 Material Requirements (Aug 2000)	
I-13	52.215-8 Order of Precedence Uniform Contract Format (Oct 1997)	
I-14	52.215-12 Subcontractor Cost or Pricing Data (Oct 1997)	
I-15	52.215-13 Subcontractor Cost or Pricing Data – Modifications (Oct 1997)	
I-16	52.219-8 Utilization of Small Business Concerns (Oct 2000)	
I-17	52.219-9 Small Business Subcontracting Plan (Jan 2002)	
I-18	52.219-16 Liquidated Damages Subcontracting Plan (Jan 1999)	
I–19	52.222-1 Notice to the Government of Labor Disputes (Feb 1997)	
I-20	52.222-3 Convict Labor (Aug 1996)	
I-21	52.222-4 Contract Work Hours and Safety Standards Act Overtime Compensatio 2000)	n (Sep
I-22	52.222-11 Subcontracts (Labor Standards) (Feb 1988) (DEVIATION)	
I-23	52.222-21 Prohibition of Segregated Facilities (Feb 1999)	
I-24	52.222-26 Equal Opportunity (Apr 2002)	38
I-25	52.222-29 Notification of Visa Denial (Feb 1999)	
I–26	52.222-35 Equal Opportunity for Special Disabled Veterans, Veterans of the Vietna and Other Eligible Veterans (Dec 2001)	41
I-27	52.222-36 Affirmative Action for Workers with Disabilities (Jun 1998)	45
I-28	52.222-37 Employment Reports on Special Disabled Veterans, Veterans of the Vietn	
	Era, and Other Eligible Veterans (Dec 2001)	47
I-29	52.223-5 Pollution Prevention and Right-to-Know Information (Aug 2003) Alternat 2003)	e I (Aug
I-30	52.223-10 Waste Reduction Program (Aug 2000)	

1-32   52.224-1 Privacy Act Notification (Apr 1984)	1-31	52.223-12 Refrigeration Equipment and Air Conditioners (May 1995)	50
1-34   52.225-1 Buy American Act - Supplies (Jun 2003)	I-32	52.224-1 Privacy Act Notification (Apr 1984)	50
1-35   52.225-13 Restriction on Certain Foreign Purchases (Jan 2004)	I-33	52.224-2 Privacy Act (Apr 1984)	50
1-35   52.225-13 Restriction on Certain Foreign Purchases (Jan 2004)	I-34	52.225-1 Buy American Act - Supplies (Jun 2003)	51
1-36	I-35	52.225-9 Buy American Act-Construction Materials (Jun 2003)	53
1-37   52.229-8 Taxes — Foreign Cost-Reimbursement Contracts (Mar 1990)	I-36		
1-38   52.230-2 Cost Accounting Standards (Apr 1998)			
1-39   52.230-6 Administration of Cost Accounting Standards (Nov 1999)			
1-40   52.232-17 Interest (Jun 1996)		52.230-6 Administration of Cost Accounting Standards (Nov 1999)	59
1-41   52.232-24 Prohibition of Assignment of Claims (Jan 1986)			
1-42 52.233-1 Disputes (Jul 2002) Alternate I (Jul 2002)			
1-43   52.233-3 Protest After Award (Aug 1996) Alternate I (Jun 1985)	I-42	` , ,	
1-44   52.236-8 Other Contracts (Apr 1984)	I-43		
1-45   52.237-3 Continuity of Services (Jan 1991)	I-44		
1-46   52.242-1 Notice of Intent to Disallow Costs (Apr 1984)	I-45		
1-47       52.242-13 Bankruptcy (Jul 1995)	I-46		
1-49   52.244-6 Subcontracts for Commercial Items (Apr 2003)   68    -50   52.247-1 Commercial Bill of Lading Notations (Apr 1984)   69    -51   52.247-63 - Preference for U.SFlag Air Carriers (Jun 2003)   70    -52   52.247-64 Preference for Privately Owned U.SFlag Commercial Vessels (Apr 2003)   71    -53   52.247-67 Submission of Commercial Transportation Bills to the General Services Administration for Audit (Jun 1997)   73    -54   52.249-6 Termination (Cost-Reimbursement) (Sep 1996) (Modified by DEAR 970.4905-1 (Dec 2000))   75    -55   52.249-14 Excusable Delays (Apr 1984)   (DEVIATION)   81    -56   52.251-1 Government Supply Sources (Apr 1984) (DEVIATION)   81    -57   52.251-2 Interagency Fleet Management System Vehicles and Related Services (Jan 1991)   81    -58   52.252-6 Authorized Deviations in Clauses (Apr 1984)   81    -59   52.203-70 Whistleblower Protection for Contractor Employees (Dec 2000)   82    -61   952.204-2 Security (May 2002) (DEVIATION)   82    -62   952.204-75 Public Affairs (Dec 2000)   85    -63   952.204-75 Public Affairs (Dec 2000)   85    -64   952.208-7 Tagging of Leased Vehicles (Apr 1984)   86    -65   952-217-71 Priorities and Allocations (Atomic Energy) (Jun 1996)   90    -67   952.211-71 Priorities and Allocations (Domestic Energy Supplies) (Jun 1996) Alternate I (Jun 1996)   90    -69   952.217-70 Acquisition of Real Property (Apr 1984)   91    -70   952.223-75 Preservation of Individual Occupational Radiation Exposure Records (Apr 1984)   91	I-47	` <del>-</del>	
1-49   52.244-6 Subcontracts for Commercial Items (Apr 2003)   68    -50   52.247-1 Commercial Bill of Lading Notations (Apr 1984)   69    -51   52.247-63 - Preference for U.SFlag Air Carriers (Jun 2003)   70    -52   52.247-64 Preference for Privately Owned U.SFlag Commercial Vessels (Apr 2003)   71    -53   52.247-67 Submission of Commercial Transportation Bills to the General Services Administration for Audit (Jun 1997)   73    -54   52.249-6 Termination (Cost-Reimbursement) (Sep 1996) (Modified by DEAR 970.4905-1 (Dec 2000))   75    -55   52.249-14 Excusable Delays (Apr 1984)   (DEVIATION)   81    -56   52.251-1 Government Supply Sources (Apr 1984) (DEVIATION)   81    -57   52.251-2 Interagency Fleet Management System Vehicles and Related Services (Jan 1991)   81    -58   52.252-6 Authorized Deviations in Clauses (Apr 1984)   81    -59   52.203-70 Whistleblower Protection for Contractor Employees (Dec 2000)   82    -61   952.204-2 Security (May 2002) (DEVIATION)   82    -62   952.204-75 Public Affairs (Dec 2000)   85    -63   952.204-75 Public Affairs (Dec 2000)   85    -64   952.208-7 Tagging of Leased Vehicles (Apr 1984)   86    -65   952-217-71 Priorities and Allocations (Atomic Energy) (Jun 1996)   90    -67   952.211-71 Priorities and Allocations (Domestic Energy Supplies) (Jun 1996) Alternate I (Jun 1996)   90    -69   952.217-70 Acquisition of Real Property (Apr 1984)   91    -70   952.223-75 Preservation of Individual Occupational Radiation Exposure Records (Apr 1984)   91	I-48	52.244-5 Competition in Subcontracting (Dec 1996)	68
1-50   52.247-1 Commercial Bill of Lading Notations (Apr 1984)	I-49		
1-51   52.247-63 Preference for U.SFlag Air Carriers (Jun 2003)	I-50		
1-52   52.247-64 Preference for Privately Owned U.SFlag Commercial Vessels (Apr 2003)71   1-53   52.247-67 Submission of Commercial Transportation Bills to the General Services Administration for Audit (Jun 1997)	I-51		
I-53 52.247-67 Submission of Commercial Transportation Bills to the General Services Administration for Audit (Jun 1997)	I-52		
1-54   52.249-6 Termination (Cost-Reimbursement) (Sep 1996) (Modified by DEAR 970.4905-1 (Dec 2000))	I-53		
1-54   52.249-6 Termination (Cost-Reimbursement) (Sep 1996) (Modified by DEAR 970.4905-1 (Dec 2000))		Administration for Audit (Jun 1997)	73
I-55 52.249-14 Excusable Delays (Apr 1984)	I-54		
I-55 52.249-14 Excusable Delays (Apr 1984)			
I-57 52.251-2 Interagency Fleet Management System Vehicles and Related Services (Jan 1995)	I-55	52.249-14 Excusable Delays (Apr 1984)	80
I-57 52.251-2 Interagency Fleet Management System Vehicles and Related Services (Jan 1995)	I-56	52.251-1 Government Supply Sources (Apr 1984) (DEVIATION)	81
I-58       52.252-6 Authorized Deviations in Clauses (Apr 1984)	I-57		
I-59 52.253-1 Computer Generated Forms (Jan 1991)			81
I-60 952.203-70 Whistleblower Protection for Contractor Employees (Dec 2000)	I-58	52.252-6 Authorized Deviations in Clauses (Apr 1984)	81
I-61 952.204-2 Security (May 2002) (DEVIATION) 82 I-62 952.204-70 Classification/Declassification (Sep 1997)(DEVIATION) 84 I-63 952.204-75 Public Affairs (Dec 2000) 85 I-64 952.208-7 Tagging of Leased Vehicles (Apr 1984) 86 I-65 952-209-72 Organizational Conflicts of Interest (Jun 1997) Alternate I (Jun 1997) 87 I-66 952.211-71 Priorities and Allocations (Atomic Energy) (Jun 1996) 90 I-67 952.211-71 Priorities and Allocations (Domestic Energy Supplies) (Jun 1996) Alternate I (Jun 1996) 90 I-68 952.215-70 Key Personnel (Dec 2000) 90 I-69 952.217-70 Acquisition of Real Property (Apr 1984) 91 I-70 952.223-75 Preservation of Individual Occupational Radiation Exposure Records (Apr 1984) 91	I-59	52.253-1 Computer Generated Forms (Jan 1991)	81
I-62 952.204-70 Classification/Declassification (Sep 1997)(DEVIATION)	I-60	952.203-70 Whistleblower Protection for Contractor Employees (Dec 2000)	82
I-63 952.204-75 Public Affairs (Dec 2000)	I-61	952.204-2 Security (May 2002) (DEVIATION)	82
I-65 952-209-72 Organizational Conflicts of Interest (Jun 1997) Alternate I (Jun 1997)87 I-66 952.211-71 Priorities and Allocations (Atomic Energy) (Jun 1996)90 I-67 952.211-71 Priorities and Allocations (Domestic Energy Supplies) (Jun 1996) Alternate I (Jun 1996)	I-62	952.204-70 Classification/Declassification (Sep 1997)(DEVIATION)	84
I-65 952-209-72 Organizational Conflicts of Interest (Jun 1997) Alternate I (Jun 1997)87 I-66 952.211-71 Priorities and Allocations (Atomic Energy) (Jun 1996)90 I-67 952.211-71 Priorities and Allocations (Domestic Energy Supplies) (Jun 1996) Alternate I (Jun 1996)	I-63	952.204-75 Public Affairs (Dec 2000)	85
I-65 952-209-72 Organizational Conflicts of Interest (Jun 1997) Alternate I (Jun 1997)87 I-66 952.211-71 Priorities and Allocations (Atomic Energy) (Jun 1996)90 I-67 952.211-71 Priorities and Allocations (Domestic Energy Supplies) (Jun 1996) Alternate I (Jun 1996)	I-64	952.208-7 Tagging of Leased Vehicles (Apr 1984)	86
I-66 952.211-71 Priorities and Allocations (Atomic Energy) (Jun 1996)	I-65	952-209-72 Organizational Conflicts of Interest (Jun 1997) Alternate I (Jun 1997)	87
<ul> <li>(Jun 1996)</li></ul>	I-66	952.211-71 Priorities and Allocations (Atomic Energy) (Jun 1996)	90
I-68 952.215-70 Key Personnel (Dec 2000)	I-67	952.211-71 Priorities and Allocations (Domestic Energy Supplies) (Jun 1996) Alterna	te I
I–69 952.217-70 Acquisition of Real Property (Apr 1984)			
I–69 952.217-70 Acquisition of Real Property (Apr 1984)	I-68		
1984)91	I-69	952.217-70 Acquisition of Real Property (Apr 1984)	91
	I-70	952.223-75 Preservation of Individual Occupational Radiation Exposure Records (A	or
I-71 952.224-70 Paperwork Reduction Act (Apr 1994)92			
	I-71	952.224-70 Paperwork Reduction Act (Apr 1994)	92

I–72	952.226-74 Displaced Employee Hiring Preference (Jun 1997)	92
I-73	952.247-70 Foreign Travel (Dec 2000)	93
I-74	952.250-70 Nuclear Hazards Indemnity Agreement (Jun 1996)	93
I-75	952.251-70 Contractor Employee Travel Discounts (Dec 2000)	97
I-76	970.5203-1 Management Controls (Dec 2000) (DEVIATION)	
I–77	970.5203-2 Performance Improvement and Collaboration (Dec 2000)	
I-78	970.5203-3 Contractor's Organization (Dec 2000) (DEVIATION)	
I-79	970.5204-1 Counterintelligence (Dec 2000)	
I-80	970.5204-2 Laws, Regulations, and DOE Directives (Dec 2000) (DEVIATION)	
I-81	970.5204-3 Access to and Ownership of Records (Dec 2000)	
I-82	970.5208-1 Printing (Dec 2000)	
I-83	970.5215-1 Total Available Fee: Base Fee Amount and Performance Fee Amount	
	2000) Alternate II (Dec 2000) Alternate III (DEC 2000)	`
I-84	970.5215-3 Conditional Payment of Fee, Profit, or Incentives (Dec 2000) Alternate	
	2000)	
I-85	970.5222-1 Collective Bargaining Agreements Management and Operating Contra	
	2000)	`
I-86	970.5222-2 Overtime Management (Dec 2000)	
I-87	970.5223-1 Integration of Environment, Safety, and Health into Work Planning at	
	Execution (Dec 2000)	
I-88	970.5223-2 Acquisition and Use of Environmentally Preferable Products and Serv	
	2000)	
I-89	970.5223-4 Workplace Substance Abuse Programs at DOE Sites (Dec 2000)	
I-90	970.5226-1 Diversity Plan (Dec 2000) (DEVIATION)	
I–91	970.5226-2 Workforce Restructuring under Section 3161 of the National Defense	
	Authorization Act for Fiscal Year 1993 (Dec 2000)	115
I-92	970.5226-3 Community Commitment (Dec 2000)	
I-93	970.5227-2 Rights in Data-Technology Transfer (Dec 2000)	
I-94	970.5227-3 Technology Transfer Mission (Aug 2002) Alternate I (Aug 2002)	
I-95	970.5227-4 Authorization and Consent (Aug 2002)	
I-96	970.5227-5 Notice and Assistance Regarding Patent and Copyright Infringement	
	2002)	
I-97	970.5227-6 Patent Indemnity-Subcontracts (Dec 2000)	143
I-98	970.5227-8 Refund of Royalties (Aug 2002)	
I-99	970.5227-10 Patent Rights-Management and Operating Contracts, Nonprofit Org	
	or Small Business Firm Contractor (Aug 2002)	145
I-100	970.5228-1 Insurance-Litigation and Claims (Mar 2002)	158
I-101	970.5229-1 State and Local Taxes (Dec 2000)	161
I-102	970.5231-4 Preexisting Conditions (Dec 2000) Alternate I (Dec 2000)	162
I–103	970.5232-1 Reduction or Suspension of Advance, Partial, or Progress Payments (I	
I-104	970.5232-2 Payments and Advances (Dec 2000) Alternate II (Dec 2000) Alternate	103 III (Dec
_~.	2000) (DEVIATION)	•
I-105	970.5232-3 Accounts, Records, and Inspection (Dec 2000) Alternate II (Dec 2000).	
	970.5232-4 Obligation of Funds (Dec 2000)	
	970.5232-5 Liability with Respect to Cost Accounting Standards (Dec 2000)	

# Modification M412

I-108	970.5232-6 Work for Others Funding Authorization (Dec 2000)	<b>17</b> 1
I-109	970.5232-7 Financial Management System (Dec 2000)	172
I-110	970.5232-8 Integrated Accounting (Dec 2000)	172
	970.5235-1 Federally Funded Research and Development Center Sponsoring Agre	
	(Dec 2000)	
I-112	970.5236-1 Government Facility Subcontract Approval (Dec 2000)	
I-113	970.5242-1 Penalties for Unallowable Costs (Dec 2000)	173
I-114	970.5243-1 Changes (Dec 2000)	174
	970.5244-1 Contractor Purchasing System (Dec 2000) (DEVIATION) (Includes	
	modifications in final rule dated 1/18/01.)	175
I–116	970.5245-1 Property (Dec 2000) Alternate I (Dec 2000) (DEVIATION)	

Modification M412

## I-1 52.202-1 Definitions (Dec 2001) Modified by DEAR 902-200 (Mar 2002)

(a) "Agency head" or "head of agency" means: (i) the Secretary; (ii) Deputy Secretary; (iii) Under Secretaries of the Department of Energy and (iv) the Chairman, Federal Energy Regulatory Commission.

- (b) "Commercial component" means any component that is a commercial item.
- (c) "Commercial item" means --
  - (1) Any item, other than real property, that is of a type customarily used by the general public or by non-Governmental entities for purposes other than Governmental purposes, and that --
    - (i) Has been sold, leased, or licensed to the general public; or
    - (ii) Has been offered for sale, lease, or license to the general public;
  - (2) Any item that evolved from an item described in paragraph (c)(1) of this clause through advances in technology or performance and that is not yet available in the commercial marketplace, but will be available in the commercial marketplace in time to satisfy the delivery requirements under a Government solicitation;
  - (3) Any item that would satisfy a criterion expressed in paragraphs (c)(1) or (c)(2) of this clause, but for --
    - (i) Modifications of a type customarily available in the commercial marketplace; or
    - (ii) Minor modifications of a type not customarily available in the commercial marketplace made to meet Federal Government requirements. "Minor" modifications means modifications that do not significantly alter the nongovernmental function or essential physical characteristics of an item or component, or change the purpose of a process. Factors to be considered in determining whether a modification is minor include the value and size of the modification and the comparative value and size of the final product. Dollar values and percentages may be used as guideposts, but are not conclusive evidence that a modification is minor;
  - (4) Any combination of items meeting the requirements of paragraphs (c)(1), (2), (3), or (5) of this clause that are of a type customarily combined and sold in combination to the general public;

(5) Installation services, maintenance services, repair services, training services, and other services if--

- (i) Such services are procured for support of an item referred to in paragraph (c)(1), (2), (3), or (4) of this definition, regardless of whether such services are provided by the same source or at the same time as the item; and
- (ii) The source of such services provides similar services contemporaneously to the general public under terms and conditions similar to those offered to the Federal Government;
- (6) Services of a type offered and sold competitively in substantial quantities in the commercial marketplace based on established catalog or market prices for specific tasks performed under standard commercial terms and conditions. This does not include services that are sold based on hourly rates without an established catalog or market price for a specific service performed. For purposes of these services--
  - (i) "Catalog price" means a price included in a catalog, price list, schedule, or other form that is regularly maintained by the manufacturer or vendor, is either published or otherwise available for inspection by customers, and states prices at which sales are currently, or were last, made to a significant number of buyers constituting the general public; and
  - (ii) "Market prices" means current prices that are established in the course of ordinary trade between buyers and sellers free to bargain and that can be substantiated through competition or from sources independent of the offerors.
- (7) Any item, combination of items, or service referred to in subparagraphs (c)(1) through (c)(6), notwithstanding the fact that the item, combination of items, or service is transferred between or among separate divisions, subsidiaries, or affiliates of a Contractor; or
- (8) A nondevelopmental item, if the procuring agency determines the item was developed exclusively at private expense and sold in substantial quantities, on a competitive basis, to multiple State and local Governments.
- (d) "Component" means any item supplied to the Government as part of an end item or of another component, except that for use in 52.225-9, and 52.225-11 see the definitions in 52.225-9(a) and 52.225-11(a).

(e) "Contracting Officer" means a person with the authority to enter into, administer, and/or terminate contracts and make related determinations and findings. The term includes certain authorized representatives of the Contracting Officer acting within the limits of their authority as delegated by the Contracting Officer.

- (f) "Nondevelopmental item" means --
  - (1) Any previously developed item of supply used exclusively for Governmental purposes by a Federal agency, a State or local Government, or a foreign Government with which the United States has a mutual defense cooperation agreement;
  - (2) Any item described in paragraph (f)(1) of this definition that requires only minor modification or modifications of a type customarily available in the commercial marketplace in order to meet the requirements of the procuring department or agency; or
  - (3) Any item of supply being produced that does not meet the requirements of paragraph (f)(1) or (f)(2) solely because the item is not yet in use.
- (g) Except as otherwise provided in this Contract, the term "subcontracts" includes, but is not limited to, purchase orders and changes and modifications to purchase orders under this Contract.
- (h) The term "DOE" means the United States Department of Energy; "FERC" means the Federal Energy Regulatory Commission; and "NNSA" means the National Nuclear Security Administration.
- (i) The "Senior Procurement Executive, DOE" is the Director, Office of Procurement and Assistance Management; the "Senior Procurement Executive, NNSA" is the Administrator for Nuclear Security, NNSA; and the "Senior Procurement Executive, FERC" is the Chairman, Federal Energy Regulatory Commission.
- (j) "Contractor" means Battelle Memorial Institute.
- (k) "Laboratory" means the Pacific Northwest National Laboratory (PNNL).
- (l) "Contractor's Managerial Personnel" means the Contractor's officers; directors; Laboratory Director; Deputy Laboratory Directors; Associate Laboratory Directors; Chief Financial Officer; General Counsel; Director of Economic Development & Communications; Director of Environment, Safety, Health & Quality; Director of Human Resources; Director of Audit & Oversight; and Director of Facilities & Operations; or equivalent positions, and anyone acting in any of the above-named positions pursuant to a written designation.

  (End of Clause)

Modification M412

## I-2 52.203-3 Gratuities (Apr 1984)

(a) The right of the Contractor to proceed may be terminated by written notice if, after notice and hearing, the agency head or a designee determines that the Contractor, its agent, or another representative --

- (1) Offered or gave a gratuity (e.g., an entertainment or gift) to an officer, official, or employee of the Government; and
- (2) Intended, by the gratuity, to obtain a contract or favorable treatment under a contract.
- (b) The facts supporting this determination may be reviewed by any court having lawful jurisdiction.
- (c) If this Contract is terminated under paragraph (a) of this clause, the Government is entitled --
  - (1) To pursue the same remedies as in a breach of the Contract; and
  - (2) In addition to any other damages provided by law, to exemplary damages of not less than 3 nor more than 10 times the cost incurred by the Contractor in giving gratuities to the person concerned, as determined by the agency head or a designee. (This subparagraph (c)(2) is applicable only if this Contract uses money appropriated to the Department of Defense.)
- (d) The rights and remedies of the Government provided in this clause shall not be exclusive and are in addition to any other rights and remedies provided by law or under this Contract.

(End of Clause)

#### I-3 52.203-5 Covenant Against Contingent Fees (Apr 1984)

- (a) The Contractor warrants that no person or agency has been employed or retained to solicit or obtain this Contract upon an agreement or understanding for a contingent fee, except a bona fide employee or agency. For breach or violation of this warranty, the Government shall have the right to annul this Contract without liability or, in its discretion, to deduct from the Contract price or consideration, or otherwise recover, the full amount of the contingent fee.
- (b) "Bona fide agency," as used in this clause, means an established commercial or selling agency, maintained by a Contractor for the purpose of securing business, that neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds itself out as being able to obtain any Government contract or contracts through improper influence.

Modification M412

"Bona fide employee," as used in this clause, means a person, employed by a Contractor and subject to the Contractor's supervision and control as to time, place, and manner of performance, who neither exerts nor proposes to exert improper influence to solicit or obtain Government contracts nor holds out as being able to obtain any Government contract or contracts through improper influence

"Contingent fee," as used in this clause, means any commission, percentage, brokerage, or other fee that is contingent upon the success that a person or concern has in securing a Government contract.

"Improper influence," as used in this clause, means any influence that induces or tends to induce a Government employee or officer to give consideration or to act regarding a Government contract on any basis other than the merits of the matter.

(End of Clause)

## I-4 52.203-6 Restrictions on Subcontractor Sales to the Government (Jul 1995)

- (a) Except as provided in (b) of this clause, the Contractor shall not enter into any agreement with an actual or prospective Subcontractor, nor otherwise act in any manner, which has or may have the effect of restricting sales by such Subcontractors directly to the Government of any item or process (including computer software) made or furnished by the Subcontractor under this Contract or under any follow-on production contract.
- (b) The prohibition in (a) of this clause does not preclude the Contractor from asserting rights that are otherwise authorized by law or regulation.
- (c) The Contractor agrees to incorporate the substance of this clause, including this paragraph (c), in all subcontracts under this Contract which exceed \$100,000. (End of Clause)

#### I-5 52.203-7 Anti-Kickback Procedures (Jul 1995)

(a) Definitions.

"Kickback," as used in this clause, means any money, fee, commission, credit, gift, gratuity, thing of value, or compensation of any kind which is provided, directly or indirectly, to any prime Contractor, prime Contractor employee, Subcontractor, or Subcontractor employee for the purpose of improperly obtaining or rewarding favorable treatment in connection with a prime contract or in connection with a subcontract relating to a prime contract.

"Person," as used in this clause, means a corporation, partnership, business association of any kind, trust, joint-stock company, or individual.

"Prime contract," as used in this clause, means a contract or contractual action entered into by the United States for the purpose of obtaining supplies, materials, equipment, or services of any kind.

"Prime Contractor" as used in this clause, means a person who has entered into a prime contract with the United States.

"Prime Contractor employee," as used in this clause, means any officer, partner, employee, or agent of a prime Contractor.

"Subcontract," as used in this clause, means a contract or contractual action entered into by a prime Contractor or Subcontractor for the purpose of obtaining supplies, materials, equipment, or services of any kind under a prime contract.

"Subcontractor," as used in this clause,

- (1) means any person, other than the prime Contractor, who offers to furnish or furnishes any supplies, materials, equipment, or services of any kind under a prime contract or a subcontract entered into in connection with such prime contract, and
- includes any person who offers to furnish or furnishes general supplies to the prime Contractor or a higher tier Subcontractor.

"Subcontractor employee," as used in this clause, means any officer, partner, employee, or agent of a Subcontractor.

- (b) The Anti-Kickback Act of 1986 (41 U.S.C. 51-58) (the Act), prohibits any person from --
  - (1) Providing or attempting to provide or offering to provide any kickback;
  - (2) Soliciting, accepting, or attempting to accept any kickback; or
  - (3) Including, directly or indirectly, the amount of any kickback in the contract price charged by a prime Contractor to the United States or in the contract price charged by a Subcontractor to a prime Contractor or higher tier Subcontractor.

(c)

(1) The Contractor shall have in place and follow reasonable procedures designed to prevent and detect possible violations described in paragraph (b) of this clause in its own operations and direct business relationships.

(2) When the Contractor has reasonable grounds to believe that a violation described in paragraph (b) of this clause may have occurred, the Contractor shall promptly report in writing the possible violation. Such reports shall be made to the inspector general of the contracting agency, the head of the contracting agency if the agency does not have an inspector general, or the Department of Justice.

- (3) The Contractor shall cooperate fully with any Federal agency investigating a possible violation described in paragraph (b) of this clause.
- (4) The Contracting Officer may
  - (i) offset the amount of the kickback against any monies owed by the United States under the prime contract and/or
  - (ii) direct that the Prime Contractor withhold from sums owed a Subcontractor under the prime contract the amount of the kickback. The Contracting Officer may order that monies withheld under subdivision (c)(4)(ii) of this clause be paid over to the Government unless the Government has already offset those monies under subdivision (c)(4)(i) of this clause. In either case, the Prime Contractor shall notify the Contracting Officer when the monies are withheld.
- (5) The Contractor agrees to incorporate the substance of this clause, including subparagraph (c)(5) but excepting subparagraph (c)(1), in all subcontracts under this contract which exceed \$100,000.

  (End of Clause)

# I-6 52.203-8 Cancellation, Rescission, and Recovery of Funds for Illegal or Improper Activity (Jan 1997)

- a) If the Government receives information that a Contractor or a person has engaged in conduct constituting a violation of subsection (a), (b), (c), or (d) of section 27 of the Office of Federal Procurement Policy Act (41 U.S.C. 423) (the Act), as amended by section 4304 of the National Defense Authorization Act for Fiscal Year 1996 (Pub. L. 104-106), the Government may --
  - (1) Cancel the solicitation, if the contract has not yet been awarded or issued; or
  - (2) Rescind the contract with respect to which --
    - (i) The Contractor or someone acting for the Contractor has been convicted for an offense where the conduct constitutes a violation of subsection 27(a) or (b) of the Act for the purpose of either --

- (A) Exchanging the information covered by such subsections for anything of value; or
- (B) Obtaining or giving anyone a competitive advantage in the award of a Federal agency procurement contract; or
- (ii) The head of the contracting activity has determined, based upon a preponderance of the evidence, that the Contractor or someone acting for the Contractor has engaged in conduct constituting an offense punishable under subsection 27(e)(1) of the Act.
- (b) If the Government rescinds the Contract under paragraph (a) of this clause, the Government is entitled to recover, in addition to any penalty prescribed by law, the amount expended under the Contract.
- (c) The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law, regulation, or under this Contract.

(End of Clause)

# I-7 52.203-10 Price or Fee Adjustment for Illegal or Improper Activity (Jan 1997)

- (a) The Government, at its election, may reduce the price of a fixed-price type contract and the total cost and fee under a cost-type contract by the amount of profit or fee determined as set forth in paragraph (b) of this clause if the head of the contracting activity or designee determines that there was a violation of subsection 27(a), (b), or (c) of the Office of Federal Procurement Policy Act, as amended (41 U.S.C. 423), as implemented in section 3.104 of the Federal Acquisition Regulation.
- (b) The price or fee reduction referred to in paragraph (a) of this clause shall be --
  - (1) For cost-plus-fixed-fee contracts, the amount of the fee specified in the contract at the time of award;
  - (2) For cost-plus-incentive-fee contracts, the target fee specified in the contract at the time of award, notwithstanding any minimum fee or "fee floor" specified in the contract;
  - (3) For cost-plus-award-fee contracts --
    - (i) The base fee established in the contract at the time of contract award;
    - (ii) If no base fee is specified in the contract, 30 percent of the amount of each award fee otherwise payable to the Contractor for each award fee evaluation period or at each award fee determination point.
  - (4) For fixed-price-incentive contracts, the Government may --
    - (i) Reduce the contract target price and contract target profit both by an amount equal to the initial target profit specified in the contract at the time of contract award; or
    - (ii) If an immediate adjustment to the contract target price and contract target profit would have a significant adverse impact on the incentive price revision relationship under the contract, or adversely affect the contract financing provisions, the Contracting Officer may defer such adjustment until establishment of the total final price of the contract. The total final price established in accordance with the incentive price revision provisions of the contract shall be reduced by an amount equal to the initial target profit specified in the contract at the time of contract award and such reduced price shall be the total final contract price.

- (5) For firm-fixed-price contracts, by 10 percent of the initial contract price or a profit amount determined by the Contracting Officer from records or documents in existence prior to the date of the contract award.
- (c) The Government may, at its election, reduce a prime Contractor's price or fee in accordance with the procedures of paragraph (b) of this clause for violations of the Act by its Subcontractors by an amount not to exceed the amount of profit or fee reflected in the subcontract at the time the subcontract was first definitively priced.
- (d) In addition to the remedies in paragraphs (a) and (c) of this clause, the Government may terminate this contract for default. The rights and remedies of the Government specified herein are not exclusive, and are in addition to any other rights and remedies provided by law or under this contract.

  (End of Clause)

# I-8 52.203-12 Limitation on Payments to Influence Certain Federal Transactions (Jun 1997)

(a) Definitions.

"Agency," as used in this clause, means executive agency as defined in 2.101.

"Covered Federal action," as used in this clause, means any of the following Federal actions:

- (1) The awarding of any Federal contract.
- (2) The making of any Federal grant.
- (3) The making of any Federal loan.
- (4) The entering into of any cooperative agreement.
- (5) The extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

"Indian tribe" and "tribal organization," as used in this clause, have the meaning provided in section 4 of the Indian Self-Determination and Education Assistance Act (25 U.S.C.450B) and include Alaskan Natives.

"Influencing or attempting to influence," as used in this clause, means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any covered Federal action.

"Local Government," as used in this clause, means a unit of Government in a State and, if chartered, established, or otherwise recognized by a State for the performance of a Governmental duty, including a local public authority, a special district, an intrastate district, a council of Governments, a sponsor group representative organization, and any other instrumentality of a local Government.

"Officer or employee of an agency," as used in this clause, includes the following individuals who are employed by an agency:

- (1) An individual who is appointed to a position in the Government under Title 5, United States Code, including a position under a temporary appointment.
- (2) A member of the uniformed services, as defined in subsection 101(3), Title 37, United States Code.
- (3) A special Government employee, as defined in section 202, Title 18, United States Code.
- (4) An individual who is a member of a Federal advisory committee, as defined by the Federal Advisory Committee Act, Title 5, United States Code, appendix 2.

"Person," as used in this clause, means an individual, corporation, company, association, authority, firm, partnership, society, State, and local Government, regardless of whether such entity is operated for profit, or not for profit. This term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law.

"Reasonable compensation," as used in this clause, means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the Federal Government

"Reasonable payment," as used in this clause, means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private sector.

"Recipient," as used in this clause, includes the Contractor and all Subcontractors. This term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other Federal law.

"Regularly employed," as used in this clause, means, with respect to an officer or employee of a person requesting or receiving a Federal contract, an officer or

employee who is employed by such person for at least 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract. An officer or employee who is employed by such person for less than 130 working days within 1 year immediately preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for 130 working days.

"State," as used in this clause, means a State of the United States, the District of Columbia, the Commonwealth of Puerto Rico, a territory or possession of the United States, an agency or instrumentality of a State, and multi-State, regional, or interstate entity having Governmental duties and powers.

### (b) Prohibitions.

- (1) Section 1352 of Title 31, United States Code, among other things, prohibits a recipient of a Federal contract, grant, loan, or cooperative agreement from using appropriated funds to pay any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any of the following covered Federal actions: the awarding of any Federal contract; the making of any Federal grant; the making of any Federal loan; the entering into of any cooperative agreement; or the modification of any Federal contract, grant, loan, or cooperative agreement.
- (2) The Act also requires Contractors to furnish a disclosure if any funds other than Federal appropriated funds (including profit or fee received under a covered Federal transaction) have been paid, or will be paid, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with a Federal contract, grant, loan, or cooperative agreement.
- (3) The prohibitions of the Act do not apply under the following conditions:
  - (i) Agency and legislative liaison by own employees.
    - (A) The prohibition on the use of appropriated funds, in subparagraph (b)(1) of this clause, does not apply in the case of a payment of reasonable compensation made to an officer or employee of a person requesting or receiving a covered Federal action if the payment is for agency and legislative liaison activities not directly related to a covered Federal action.

- (B) For purposes of subdivision (b)(3)(i)(A) of this clause, providing any information specifically requested by an agency or Congress is permitted at any time.
- (C) The following agency and legislative liaison activities are permitted at any time where they are not related to a specific solicitation for any covered Federal action:
  - (1) Discussing with an agency the qualities and characteristics (including individual demonstrations) of the person's products or services, conditions or terms of sale, and service capabilities.
  - (2) Technical discussions and other activities regarding the application or adaptation of the person's products or services for an agency's use.
- (D) The following agency and legislative liaison activities are permitted where they are prior to formal solicitation of any covered Federal action --
  - (1) Providing any information not specifically requested but necessary for an agency to make an informed decision about initiation of a covered Federal action;
  - (2) Technical discussions regarding the preparation of an unsolicited proposal prior to its official submission; and
  - (3) Capability presentations by persons seeking awards from an agency pursuant to the provisions of the Small Business Act, as amended by Pub. L. 95-507, and subsequent amendments.
- (E) Only those services expressly authorized by subdivision (b)(3)(i)(A) of this clause are permitted under this clause.
- (ii) Professional and technical services.
  - (A) The prohibition on the use of appropriated funds, in subparagraph (b)(1) of this clause, does not apply in the case of --
    - (1) A payment of reasonable compensation made to an officer or employee of a person requesting or

receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action, if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action.

- (2) Any reasonable payment to a person, other than an officer or employee of a person requesting or receiving a covered Federal action or an extension, continuation, renewal, amendment, or modification of a covered Federal action if the payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that Federal action or for meeting requirements imposed by or pursuant to law as a condition for receiving that Federal action. Persons other than officers or employees of a person requesting or receiving a covered Federal action include consultants and trade associations.
- (B) For purposes of subdivision (b)(3)(ii)(A) of this clause, "professional and technical services" shall be limited to advice and analysis directly applying any professional or technical discipline. For example, drafting of a legal document accompanying a bid or proposal by a lawyer is allowable. Similarly, technical advice provided by an engineer on the performance or operational capability of a piece of equipment rendered directly in the negotiation of a contract is allowable. However, communications with the intent to influence made by a professional (such as a licensed lawyer) or a technical person (such as a licensed accountant) are not allowable under this section unless they provide advice and analysis directly applying their professional or technical expertise and unless the advice or analysis is rendered directly and solely in the preparation, submission or negotiation of a covered Federal action. Thus, for example, communications with the intent to influence made by a lawyer that do not provide legal advice or analysis directly and solely related to the legal aspects of his or her client's proposal, but generally advocate one proposal over another are not allowable under this section because the lawyer is not providing professional legal

services. Similarly, communications with the intent to influence made by an engineer providing an engineering analysis prior to the preparation or submission of a bid or proposal are not allowable under this section since the engineer is providing technical services but not directly in the preparation, submission or negotiation of a covered Federal action

- (C) Requirements imposed by or pursuant to law as a condition for receiving a covered Federal award include those required by law or regulation and any other requirements in the actual award documents.
- (D) Only those services expressly authorized by subdivisions (b)(3)(ii)(A)(1) and (2) of this clause are permitted under this clause.
- (E) The reporting requirements of FAR 3.803(a) shall not apply with respect to payments of reasonable compensation made to regularly employed officers or employees of a person.

### (c) Disclosure.

- (1) The Contractor who requests or receives from an agency a Federal contract shall file with that agency a disclosure form, OMB standard form LLL, Disclosure of Lobbying Activities, if such person has made or has agreed to make any payment using nonappropriated funds (to include profits from any covered Federal action), which would be prohibited under subparagraph (b)(1) of this clause, if paid for with appropriated funds.
- (2) The Contractor shall file a disclosure form at the end of each calendar quarter in which there occurs any event that materially affects the accuracy of the information contained in any disclosure form previously filed by such person under subparagraph (c)(1) of this clause. An event that materially affects the accuracy of the information reported includes --
  - (i) A cumulative increase of \$25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered Federal action; or
  - (ii) A change in the person(s) or individual(s) influencing or attempting to influence a covered Federal action; or
  - (iii) A change in the officer(s), employee(s), or Member(s) contacted to influence or attempt to influence a covered Federal action.

- (3) The Contractor shall require the submittal of a certification, and if required, a disclosure form by any person who requests or receives any subcontract exceeding \$100,000 under the Federal contract.
- (4) All Subcontractor disclosure forms (but not certifications) shall be forwarded from tier to tier until received by the prime Contractor. The prime Contractor shall submit all disclosures to the Contracting Officer at the end of the calendar quarter in which the disclosure form is submitted by the Subcontractor. Each Subcontractor certification shall be retained in the subcontract file of the awarding Contractor.
- (d) *Agreement*. The Contractor agrees not to make any payment prohibited by this clause.
- (e) Penalties.
  - (1) Any person who makes an expenditure prohibited under paragraph (a) of this clause or who fails to file or amend the disclosure form to be filed or amended by paragraph (b) of this clause shall be subject to civil penalties as provided for by 31 U.S.C.1352. An imposition of a civil penalty does not prevent the Government from seeking any other remedy that may be applicable.
  - (2) Contractors may rely without liability on the representation made by their Subcontractors in the certification and disclosure form.
- (f) Cost allowability. Nothing in this clause makes allowable or reasonable any costs which would otherwise be unallowable or unreasonable. Conversely, costs made specifically unallowable by the requirements in this clause will not be made allowable under any other provision.

(End of Clause)

### I-9 52.204-4 Printed or Copied Double-Sided on Recycled Paper (Aug 2000)

(a) Definitions. As used in this clause-

"Postconsumer material" means a material or finished product that has served its intended use and has been discarded for disposal or recovery, having completed its life as a consumer item. Postconsumer material is a part of the broader category of "recovered material." For paper and paper products, postconsumer material means "postconsumer fiber" defined by the U.S. Environmental Protection Agency (EPA) as-

(1) Paper, paperboard, and fibrous materials from retail stores, office buildings, homes, and so forth, after they have passed through their endusage as a consumer item, including: used corrugated boxes; old

newspapers; old magazines; mixed waste paper; tabulating cards; and used cordage; or

- (2) All paper, paperboard, and fibrous materials that enter and are collected from municipal solid waste; but not
- (3) Fiber derived form printers' over-runs, converters' scrap, and over-issue publications.

"Printed or copied double-sided" means printing or reproducing a document so that information is on both sides of a sheet of paper.

"Recovered material," for paper and paper products, is defined by EPA in its Comprehensive Procurement Guideline as "recovered fiber" and means the following materials:

- (1) Postconsumer fiber; and
- (2) Manufacturing wastes such as-
  - (i) Dry paper and paperboard waste generated after completion of the papermaking process (that is, those manufacturing operations up to and including the cutting and trimming of the paper machine reel into smaller rolls or rough sheets) including: envelope cuttings, bindery trimmings, and other paper and paperboard waste resulting from printing, cutting forming, and other converting operations; bag, box, and carton manufacturing wastes; and butt rolls, mill wrappers, and rejected unused stock; and
  - (ii) Repulped finished paper and paperboard from obsolete inventories of paper and paperboard manufacturers, merchants, wholesalers, dealers, printers, converters, or others.
- (b) In accordance with Section 101 of Executive Order 13101 of September 14, 1998, Greening the Government through Waste Prevention, Recycling, and Federal Acquisition, the Contractor is encouraged to submit paper documents, such as offers, letters, or reports, that are printed or copied double-sided on recycled paper that meet minimum content standards specified in Section 505 of Executive Order 13101, when not using electronic commerce methods to submit information or data to the Government.
- (c) If the Contractor cannot purchase high-speed copier paper, offset paper, forms bond, computer printout paper, carbonless paper, file folders, white woven envelopes, writing and office paper, book paper, cotton fiber paper, and cover stock meeting the 30 percent postconsumer material standard for use in submitting paper documents to the Government, it should use paper containing no

Modification M412

less than 20 percent postconsumer material. This lesser standard should be used only when paper meeting the 30 percent postconsumer material standard is not obtainable at a reasonable price or does not meet reasonable performance standards.

(End of Clause)

# I-9A 52.204-7 Central Contractor Registration (Oct 2003) Alternate I (Oct 2003)

(a) Definitions. As used in this clause—

"Central Contractor Registration (CCR) database" means the primary Government repository for Contractor information required for the conduct of business with the Government.

"Data Universal Numbering System (DUNS) number" means the 9-digit number assigned by Dun and Bradstreet, Inc. (D&B) to identify unique business entities.

"Data Universal Numbering System+4 (DUNS+4) number" means the DUNS number means the number assigned by D&B plus a 4-character suffix that may be assigned by a business concern. (D&B has no affiliation with this 4-character suffix.) This 4-character suffix may be assigned at the discretion of the business concern to establish additional CCR records for identifying alternative Electronic Funds Transfer (EFT) accounts (see the FAR at Subpart 32.11) for the same parent concern.

"Registered in the CCR database" means that-

- (1) The Contractor has entered all mandatory information, including the DUNS number or the DUNS+4 number, into the CCR database; and
- (2) The Government has validated all mandatory data fields and has marked the record "Active".

(b)

- (1) The Contractor shall be registered in the CCR database by December 31, 2003. The Contractor shall maintain registration during performance and through final payment of this contract.
- (2) The Contractor shall enter, in the block with its name and address on the cover page of the SF 30, Amendment of Solicitation/Modification of Contract, the annotation "DUNS" or "DUNS+4" followed by the DUNS or DUNS+4 number that identifies the Contractor's name and address exactly as stated in this contract. The DUNS number will be used by the Contracting

Officer to verify that the Contractor is registered in the CCR database

- (c) If the offeror does not have a DUNS number, it should contact Dun and Bradstreet directly to obtain one.
  - (1) An offeror may obtain a DUNS number—
    - (i) If located within the United States, by calling Dun and Bradstreet at 1-866-705-5711 or via the Internet at <a href="http://www.dnb.com">http://www.dnb.com</a>; or
    - (ii) If located outside the United States, by contacting the local Dun and Bradstreet office.
  - (2) The offeror should be prepared to provide the following information:
    - (i) Company legal business name.
    - (ii) Tradestyle, doing business, or other name by which your entity is commonly recognized.
    - (iii) Company physical street address, city, state and Zip Code.
    - (iv) Company mailing address, city, state and Zip Code (if separate from physical).
    - (v) Company telephone number.
    - (vi) Date the company was started.
    - (vii) Number of employees at your location.
    - (viii) Chief executive officer/key manager.
    - (ix) Line of business (industry).
    - (x) Company Headquarters name and address (reporting relationship within your entity).
- (d) If the Offeror does not become registered in the CCR database in the time prescribed by the Contracting Officer, the Contracting Officer will proceed to award to the next otherwise successful registered Offeror.

(e) Processing time, which normally takes 48 hours, should be taken into consideration when registering. Offerors who are not registered should consider applying for registration immediately upon receipt of this solicitation.

(f) The Contractor is responsible for the accuracy and completeness of the data within the CCR database, and for any liability resulting from the Government's reliance on inaccurate or incomplete data. To remain registered in the CCR database after the initial registration, the Contractor is required to review and update on an annual basis from the date of initial registration or subsequent updates its information in the CCR database to ensure it is current, accurate and complete. Updating information in the CCR does not alter the terms and conditions of this contract and is not a substitute for a properly executed contractual document.

(1)

- (i) If a Contractor has legally changed its business name, "doing business as" name, or division name (whichever is shown on the contract), or has transferred the assets used in performing the contract, but has not completed the necessary requirements regarding novation and change-of-name agreements in Subpart 42.12, the Contractor shall provide the responsible Contracting Officer a minimum of one business day's written notification of its intention to:
  - (A) Change the name in the CCR database;
  - (B) Comply with the requirements of Subpart 42.12 of the FAR;
  - (C) Agree in writing to the timeline and procedures specified by the responsible Contracting Officer. The Contractor must provide with the notification sufficient documentation to support the legally changed name.
- (ii) If the Contractor fails to comply with the requirements of paragraph (g)(1)(i) of this clause, or fails to perform the agreement at paragraph (g)(1)(i)(C) of this clause, and, in the absence of a properly executed novation or change-of-name agreement, the CCR information that shows the Contractor to be other than the Contractor indicated in the contract will be considered to be incorrect information within the meaning of the "Suspension of Payment" paragraph of the electronic funds transfer (EFT) clause of this contract.

(2) The Contractor shall not change the name or address for EFT payments or manual payments, as appropriate, in the CCR record to reflect an assignee for the purpose of assignment of claims (see FAR Subpart 32.8, Assignment of Claims). Assignees shall be separately registered in the CCR database. Information provided to the Contractor's CCR record that indicates payments, including those made by EFT, to an ultimate recipient other than that Contractor will be considered to be incorrect information within the meaning of the "Suspension of payment" paragraph of the EFT clause of this contract.

(g) Offerors and Contractors may obtain information on registration and annual confirmation requirements via the Internet at <a href="http://www.ccr.gov">http://www.ccr.gov</a> or by calling 1-888-227-2423, or 269-961-5757.

(End of clause)

## I-10 52.208-8 Required Sources for Helium and Helium Usage Data (Apr 2002)

(a) Definitions.

"Bureau of Land Management," as used in this clause, means the Department of the Interior, Bureau of Land Management, Amarillo Field Office, Helium Operations, located at 801 South Fillmore Street, Suite 500, Amarillo, TX 79101-3545.

"Federal helium supplier" means a private helium vendor that has an in-kind crude helium sales contract with the Bureau of Land Management (BLM) and that is on the BLM Amarillo Field Office's Authorized List of Federal Helium Suppliers available via the Internet at <a href="http://www.nm.blm.gov/www/amfo/amfo\_home.html">http://www.nm.blm.gov/www/amfo/amfo\_home.html</a>.

"Major helium requirement" means an estimated refined helium requirement greater than 200,000 standard cubic feet (scf) (measured at 14.7 pounds per square inch absolute pressure and 70 degrees Fahrenheit temperature) of gaseous helium or 7510 liters of liquid helium delivered to a helium use location per year.

- (b) Requirements --
  - (1) Contractors must purchase major helium requirements from Federal helium suppliers, to the extent that supplies are available.
  - (2) The Contractor shall provide to the Contracting Officer the following data within 10 days after the Contractor or Subcontractor receives a delivery of helium from a Federal helium supplier --
    - (i) The name of the supplier;

- (ii) The amount of helium purchased;
- (iii) The delivery date(s); and
- (iv) The location where the helium was used.
- (c) Subcontracts -- The Contractor shall insert this clause, including this paragraph (c), in any subcontract or order that involves a major helium requirement.

  (End of Clause)

# I-11 52.209-6 Protecting the Government's Interest When Subcontracting with Contractors Debarred, Suspended or Proposed for Debarment (Jul 1995)

- (a) The Government suspends or debars Contractors to protect the Government's interests. The Contractor shall not enter into any subcontract in excess of \$25,000 with a Contractor that is debarred, suspended, or proposed for debarment unless there is a compelling reason to do so.
- (b) The Contractor shall require each proposed first-tier Subcontractor, whose subcontract will exceed \$25,000, to disclose to the Contractor, in writing, whether as of the time of award of the subcontract, the Subcontractor, or its principals, is or is not debarred, suspended, or proposed for debarment by the Federal Government.
- (c) A corporate officer or a designee of the Contractor shall notify the Contracting Officer, in writing, before entering into a subcontract with a party that is debarred, suspended, or proposed for debarment (see FAR 9.404 for information on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs). The notice must include the following:
  - (1) The name of the Subcontractor.
  - (2) The Contractor's knowledge of the reasons for the Subcontractor being on the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.
  - (3) The compelling reason(s) for doing business with the Subcontractor notwithstanding its inclusion on the List of Parties Excluded From Federal Procurement and Nonprocurement Programs.
  - (4) The systems and procedures the Contractor has established to ensure that it is fully protecting the Government's interests when dealing with such Subcontractor in view of the specific basis for the party's debarment, suspension, or proposed debarment.

(End of Clause)

Modification M412

# I-12 52.211-5 Material Requirements (Aug 2000)

(a) Definitions. As used in this clause --

"New" means composed of previously unused components, whether manufactured from virgin material, recovered material in the form of raw material, or materials and by-products generated from, and reused within, an original manufacturing process; *provided* that the supplies meet contract requirements, including but not limited to, performance, reliability, and life expectancy.

"Reconditioned" means restored to the original normal operating condition by readjustments and material replacement.

"Recovered material" means waste materials and by-products recovered or diverted from solid waste, but the term does not include those materials and by-products generated from, and commonly reused within, an original manufacturing process.

"Remanufactured" means factory rebuilt to original specifications.

"Virgin material" means--

- (1) Previously unused raw material, including previously unused copper, aluminum, lead, zinc, iron, other metal or metal ore; or
- (2) Any undeveloped resource that is, or with new technology will become, a source of raw materials.
- (b) Unless this contract otherwise requires virgin material or supplies composed of or manufactured from virgin material, the Contractor shall provide supplies that are new, reconditioned, or remanufactured, as defined in this clause.
- (c) A proposal to provide unused former Government surplus property shall include a complete description of the material, the quantity, the name of the Government agency from which acquired, and the date of acquisition.
- (d) A proposal to provide used, reconditioned, or remanufactured supplies shall include a detailed description of such supplies and shall be submitted to the Contracting Officer for approval.
- (e) Used, reconditioned, or remanufactured supplies, or unused former Government surplus property, may be used in contract performance if the Contractor has proposed the use of such supplies, and the Contracting Officer has authorized their use.

(End of Clause)

Modification M412

# I-13 52.215-8 Order of Precedence -- Uniform Contract Format (Oct 1997)

Any inconsistency in this solicitation or contract shall be resolved by giving precedence in the following order:

- (a) The Schedule (excluding the specifications).
- (b) Representations and other instructions.
- (c) Contract clauses.
- (d) Other documents, exhibits, and attachments.
- (e) The specifications.

(End of Clause)

# I-14 52.215-12 Subcontractor Cost or Pricing Data (Oct 1997)

- (a) Before awarding any subcontract expected to exceed the threshold for submission of cost or pricing data at FAR 15.403-4, on the date of agreement on price or the date of award, whichever is later; or before pricing any subcontract modification involving a pricing adjustment expected to exceed the threshold for submission of cost or pricing data at FAR 15.403-4, the Contractor shall require the Subcontractor to submit cost or pricing data (actually or by specific identification in writing), unless an exception under FAR 15.403-1 applies.
- (b) The Contractor shall require the Subcontractor to certify in substantially the form prescribed in FAR 15.406-2 that, to the best of its knowledge and belief, the data submitted under paragraph (a) of this clause were accurate, complete, and current as of the date of agreement on the negotiated price of the subcontract or subcontract modification.
- (c) In each subcontract that exceeds the threshold for submission of cost or pricing data at FAR 15.403-4, when entered into, the Contractor shall insert either --
  - (1) The substance of this clause, including this paragraph (c), if paragraph (a) of this clause requires submission of cost or pricing data for the subcontract; or
  - (2) The substance of the clause at FAR 52.215-13, Subcontractor Cost or Pricing Data -- Modifications.

(End of Clause)

# I-15 52.215-13 Subcontractor Cost or Pricing Data – Modifications (Oct 1997)

(a) The requirements of paragraphs (b) and (c) of this clause shall --

(1) Become operative only for any modification to this contract involving a pricing adjustment expected to exceed the threshold for submission of cost or pricing data at FAR 15.403-4; and

- (2) Be limited to such modifications.
- (b) Before awarding any subcontract expected to exceed the threshold for submission of cost or pricing data at FAR 15.403-4, on the date of agreement on price or the date of award, whichever is later; or before pricing any subcontract modification involving a pricing adjustment expected to exceed the threshold for submission of cost or pricing data at FAR 15.403-4, the Contractor shall require the Subcontractor to submit cost or pricing data (actually or by specific identification in writing), unless an exception under FAR 15.403-1 applies.
- (c) The Contractor shall require the Subcontractor to certify in substantially the form prescribed in FAR 15.406-2 that, to the best of its knowledge and belief, the data submitted under paragraph (b) of this clause were accurate, complete, and current as of the date of agreement on the negotiated price of the subcontract or subcontract modification.
- (d) The Contractor shall insert the substance of this clause, including this paragraph (d), in each subcontract that exceeds the threshold for submission of cost or pricing data at FAR 15.403-4 on the date of agreement on price or the date of award, whichever is later.

(End of Clause)

## I-16 52.219-8 Utilization of Small Business Concerns (Oct 2000)

- (a) It is the policy of the United States that small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns shall have the maximum practicable opportunity to participate in performing contracts let by any Federal agency, including contracts and subcontracts for subsystems, assemblies, components, and related services for major systems. It is further the policy of the United States that its prime Contractors establish procedures to ensure the timely payment of amounts due pursuant to the terms of their subcontracts with small business concerns, veteran-owned small business concerns, service-disabled veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, and women-owned small business concerns.
- (b) The Contractor hereby agrees to carry out this policy in the awarding of subcontracts to the fullest extent consistent with efficient contract performance. The Contractor further agrees to cooperate in any studies or surveys as may be conducted by the United States Small Business Administration or the awarding agency of the United States as may be necessary to determine the extent of the Contractor's compliance with this clause.

(c) *Definitions*. As used in this contract--

"HUBZone small business concern" means a small business concern that appears on the List of Qualified HUBZone Small Business Concerns maintained by the Small Business Administration.

"Service-disabled veteran-owned small business concern"-

- (1) Means a small business concern-
  - (i) Not less than 51 percent of which is owned by one or more service-disabled veterans or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more service-disabled veterans; and
  - (ii) The management and daily business operations of which are controlled by one or more service-disabled veterans or, in the case of a veteran with permanent and severe disability, the spouse or permanent caregiver of such veteran.
- (2) Service-disabled veteran means a veteran, as defined in 38 U.S.C. 101(2), with a disability that is service-connected, as defined in 38 U.S.C. 101(16).

"Small business concern" means a small business as defined pursuant to Section 3 of the Small Business Act and relevant regulations promulgated pursuant thereto.

"Small disadvantaged business concern" means a small business concern that represents, as part of its offer, that--

- (1) It has received certification as a small disadvantaged business concern consistent with 13 CFR 124, Subpart B;
- (2) No material change in disadvantaged ownership and control has occurred since its certification;
- (3) Where the concern is owned by one or more individuals, the net worth of each individual upon whom the certification is based does not exceed \$750,000 after taking into account the applicable exclusions set forth at 13 CFR 124.104(c)(2); and
- (4) It is identified, on the date of its representation, as a certified small disadvantaged business in the database maintained by the Small Business Administration (PRO-Net).

<sup>&</sup>quot;Veteran-owned small business concern" means a small business concern-

- (1) Not less than 51 percent of which is owned by one or more veterans (as defined at 38 U.S.C. 101(2)) or, in the case of any publicly owned business, not less than 51 percent of the stock of which is owned by one or more veterans; and
- (2) The management and daily business operations of which are controlled by one or more veterans.

"Women-owned small business concern" means a small business concern-

- (1) That is at least 51 percent owned by one or more women, or, in the case of any publicly owned business, at least 51 percent of the stock of which is owned by one or more women; and
- (2) Whose management and daily business operations are controlled by one or more women.
- (d) Contractors acting in good faith may rely on written representations by their Subcontractors regarding their status as a small business concern, a veteranowned small business concern, a service-disabled veteran-owned small business concern, a HUBZone small business concern, a small disadvantaged business concern, or a women-owned small business concern.

(End of clause)

# I-17 52.219-9 Small Business Subcontracting Plan (Jan 2002)

- (a) This clause does not apply to small business concerns.
- (b) *Definitions*. As used in this clause--

"Commercial item" means a product or service that satisfies the definition of commercial item in section 2.101 of the Federal Acquisition Regulation.

"Commercial plan" means a subcontracting plan (including goals) that covers the offeror's fiscal year and that applies to the entire production of commercial items sold by either the entire company or a portion thereof (*e.g.*, division, plant, or product line).

"Individual contract plan" means a subcontracting plan that covers the entire contract period (including option periods), applies to a specific contract, and has goals that are based on the offeror's planned subcontracting in support of the specific contract except that indirect costs incurred for common or joint purposes may be allocated on a prorated basis to the contract.

"Master plan" means a subcontracting plan that contains all the required elements of an individual contract plan, except goals, and may be incorporated into individual contract plans, provided the master plan has been approved.

"Subcontract" means any agreement (other than one involving an employeremployee relationship) entered into by a Federal Government prime Contractor or Subcontractor calling for supplies or services required for performance of the contract or subcontract.

- (c) The offeror, upon request by the Contracting Officer, shall submit and negotiate a subcontracting plan, where applicable, that separately addresses subcontracting with small business concerns, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business concerns, small disadvantaged business, and with women-owned small business concerns. If the offeror is submitting an individual contract plan, the plan must separately address subcontracting with small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns with a separate part for the basic contract and separate parts for each option (if any). The plan shall be included in and made a part of the resultant contract. The subcontracting plan shall be negotiated within the time specified by the Contracting Officer. Failure to submit and negotiate the subcontracting plan shall make the offeror ineligible for award of a contract.
- (d) The offeror's subcontracting plan shall include the following:
  - (1) Goals, expressed in terms of percentages of total planned subcontracting dollars, for the use of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns as Subcontractors. The offeror shall include all subcontracts that contribute to contract performance, and may include a proportionate share of products and services that are normally allocated as indirect costs.

## (2) A statement of --

- (i) Total dollars planned to be subcontracted for an individual contract plan; or the offeror's total projected sales, expressed in dollars, and the total value of projected subcontracts to support the sales for a commercial plan;
- (ii) Total dollars planned to be subcontracted to small business concerns;
- (iii) Total dollars planned to be subcontracted to veteran-owned small business concerns:

- (iv) Total dollars planned to be subcontracted to service-disabled veteran-owned small business;
- (v) Total dollars planned to be subcontracted to HUBZone small business concerns;
- (vi) Total dollars planned to be subcontracted to small disadvantaged business concerns; and
- (vii) Total dollars planned to be subcontracted to women-owned small business concerns.
- (3) A description of the principal types of supplies and services to be subcontracted, and an identification of the types planned for subcontracting to --
  - (i) Small business concerns,
  - (ii) Veteran-owned small business concerns;
  - (iii) Service-disabled veteran-owned small business concerns;
  - (iii) HUBZone small business concerns;
  - (iv) Small disadvantaged business concerns, and
  - (v) Women-owned small business concerns.
- (4) A description of the method used to develop the subcontracting goals in paragraph (d)(1) of this clause.
- (5) A description of the method used to identify potential sources for solicitation purposes (e.g., existing company source lists, the Procurement Marketing and Access Network (PRO-Net) of the Small Business Administration (SBA), veterans service organizations, the National Minority Purchasing Council Vendor Information Service, the Research and Information Division of the Minority Business Development Agency in the Department of Commerce, or small, HUBZone, small disadvantaged, and women-owned small business trade associations). A firm may rely on the information contained in PRO-Net as an accurate representation of a concern's size and ownership characteristics for the purposes of maintaining a small, veteran-owned small, service-disabled veteran-owned small, HUBZone small, small disadvantaged, and womenowned small business source list. Use of PRO-Net as its source list does not relieve a firm of its responsibilities (e.g., outreach, assistance, counseling, or publicizing subcontracting opportunities) in this clause.

- (6) A statement as to whether or not the offeror included indirect costs in establishing subcontracting goals, and a description of the method used to determine the proportionate share of indirect costs to be incurred with --
  - (i) Small business concerns;
  - (ii) Veteran-owned small business concerns;
  - (iii) Service-disabled veteran-owned small business concerns;
  - (iv) HUBZone small business concerns;
  - (v) Small disadvantaged business concerns; and
  - (vi) Women-owned small business concerns.
- (7) The name of the individual employed by the offeror who will administer the offeror's subcontracting program, and a description of the duties of the individual.
- (8) A description of the efforts the offeror will make to assure that small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns have an equitable opportunity to compete for subcontracts.
- (9) Assurances that the offeror will include the clause of this contract entitled "Utilization of Small Business Concerns" in all subcontracts that offer further subcontracting opportunities, and that the offeror will require all Subcontractors (except small business concerns) that receive subcontracts in excess of \$500,000 (\$1,000,000 for construction of any public facility) to adopt a plan similar to the plan that complies with the requirements of this clause.
- (10) Assurances that the offeror will --
  - (i) Cooperate in any studies or surveys as may be required;
  - (ii) Submit periodic reports so that the Government can determine the extent of compliance by the offeror with the subcontracting plan;
  - (iii) Submit Standard Form (SF) 294, Subcontracting Report for Individual Contracts, and/or SF 295, Summary Subcontract Report, in accordance with the paragraph (j) of this clause. The reports shall provide information on subcontract awards to small business concerns, veteran-owned small business concerns, service-disabled

veteran-owned small business concerns, HUBZone small business concerns, small disadvantaged business concerns, women-owned small business concerns, and Historically Black Colleges and Universities and Minority Institutions. Reporting shall be in accordance with the instructions on the forms or as provided in agency regulations.

- (iv) Ensure that its Subcontractors agree to submit SF 294 and 295.
- (11) A description of the types of records that will be maintained concerning procedures that have been adopted to comply with the requirements and goals in the plan, including establishing source lists; and a description of the offeror's efforts to locate small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns and award subcontracts to them. The records shall include at least the following (on a plant-wide or company-wide basis, unless otherwise indicated):
  - (i) Source lists (e.g., PRO-Net), guides, and other data that identify small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns.
  - (ii) Organizations contacted in an attempt to locate sources that are small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, or women-owned small business concerns.
  - (iii) Records on each subcontract solicitation resulting in an award of more than \$100,000, indicating --
    - (A) Whether small business concerns were solicited and if not, why not;
    - (B) Whether veteran-owned small business concerns were solicited and, if not, why not;
    - (C) Whether service-disabled veteran-owned small business concerns were solicited and, if not, why not;
    - (D) Whether HUBZone small business concerns were solicited and, if not, why not;

- (E) Whether small disadvantaged business concerns were solicited and if not, why not;
- (F) Whether women-owned small business concerns were solicited and if not, why not; and
- (G) If applicable, the reason award was not made to a small business concern.
- (iv) Records of any outreach efforts to contact --
  - (A) Trade associations;
  - (B) Business development organizations;
  - (C) Conferences and trade fairs to locate small, HUBZone small, small disadvantaged, and women-owned small business sources; and
  - (D) Veterans service organizations.
- (v) Records of internal guidance and encouragement provided to buyers through --
  - (A) Workshops, seminars, training, etc., and
  - (B) Monitoring performance to evaluate compliance with the program's requirements.
- (vi) On a contract-by-contract basis, records to support award data submitted by the offeror to the Government, including the name, address, and business size of each Subcontractor. Contractors having commercial plans need not comply with this requirement.
- (e) In order to effectively implement this plan to the extent consistent with efficient contract performance, the Contractor shall perform the following functions:
  - (1) Assist small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns by arranging solicitations, time for the preparation of bids, quantities, specifications, and delivery schedules so as to facilitate the participation by such concerns. Where the Contractor's lists of potential small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business Subcontractors are excessively long,

reasonable effort shall be made to give all such small business concerns an opportunity to compete over a period of time.

- (2) Provide adequate and timely consideration of the potentialities of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business concerns in all "make-or-buy" decisions.
- (3) Counsel and discuss subcontracting opportunities with representatives of small business, veteran-owned small business, service-disabled veteran-owned small business, HUBZone small business, small disadvantaged business, and women-owned small business firms.
- (4) Provide notice to Subcontractors concerning penalties and remedies for misrepresentations of business status as small, veteran-owned small business, HUBZone small, small disadvantaged or women-owned small business for the purpose of obtaining a subcontract that is to be included as part or all of a goal contained in the Contractor's subcontracting plan.
- (f) A master plan on a plant or division-wide basis that contains all the elements required by paragraph (d) of this clause, except goals, may be incorporated by reference as a part of the subcontracting plan required of the offeror by this clause; provided --
  - (1) The master plan has been approved;
  - (2) The offeror ensures that the master plan is updated as necessary and provides copies of the approved master plan, including evidence of its approval, to the Contracting Officer; and
  - (3) Goals and any deviations from the master plan deemed necessary by the Contracting Officer to satisfy the requirements of this contract are set forth in the individual subcontracting plan.
- (g) A commercial plan is the preferred type of subcontracting plan for Contractors furnishing commercial items. The commercial plan shall relate to the offeror's planned subcontracting generally, for both commercial and Government business, rather than solely to the Government contract. Commercial plans are also preferred for Subcontractors that provide commercial items under a prime contract, whether or not the prime Contractor is supplying a commercial item.
- (h) Prior compliance of the offeror with other such subcontracting plans under previous contracts will be considered by the Contracting Officer in determining the responsibility of the offeror for award of the contract.

- (i) The failure of the Contractor or Subcontractor to comply in good faith with --
  - (1) The clause of this contract entitled "Utilization of Small Business Concerns;" or
  - (2) An approved plan required by this clause, shall be a material breach of the contract.
- (j) The Contractor shall submit the following reports:
  - (1) Standard Form 294, Subcontracting Report for Individual Contracts. This report shall be submitted to the Contracting Officer semiannually and at contract completion. The report covers subcontract award data related to this contract. This report is not required for commercial plans.
  - (2) Standard Form 295, Summary Subcontract Report. This report encompasses all the contracts with the awarding agency. It must be submitted semi-annually for contracts with the Department of Defense and annually for contracts with civilian agencies. If the reporting activity is covered by a commercial plan, the reporting activity must report annually all subcontract awards under that plan. All reports submitted at the close of each fiscal year (both individual and commercial plans) shall include a breakout, in the Contractor's format, of subcontract awards, in whole dollars, to small disadvantaged business concerns by North American Industry Classification System (NAICS) Industry Subsector. For a commercial plan, the Contractor may obtain from each of its Subcontractors a predominant NAICS Industry Subsector and report all awards to that Subcontractor under its predominant NAICS Industry Subsector.

(End of Clause)

# I-18 52.219-16 Liquidated Damages Subcontracting Plan (Jan 1999)

- (a) "Failure to make a good faith effort to comply with the subcontracting plan", as used in this clause, means a willful or intentional failure to perform in accordance with the requirements of the subcontracting plan approved under the clause in this contract entitled "Small Business Subcontracting Plan," or willful or intentional action to frustrate the plan.
- (b) Performance shall be measured by applying the percentage goals to the total actual subcontracting dollars or, if a commercial plan is involved, to the pro rata share of actual subcontracting dollars attributable to Government contracts covered by the commercial plan. If, at contract completion, or in the case of a commercial plan, at the close of the fiscal year for which the plan is applicable, the Contractor has failed to meet its subcontracting goals and the Contracting Officer decides in accordance with paragraph (c) of this clause that the Contractor failed to make a good faith effort to comply with its subcontracting plan,

Modification M412

established in accordance with the clause in this contract entitled "Small Business Subcontracting Plan," the Contractor shall pay the Government liquidated damages in an amount stated. The amount of probable damages attributable to the Contractor's failure to comply, shall be an amount equal to the actual dollar amount by which the Contractor failed to achieve each subcontract goal.

- (c) Before the Contracting Officer makes a final decision that the Contractor has failed to make such good faith effort, the Contracting Officer shall give the Contractor written notice specifying the failure and permitting the Contractor to demonstrate what good faith efforts have been made and to discuss the matter. Failure to respond to the notice may be taken as an admission that no valid explanation exists. If, after consideration of all the pertinent data, the Contracting Officer finds that the Contractor failed to make a good faith effort to comply with the subcontracting plan, the Contracting Officer shall issue a final decision to that effect and require that the Contractor pay the Government liquidated damages as provided in paragraph (b) of this clause.
- (d) With respect to commercial plans; the Contracting Officer who approved the plan will perform the functions of the Contracting Officer under this clause on behalf of all agencies with contracts covered by that commercial plan.
- (e) The Contractor shall have the right of appeal, under the clause in this contract entitled, Disputes, from any final decision of the Contracting Officer.
- (f) Liquidated damages shall be in addition to any other remedies that the Government may have.

(End of Clause)

## I-19 52.222-1 Notice to the Government of Labor Disputes (Feb 1997)

If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately give notice, including all relevant information, to the Contracting Officer. (End of Clause)

# I-20 52.222-3 Convict Labor (Aug 1996)

The Contractor agrees not to employ in the performance of this contract any person undergoing a sentence of imprisonment which has been imposed by any court of a State, the District of Columbia, the Commonwealth of Puerto Rico, the Virgin Islands, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or the Trust Territory of the Pacific Islands. This limitation, however, shall not prohibit the employment by the Contractor in the performance of this contract of persons on parole or probation to work at paid employment during the term of their sentence or persons who have been pardoned or who have served their terms. Nor shall it prohibit the employment by the Contractor in the performance of this contract of persons confined for violation of the laws of any of the States, the District of Columbia, the Commonwealth of Puerto

Modification M412

Rico, the Virgin Islands, Guam, American Samoa, the Commonwealth of the Northern Mariana Islands, or the Trust Territory of the Pacific Islands who are authorized to work at paid employment in the community under the laws of such jurisdiction, if --

(a)

- (1) The worker is paid or is in an approved work training program on a voluntary basis;
- (2) Representatives of local union central bodies or similar labor union organizations have been consulted;
- (3) Such paid employment will not result in the displacement of employed workers, or be applied in skills, crafts, or trades in which there is a surplus of available gainful labor in the locality, or impair existing contracts for services; and
- (4) The rates of pay and other conditions of employment will not be less than those paid or provided for work of a similar nature in the locality in which the work is being performed; and
- (b) The Attorney General of the United States has certified that the work-release laws or regulations of the jurisdiction involved are in conformity with the requirements of Executive Order 11755, as amended by Executive Orders 12608 and 12943.

  (End of Clause)

# I-21 52.222-4 Contract Work Hours and Safety Standards Act -- Overtime Compensation (Sep 2000)

- (a) Overtime requirements. No Contractor or Subcontractor employing laborers or mechanics (see Federal Acquisition Regulation 22.300) shall require or permit them to work over 40 hours in any workweek unless they are paid at least 1 and 1/2 times the basic rate of pay for each hour worked over 40 hours.
- (b) Violation; liability for unpaid wages; liquidated damages. The responsible Contractor and Subcontractor are liable for unpaid wages if they violate the terms in paragraph (a) of this clause. In addition, the Contractor and Subcontractor are liable for liquidated damages payable to the Government. The Contracting Officer will assess liquidated damages at the rate of \$10 per affected employee for each calendar day on which the employer required or permitted the employee to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the Contract Work Hours and Safety Standards Act.
- (c) Withholding for unpaid wages and liquidated damages. The Contracting Officer will withhold from payments due under the contract sufficient funds required to satisfy any Contractor or Subcontractor liabilities for unpaid wages and liquidated

Modification M412

damages. If amounts withheld under the contract are insufficient to satisfy Contractor or Subcontractor liabilities, the Contracting Officer will withhold payments from other Federal or Federally assisted contracts held by the same Contractor that are subject to the Contract Work Hours and Safety Standards Act.

- (d) Payrolls and basic records.
  - (1) The Contractor and its Subcontractors shall maintain payrolls and basic payroll records for all laborers and mechanics working on the contract during the contract and shall make them available to the Government until 3 years after contract completion. The records shall contain the name and address of each employee, social security number, labor classifications, hourly rates of wages paid, daily and weekly number of hours worked, deductions made, and actual wages paid. The records need not duplicate those required for construction work by Department of Labor regulations at 29 CFR 5.5(a)(3) implementing the Davis-Bacon Act.
  - (2) The Contractor and its Subcontractors shall allow authorized representatives of the Contracting Officer or the Department of Labor to inspect, copy, or transcribe records maintained under paragraph (d)(1) of this clause. The Contractor or Subcontractor also shall allow authorized representatives of the Contracting Officer or Department of Labor to interview employees in the workplace during working hours.
- (e) Subcontracts. The Contractor shall insert the provisions set forth in paragraphs (a) through (d) of this clause in subcontracts exceeding \$100,000 and require Subcontractors to include these provisions in any lower-tier subcontracts. The Contractor shall be responsible for compliance by any Subcontractor or lower-tier Subcontractor with the provisions set forth in paragraphs (a) through (d) of this clause.

(End of Clause)

## I-22 52.222-11 Subcontracts (Labor Standards) (Feb 1988) (DEVIATION)

(a) The Contractor or Subcontractor shall insert in any domestic construction subcontracts the clauses entitled Davis-Bacon Act, Contract Work Hours and Safety Standards Act -- Overtime Compensation, Apprentices and Trainees, Payrolls and Basic Records, Compliance with Copeland Act Requirements, Withholding of Funds, Subcontracts (Labor Standards), Contract Termination -- Debarment, Disputes Concerning Labor Standards, Compliance with Davis-Bacon and Related Act Regulations, and Certification of Eligibility, and such other clauses as the Contracting Officer may, by appropriate instructions, require, and also a clause requiring Subcontractors to include these clauses in any lower tier subcontracts. The Prime Contractor shall be responsible for compliance by any Subcontractor or lower tier Subcontractor with all the contract clauses cited in this paragraph.

Modification M412

(b)

- (1) Within 14 days after award of the contract, the Contractor shall deliver to the Contracting Officer a completed Statement and Acknowledgment Form (SF 1413) for each subcontract, including the Subcontractor's signed and dated acknowledgment that the clauses set forth in paragraph (a) of this clause have been included in the subcontract.
- (2) Within 14 days after the award of any subsequently awarded subcontract the Contractor shall deliver to the Contracting Officer an updated completed SF 1413 for such additional subcontract.

  (End of Clause)

# I-23 52.222-21 Prohibition of Segregated Facilities (Feb 1999)

- "Segregated facilities," as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees, that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between sexes.
- (b) The Contractor agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Contractor agrees that a breach of this clause is a violation of the Equal Opportunity clause in the contract
- (c) The Contractor shall include this clause in every subcontract and purchase order that is subject to the Equal Opportunity clause of this contract.

  (End of clause)

#### **I–24** 52.222-26 Equal Opportunity (Apr 2002)

- (a) *Definition*. "United States," as used in this clause, means the 50 States, the District of Columbia, Puerto Rico, the Northern Mariana Islands, American Samoa, Guam, the U.S. Virgin Islands, and Wake Island.
- (b) If, during any 12-month period (including the 12 months preceding the award of this contract), the Contractor has been or is awarded nonexempt Federal contracts and/or subcontracts that have an aggregate value in excess of \$10,000, the Contractor shall comply with paragraphs (b)(1) through (b)(11) of this clause, except for work performed outside the United States by employees who were not

recruited within the United States. Upon request, the Contractor shall provide information necessary to determine the applicability of this clause.

- (1) The Contractor shall not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. However, it shall not be a violation of this clause for the Contractor to extend a publicly announced preference in employment to Indians living on or near an Indian reservation, in connection with employment opportunities on or near an Indian reservation, as permitted by 41 CFR 60-1.5.
- (2) The Contractor shall take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, or national origin. This shall include, but not be limited to --
  - (i) Employment;
  - (ii) Upgrading;
  - (iii) Demotion;
  - (iv) Transfer;
  - (v) Recruitment or recruitment advertising;
  - (vi) Layoff or termination;
  - (vii) Rates of pay or other forms of compensation; and
  - (viii) Selection for training, including apprenticeship.
- (3) The Contractor shall post in conspicuous places available to employees and applicants for employment the notices to be provided by the Contracting Officer that explain this clause.
- (4) The Contractor shall, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, state that all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, or national origin.
- (5) The Contractor shall send, to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, the notice to be provided by the Contracting Officer advising the labor union or workers' representative of the Contractor's commitments under this clause, and post copies of the notice in conspicuous places available to employees and applicants for employment.
- (6) The Contractor shall comply with Executive Order 11246, as amended, and the rules, regulations, and orders of the Secretary of Labor.

(7) The Contractor shall furnish to the contracting agency all information required by Executive Order 11246, as amended, and by the rules, regulations, and orders of the Secretary of Labor. The Contractor shall also file Standard Form 100 (EEO-1), or any successor form, as prescribed in 41 CFR part 60-1. Unless the Contractor has filed within the 12 months preceding the date of contract award, the Contractor shall, within 30 days after contract award, apply to either the regional Office of Federal Contract Compliance Programs (OFCCP) or the local office of the Equal Employment Opportunity Commission for the necessary forms.

- (8) The Contractor shall permit access to its premises, during normal business hours, by the contracting agency or the (OFCCP) for the purpose of conducting on-site compliance evaluations and complaint investigations. The Contractor shall permit the Government to inspect and copy any books, accounts, records (including computerized records), and other material that may be relevant to the matter under investigation and pertinent to compliance with Executive Order 11246, as amended, and rules and regulations that implement the Executive Order.
- (9) If the OFCCP determines that the Contractor is not in compliance with this clause or any rule, regulation, or order of the Secretary of Labor, this contract may be canceled, terminated, or suspended in whole or in part and the Contractor may be declared ineligible for further Government contracts, under the procedures authorized in Executive Order 11246, as amended. In addition, sanctions may be imposed and remedies invoked against the Contractor as provided in Executive Order 11246, as amended, in the rules, regulations, and orders of the Secretary of Labor, or as otherwise provided by law.
- (10) The Contractor shall include the terms and conditions of subparagraphs (b)(1) through (11) of this clause in every subcontract or purchase order that is not exempted by the rules, regulations, or orders of the Secretary of Labor issued under Executive Order 11246, as amended, so that these terms and conditions will be binding upon each Subcontractor or vendor.
- (11) The Contractor shall take such action with respect to any subcontract or purchase order as the Contracting Officer may direct as a means of enforcing these terms and conditions, including sanctions for noncompliance; provided, that if the Contractor becomes involved in, or is threatened with, litigation with a Subcontractor or vendor as a result of any direction, the Contractor may request the United States to enter into the litigation to protect the interests of the United States.
- (c) Notwithstanding any other clause in this contract, disputes relative to this clause will be governed by the procedures in 41 CFR 60-1.1.

  (End of Clause)

Modification M412

#### I-25 52.222-29 Notification of Visa Denial (Feb 1999)

It is a violation of Executive Order 11246, as amended, for a Contractor to refuse to employ any applicant or not to assign any person hired in the United States, on the basis that the individual's race, color, religion, sex, or national origin is not compatible with the policies of the country where the work is to be performed or for whom the work will be performed (41 CFR 60-1.10). The Contractor agrees to notify the U.S. Department of State, Assistant Secretary, Bureau of Political-Military Affairs (PM) 2201 C Street NW, Room 7325, Washington, DC 20520, and the U.S. Department of Labor, Deputy Assistant Secretary for Federal Contract Compliance, when it has knowledge of any employee or potential employee being denied an entry visa to a country in which the Contractor is required to perform this contract, and it believes the denial is attributable to the race, color, religion, sex, or national origin of the employee or potential employee. (End of Clause)

# I–26 52.222-35 Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001)

(a) Definitions. As used in this clause --

"All employment openings" means all positions except executive and top management, those positions that will be filled from within the Contractor's organization, and positions lasting 3 days or less. This term includes full-time employment, temporary employment of more than 3 days duration, and part-time employment.

"Executive and top Management" means any employee-

- (1) Whose primary duty consists of the management of the enterprise in which the individual is employed or of a customarily recognized department or subdivision thereof;
- (2) Who customarily and regularly directs the work of two or more other employees;
- (3) Who has the authority to hire or fire other employees or whose suggestions and recommendations as to the hiring or firing and as to the advancement and promotion or any other change of status of other employees will be given particular weight;
- (4) Who customarily and regularly exercises discretionary powers; and
- (5) Who does not devote more than 20 percent or, in the case of an employee of a retail or service establishment, who does not devote more than 40 percent of total hours of work in the work week to activities that are not directly and closely related to the performance of the work described in

paragraphs (1) through (4) of this definition. This paragraph (5) does not apply in the case of an employee who is in sole charge of an establishment or a physically separated branch establishment, or who owns at least a 20 percent interest in the enterprise in which the individual is employed.

"Other eligible veteran" means any other veteran who served on active duty during a war or in a campaign or expedition for which a campaign badge has been authorized.

"Positions that will be filled from within the Contractor's organization" means employment openings for which the Contractor will give no consideration to persons outside the Contractor's organization (including any affiliates, subsidiaries, and parent companies) and includes any openings the Contractor proposes to fill from regularly established "recall" lists. The exception does not apply to a particular opening once an employer decides to consider applicants outside of its organization.

"Qualified special disabled veteran" means a special disabled veteran who satisfies the requisite skill, experience, education, and other job-related requirements of the employment position such veteran holds or desires, and who, with or without reasonable accommodation, can perform the essential functions of such position.

"Special disabled veteran" means-

- (1) A veteran who is entitled to compensation (or who but for the receipt of military retired pay would be entitled to compensation) under laws administered by the Department of Veterans Affairs for a disability--
  - (i) Rated at 30 percent or more; or
  - (ii) Rated at 10 or 20 percent in the case of a veteran who has been determined under 38 U.S.C. 3106 to have a serious employment handicap (*i.e.*, a significant impairment of the veteran's ability to prepare for, obtain, or retain employment consistent with the veteran's abilities, aptitudes, and interests); or
- (2) A person who was discharged or released from active duty because of a service-connected disability.

"Veteran of the Vietnam era" means a person who -

(1) Served on active duty for a period of more than 180 days and was discharged or released from active duty with other than a dishonorable discharge, if any part of such active duty occurred-

- (i) In the Republic of Vietnam between February 28, 1961, and May 7, 1975; or
- (ii) Between August 5, 1964, and May 7, 1975, in all other cases; or
- (2) Was discharged or released from active duty for a service-connected disability if any part of the active duty was performed---
  - (i) In the Republic of Vietnam between February 28, 1961, and May 7, 1975; or
  - (ii) Between August 5, 1964, and May 7, 1975, in all other cases.

## (b) General.

- (1) The Contractor shall not discriminate against the individual because the individual is a special disabled veteran, a veteran of the Vietnam era, or other eligible veteran, regarding any position for which the employee or applicant for employment is qualified. The Contractor shall take affirmative action to employ, advance in employment, and otherwise treat qualified special disabled veterans, veterans of the Vietnam era, and other eligible veterans without discrimination based upon their disability or veterans' status in all employment practices such as --
  - (i) Recruitment, advertising, and job application procedures;
  - (ii) Hiring, upgrading, promotion, award of tenure, demotion, transfer, layoff, termination, right of return from layoff and rehiring;
  - (iii) Rate of pay or any other form of compensation and changes in compensation;
  - (iv) Job assignments, job classifications, organizational structures, position descriptions, lines of progression, and seniority lists;
  - (v) Leaves of absence, sick leave, or any other leave;
  - (vi) Fringe benefits available by virtue of employment, whether or not administered by the Contractor;
  - (vii) Selection and financial support for training, including apprenticeship, and on-the-job training under 38 U.S.C. 3687, professional meetings, conferences, and other related activities, and selection for leaves of absence to pursue training;

- (viii) Activities sponsored by the Contractor including social or recreational programs; and
- (ix) Any other term, condition, or privilege of employment.
- (2) The Contractor shall comply with the rules, regulations, and relevant orders of the Secretary of Labor issued under the Vietnam Era Veterans' Readjustment Assistance Act of 1972 (the Act), as amended (38 U.S.C. 4211 and 4212).

# (c) Listing openings.

- (1) The Contractor shall immediately list all employment openings that exist at the time of the execution of this contract and those which occur during the performance of this contract, including those not generated by this contract, and including those occurring at an establishment of the Contractor other than the one where the contract is being performed, but excluding those of independently operated corporate affiliates, at an appropriate local public employment service office of the State wherein the opening occurs. Listing employment openings with the U.S. Department of Labor's America's Job Bank shall satisfy the requirement to list jobs with the local employment service office.
- (2) The Contractor shall make the listing of employment openings with the local employment service office at least concurrently with using any other recruitment source or effort and shall involve the normal obligations of placing a bona fide job order, including accepting referrals of veterans and nonveterans. This listing of employment openings does not require hiring any particular job applicant or hiring from any particular group of job applicants and is not intended to relieve the Contractor from any requirements of Executive orders or regulations concerning nondiscrimination in employment.
- (3) Whenever the Contractor becomes contractually bound to the listing terms of this clause, it shall advise the State public employment agency in each State where it has establishments of the name and location of each hiring location in the State. As long as the Contractor is contractually bound to these terms and has so advised the State agency, it need not advise the State agency of subsequent contracts. The Contractor may advise the State agency when it is no longer bound by this contract clause.
- (d) Applicability. This clause does not apply to the listing of employment openings that occur and are filled outside the 50 States, the District of Columbia, the Commonwealth of Puerto Rico, the Commonwealth of the northern Mariana Islands, American Samoa, Guam, the Virgin Islands of the United States, and Wake Island.

(e) Postings.

(1) The Contractor shall post employment notices in conspicuous places that are available to employees and applicants for employment.

- (2) The employment notices shall--
  - (i) State the rights of applicants and employees as well as the Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified employees and applicants who are special disabled veterans, veterans of the Vietnam era, and other eligible veterans; and
  - (ii) Be in a form prescribed by the Deputy Assistant Secretary for Federal Contract Compliance Programs, Department of Labor (Deputy Assistant Secretary of Labor), and provided by or through the Contracting Officer.
- (3) The Contractor shall ensure that applicants or employees who are special disabled veterans are informed of the contents of the notice (*e.g.*, the Contractor may have the notice read to a visually disabled veteran, or may lower the posted notice so that it can be read by a person in a wheel chair).
- (4) The Contractor shall notify each labor union or representative of workers with which it has a collective bargaining agreement, or other contract understanding, that the Contractor is bound by the terms of the Act and is committed to take affirmative action to employ, and advance in employment, qualified special disabled veterans, veterans of the Vietnam Era, and other eligible veterans.
- (f) *Noncompliance*. If the Contractor does not comply with the requirements of this clause, the Government may take appropriate actions under the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act.
- (g) Subcontracts. The Contractor shall insert the terms of this clause in all subcontracts or purchase orders of \$25,000 or more unless exempted by rules, regulations, or orders of the Secretary of Labor. The Contractor shall act as specified by the Deputy Assistant Secretary of Labor to enforce the terms, including action for noncompliance.

(End of Clause)

## I-27 52.222-36 Affirmative Action for Workers with Disabilities (Jun 1998)

(a) General.

(1) Regarding any position for which the employee or applicant for employment is qualified, the Contractor shall not discriminate against any employee or applicant because of physical or mental disability. The Contractor agrees to take affirmative action to employ, advance in employment, and otherwise treat qualified individuals with disabilities without discrimination based upon their physical or mental disability in all employment practices such as --

- (i) Recruitment, advertising, and job application procedures;
- (ii) Hiring, upgrading, promotion, award of tenure, demotion, transfer, layoff, termination, right of return from layoff, and rehiring;
- (iii) Rates of pay or any other form of compensation and changes in compensation;
- (iv) Job assignments, job classifications, organizational structures, position descriptions, lines of progression, and seniority lists;
- (v) Leaves of absence, sick leave, or any other leave;
- (vi) Fringe benefits available by virtue of employment, whether or not administered by the Contractor;
- (vii) Selection and financial support for training, including apprenticeships, professional meetings, conferences, and other related activities, and selection for leaves of absence to pursue training;
- (viii) Activities sponsored by the Contractor, including social or recreational programs; and
- (ix) Any other term, condition, or privilege of employment.
- (2) The Contractor agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor (Secretary) issued under the Rehabilitation Act of 1973 (29 U.S.C. 793) (the Act), as amended.
- (b) Postings.
  - (1) The Contractor agrees to post employment notices stating --
    - (i) The Contractor's obligation under the law to take affirmative action to employ and advance in employment qualified individuals with disabilities; and

- (ii) The rights of applicants and employees.
- (2) These notices shall be posted in conspicuous places that are available to employees and applicants for employment. The Contractor shall ensure that applicants and employees with disabilities are informed of the contents of the notice (*e.g.*, the Contractor may have the notice read to a visually disabled individual, or may lower the posted notice so that it might be read by a person in a wheelchair). The notices shall be in a form prescribed by the Deputy Assistant Secretary for Federal Contract Compliance of the U.S. Department of Labor (Deputy Assistant Secretary) and shall be provided by or through the Contracting Officer.
- (3) The Contractor shall notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the Contractor is bound by the terms of Section 503 of the Act and is committed to take affirmative action to employ, and advance in employment, qualified individuals with physical or mental disabilities.
- (c) *Noncompliance*. If the Contractor does not comply with the requirements of this clause, appropriate actions may be taken under the rules, regulations, and relevant orders of the Secretary issued pursuant to the Act.
- (d) Subcontracts. The Contractor shall include the terms of this clause in every subcontract or purchase order in excess of \$10,000 unless exempted by rules, regulations, or orders of the Secretary. The Contractor shall act as specified by the Deputy Assistant Secretary to enforce the terms, including action for noncompliance.

(End of Clause)

# I-28 52.222-37 Employment Reports on Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001)

- (a) Unless the Contractor is a State or local Government agency, the Contractor shall report at least annually, as required by the Secretary of Labor, on --
  - (1) The number of special disabled veterans, the number of veterans of the Vietnam era, and other eligible veterans in the workforce of the Contractor by job category and hiring location; and
  - (2) The total number of new employees hired during the period covered by the report, and of the total, the number of special disabled veterans, the number of veterans of the Vietnam era, and the number of other eligible veterans; and

- (3) The maximum number and the minimum number of employees of the Contractor during the period covered by the report.
- (b) The Contractor shall report the above items by completing the Form VETS-100, entitled "Federal Contractor Veterans' Employment Report (VETS-100 Report)".
- (c) The Contractor shall submit VETS-100 Reports no later than September 30 of each year beginning September 30, 1988.
- (d) The employment activity report required by paragraph (a)(2) of this clause shall reflect total hires during the most recent 12-month period as of the ending date selected for the employment profile report required by paragraph (a)(1) of this clause. Contractors may select an ending date--
  - (1) As of the end of any pay period between July 1 and August 31 of the year the report is due, or
  - (2) As of December 31, if the Contractor has prior written approval from the Equal Employment Opportunity Commission to do so for purposes of submitting the Employer Information Report EEO-1 (Standard Form 100).
- (e) The Contractor shall base the count of veterans reported according to paragraph (a) of this clause on voluntary disclosure. Each Contractor subject to the reporting requirements at 38 U.S.C. 4212 shall invite all special disabled veterans, veterans of the Vietnam era, and other eligible veterans who wish to benefit under the affirmative action program at 38 U.S.C.4212 to identify themselves to the Contractor. The invitation shall state--
  - (1) That the information is voluntarily provided;
  - (2) That the information will be kept confidential;
  - (3) Disclosure or refusal to provide the information will not subject the applicant or employee to any adverse treatment; and
  - (4) The information will be used only in accordance with the regulations promulgated under 38 U.S.C. 4212.
- (f) The Contractor shall insert the terms of this clause in all subcontracts or purchase orders of \$25,000 or more unless exempted by rules, regulations, or orders of the Secretary of Labor.

(End of Clause)

I–29 52.223-5 Pollution Prevention and Right-to-Know Information (Aug 2003) Alternate I (Aug 2003)

(a) Definitions. As used in this clause—

"Priority chemical" means a chemical identified by the interagency Environmental Leadership Workgroup or, alternatively, by an agency pursuant to Section 503 of Executive Order 13148 of April 21, 2000, Greening the Government through Leadership in Environmental Management.

"Toxic chemical" means a chemical or chemical category in listed in 40 CFR 372.65.

- (b) Executive Order 13148 requires Federal facilities to comply with the provisions of the Emergency Planning and Community Right-to-Know Act of 1986 (EPCRA) (42 U.S.C. 11001-11050) and the Pollution Prevention Act of 1990 (PPA) (42 U.S.C. 13101-13109).
- (c) The Contractor shall provide all information needed by the Federal facility to comply with the following:
  - (1) The emergency planning reporting requirements of Section 302 of EPCRA.
  - (2) The emergency notice requirements of Section 304 of EPCRA
  - (3) The list of Material Safety Data Sheets required by Section 311 of EPCRA
  - (4) The emergency and hazardous chemical inventory forms of Section 312 of EPCRA
  - (5) The toxic chemical release inventory of Section 313 of EPCRA, which includes the reduction and recycling information required by Section 6607 of PPA
  - (6) The toxic chemical, priority chemical, and hazardous substance release and use reduction goals of Section 502 and 503 of Executive Order 13148.
  - (7) The environmental management system as described in Section 401 of E.O. 13148.

(End of Clause)

#### I-30 52.223-10 Waste Reduction Program (Aug 2000)

(a) Definitions. As used in this clause-

"Recycling" means the series of activities, including collection, separation, and processing, by which products or other materials are recovered from the solid

waste stream for use in the form of raw materials in the manufacture of products other than fuel for producing heat or power by combustion.

"Waste prevention" means any change in the design, manufacturing, purchase, or use of materials or products (including packaging) to reduce their amount or toxicity before they are discarded. Waste prevention also refers to the reuse of products or materials.

"Waste reduction" means preventing or decreasing the amount of waste being generated through waste prevention, recycling, or purchasing recycled and environmentally preferable products.

(b) Consistent with the requirements of Section 701 of Executive Order 13101, the Contractor shall establish a program to promote cost-effective waste reduction in all operations and facilities covered by this contract. The Contractor's programs shall comply with applicable Federal, State, and local requirements, specifically including Section 6002 of the Resource Conservation and Recovery Act (42 U.S.C. 6962, et seq.) and implementing regulations (40 CFR part 247).

(End of Clause)

# I-31 52.223-12 Refrigeration Equipment and Air Conditioners (May 1995)

The Contractor shall comply with the applicable requirements of Sections 608 and 609 of the Clean Air Act (42 U.S.C. 7671g and 7671h) as each or both apply to this contract. (End of Clause)

## I-32 52.224-1 Privacy Act Notification (Apr 1984)

The Contractor will be required to design, develop, or operate a system of records on individuals, to accomplish an agency function subject to the Privacy Act of 1974, Public Law 93-579, December 31, 1974 (5 U.S.C.552a) and applicable agency regulations. Violation of the Act may involve the imposition of criminal penalties.

(End of Clause)

#### I-33 52.224-2 Privacy Act (Apr 1984)

- (a) The Contractor agrees to --
  - (1) Comply with the Privacy Act of 1974 (the Act) and the agency rules and regulations issued under the Act in the design, development, or operation of any system of records on individuals to accomplish an agency function when the contract specifically identifies --
    - (i) The systems of records; and

- (ii) The design, development, or operation work that the Contractor is to perform;
- (2) Include the Privacy Act notification contained in this contract in every solicitation and resulting subcontract and in every subcontract awarded without a solicitation, when the work statement in the proposed subcontract requires the redesign, development, or operation of a system of records on individuals that is subject to the Act; and
- (3) Include this clause, including this subparagraph (3), in all subcontracts awarded under this contract which requires the design, development, or operation of such a system of records.
- (b) In the event of violations of the Act, a civil action may be brought against the agency involved when the violation concerns the design, development, or operation of a system of records on individuals to accomplish an agency function, and criminal penalties may be imposed upon the officers or employees of the agency when the violation concerns the operation of a system of records on individuals to accomplish an agency function. For purposes of the Act, when the contract is for the operation of a system of records on individuals to accomplish an agency function, the Contractor is considered to be an employee of the agency.

(c)

- (1) "Operation of a system of records," as used in this clause, means performance of any of the activities associated with maintaining the system of records, including the collection, use, and dissemination of records.
- (2) "Record," as used in this clause, means any item, collection, or grouping of information about an individual that is maintained by an agency, including, but not limited to, education, financial transactions, medical history, and criminal or employment history and that contains the person's name, or the identifying number, symbol, or other identifying particular assigned to the individual, such as a fingerprint or voiceprint or a photograph.
- (3) "System of records on individuals," as used in this clause, means a group of any records under the control of any agency from which information is retrieved by the name of the individual or by some identifying number, symbol, or other identifying particular assigned to the individual.

  (End of Clause)

#### **I–34 52.225-1 Buy American Act - Supplies (Jun 2003)**

(a) *Definitions*. As used in this clause--

Component" means an article, material, or supply incorporated directly into an end product.

"Cost of components" means--

- (1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the end product (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or
- (2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the end product.

"Domestic end product" means--

- (1) An unmanufactured end product mined or produced in the United States; or
- (2) An end product manufactured in the United States, if the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind as those that the agency determines are not mined, produced, or manufactured in sufficient and reasonably available commercial quantities of a satisfactory quality are treated as domestic. Scrap generated, collected, and prepared for processing in the United States is considered domestic.

"End product" means those articles, materials, and supplies to be acquired under the contract for pubic use.

"Foreign end product" means an end product other than a domestic end product.

"United States" means the 50 States, the District of Columbia, and outlying areas.

- (b) The Buy American Act (41 U.S.C. 10a-10d) provides a preference for domestic end products for supplies acquired for use in the United States.
- (c) Offerors may obtain from the Contracting Officer a list of foreign articles that the Contracting Officer will treat as domestic for this contract.
- (d) The Contractor shall deliver only domestic end products except to the extent that it specified delivery of foreign end products in the provision of the solicitation entitled "Buy American Act Certificate."

(End of clause)

# I-35 52.225-9 Buy American Act-Construction Materials (Jun 2003)

(a) *Definitions*. As used in this clause--

"Component" means an article, material, or supply incorporated directly into a construction material.

"Construction material" means an article, material, or supply brought to the construction site by the Contractor or a Subcontractor for incorporation into the building or work. The term also includes an item brought to the site preassembled from articles, materials, or supplies. However, emergency life safety systems, such as emergency lighting, fire alarm, and audio evacuation systems, that are discrete systems incorporated into a public building or work and that are produced as complete systems, are evaluated as a single and distinct construction material regardless of when or how the individual parts or components of those systems are delivered to the construction site. Materials purchased directly by the Government are supplies, not construction material.

# "Cost of components" means--

- (1) For components purchased by the Contractor, the acquisition cost, including transportation costs to the place of incorporation into the construction material (whether or not such costs are paid to a domestic firm), and any applicable duty (whether or not a duty-free entry certificate is issued); or
- (2) For components manufactured by the Contractor, all costs associated with the manufacture of the component, including transportation costs as described in paragraph (1) of this definition, plus allocable overhead costs, but excluding profit. Cost of components does not include any costs associated with the manufacture of the end product.

"Domestic construction material" means--

- (1) An unmanufactured construction material mined or produced in the United States; or
- (2) A construction material manufactured in the United States, if the cost of its components mined, produced, or manufactured in the United States exceeds 50 percent of the cost of all its components. Components of foreign origin of the same class or kind for which nonavailability determinations have been made are treated as domestic.

"Foreign construction material" means a construction material other than a domestic construction material

"United States" means the 50 States, the District of Columbia, and outlying areas.

- (b) Domestic preference.
  - (1) This clause implements the Buy American Act (41 U.S.C. 10a-10d) by providing a preference for domestic construction material. The Contractor shall use only domestic construction material in performing this contract, except as provided in paragraphs (b)(2) and (b)(3) of this clause.
  - (2) This requirement does not apply to the construction material or components listed by the Government as follows: \_\_\_\_\_ [Contracting Officer to list applicable excepted materials or indicate ``none'']
  - (3) The Contracting Officer may add other foreign construction material to the list in paragraph (b)(2) of this clause if the Government determines that
    - (i) The cost of domestic construction material would be unreasonable. The cost of a particular domestic construction material subject to the requirements of the Buy American Act is unreasonable when the cost of such material exceeds the cost of foreign material by more than 6 percent;
    - (ii) The application of the restriction of the Buy American Act to a particular construction material would be impracticable or inconsistent with the public interest; or
    - (iii) The construction material is not mined, produced, or manufactured in the United States in sufficient and reasonably available commercial quantities of a satisfactory quality.
- (c) Request for determination of inapplicability of the Buy American Act.

**(1)** 

- (i) Any Contractor request to use foreign construction material in accordance with paragraph (b)(3) of this clause shall include adequate information for Government evaluation of the request, including--
  - (A) A description of the foreign and domestic construction materials;

- (B) Unit of measure;
- (C) Quantity;
- (D) Price;
- (E) Time of delivery or availability;
- (F) Location of the construction project;
- (G) Name and address of the proposed supplier; and
- (H) A detailed justification of the reason for use of foreign construction materials cited in accordance with paragraph (b)(3) of this clause.
- (ii) A request based on unreasonable cost shall include a reasonable survey of the market and a completed price comparison table in the format in paragraph (d) of this clause.
- (iii) The price of construction material shall include all delivery costs to the construction site and any applicable duty (whether or not a duty-free certificate may be issued).
- (iv) Any Contractor request for a determination submitted after contract award shall explain why the Contractor could not reasonably foresee the need for such determination and could not have requested the determination before contract award. If the Contractor does not submit a satisfactory explanation, the Contracting Officer need not make a determination.
- (2) If the Government determines after contract award that an exception to the Buy American Act applies and the Contracting Officer and the Contractor negotiate adequate consideration, the Contracting Officer will modify the contract to allow use of the foreign construction material. However, when the basis for the exception is the unreasonable price of a domestic construction material, adequate consideration is not less than the differential established in paragraph (b)(3)(i) of this clause.
- (3) Unless the Government determines that an exception to the Buy American Act applies, use of foreign construction material is noncompliant with the Buy American Act.
- (d) *Data*. To permit evaluation of requests under paragraph (c) of this clause based on unreasonable cost, the Contractor shall include the following information and any applicable supporting data based on the survey of suppliers:

Modification M412

### Foreign and Domestic Construction Materials Price Comparison

Construction material description	Unit of measure	Quantity	Price (dollars) *
Item 1			
Foreign construction material			
Domestic construction material			
Item 2			
Foreign construction material			
Domestic construction material			

[List name, address, telephone number, and contact for suppliers surveyed. Attach copy of response; if oral, attach summary.]

[Include other applicable supporting information.]

[\*Include all delivery costs to the construction site and any applicable duty (whether or not a duty-free entry certificate is issued).]

(End of Clause)

#### I-36 52.225-13 Restriction on Certain Foreign Purchases (Jan 2004)

- (a) Except as authorized by the Office of Foreign Assets Control (OFAC) in the Department of the Treasury, the Contractor shall not acquire, for use in the performance of this contract, any supplies or services if any proclamation, Executive order, or statute administered by OFAC, or if OFAC's implementing regulations at 31 CFR chapter V, would prohibit such a transaction by a person subject to the jurisdiction of the United States.
- (b) Except as authorized by OFAC, most transactions involving Cuba, Iran, Libya, and Sudan are prohibited, as are most imports from North Korea, into the United States or its outlying areas. Lists of entities and individuals subject to economic sanctions are included in OFAC's List of Specially designated Nationals and Blocked Persons at <a href="http://www.epls.gov/TerList1.html">http://www.epls.gov/TerList1.html</a>. More information about these restrictions, as well as updates, is available in the OFAC's regulations at 31 CFR chapter V and/or on OFAC's website at <a href="http://www.treas.gov/ofac">http://www.treas.gov/ofac</a>.
- (c) The Contractor shall insert this clause, including this paragraph (c), in all subcontracts.

(End of clause)

Modification M412

#### I-37 52.229-8 Taxes -- Foreign Cost-Reimbursement Contracts (Mar 1990)

(a) Any tax or duty from which the United States Government is exempt by agreement with the Government of the successor states of the former Soviet Union (the Ukraine, Belarus, Kazakhstan, Russia, the Baltic States of Latvia and Lithuania, and Uzbekistan), or from which the Contractor or any Subcontractor under this contract is exempt under the laws of the successor states of the former Soviet Union (the Ukraine, Belarus, Kazakhstan, Russia, the Baltic States of Latvia and Lithuania, and Uzbekistan), shall not constitute an allowable cost under this contract.

(b) If the Contractor or Subcontractor under this contract obtains a foreign tax credit that reduces its Federal income tax liability under the United States Internal Revenue Code (Title 26, U.S. Code) because of the payment of any tax or duty that was reimbursed under this contract, the amount of the reduction shall be paid or credited at the time of such offset to the Government of the United States as the Contracting Officer directs.

(End of Clause)

### I-38 52.230-2 Cost Accounting Standards (Apr 1998)

- (a) Unless the contract is exempt under 48 CFR 9903.201-1 and 9903.201-2, the provisions of 48 CFR Part 9903 are incorporated herein by reference and the Contractor, in connection with this contract, shall --
  - (1) (CAS-covered Contracts Only) By submission of a Disclosure Statement, disclose in writing the Contractor's cost accounting practices as required by 48 CFR 9903.202-1 through 9903.202-5, including methods of distinguishing direct costs from indirect costs and the basis used for allocating indirect costs. The practices disclosed for this contract shall be the same as the practices currently disclosed and applied on all other contracts and subcontracts being performed by the Contractor and which contain a Cost Accounting Standards (CAS) clause. If the Contractor has notified the Contracting Officer that the Disclosure Statement contains trade secrets and commercial or financial information which is privileged and confidential, the Disclosure Statement shall be protected and shall not be released outside of the Government.
  - (2) Follow consistently the Contractor's cost accounting practices in accumulating and reporting contract performance cost data concerning this contract. If any change in cost accounting practices is made for the purposes of any contract or subcontract subject to CAS requirements, the change must be applied prospectively to this contract and the Disclosure Statement must be amended accordingly. If the contract price or cost allowance of this contract is affected by such changes, adjustment shall be made in accordance with subparagraph (a)(4) or (a)(5) of this clause, as appropriate.

(3) Comply with all CAS, including any modifications and interpretations indicated thereto contained in 48 CFR Part 9904, in effect on the date of award of this contract or, if the Contractor has submitted cost or pricing data, on the date of final agreement on price as shown on the Contractor's signed certificate of current cost or pricing data. The Contractor shall also comply with any CAS (or modifications to CAS) which hereafter become applicable to a contract or subcontract of the Contractor. Such compliance shall be required prospectively from the date of applicability to such contract or subcontract.

**(4)** 

- (i) Agree to an equitable adjustment as provided in the Changes clause of this contract if the contract cost is affected by a change which, pursuant to subparagraph (a)(3) of this clause, the Contractor is required to make to the Contractor's established cost accounting practices.
- (ii) Negotiate with the Contracting Officer to determine the terms and conditions under which a change may be made to a cost accounting practice, other than a change made under other provisions of subparagraph (a)(4) of this clause; provided that no agreement may be made under this provision that will increase costs paid by the United States.
- (iii) When the Parties agree to a change to a cost accounting practice, other than a change under subdivision (a)(4)(i) of this clause, negotiate an equitable adjustment as provided in the Changes clause of this contract.
- Agree to an adjustment of the contract price or cost allowance, as (5) appropriate, if the Contractor or a Subcontractor fails to comply with an applicable Cost Accounting Standard, or to follow any cost accounting practice consistently and such failure results in any increased costs paid by the United States. Such adjustment shall provide for recovery of the increased costs to the United States, together with interest thereon computed at the annual rate established under section 6621 of the Internal Revenue Code of 1986 (26 U.S.C.6621) for such period, from the time the payment by the United States was made to the time the adjustment is effected. In no case shall the Government recover costs greater than the increased cost to the Government, in the aggregate, on the relevant contracts subject to the price adjustment, unless the Contractor made a change in its cost accounting practices of which it was aware or should have been aware at the time of price negotiations and which it failed to disclose to the Government.

(b) If the Parties fail to agree whether the Contractor or a Subcontractor has complied with an applicable CAS in 48 CFR 9904 or a CAS rule or regulation in 48 CFR 9903 and as to any cost adjustment demanded by the United States, such failure to agree will constitute a dispute under the Contract Disputes Act (41 U.S.C.601).

- (c) The Contractor shall permit any authorized representatives of the Government to examine and make copies of any documents, papers, or records relating to compliance with the requirements of this clause.
- (d) The Contractor shall include in all negotiated subcontracts which the Contractor enters into, the substance of this clause, except paragraph (b), and shall require such inclusion in all other subcontracts, of any tier, including the obligation to comply with all CAS in effect on the Subcontractor's award date or if the Subcontractor has submitted cost or pricing data, on the date of final agreement on price as shown on the Subcontractor's signed Certificate of Current Cost or Pricing Data. If the subcontract is awarded to a business unit which pursuant to 48 CFR 9903.201-2 is subject to other types of CAS coverage, the substance of the applicable clause set forth in subsection 30.201-4 of the Federal Acquisition Regulation shall be inserted. This requirement shall apply only to negotiated subcontracts in excess of \$500,000, except that the requirement shall not apply to negotiated subcontracts otherwise exempt from the requirement to include a CAS clause as specified in 48 CFR 9903.201-1.

(End of Clause)

#### I-39 52.230-6 Administration of Cost Accounting Standards (Nov 1999)

For the purpose of administering the Cost Accounting Standards (CAS) requirements under this contract, the Contractor shall take the steps outlined in paragraphs (a) through (g) of this clause:

- (a) Submit to the Contracting Officer a description of any cost accounting practice change, the total potential impact of the change on contracts containing a CAS clause, and a general dollar magnitude of the change which identifies the potential shift of costs between CAS-covered contracts by contract type (i.e., firm-fixed-price, incentive, cost-plus-fixed fee, etc.) and other Contractor business activity. As related to CAS-covered contracts, the analysis should identify the potential impact on funds of the various Agencies/Departments (i.e., Department of Energy, National Aeronautics and Space Administration, Army, Navy, Air Force, other Department of Defense, other Government) as follows:
  - (1) For any change in cost accounting practices required in accordance with subparagraph (a)(3) and subdivision (a)(4)(i) of the clause at FAR 52.230-2, Cost Accounting Standards; or subparagraph (a)(3) and subdivisions (a)(4)(i) or (a)(4)(iv) of the clause at FAR 52.230-5, Cost Accounting Standards -- Educational Institution; within 60 days (or such other date as may be mutually agreed to) after award of a contract requiring this change.

(2) For any change in cost accounting practices proposed in accordance with subdivision (a)(4)(ii) or (iii) of the clauses at FAR 52.230-2, Cost Accounting Standards, and FAR 52.230-5, Cost Accounting Standards -- Educational Institution; or with subparagraph (a)(3) of the clause at FAR 52.230-3, Disclosure and Consistency of Cost Accounting Practices, not less than 60 days (or such other date as may be mutually agreed to) before the effective date of the proposed change.

- (3) For any failure to comply with an applicable CAS or to follow a disclosed practice (as contemplated by subparagraph (a)(5) at FAR 52.230-2, Cost Accounting Standards, and FAR 52.230-5, Cost Accounting Standards -- Educational Institution; or by subparagraph (a)(4) at FAR 52.230-3, Disclosure and Consistency of Cost Accounting Practices):
  - (i) Within 60 days (or such other date as may be mutually agreed to) after the date of agreement with the initial finding of noncompliance, or
  - (ii) In the event of Contractor disagreement with the initial finding of noncompliance, within 60 days of the date the Contractor is notified by the Contracting Officer of the determination of noncompliance.
- (b) After an ACO, or cognizant Federal agency official, determination of materiality, submit a cost impact proposal in the form and manner specified by the Contracting Officer within 60 days (or such other date as may be mutually agreed to) after the date of determination of the adequacy and compliance of a change submitted pursuant to paragraph (a) of this clause. The cost impact proposal shall be in sufficient detail to permit evaluation, determination, and negotiation of the cost impact upon each separate CAS-covered contract and subcontract.
  - (1) Cost impact proposals submitted for changes in cost accounting practices required in accordance with subparagraph (a)(3) and subdivision (a)(4)(i) of the clause at FAR 52.230-2, Cost Accounting Standards; or subparagraph (a)(3) and subdivisions (a)(4)(i) or (a)(4)(iv) of the clause at FAR 52.230-5, Cost Accounting Standards -- Educational Institution; shall identify the applicable standard or cost principle and all contracts and subcontracts containing the clauses entitled Cost Accounting Standards or Cost Accounting Standards -- Educational Institution, which have an award date before the effective date of that standard or cost principle.
  - (2) Cost impact proposals submitted for any change in cost accounting practices proposed in accordance with subdivisions (a)(4)(ii) or (iii) of the clauses at FAR 52.230-2, Cost Accounting Standards, and FAR 52.230-5, Cost Accounting Standards -- Educational Institution; or with subparagraph (a)(3) of the clause at FAR 52.230-3, Disclosure and

Consistency of Cost Accounting Practices; shall identify all contracts and subcontracts containing the clauses at FAR 52.230-2, Cost Accounting Standards, FAR 52.230-5, Cost Accounting Standards -- Educational Institution, and FAR 52.230-3, Disclosure and Consistency of Cost Accounting Practices.

- Cast impact proposals submitted for failure to comply with an applicable CAS or to follow a disclosed practice as contemplated by subparagraph (a)(5) of the clauses at FAR 52.230-2, Cost Accounting Standards, and FAR 52.230-5, Cost Accounting Standards -- Educational Institution; or by subparagraph (a)(4) of the clause at FAR 52.230-3, Disclosure and Consistency of Cost Accounting Practices, shall identify the cost impact on each separate CAS covered contract from the date of failure to comply until the noncompliance is corrected.
- (c) If the submissions required by paragraphs (a) and (b) of this clause are not submitted within the specified time, or any extension granted by the Contracting Officer, an amount not to exceed 10 percent of each subsequent amount determined payable related to the Contractor's CAS-covered prime contracts, up to the estimated general dollar magnitude of the cost impact, may be withheld until such time as the required submission has been provided in the form and manner specified by the Contracting Officer.
- (d) Agree to appropriate contract and subcontract amendments to reflect adjustments established in accordance with subparagraphs (a)(4) and (a)(5) of the clauses at FAR 52.230-2 and 52.230-5; or with subparagraphs (a)(3) or (a)(4) of the Disclosure and Consistency of Cost Accounting Practices clause at FAR 52.230-3.
- (e) For all subcontracts subject to the clauses at FAR 52.230-2, 52.230-3, or 52.230-5
  - (1) So state in the body of the subcontract, in the letter of award, or in both (self-deleting clauses shall not be used);
  - (2) Include the substance of this clause in all negotiated subcontracts; and
  - (3) Within 30 days after award of the subcontract, submit the following information to the Contractor's cognizant contract administration office for transmittal to the contract administration office cognizant of the Subcontractor's facility:
    - (i) Subcontractor's name and subcontract number.
    - (ii) Dollar amount and date of award.

- (iii) Name of Contractor making the award.
- (f) Notify the Contracting Officer in writing of any adjustments required to subcontracts under this contract and agree to an adjustment, based on them, to this contract price or estimated cost and fee. This notice is due within 30 days after proposed subcontract adjustments are received and shall include a proposal for adjusting the higher tier subcontract or the prime contract appropriately.
- (g) For subcontracts containing the clauses at FAR 52.230-2 or 52.230-5, require the Subcontractor to comply with all Standards in effect on the date of award or of final agreement on price, as shown on the Subcontractor's signed Certificate of Current Cost or Pricing Data, whichever is earlier.

  (End of Clause)

#### I-40 52.232-17 Interest (Jun 1996)

- (a) Except as otherwise provided in this contract under a Price Reduction for Defective Cost or Pricing Data clause or a Cost Accounting Standards clause, all amounts that become payable by the Contractor to the Government under this contract (net of any applicable tax credit under the Internal Revenue Code (26 U.S.C. 1481)) shall bear simple interest from the date due until paid unless paid within 30 days of becoming due. The interest rate shall be the interest rate established by the Secretary of the Treasury as provided in Section 12 of the Contract Disputes Act of 1978 (Public Law 95-563), which is applicable to the period in which the amount becomes due, as provided in paragraph (b) of this clause, and then at the rate applicable for each six-month period as fixed by the Secretary until the amount is paid.
- (b) Amounts shall be due at the earliest of the following dates:
  - (1) The date fixed under this contract.
  - (2) The date of the first written demand for payment consistent with this contract, including any demand resulting from a default termination.
  - (3) The date the Government transmits to the Contractor a proposed supplemental agreement to confirm completed negotiations establishing the amount of debt.
  - (4) If this contract provides for revision of prices, the date of written notice to the Contractor stating the amount of refund payable in connection with a pricing proposal or a negotiated pricing agreement not confirmed by contract modification.
- (c) The interest charge made under this clause may be reduced under the procedures prescribed in 32.614-2 of the Federal Acquisition Regulation in effect on the date

Modification M412

of this contract.

(End of Clause)

#### I-41 52.232-24 Prohibition of Assignment of Claims (Jan 1986)

The assignment of claims under the Assignment of Claims Act of 1940, as amended, 31 U.S.C. 3727, 41 U.S.C. 15, is prohibited for this contract.

(End of Clause)

### I–42 52.233-1 Disputes (Jul 2002) Alternate I (Jul 2002)

- (a) This contract is subject to the Contract Disputes Act of 1978, as amended (41 U.S.C. 601-613).
- (b) Except as provided in the Act, all disputes arising under or relating to this contract shall be resolved under this clause.
- (c) "Claim," as used in this clause, means a written demand or written assertion by one of the contracting Parties seeking, as a matter of right, the payment of money in a sum certain, the adjustment or interpretation of contract terms, or other relief arising under or relating to this contract. However, a written demand or written assertion by the Contractor seeking the payment of money exceeding \$100,000 is not a claim under the Act until certified. A voucher, invoice, or other routine request for payment that is not in dispute when submitted is not a claim under the Act. The submission may be converted to a claim under the Act, by complying with the submission and certification requirements of this clause, if it is disputed either as to liability or amount or is not acted upon in a reasonable time.

(d)

(1) A claim by the Contractor shall be made in writing and, unless otherwise stated in this contract, submitted within 6 years after accrual of the claim to the Contracting Officer for a written decision. A claim by the Government against the Contractor shall be subject to a written decision by the Contracting Officer.

(2)

- (i) The Contractor shall provide the certification specified in paragraph (d)(2)(iii) of this clause when submitting any claim exceeding \$100,000.
- (ii) The certification requirement does not apply to issues in controversy that have not been submitted as all or part of a claim.
- (iii) The certification shall state as follows: "I certify that the claim is made in good faith; that the supporting data are accurate and

complete to the best of my knowledge and belief; that the amount requested accurately reflects the contract adjustment for which the Contractor believes the Government is liable; and that I am duly authorized to certify the claim on behalf of the Contractor."

- (3) The certification may be executed by any person duly authorized to bind the Contractor with respect to the claim.
- (e) For Contractor claims of \$100,000 or less, the Contracting Officer must, if requested in writing by the Contractor, render a decision within 60 days of the request. For Contractor-certified claims over \$100,000, the Contracting Officer must, within 60 days, decide the claim or notify the Contractor of the date by which the decision will be made.
- (f) The Contracting Officer's decision shall be final unless the Contractor appeals or files a suit as provided in the Act.
- (g) If the claim by the Contractor is submitted to the Contracting Officer or a claim by the Government is presented to the Contractor, the Parties, by mutual consent, may agree to use alternative dispute resolution (ADR). If the Contractor refuses an offer for ADR, the Contractor shall inform the Contracting Officer, in writing, of the Contractor's specific reasons for rejecting the offer.
- (h) The Government shall pay interest on the amount found due and unpaid from
  - (1) the date that the Contracting Officer receives the claim (certified, if required); or
  - (2) the date that payment otherwise would be due, if that date is later, until the date of payment.

With regard to claims having defective certifications, as defined in FAR 33.201, interest shall be paid from the date that the Contracting Officer initially receives the claim. Simple interest on claims shall be paid at the rate, fixed by the Secretary of the Treasury as provided in the Act, which is applicable to the period during which the Contracting Officer receives the claim and then at the rate applicable for each 6-month period as fixed by the Treasury Secretary during the pendency of the claim.

(i) The Contractor shall proceed diligently with performance of this contract, pending final resolution of any request for relief, claim, appeal, or action arising under or relating to the contract, and comply with any decision of the Contracting Officer.

(End of Clause)

Modification M412

#### I-43 52.233-3 Protest After Award (Aug 1996) Alternate I (Jun 1985)

(a) Upon receipt of a notice of protest (as defined in FAR 33.101) or a determination that a protest is likely (see FAR 33.102(d)), the Contracting Officer may, by written order to the Contractor, direct the Contractor to stop performance of the work called for by this contract. The order shall be specifically identified as a stop-work order issued under this clause. Upon receipt of the order, the Contractor shall immediately comply with its terms and take all reasonable steps to minimize the incurrence of costs allocable to the work covered by the order during the period of work stoppage. Upon receipt of the final decision in the protest, the Contracting Officer shall either --

- (1) Cancel the stop-work order; or
- (2) Terminate the work covered by the order as provided in the Termination clause of this contract.
- (b) If a stop-work order issued under this clause is canceled either before or after a final decision in the protest, the Contractor shall resume work. The Contracting Officer shall make an equitable adjustment in the delivery schedule, the estimated cost, the fee, or a combination thereof, and in any other terms of the contract that may be affected, and the contract shall be modified, in writing, accordingly, if --
  - (1) The stop-work order results in an increase in the time required for, or in the Contractor's cost properly allocable to, the performance of any part of this contract; and
  - (2) The Contractor asserts its right to an adjustment within 30 days after the end of the period of work stoppage; provided, that if the Contracting Officer decides the facts justify the action, the Contracting Officer may receive and act upon a proposal at any time before final payment under this contract.
- (c) If a stop-work order is not canceled and the work covered by the order is terminated for the convenience of the Government, the Contracting Officer shall allow reasonable costs resulting from the stop-work order in arriving at the termination settlement.
- (d) If a stop-work order is not canceled and the work covered by the order is terminated for default, the Contracting Officer shall allow, by equitable adjustment or otherwise, reasonable costs resulting from the stop-work order.
- (e) The Government's rights to terminate this contract at any time are not affected by action taken under this clause.

(f) If, as the result of the Contractor's intentional or negligent misstatement, misrepresentation, or miscertification, a protest related to this contract is sustained, and the Government pays costs, as provided in FAR 33.102(b)(2) or 33.104(h)(1), the Government may require the Contractor to reimburse the Government the amount of such costs. In addition to any other remedy available, and pursuant to the requirements of Subpart 32.6, the Government may collect this debt by offsetting the amount against any payment due the Contractor under any contract between the Contractor and the Government.

(End of Clause)

### I-44 52.236-8 Other Contracts (Apr 1984)

The Government may undertake or award other contracts for additional work at or near the site of the work under this contract. The Contractor shall fully cooperate with the other Contractors and with Government employees and shall carefully adapt scheduling and performing the work under this contract to accommodate the additional work, heeding any direction that may be provided by the Contracting Officer. The Contractor shall not commit or permit any act that will interfere with the performance of work by any other Contractor or by Government employees.

(End of Clause)

#### **I–45 52.237-3** Continuity of Services (Jan 1991)

- (a) The Contractor recognizes that the services under this contract are vital to the Government and must be continued without interruption and that, upon contract expiration, a successor, either the Government or another Contractor, may continue them. The Contractor agrees to --
  - (1) Furnish phase-in training; and
  - (2) Exercise its best efforts and cooperation to effect an orderly and efficient transition to a successor.
    - (i) The Contractor shall, upon the Contracting Officer's written notice,
      - (A) furnish phase-in, phase-out services for up to 90 days after this contract expires and
      - (B) negotiate in good faith a plan with a successor to determine the nature and extent of phase-in, phase-out services required.

The plan shall specify a training program and a date for transferring responsibilities for each division of work described in the plan, and shall be subject to the Contracting Officer's approval. The Contractor shall provide sufficient experienced personnel during the phase-in, phase-out period to ensure that the services

called for by this contract are maintained at the required level of proficiency.

- (c) The Contractor shall allow as many personnel as practicable to remain on the job to help the successor maintain the continuity and consistency of the services required by this contract. The Contractor also shall disclose necessary personnel records and allow the successor to conduct on-site interviews with these employees. If selected employees are agreeable to the change, the Contractor shall release them at a mutually agreeable date and negotiate transfer of their earned fringe benefits to the successor.
- (d) The Contractor shall be reimbursed for all reasonable phase-in, phase-out costs (i.e., costs incurred within the agreed period after contract expiration that result from phase-in, phase-out operations) and a fee (profit) not to exceed a pro rata portion of the fee (profit) under this contract.

  (End of Clause)

#### I-46 52.242-1 Notice of Intent to Disallow Costs (Apr 1984)

- a) Notwithstanding any other clause of this contract --
  - (1) The Contracting Officer may at any time issue to the Contractor a written notice of intent to disallow specified costs incurred or planned for incurrence under this contract that have been determined not to be allowable under the contract terms; and
  - (2) The Contractor may, after receiving a notice under subparagraph (1) above, submit a written response to the Contracting Officer, with justification for allowance of the costs. If the Contractor does respond within 60 days, the Contracting Officer shall, within 60 days of receiving the response, either make a written withdrawal of the notice or issue a written decision.
- (b) Failure to issue a notice under this Notice of Intent to Disallow Costs clause shall not affect the Government's rights to take exception to incurred costs.

  (End of Clause)

#### I–47 52.242-13 Bankruptcy (Jul 1995)

In the event the Contractor enters into proceedings relating to bankruptcy, whether voluntary or involuntary, the Contractor agrees to furnish, by certified mail or electronic commerce method authorized by the contract, written notification of the bankruptcy to the Contracting Officer responsible for administering the contract. This notification shall be furnished within five days of the initiation of the proceedings relating to bankruptcy filing. This notification shall include the date on which the bankruptcy petition was filed, the identity of the court in which the bankruptcy petition was filed, and a listing of Government contract numbers and contracting offices for all Government contracts

Modification M412

against which final payment has not been made. This obligation remains in effect until final payment under this contract.

(End of Clause)

# I–48 52.244-5 Competition in Subcontracting (Dec 1996)

- a) The Contractor shall select Subcontractors (including suppliers) on a competitive basis to the maximum practical extent consistent with the objectives and requirements of the contract.
- (b) If the Contractor is an approved mentor under the Department of Defense Pilot Mentor-Protégé Program (Pub. L. 101-510, section 831 as amended), the Contractor may award subcontracts under this contract on a noncompetitive basis to its protégés.

(End of Clause)

### I-49 52.244-6 Subcontracts for Commercial Items (Apr 2003)

(a) Definitions. As used in this clause--

"Commercial item" has the meaning contained in the clause at 52.202-1, Definitions.

"Subcontract" includes a transfer of commercial items between divisions, subsidiaries, or affiliates of the Contractor or Subcontractor at any tier.

(b) To the maximum extent practicable, the Contractor shall incorporate, and require its Subcontractors at all tiers to incorporate, commercial items or nondevelopmental items as components of items to be supplied under this contract.

(c)

- (1) The Contractor shall insert the following clauses in subcontracts for commercial items:
  - (i) 52.219-8, Utilization of Small Business Concerns (Oct 200) (15 U.S.C. 637(d)(2)(3)), in all subcontracts that offer further subcontracting opportunities. If the subcontract (except subcontracts to small business concerns) exceed \$500,000 (\$1,000,000 for construction of any public facility), the Subcontractor must include 52.219-8 in lower tier subcontracts that offer subcontracting opportunities.
  - (ii) 52.222-26, Equal Opportunity (Apr 2002) (E.O. 11246).

- (iii) 52.222-35, Equal Opportunity for Special Disabled Veterans, Veterans of the Vietnam Era, and Other Eligible Veterans (Dec 2001) (38 U.S.C. 4212(a));
- (iv) 52.222-36, Affirmative Action for Workers with Disabilities (Jun 998) (29 U.S.C. 793).
- (v) 52.247-64, Preference for Privately Owned U.S.-Flag Commercial Vessels (APR 2003) (46 U.S.C. Appx 1241 and 10 U.S.C. 2631) (flow down required in accordance with paragraph (d) of FAR clause 52.247-64).
- (2) While not required, the Contractor may flow down to subcontracts for commercial items a minimal number of additional clauses necessary to satisfy its contractual obligations.
- (d) The Contractor shall include the terms of this clause, including this paragraph (d), in subcontracts awarded under this contract.

(End of Clause)

#### I-50 52.247-1 Commercial Bill of Lading Notations (Apr 1984)

If the Contracting Officer authorizes supplies to be shipped on a commercial bill of lading and the Contractor will be reimbursed these transportation costs as direct allowable costs, the Contractor shall ensure before shipment is made that the commercial shipping documents are annotated with either of the following notations, as appropriate:

- (a) If the Government is shown as the consignor or the consignee, the annotation shall be:
  - Transportation is for the Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee are assignable to, and shall be reimbursed by, the Government.
- (b) If the Government is not shown as the consignor or the consignee, the annotation shall be:

Transportation is for the Department of Energy and the actual total transportation charges paid to the carrier(s) by the consignor or consignee shall be reimbursed by the Government, pursuant to cost-reimbursement contract No. DE-AC05-76RL01830. This may be confirmed by contacting the U.S. Department of Energy; Pacific Northwest Site Office; P.O. Box 350, K8-50; Richland, Washington, 99352.

(End of Clause)

Modification M412

### I-51 52.247-63 -- Preference for U.S.-Flag Air Carriers (Jun 2003)

(a) *Definitions*. As used in this clause--

"International air transportation" means transportation by air between a place in the United States and a place outside the United States or between two places both of which are outside the United States.

"United States" means the 50 States, the District of Columbia, and outlying areas.

"U.S.-flag air carrier" means an air carrier holding a certificate under 49 U.S.C. Chapter 411.

- (b) Section 5 of the International Air Transportation Fair Competitive Practices Act of 1974 (49 U.S.C. 40118) (Fly America Act) requires that all Federal agencies and Government contractors and subcontractors use U.S.-flag air carriers for U.S. Government-financed international air transportation of personnel (and their personal effects) or property, to the extent that service by those carriers is available. It requires the Comptroller General of the United States, in the absence of satisfactory proof of the necessity for foreign-flag air transportation, to disallow expenditures from funds, appropriated or otherwise established for the account of the United States, for international air transportation secured aboard a foreign-flag air carrier if a U.S.-flag air carrier is available to provide such services.
- (c) If available, the Contractor, in performing work under this contract, shall use U.S.-flag carriers for international air transportation of personnel (and their personal effects) or property.
- (d) In the event that the Contractor selects a carrier other than a U.S.-flag air carrier for international air transportation, the Contractor shall include a statement on vouchers involving such transportation essentially as follows:

#### Statement of Unavailability of U.S.-Flag Air Carriers

International air transportation of persons (and their personal effects) or property by U.	S
flag air carrier was not available or it was necessary to use foreign-flag air carrier servi	ice
for the following reasons (see section 47.403 of the Federal Acquisition Regulation):	:
[State reasons]:	

(End of statement)

(e) The Contractor shall include the substance of this clause, including this paragraph (e), in each subcontract or purchase under this contract that may involve international air transportation.

(End of Clause)

# I-52 52.247-64 Preference for Privately Owned U.S.-Flag Commercial Vessels (Apr 2003)

- (a) Except as provided in paragraph (e) of this clause, the Cargo Preference Act of 1954 (46 U.S.C. Appx 1241(b)) requires that Federal departments and agencies shall transport in privately owned U.S.-flag commercial vessels at least 50 percent of the gross tonnage of equipment, materials, or commodities that may be transported in ocean vessels (computed separately for dry bulk carriers, dry cargo liners, and tankers). Such transportation shall be accomplished when any equipment, materials, or commodities, located within or outside the United States, that may be transported by ocean vessel are --
  - (1) Acquired for a U.S. Government agency account;
  - (2) Furnished to, or for the account of, any foreign nation without provision for reimbursement;
  - (3) Furnished for the account of a foreign nation in connection with which the United States advances funds or credits, or guarantees the convertibility of foreign currencies; or
  - (4) Acquired with advance of funds, loans, or guaranties made by or on behalf of the United States.
- (b) The Contractor shall use privately owned U.S.-flag commercial vessels to ship at least 50 percent of the gross tonnage involved under this contract (computed separately for dry bulk carriers, dry cargo liners, and tankers) whenever shipping any equipment, materials, or commodities under the conditions set forth in paragraph (a) above, to the extent that such vessels are available at rates that are fair and reasonable for privately owned U.S.-flag commercial vessels.

(c)

- (1) The Contractor shall submit one legible copy of a rated on-board ocean bill of lading for each shipment to both --
  - (i) The Contracting Officer, and
  - (ii) The:

Office of Cargo Preference Maritime Administration (MAR-590) 400 Seventh Street, SW Washington, DC 20590

Subcontractor bills of lading shall be submitted through the Prime Contractor.

- (2) The Contractor shall furnish these bill of lading copies
  - (i) within 20 working days of the date of loading for shipments originating in the United States, or
  - (ii) within 30 working days for shipments originating outside the United States. Each bill of lading copy shall contain the following information:
    - (A) Sponsoring U.S. Government agency.
    - (B) Name of vessel.
    - (C) Vessel flag of registry.
    - (D) Date of loading.
    - (E) Port of loading.
    - (F) Port of final discharge.
    - (G) Description of commodity.
    - (H) Gross weight in pounds and cubic feet if available.
    - (I) Total ocean freight revenue in U.S. dollars.
- (d) The Contractor shall insert the substance of this clause, including this paragraph (d), in all subcontracts or purchase orders under this contract, except those described in paragraph (e)(4).
- (e) The requirement in paragraph (a) does not apply to --
  - (1) Cargoes carried in vessels of the Panama Canal Commission or as required or authorized by law or treaty;
  - (2) Ocean transportation between foreign countries of supplies purchased with foreign currencies made available, or derived from funds that are made available, under the Foreign Assistance Act of 1961 (22 U.S.C. 2353);
  - (3) Shipments of classified supplies when the classification prohibits the use of non-Government vessels; and
  - (4) Subcontracts or purchase orders for the acquisition of commercial items unless-

- (i) This contract is-
  - (A) A contract or agreement for ocean transportation services; or
  - (B) A construction contract; or
- (ii) The supplies being transported are-
  - (A) Items the Contractor is reselling or distributing to the Government without adding value. (Generally, the Contractor does not add value to the items when it subcontracts items for f.o.b. destination shipment); or
  - (B) Shipped in direct support of U.S. military-
    - (1) Contingency operations:
    - (2) Exercises; or
    - (3) Forces deployed in connection with United Nations or North Atlantic Treaty Organization humanitarian or peacekeeping operations.
- (f) Guidance regarding fair and reasonable rates for privately owned U.S.-flag commercial vessels may be obtained from the:

Office of Costs and Rates Maritime Administration 400 Seventh Street, SW Washington, DC 20590 Phone: 202-366-2324.

(End of Clause)

# I-53 52.247-67 Submission of Commercial Transportation Bills to the General Services Administration for Audit (Jun 1997)

(a)

(1) In accordance with paragraph (a)(2) of this clause, the Contractor shall submit to the General Services Administration (GSA) for audit, legible copies of all paid freight bills/invoices, commercial bills of lading (CBL's), passenger coupons, and other supporting documents for transportation services on which the United States will assume freight charges that were paid --

- (i) By the Contractor under a cost-reimbursement contract; and
- (ii) By a first-tier Subcontractor under a cost-reimbursement subcontract thereunder.
- (2) Cost-reimbursement Contractors shall only submit for audit those CBL's with freight shipment charges exceeding \$50.00. Bills under \$50.00 shall be retained on-site by the Contractor and made available for GSA on-site audits. This exception only applies to freight shipment bills and is not intended to apply to bills and invoices for any other transportation services.
- (b) The Contractor shall forward copies of paid freight bills/invoices, CBL's, passenger coupons, and supporting documents as soon as possible following the end of the month, in one package to the:

General Services Administration Attn: FWA 1800 F Street, NW Washington, DC 20405.

The Contractor shall include the paid freight bills/invoices, CBL's, passenger coupons, and supporting documents for first-tier Subcontractors under a cost-reimbursement contract. If the inclusion of the paid freight bills/invoices, CBL's, passenger coupons, and supporting documents for any Subcontractor in the shipment is not practicable, the documents may be forwarded to GSA in a separate package.

- (c) Any original transportation bills or other documents requested by GSA shall be forwarded promptly by the Contractor to GSA. The Contractor shall ensure that the name of the contracting agency is stamped or written on the face of the bill before sending it to GSA.
- (d) A statement prepared in duplicate by the Contractor shall accompany each shipment of transportation documents. GSA will acknowledge receipt of the shipment by signing and returning the copy of the statement. The statement shall show --
  - (1) The name and address of the Contractor;
  - (2) The contract number including any alpha-numeric prefix identifying the contracting office;
  - (3) The name and address of the contracting office;
  - (4) The total number of bills submitted with the statement; and

(5) A listing of the respective amounts paid or, in lieu of such listing, an adding machine tape of the amounts paid showing the Contractor's voucher or check numbers.

(End of Clause)

# I-54 52.249-6 Termination (Cost-Reimbursement) (Sep 1996) (Modified by DEAR 970.4905-1 (Dec 2000))

- (a) The Government may terminate performance of work under this contract in whole or, from time to time, in part, if --
  - (1) The Contracting Officer determines that a termination is in the Government's interest; or
  - (2) The Contractor defaults in performing this contract and fails to cure the default within 10 days (unless extended by the Contracting Officer) after receiving a notice specifying the default. "Default" includes failure to make progress in the work so as to endanger performance.
- (b) The Contracting Officer shall terminate by delivering to the Contractor a Notice of Termination specifying whether termination is for default of the Contractor or for convenience of the Government, the extent of termination, and the effective date. If, after termination for default, it is determined that the Contractor was not in default or that the Contractor's failure to perform or to make progress in performance is due to causes beyond the control and without the fault or negligence of the Contractor as set forth in the Excusable Delays clause, the rights and obligations of the Parties will be the same as if the termination was for the convenience of the Government.
- (c) After receipt of a Notice of Termination, and except as directed by the Contracting Officer, the Contractor shall immediately proceed with the following obligations, regardless of any delay in determining or adjusting any amounts due under this clause:
  - (1) Stop work as specified in the notice.
  - (2) Place no further subcontracts or orders (referred to as subcontracts in this clause), except as necessary to complete the continued portion of the Contract.
  - (3) Terminate all subcontracts to the extent they relate to the work terminated.
  - (4) Assign to the Government, as directed by the Contracting Officer, all right, title, and interest of the Contractor under the subcontracts terminated, in which case the Government shall have the right to settle or

to pay any termination settlement proposal arising out of those terminations.

- (5) With approval or ratification to the extent required by the Contracting Officer, settle all outstanding liabilities and termination settlement proposals arising from the termination of subcontracts, the cost of which would be reimbursable in whole or in part, under this Contract; approval or ratification will be final for purposes of this clause.
- (6) Transfer title (if not already transferred) and, as directed by the Contracting Officer, deliver to the Government --
  - (i) The fabricated or unfabricated parts, work in process, completed work, supplies, and other material produced or acquired for the work terminated;
  - (ii) The completed or partially completed plans, drawings, information, and other property that, if the Contract had been completed, would be required to be furnished to the Government; and
  - (iii) The jigs, dies, fixtures, and other special tools and tooling acquired or manufactured for this Contract, the cost of which the Contractor has been or will be reimbursed under this Contract.
- (7) Complete performance of the work not terminated.
- (8) Take any action that may be necessary, or that the Contracting Officer may direct, for the protection and preservation of the property related to this Contract that is in the possession of the Contractor and in which the Government has or may acquire an interest.
- (9) Use its best efforts to sell, as directed or authorized by the Contracting Officer, any property of the types referred to in subparagraph (c)(6) of this clause; provided, however, that the Contractor
  - (i) is not required to extend credit to any purchaser and
  - (ii) may acquire the property under the conditions prescribed by, and at prices approved by, the Contracting Officer.

The proceeds of any transfer or disposition will be applied to reduce any payments to be made by the Government under this Contract, credited to the price or cost of the work, or paid in any other manner directed by the Contracting Officer.

(d) The Contractor shall submit complete termination inventory schedules no later than 120 days from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 120-day period.

- (e) After expiration of the plant clearance period as defined in Subpart 45.6 of the Federal Acquisition Regulation, the Contractor may submit to the Contracting Officer a list, certified as to quantity and quality, of termination inventory not previously disposed of, excluding items authorized for disposition by the Contracting Officer. The Contractor may request the Government to remove those items or enter into an agreement for their storage. Within 15 days, the Government will accept the items and remove them or enter into a storage agreement. The Contracting Officer may verify the list upon removal of the items, or if stored, within 45 days from submission of the list, and shall correct the list, as necessary, before final settlement.
- (f) After termination, the Contractor shall submit a final termination settlement proposal to the Contracting Officer in the form and with the certification prescribed by the Contracting Officer. The Contractor shall submit the proposal promptly, but no later than 1 year from the effective date of termination, unless extended in writing by the Contracting Officer upon written request of the Contractor within this 1-year period. However, if the Contracting Officer determines that the facts justify it, a termination settlement proposal may be received and acted on after 1 year or any extension. If the Contractor fails to submit the proposal within the time allowed, the Contracting Officer may determine, on the basis of information available, the amount, if any, due the Contractor because of the termination and shall pay the amount determined.
- (g) Subject to paragraph (f) of this clause, the Contractor and the Contracting Officer may agree on the whole or any part of the amount to be paid (including an allowance for fee) because of the termination. The Contract shall be amended, and the Contractor paid the agreed amount.
- (h) If the Contractor and the Contracting Officer fail to agree in whole or in part on the amount of costs and/or fee to be paid because of the termination of work, the Contracting Officer shall determine, on the basis of information available, the amount, if any, due the Contractor, and shall pay that amount, which shall include the following:
  - (1) All costs reimbursable under this Contract, not previously paid, for the performance of this Contract before the effective date of the termination, and those costs that may continue for a reasonable time with the approval of or as directed by the Contracting Officer; however, the Contractor shall discontinue those costs as rapidly as practicable.

(2) The cost of settling and paying termination settlement proposals under terminated subcontracts that are properly chargeable to the terminated portion of the Contract if not included in subparagraph (h)(1) of this clause.

- (3) The reasonable costs of settlement of the work terminated, including --
  - (i) Accounting, legal, clerical, and other expenses reasonably necessary for the preparation of termination settlement proposals and supporting data;
  - (ii) The termination and settlement of subcontracts (excluding the amounts of such settlements); and
  - (iii) Storage, transportation, and other costs incurred, reasonably necessary for the preservation, protection, or disposition of the termination inventory. If the termination is for default, no amounts for the preparation of the Contractor's termination settlement proposal may be included.
- (4) A portion of the fee payable under the Contract, determined as follows:
  - (i) If the Contract is terminated for the convenience of the Government, the settlement shall include a percentage of the fee equal to the percentage of completion of work contemplated under the Contract, but excluding subcontract effort included in subcontractors' termination proposals, less previous payments for fee.
  - (ii) If the Contract is terminated for default, the total fee payable shall be such proportionate part of the fee as the total number of articles (or amount of services) delivered to and accepted by the Government is to the total number of articles (or amount of services) of a like kind required by the Contract.
- (5) If the settlement includes only fee, it will be determined under subparagraph (h)(4) of this clause.
- (i) The cost principles and procedures in Part 31 of the Federal Acquisition Regulation as supplemented in subpart 970.31 of the Department of Energy Acquisition Regulation, in effect on the date of this Contract, shall govern all costs claimed, agreed to, or determined under this clause.
- (j) The Contractor shall have the right of appeal, under the Disputes clause, from any determination made by the Contracting Officer under paragraph (f), (h), or (l) of this clause, except that if the Contractor failed to submit the termination

settlement proposal within the time provided in paragraph (f) and failed to request a time extension, there is no right of appeal. If the Contracting Officer has made a determination of the amount due under paragraph (f), (h) or (l) of this clause, the Government shall pay the Contractor --

- (1) The amount determined by the Contracting Officer if there is no right of appeal or if no timely appeal has been taken; or
- (2) The amount finally determined on an appeal.
- (k) In arriving at the amount due the Contractor under this clause, there shall be deducted --
  - (1) All unliquidated advance or other payments to the Contractor, under the terminated portion of this Contract;
  - (2) Any claim which the Government has against the Contractor under this Contract; and
  - (3) The agreed price for, or the proceeds of sale of materials, supplies, or other things acquired by the Contractor or sold under this clause and not recovered by or credited to the Government.
- (l) The Contractor and Contracting Officer must agree to any equitable adjustment in fee for the continued portion of the Contract when there is a partial termination. The Contracting Officer shall amend the Contract to reflect the agreement.

(m)

- (1) The Government may, under the terms and conditions it prescribes, make partial payments and payments against costs incurred by the Contractor for the terminated portion of the Contract, if the Contracting Officer believes the total of these payments will not exceed the amount to which the Contractor will be entitled.
- (2) If the total payments exceed the amount finally determined to be due, the Contractor shall repay the excess to the Government upon demand, together with interest computed at the rate established by the Secretary of the Treasury under 50 U.S.C. App. 1215(b)(2). Interest shall be computed for the period from the date the excess payment is received by the Contractor to the date the excess is repaid. Interest shall not be charged on any excess payment due to a reduction in the Contractor's termination settlement proposal because of retention or other disposition of termination inventory until 10 days after the date of the retention or disposition, or a later date determined by the Contracting Officer because of the circumstances.

(n) The provisions of this clause relating to fee are inapplicable if this Contract does not include a fee

(End of Clause)

# I-55 52.249-14 Excusable Delays (Apr 1984)

- (a) Except for defaults of Subcontractors at any tier, the Contractor shall not be in default because of any failure to perform this Contract under its terms if the failure arises from causes beyond the control and without the fault or negligence of the Contractor. Examples of these causes are
  - (1) acts of God or of the public enemy,
  - (2) acts of the Government in either its sovereign or contractual capacity,
  - (3) fires,
  - (4) floods,
  - (5) epidemics,
  - (6) quarantine restrictions,
  - (7) strikes,
  - (8) freight embargoes, and
  - (9) unusually severe weather.

In each instance, the failure to perform must be beyond the control and without the fault or negligence of the Contractor. "Default" includes failure to make progress in the work so as to endanger performance.

- (b) If the failure to perform is caused by the failure of a subcontractor at any tier to perform or make progress, and if the cause of the failure was beyond the control of both the Contractor and subcontractor, and without the fault or negligence of either, the Contractor shall not be deemed to be in default, unless --
  - (1) The subcontracted supplies or services were obtainable from other sources;
  - (2) The Contracting Officer ordered the Contractor in writing to purchase these supplies or services from the other source; and
  - (3) The Contractor failed to comply reasonably with this order.
- (c) Upon request of the Contractor, the Contracting Officer shall ascertain the facts and extent of the failure. If the Contracting Officer determines that any failure to perform results from one or more of the causes above, the delivery schedule shall be revised, subject to the rights of the Government under the termination clause of this Contract.

(End of Clause)

Modification M412

#### I–56 52.251-1 Government Supply Sources (Apr 1984) (DEVIATION)

The Contracting Officer may issue the Contractor an authorization to use Government supply sources in the performance of this Contract. Title to all property acquired by the Contractor under such an authorization shall vest in the Government unless otherwise specified in the Contract. Such property shall not be considered to be "Government-furnished property," as distinguished from "Government property." The provisions of the clause entitled "Property" shall apply to all property acquired under such authorization.

(End of Clause)

# I-57 52.251-2 Interagency Fleet Management System Vehicles and Related Services (Jan 1991)

The Contracting Officer may issue the Contractor an authorization to obtain interagency fleet management system (IFMS) vehicles and related services for use in the performance of this Contract. The use, service, and maintenance of interagency fleet management system vehicles and the use of related services by the Contractor shall be in accordance with 41 CFR 101-39 and 41 CFR 101-38.301-1.

(End of Clause)

#### I-58 52.252-6 Authorized Deviations in Clauses (Apr 1984)

- (a) The use in this solicitation or Contract of any Federal Acquisition Regulation (48 CFR Chapter 1) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the date of the clause.
- (b) The use in this solicitation or Contract of any Department of Energy Acquisition Regulation (48 CFR Chapter 9) clause with an authorized deviation is indicated by the addition of "(DEVIATION)" after the name of the regulation.

  (End of Clause)

#### I-59 52.253-1 Computer Generated Forms (Jan 1991)

- (a) Any data required to be submitted on a Standard or Optional Form prescribed by the Federal Acquisition Regulation (FAR) may be submitted on a computer generated version of the form, provided there is no change to the name, content, or sequence of the data elements on the form, and provided the form carries the Standard or Optional Form number and edition date.
- (b) Unless prohibited by agency regulations, any data required to be submitted on an agency unique form prescribed by an agency supplement to the FAR may be submitted on a computer generated version of the form provided there is no change to the name, content, or sequence of the data elements on the form and provided the form carries the agency form number and edition date.
- (c) If the Contractor submits a computer generated version of a form that is different than the required form, then the rights and obligations of the Parties will be

Modification M412

determined based on the content of the required form. (End of Clause)

### I-60 952.203-70 Whistleblower Protection for Contractor Employees (Dec 2000)

- (a) The Contractor shall comply with the requirements of "DOE Contractor Employee Protection Program" at 10 CFR part 708 for work performed on behalf of DOE directly related to activities at DOE-owned or-leased sites.
- (b) The Contractor shall insert or have inserted the substance of this clause, including this paragraph (b), in subcontracts at all tiers, for subcontracts involving work performed on behalf of DOE directly related to activities at DOE-owned or leased sites.

(End of Clause)

### I-61 952.204-2 Security (May 2002) (DEVIATION)

- (a) Responsibility. It is the Contractor's duty to safeguard all classified information, special nuclear material, and other DOE property. The Contractor shall, in accordance with DOE security regulations and requirements, be responsible for safeguarding all classified information and protecting against sabotage, espionage, loss or theft of the classified documents and material in the Contractor's possession in connection with the performance of work under this Contract. Except as otherwise expressly provided in this Contract, the Contractor shall, upon completion or termination of this Contract, transmit to DOE any classified matter in the possession of the Contractor or any person under the Contractor's control in connection with performance of this Contract. If retention by the Contractor of any classified matter is required after the completion or termination of the Contract, the Contractor shall identify the items and types or categories of matter proposed for retention, the reasons for the retention of the matter, and the proposed period of retention. If the retention is approved by the Contracting Officer, the security provisions of the Contract shall continue to be applicable to the matter retained. Special nuclear material shall not be retained after the completion or termination of the Contract.
- (b) Regulations. The Contractor agrees to comply with all security regulations of DOE in effect on the date of award and all security requirements of DOE incorporated into this Contract pursuant to the clauses entitled "Laws, Regulations, and DOE Directives" and "Application of DOE Contractor Requirements Documents".
- (c) Definition of classified information. The term "classified information" means Restricted Data, Formerly Restricted Data, or National Security Information.
- (d) Definition of restricted data. The term "Restricted Data" means all data concerning (1) design, manufacture, or utilization of atomic weapons; (2) the production of special nuclear material; or (3) the use of special nuclear material in

Modification M412

the production of energy, but shall not include data declassified or removed from the Restricted Data category pursuant to Section 142 of the Atomic Energy Act of 1954, as amended.

- (e) Definition of formerly restricted data. The term "Formerly Restricted Data" means all data removed from the Restricted Data category under section 142 d. of the Atomic Energy Act of 1954, as amended.
- (f) Definition of National Security Information. The term "National Security Information" means any information or material, regardless of its physical form or characteristics, that is owned by, produced for or by, or is under the control of the United States Government, that has been determined pursuant to Executive Order 12958 or prior Orders to require protection against unauthorized disclosure, and which is so designated.
- (g) Definition of Special Nuclear Material (SNM). SNM means: (1) plutonium, uranium enriched in the isotope 233 or in the isotope 235, and any other material which pursuant to the provisions of Section 51 of the Atomic Energy Act of 1954, as amended, has been determined to be special nuclear material, but does not include source material; or (2) any material artificially enriched by any of the foregoing, but does not include source material.
- (h) Security clearance of personnel. The Contractor shall not permit any individual to have access to any classified information, except in accordance with the Atomic Energy Act of 1954, as amended, Executive Order 12958, and the DOE's regulations or requirements incorporated into this Contract pursuant to the clauses entitled "Laws, Regulations, and DOE Directives" and "Application of DOE Contractor Requirements Documents" applicable to the particular level and category of classified information to which access is required.
- (i) Criminal liability. It is understood that disclosure of any classified information relating to the work or services ordered hereunder to any person not entitled to receive it, or failure to safeguard any classified information that may come to the Contractor or any person under the Contractor's control in connection with work under this Contract, may subject the Contractor, its agents, employees, or subcontractors to criminal liability under the laws of the United States. (See the Atomic Energy Act of 1954, as amended, 42 U.S.C. 2011 et seq.; 18 U.S.C. 793 and 794; and E.O. 12958.)
- (j) Foreign Ownership, Control or Influence. (1) The Contractor shall immediately provide the cognizant security office written notice of any change in the extent and nature of foreign ownership, control or influence over the Contractor which would affect any answer to the questions presented in the Certificate Pertaining to Foreign Interests, Standard Form 328 or the Foreign Ownership, Control or Influence questionnaire executed by the Contractor prior to the award of this Contract. In addition, any notice of changes in ownership or control which are

Modification M412

required to be reported to the Securities and Exchange Commission, the Federal Trade Commission, or the Department of Justice shall also be furnished concurrently to the Contracting Officer. (2) If a Contractor has changes involving foreign ownership, control or influence, DOE must determine whether the changes will pose an undue risk to the common defense and security. In making this determination, DOE will consider proposals made by the Contractor to avoid or mitigate foreign influences. (3) If the cognizant security office at any time determines that the Contractor is, or is potentially, subject to foreign ownership, control or influence, the Contractor shall comply with such instructions as the Contracting Officer shall provide in writing to safeguard any classified information or special nuclear material. (4) The Contractor agrees to insert terms that conform substantially to the language of this clause, including this paragraph, in all subcontracts under this Contract that will require subcontractor employees to possess access authorizations. Additionally, the Contractor must require subcontractors to have an existing DOD or DOE Facility Clearance or submit a completed Certificate Pertaining to Foreign Interests, Standard Form 328, required in DEAR 952.204-73 prior to award of a subcontract. Information to be provided by a subcontractor pursuant to this clause may be submitted directly to the Contracting Officer. For purposes of this clause, subcontractor means any subcontractor at any tier and the term "Contracting Officer" means the DOE Contracting Officer. When this clause is included in a subcontract, the term "Contractor" shall mean subcontractor and the term "contract" shall mean subcontract. (5) The Contracting Officer may terminate this Contract for default either if the Contractor fails to meet obligations imposed by this clause or if the Contractor creates a FOCI situation in order to avoid performance or a termination for default. The Contracting Officer may terminate this Contract for convenience if the Contractor becomes subject to FOCI and for reasons other than avoidance of performance of the Contract, cannot, or chooses not to, avoid or mitigate the FOCI problem.

[49 FR 12042, Mar. 28, 1984; 49 FR 38951, Oct. 2, 1984, as amended at 52 FR 38425, Oct. 16, 1987; 62 FR 2310, Jan. 16, 1997; 62 FR 42072, Aug. 5, 1997; 67 FR 14873, Mar. 28, 2002]

(End of Clause)

#### I-62 952.204-70 Classification/Declassification (Sep 1997)(DEVIATION)

In the performance of work under this Contract, the Contractor or subcontractor shall comply with all provisions of the Department of Energy's regulations; and DOE directives incorporated into this Contract pursuant to the clauses entitled, "Laws, Regulations, and DOE Directives" and "Application of DOE Contractor Requirements Documents" which apply to work involving the classification and declassification of information, documents, or material. In this section, "information" means facts, data, or knowledge itself; "document" means the physical medium on or in which information is recorded; and "material" means a product or substance which contains or reveals information, regardless of its physical form or characteristics. Classified information is

Modification M412

"Restricted Data" and "Formerly Restricted Data" (classified under the Atomic Energy Act of 1954, as amended) and "National Security Information" (classified under Executive Order 12958 or prior Executive Orders). The original decision to classify or declassify information is considered an inherently Governmental function. For this reason, only Government personnel may serve as original classifiers, i.e., Federal Government Original Classifiers. Other personnel (Government or Contractor) may serve as derivative classifiers which involves making classification decisions based upon classification guidance which reflect decisions made by Federal Government Original Classifiers

The Contractor or subcontractor shall ensure that any document or material that may contain classified information is reviewed by either a Federal Government or a Contractor Derivative Classifier in accordance with classification regulations including DOE directives and classification/declassification guidance furnished to the Contractor by the Department of Energy to determine whether it contains classified information prior to dissemination. For information which is not addressed in classification/declassification guidance, but whose sensitivity appears to warrant classification, the Contractor or subcontractor shall ensure that such information is reviewed by a Federal Government Original Classifier.

In addition, the Contractor or subcontractor shall ensure that existing classified documents (containing either Restricted Data or Formerly Restricted Data or National Security Information) which are in its possession or under its control are periodically reviewed by a Federal Government or Contractor Derivative Declassifier in accordance with classification regulations, DOE directives and classification/declassification guidance furnished to the Contractor by the Department of Energy to determine if the documents are no longer appropriately classified. Priorities for declassification review of classified documents shall be based on the degree of public and researcher interest and the likelihood of declassification upon review. Documents which no longer contain classified information are to be declassified. Declassified documents then shall be reviewed to determine if they are publicly releasable. Documents which are declassified and determined to be publicly releasable are to be made available to the public in order to maximize the public's access to as much Government information as possible while minimizing security costs.

The Contractor or subcontractor shall insert this clause in any subcontract which involves or may involve access to classified information.

(End of Clause)

#### I-63 952.204-75 Public Affairs (Dec 2000)

(a) The Contractor must cooperate with the Department in releasing unclassified information to the public and news media regarding DOE policies, programs, and activities relating to its effort under the Contract. The responsibilities under this clause must be accomplished through coordination with the Contracting Officer and appropriate DOE public affairs personnel in accordance with procedures defined by the Contracting Officer.

(b) The Contractor is responsible for the development, planning, and coordination of proactive approaches for the timely dissemination of unclassified information regarding DOE activities onsite and offsite, including, but not limited to, operations and programs. Proactive public affairs programs may utilize a variety of communication media, including public workshops, meetings or hearings, open houses, newsletters, press releases, conferences, audio/visual presentations, speeches, forums, tours, and other appropriate stakeholder interactions.

- (c) The Contractor's internal procedures must ensure that all releases of information to the public and news media are coordinated through, and approved by, a management official at an appropriate level within the Contractor's organization.
- (d) The Contractor must comply with DOE procedures for obtaining advance clearances on oral, written, and audio/visual informational material prepared for public dissemination or use.
- (e) Unless prohibited by law, and in accordance with procedures defined by the Contracting Officer, the Contractor must notify the Contracting Officer and appropriate DOE public affairs personnel of communications or contacts with Members of Congress relating to the effort performed under the Contract.
- (f) In accordance with procedures defined by the Contracting Officer, the Contractor must notify the Contracting Officer and appropriate DOE public affairs personnel of activities or situations that may attract regional or national news media attention and of non-routine inquiries from national news media relating to the effort performed under the Contract.
- In releases of information to the public and news media, the Contractor must fully and accurately identify the Contractor's relationship to the Department and fully and accurately credit the Department for its role in funding programs and projects resulting in scientific, technical, and other achievements.

  (End of Clause)

## I-64 952.208-7 Tagging of Leased Vehicles (Apr 1984)

- (a) DOE intends to use U.S. Government license tags.
- (b) While it is the intention that vehicles leased hereunder shall operate on Federal tags, the DOE reserves the right to utilize State tags if necessary to accomplish its mission. Should State tags be required, the Contractor shall furnish the DOE the documentation required by the State to acquire such tags.

  (End of Clause)

Modification M412

# I-65 952-209-72 Organizational Conflicts of Interest (Jun 1997) Alternate I (Jun 1997)

(a) *Purpose*. The purpose of this clause is to ensure that the Contractor (1) is not biased because of its financial, contractual, organizational, or other interests which relate to the work under this Contract, and (2) does not obtain any unfair competitive advantage over other Parties by virtue of its performance of this Contract.

- (b) Scope. The restrictions described herein shall apply to performance or participation by the Contractor and any of its affiliates or their successors in interest (hereinafter collectively referred to as "Contractor") in the activities covered by this clause as a prime Contractor, subcontractor, cosponsor, joint venturer, consultant, or in any similar capacity. For the purpose of this clause, affiliation occurs when a business concern is controlled by or has the power to control another or when a third party has the power to control both.
  - (1) Use of Contractor's Work Product.
    - (i) The Contractor shall be ineligible to participate in any capacity in Department contracts, subcontracts, or proposals therefor (solicited and unsolicited) which stem directly from the Contractor's performance of work under this Contract for a period of two (2) years after the completion of this Contract. Furthermore, unless so directed in writing by the Contracting Officer, the Contractor shall not perform any advisory and assistance services work under this Contract on any of its products or services or the products or services of another firm if the Contractor is or has been substantially involved in their development or marketing. Nothing in this subparagraph shall preclude the Contractor from competing for follow-on contracts for advisory and assistance services.
    - (ii) If, under this Contract, the Contractor prepares a complete or essentially complete statement of work or specifications to be used in competitive acquisitions, the Contractor shall be ineligible to perform or participate in any capacity in any contractual effort which is based on such statement of work or specifications. The Contractor shall not incorporate its products or services in such statement of work or specifications unless so directed in writing by the , in which case the restriction in this subparagraph shall not apply.
    - (iii) Nothing in this paragraph shall preclude the Contractor from offering or selling its standard and commercial items to the Government

- (2) Access to and use of information.
  - (i) If the Contractor, in the performance of this Contract, obtains access to information, such as Department plans, policies, reports, studies, financial plans, internal data protected by the Privacy Act of 1974 (5 U.S.C. 552a), or data which has not been released or otherwise made available to the public, the Contractor agrees that without prior written approval of the it shall not:
    - (A) use such information for any private purpose unless the information has been released or otherwise made available to the public;
    - (B) compete for work for the Department based on such information for a period of six (6) months after either the completion of this Contract or until such information is released or otherwise made available to the public, whichever is first;
    - (C) submit an unsolicited proposal to the Government which is based on such information until one year after such information is released or otherwise made available to the public; and
    - (D) release such information unless such information has previously been released or otherwise made available to the public by the Department.
  - (ii) In addition, the Contractor agrees that to the extent it receives or is given access to proprietary data, data protected by the Privacy Act of 1974 (5 U.S.C. 552a), or other confidential or privileged technical, business, or financial information under this Contract, it shall treat such information in accordance with any restrictions imposed on such information.
  - (iii) The Contractor may use technical data it first produces under this Contract for its private purposes consistent with paragraphs (b)(2)(i) (A) and (D) of this clause and the patent, rights in data, and security provisions of this Contract.
- (c) Disclosure after award.
  - (1) The Contractor agrees that, if changes, including additions, to the facts disclosed by it prior to award of this Contract, occur during the performance of this Contract, it shall make an immediate and full disclosure of such changes in writing to the . Such disclosure may include

a description of any action which the Contractor has taken or proposes to take to avoid, neutralize, or mitigate any resulting conflict of interest. The Department may, however, terminate the Contract for convenience if it deems such termination to be in the best interest of the Government.

- (2) In the event that the Contractor was aware of facts required to be disclosed or the existence of an actual or potential organizational conflict of interest and did not disclose such facts or such conflict of interest to the , DOE may terminate this Contract for default.
- (d) Remedies. For breach of any of the above restrictions or for nondisclosure or misrepresentation of any facts required to be disclosed concerning this Contract, including the existence of an actual or potential organizational conflict of interest at the time of or after award, the Government may terminate the Contract for default, disqualify the Contractor from subsequent related contractual efforts, and pursue such other remedies as may be permitted by law or this Contract.
- (e) Waiver. Requests for waiver under this clause shall be directed in writing to the Contracting Officer and shall include a full description of the requested waiver and the reasons in support thereof. If it is determined to be in the best interests of the Government, the Contracting Officer may grant such a waiver in writing.
- f) Subcontracts.
  - (1) The Contractor shall include a clause, substantially similar to this clause, including this paragraph (f), in subcontracts expected to exceed the simplified acquisition threshold determined in accordance with FAR Part 13 and involving the performance of advisory and assistance services as that term is defined at FAR 37.201. The terms ``contract," "Contractor," and "" shall be appropriately modified to preserve the Government's rights.
  - (2) Prior to the award under this Contract of any such subcontracts for advisory and assistance services, the Contractor shall obtain from the proposed subcontractor or consultant the disclosure required by DEAR 909.507-1, and shall determine in writing whether the interests disclosed present an actual or significant potential for an organizational conflict of interest. Where an actual or significant potential organizational conflict of interest is identified, the Contractor shall take actions to avoid, neutralize, or mitigate the organizational conflict to the satisfaction of the Contractor. If the conflict cannot be avoided or neutralized, the Contractor must obtain the approval of the DOE Contracting Officer prior to entering into the subcontract.

(End of clause)

Modification M412

### I–66 952.211-71 Priorities and Allocations (Atomic Energy) (Jun 1996)

The Contractor shall follow the provisions of Defense Priorities and Allocations System (DPAS) regulation (15 CFR Part 700) in obtaining controlled materials and other products and materials needed to fill this Contract.

(End of Clause)

# I–67 952.211-71 Priorities and Allocations (Domestic Energy Supplies) (Jun 1996) Alternate I (Jun 1996)

- (a) This Contract may be eligible for priorities and allocations support, as provided for by section 101(c) of the Defense Production Act of 1950, as amended by the Energy Policy and Conservation Act (Pub. L. 94-163, 42 U.S.C. 6201 *et seq.*) if its purpose is determined to be to maximize domestic energy supplies. Eligibility is dependent on an executive decision on a case-by-case basis with the decision being jointly made by the Departments of Energy and Commerce.
- (b) DOE regulations regarding material allocations and priority performance under contracts or orders to maximize domestic energy supplies can be found at Part 216 of Title 10 of the Code of Federal Regulations (10 CFR Part 216).
- (c) Additional guidance is provided by DOE Publication MA-0192, "Priorities and Allocations Support for Energy: Keeping Energy Programs on Schedule," dated August 1985, as it may from time to time be revised. Copies may be obtained by written request to: Department of Energy, Office of Scientific and Technical Information (OSTI), Post Office Box 62, Oak Ridge, Tennessee 37830.

  (End of Clause)

### I-68 952.215-70 Key Personnel (Dec 2000)

- (a) The personnel listed below are considered essential to the work being performed under this Contract. Before removing, replacing, or diverting any of the listed or specified personnel, the Contractor must:
  - (1) Notify the Contracting Officer reasonably in advance;
  - (2) submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on this Contract; and
  - (3) obtain the Contracting Officer's written approval. Notwithstanding the foregoing, if the Contractor deems immediate removal or suspension of any member of its management team is necessary to fulfill its obligation to maintain satisfactory standards of employee competency, conduct, and integrity under the clause at 48 CFR 970.5203-3, Contractor's Organization, the Contractor may remove or suspend such person at once,

although the Contractor must notify Contracting Officer prior to or concurrently with such action.

- (b) The list of personnel may, with the consent of the contracting Parties, be amended from time to time during the course of the Contract to add or delete personnel.
  - (1) the Laboratory Director;
  - (2) all Deputy Laboratory Directors;
  - (3) all Associate Laboratory Directors;
  - (4) the Chief Financial Officer; and
  - (5) the Director, Environment, Safety, Health & Quality Division (End of clause)

# I-69 952.217-70 Acquisition of Real Property (Apr 1984)

- (a) Notwithstanding any other provision of the Contract, the prior approval of the Contracting Officer shall be obtained when, in performance of this Contract, the Contractor acquires or proposes to acquire use of real property by:
  - (1) Purchase, on the Government's behalf or in the Contractor's own name, with title eventually vesting in the Government.
  - (2) Lease, and the Government assumes liability for, or will otherwise pay for the obligation under the lease as a reimbursable Contract cost.
  - (3) Acquisition of temporary interest through easement, license or permit, and the Government funds the entire cost of the temporary interest.
- (b) Justification of and execution of any real property acquisitions shall be in accordance and compliance with directions provided by the Contracting Officer.
- (c) The substance of this clause, including this paragraph (c), shall be included in any subcontract occasioned by this Contract under which property described in paragraph (a) of this clause shall be acquired.

  (End of clause)

# I-70 952.223-75 Preservation of Individual Occupational Radiation Exposure Records (Apr 1984)

Individual occupational radiation exposure records generated in the performance of work under this Contract shall be subject to inspection by DOE and shall be preserved by the Contractor until disposal is authorized by DOE or at the option of the Contractor delivered to DOE upon completion or termination of the Contract. If the Contractor exercises the foregoing option, title to such records shall vest in DOE upon delivery. (End of Clause)

Modification M412

### **I–71** 952.224-70 Paperwork Reduction Act (Apr 1994)

(a) In the event that it subsequently becomes a contractual requirement to collect or record information calling either for answer to identical questions from 10 or more persons other than Federal employees, or information from Federal employees which is to be used for statistical compilations of general public interest, the Paperwork Reduction Act will apply to this Contract. No plan, questionnaire, interview guide, or other similar device for collecting information (whether repetitive or single-time) may be used without first obtaining clearance from the Office of Management and Budget (OMB).

(b) The Contractor shall request the required OMB clearance from the Contracting Officer before expending any funds or making public contacts for the collection of data. The authority to expend funds and to proceed with the collection of data shall be in writing by the Contracting Officer. The Contractor must plan at least 90 days for OMB clearance. Excessive delay caused by the Government which arises out of causes beyond the control and without the fault or negligence of the Contractor will be considered in accordance with the clause entitled "Excusable Delays," if such clause is applicable. If not, the period of performance may be extended pursuant to this clause if approved by the Contracting Officer.

(End of Clause)

### I-72 952.226-74 Displaced Employee Hiring Preference (Jun 1997)

(a) Definition.

Eligible employee means a current or former employee of a Contractor or subcontractor employed at a Department of Energy Defense Nuclear Facility

- (1) whose position of employment has been, or will be, involuntarily terminated (except if terminated for cause),
- (2) who has also met the eligibility criteria contained in the Department of Energy guidance for Contractor work force restructuring, as may be amended or supplemented from time to time, and
- (3) who is qualified for a particular job vacancy with the Department or one of its Contractors with respect to work under its Contract with the Department at the time the particular position is available.
- (b) Consistent with Department of Energy guidance for Contractor work force restructuring, as may be amended or supplemented from time to time, the Contractor agrees that it will provide a preference in hiring to an eligible employee to the extent practicable for work performed under this Contract.
- (c) The requirements of this clause shall be included in subcontracts at any tier (except for subcontracts for commercial items pursuant to 41 U.S.C. 403)

expected to exceed \$500,000.

(End of Clause)

# I-73 952.247-70 Foreign Travel (Dec 2000)

Contractor foreign travel shall be conducted pursuant to the requirements contained in DOE Order 551.1, Official Foreign Travel, or any subsequent version of the order in effect at the time of award.

(End of Clause)

### I-74 952.250-70 Nuclear Hazards Indemnity Agreement (Jun 1996)

- (a) Authority. This clause is incorporated into this Contract pursuant to the authority contained in subsection 170d. of the Atomic Energy Act of 1954, as amended (hereinafter called the Act.)
- (b) *Definitions*. The definitions set out in the Act shall apply to this clause.
- (c) Financial protection. Except as hereafter permitted or required in writing by DOE, the Contractor will not be required to provide or maintain, and will not provide or maintain at Government expense, any form of financial protection to cover public liability, as described in paragraph (d)(2) below. DOE may, however, at any time require in writing that the Contractor provide and maintain financial protection of such a type and in such amount as DOE shall determine to be appropriate to cover such public liability, provided that the costs of such financial protection are reimbursed to the Contractor by DOE.

(d)

- (1) *Indemnification*. To the extent that the Contractor and other persons indemnified are not compensated by any financial protection permitted or required by DOE, DOE will indemnify the Contractor and other persons indemnified against
  - (i) claims for public liability as described in subparagraph (d)(2) of this clause; and
  - (ii) such legal costs of the Contractor and other persons indemnified as are approved by DOE, provided that DOE's liability, including such legal costs, shall not exceed the amount set forth in section 170e.(1)(B) of the Act in the aggregate for each nuclear incident or precautionary evacuation occurring within the United States or \$100 million in the aggregate for each nuclear incident occurring outside the United States, irrespective of the number of persons indemnified in connection with this Contract

- (2) The public liability referred to in subparagraph (d)(1) of this clause is public liability as defined in the Act which
  - (i) arises out of or in connection with the activities under this Contract, including transportation; and
  - (ii) arises out of or results from a nuclear incident or precautionary evacuation, as those terms are defined in the Act.

(e)

- (1) Waiver of Defenses. In the event of a nuclear incident, as defined in the Act, arising out of nuclear waste activities, as defined in the Act, the Contractor, on behalf of itself and other persons indemnified, agrees to waive any issue or defense as to charitable or Governmental immunity.
- (2) In the event of an extraordinary nuclear occurrence which:
  - (i) Arises out of, results from, or occurs in the course of the construction, possession, or operation of a production or utilization facility; or
  - (ii) Arises out of, results from, or occurs in the course of transportation of source material, by-product material, or special nuclear material to or from a production or utilization facility; or
  - (iii) Arises out of or results from the possession, operation, or use by the Contractor or a subcontractor of a device utilizing special nuclear material or by-product material, during the course of the contract activity; or
  - (iv) Arises out of, results from, or occurs in the course of nuclear waste activities, the Contractor, on behalf of itself and other persons indemnified, agrees to waive:
    - (A) Any issue or defense as to the conduct of the claimant (including the conduct of persons through whom the claimant derives its cause of action) or fault of persons indemnified, including, but not limited to:
      - 1. Negligence;
      - 2. Contributory negligence;
      - 3. Assumption of risk; or

- 4. Unforeseeable intervening causes, whether involving the conduct of a third person or an act of God;
- (B) Any issue or defense as to charitable or Governmental immunity; and
- (C) Any issue or defense based on any statute of limitations, if suit is instituted within 3 years from the date on which the claimant first knew, or reasonably could have known, of his injury or change and the cause thereof. The waiver of any such issue or defense shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action. The waiver shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified.
- (v) The term *extraordinary nuclear occurrence* means an event which DOE has determined to be an extraordinary nuclear occurrence as defined in the Act. A determination of whether or not there has been an extraordinary nuclear occurrence will be made in accordance with the procedures in 10 CFR part 840.
- (vi) For the purposes of that determination, "offsite" as that term is used in 10 CFR part 840 means away from "the Contract location" which phrase means any DOE facility, installation, or site at which contractual activity under this Contract is being carried on, and any Contractor-owned or controlled facility, installation, or site at which the Contractor is engaged in the performance of contractual activity under this Contract.
- (3) The waivers set forth above:
  - (i) Shall be effective regardless of whether such issue or defense may otherwise be deemed jurisdictional or relating to an element in the cause of action;
  - (ii) Shall be judicially enforceable in accordance with its terms by the claimant against the person indemnified;
  - (iii) Shall not preclude a defense based upon a failure to take reasonable steps to mitigate damages;
  - (iv) Shall not apply to injury or damage to a claimant or to a claimant's property which is intentionally sustained by the claimant or which

results from a nuclear incident intentionally and wrongfully caused by the claimant;

- (v) Shall not apply to injury to a claimant who is employed at the site of and in connection with the activity where the extraordinary nuclear occurrence takes place, if benefits therefor are either payable or required to be provided under any workmen's compensation or occupational disease law;
- (vi) Shall not apply to any claim resulting from a nuclear incident occurring outside the United States;
- (vii) Shall be effective only with respect to those obligations set forth in this clause and in insurance policies, contracts or other proof of financial protection; and
- (viii) Shall not apply to, or prejudice the prosecution or defense of, any claim or portion of claim which is not within the protection afforded under
  - (A) the limit of liability provisions under subsection 170e. of the Act, and
  - (B) the terms of this agreement and the terms of insurance policies, contracts, or other proof of financial protection.
- (f) Notification and litigation of claims. The Contractor shall give immediate written notice to DOE of any known action or claim filed or made against the Contractor or other person indemnified for public liability as defined in paragraph (d)(2). Except as otherwise directed by DOE, the Contractor shall furnish promptly to DOE, copies of all pertinent papers received by the Contractor or filed with respect to such actions or claims. DOE shall have the right to, and may collaborate with, the Contractor and any other person indemnified in the settlement or defense of any action or claim and shall have the right to
  - (1) require the prior approval of DOE for the payment of any claim that DOE may be required to indemnify hereunder; and
  - (2) appear through the Attorney General on behalf of the Contractor or other person indemnified in any action brought upon any claim that DOE may be required to indemnify hereunder, take charge of such action, and settle or defend any such action. If the settlement or defense of any such action or claim is undertaken by DOE, the Contractor or other person indemnified shall furnish all reasonable assistance in effecting a settlement or asserting a defense.

(g) Continuity of DOE obligations. The obligations of DOE under this clause shall not be affected by any failure on the part of the Contractor to fulfill its obligation under this Contract and shall be unaffected by the death, disability, or termination of existence of the Contractor, or by the completion, termination or expiration of this Contract.

- (h) Effect of other clauses. The provisions of this clause shall not be limited in any way by, and shall be interpreted without reference to, any other clause of this Contract, including the clause entitled Contract Disputes, provided, however, that this clause shall be subject to the clauses entitled Covenant Against Contingent Fees, and Accounts, records, and inspection, and any provisions that are later added to this Contract as required by applicable Federal law, including statutes, executive orders and regulations, to be included in Nuclear Hazards Indemnity Agreements.
- (i) *Civil penalties*. Reserved.
- (j) Criminal penalties. Any individual director, officer, or employee of the Contractor or of its subcontractors and suppliers who are indemnified under the provisions of this clause are subject to criminal penalties, pursuant to 223(c) of the Act, for knowing and willful violation of the Atomic Energy Act of 1954, as amended, and applicable DOE nuclear safety-related rules, regulations or orders which violation results in, or, if undetected, would have resulted in a nuclear incident.
- (k) Inclusion in subcontracts. The Contractor shall insert this clause in any subcontract which may involve the risk of public liability, as that term is defined in the Act and further described in paragraph (d)(2) above. However, this clause shall not be included in subcontracts in which the subcontractor is subject to Nuclear Regulatory Commission (NRC) financial protection requirements under section 170b. of the Act or NRC agreements of indemnification under section 170c. or k, of the Act for the activities under the subcontract.
- (l) Effective date. This indemnity agreement shall be applicable with respect to nuclear incidents occurring on or after August 20, 1988.

  (End of clause)

#### I-75 952.251-70 Contractor Employee Travel Discounts (Dec 2000)

- (a) The Contractor shall take advantage of travel discounts offered to Federal Contractor employee travelers by AMTRAK, hotels, motels, or car rental companies, when use of such discounts would result in lower overall trip costs and the discounted services are reasonably available. Vendors providing these services may require the Contractor employee to furnish them a letter of identification signed by the authorized Contracting Officer.
- (b) Contracted airlines. Contractors are not eligible for GSA contract city pair fares.

- (c) Discount rail service. AMTRAK voluntarily offers discounts to Federal travelers on official business and sometimes extends those discounts to Federal Contractor employees.
- (d) Hotels/motels. Many lodging providers extend their discount rates for Federal employees to Federal Contractor employees.
- (e) Car rentals. The Military Traffic Management Command (MTMC) of the Department of Defense negotiates rate agreements with car rental companies that are available to Federal travelers on official business. Some car rental companies extend those discounts to Federal Contractor employees.
- (f) Obtaining travel discounts.
  - (1) To determine which vendors offer discounts to Government Contractors, the Contractor may review commercial publications such as the Official Airline guides Official Traveler, Innovata, or National Telecommunications. The Contractor may also obtain this information from GSA contract Travel Management Centers or the Department of Defense's Commercial Travel Offices.
  - (2) The vendor providing the service may require the Government Contractor to furnish a letter signed by the Contracting Officer. The following illustrates a standard letter of identification.

OFFICIAL AGENCY LETTERHEAD

TO: Participating Vendor

SUBJECT: OFFICIAL TRAVEL OF GOVERNMENT CONTRACTOR

(FULL NAME OF TRAVELER), the bearer of this letter is an employee of (COMPANY NAME) which has a contract with this agency under Government contract (CONTRACT NUMBER). During the period of the contract (GIVE DATES), AND WITH THE APPROVAL OF THE CONTRACT VENDOR, the employee is eligible and authorized to use available travel discount rates in accordance with Government contracts and/or agreements. Government Contract City Pair fares are not available to Contractors.

SIGNATURE, Title and telephone number of Contracting Officer (End of Clause)

#### I-76 970.5203-1 Management Controls (Dec 2000) (DEVIATION)

(a)

(1) The Contractor shall be responsible for maintaining, as an integral part of its organization, effective systems of management controls for both administrative and programmatic functions. Management controls comprise the plan of organization, methods, and procedures adopted by management to reasonably ensure that: the mission and functions assigned to the Contractor are properly executed; efficient and effective operations are promoted; resources are safeguarded against waste, loss, mismanagement, unauthorized use, or misappropriation; all encumbrances and costs that are incurred under the Contract and fees that are earned are in compliance with applicable clauses and other current terms, conditions, and intended purposes; all collections accruing to the Contractor in connection with the work under this Contract, expenditures, and all other transactions and assets are properly recorded, managed, and reported; and financial, statistical, and other reports necessary to maintain accountability and managerial control are accurate, reliable, and timely.

- (2) The systems of controls employed by the Contractor shall be documented and satisfactory to DOE.
- (3) Such systems shall be an integral part of the Contractor's management functions, including defining specific roles and responsibilities for each level of management, and holding employees accountable for the adequacy of the management systems and controls in their areas of assigned responsibility.
- (4) The Contractor shall, as part of the internal audit program required elsewhere in this Contract, periodically review the management systems and controls employed in programs and administrative areas to ensure that they are adequate to provide reasonable assurance that the objectives of the systems are being accomplished and that these systems and controls are working effectively.
- (b) The Contractor shall be responsible for maintaining, as a part of its operational responsibilities, a baseline quality assurance program that implements documented performance, quality standards, and control and assessment techniques.
- (c) On an annual basis, the Contractor, through an officer at a level above the Director of Pacific Northwest National Laboratory, shall submit an assurance to the Contracting Officer that the system of management controls, including all systems revised in accordance with the clause of this Contract entitled, "Application of DOE Contractor Requirements Documents," is adequate to assure that the objectives of the management system are being accomplished and that the systems and controls are effective and efficient.

(End of Clause)

Modification M412

### I-77 970.5203-2 Performance Improvement and Collaboration (Dec 2000)

(a) The Contractor agrees that it shall affirmatively identify, evaluate, and institute practices, where appropriate, that will improve performance in the areas of environmental and health, safety, scientific and technical, security, business and administrative, and any other areas of performance in the management and operation of the Contract. This may entail the alteration of existing practices or the institution of new procedures to more effectively or efficiently perform any aspect of Contract performance or reduce overall cost of operation under the Contract. Such improvements may result from changes in organization, simplification of systems while retaining necessary controls, or any other approaches consistent with the statement of work and performance measures of this Contract.

- (b) The Contractor agrees to work collaboratively with the Department, all other management and operating, DOE major facilities management Contractors and affiliated Contractors which manage or operate DOE sites or facilities for the following purposes: (i) to exchange information generally, (ii) to evaluate concepts that may be of benefit in resolving common issues, in confronting common problems, or in reducing costs of operations, and (iii) to otherwise identify and implement DOE-complex-wide management improvements discussed in paragraph (a). In doing so, it shall also affirmatively provide information relating to its management improvements to such Contractors, including lessons learned, subject to security considerations and the protection of data proprietary to third Parties.
- (c) The Contractor may consult with the Contracting Officer in those instances in which improvements being considered pursuant to paragraph (a) involve the cooperation of the DOE. The Contractor may request the assistance of the Contracting Officer in the communication of the success of improvements to other management and operating Contractors in accordance with paragraph (b) of this clause.
- (d) The Contractor shall notify the Contracting Officer and seek approval where necessary to fulfill its obligations under the Contract. Compliance with this clause in no way alters the obligations of the Contractor under any other provision of this Contract.

(End of Clause)

### I–78 970.5203-3 Contractor's Organization (Dec 2000) (DEVIATION)

(a) Organization chart. As promptly as possible after the execution of this Contract, the Contractor shall furnish to the Contracting Officer a chart showing the names, duties, and organization of key personnel (see 48 CFR 952.215-70) to be employed in connection with the work, and shall furnish supplemental information to reflect any changes as they occur.

(b) Supervisory representative of Contractor. Unless otherwise directed by the Contracting Officer, a competent full-time resident supervisory representative of the Contractor satisfactory to the Contracting Officer shall be in charge of the work at the site, and any work off-site, at all times.

- (c) Control of employees. The Contractor shall be responsible for maintaining satisfactory standards of employee competency, conduct, and integrity and shall be responsible for taking such disciplinary action with respect to its employees as may be necessary.
- (d) Standards and procedures. The Contractor shall establish such standards and procedures as are necessary to implement the requirements set forth in 48 CFR 970.0371. Such standards and procedures shall be subject to the approval of the Contracting Officer.

(End of Clause)

### **I–79 970.5204-1 Counterintelligence (Dec 2000)**

- (a) The Contractor shall take all reasonable precautions in the work under this Contract to protect DOE programs, facilities, technology, personnel, unclassified sensitive information and classified matter from foreign intelligence threats and activities conducted for Governmental or industrial purposes, in accordance with DOE Order 5670.3, Counterintelligence Program; Executive Order 12333, U.S. Intelligence Activities; and other pertinent national and Departmental Counterintelligence requirements.
- (b) The Contractor shall appoint a qualified employee(s) to function as the Contractor Counterintelligence Officer. The Contractor Counterintelligence Officer will be responsible for conducting defensive Counterintelligence briefings and debriefings of employees traveling to foreign countries or interacting with foreign nationals; providing thoroughly documented written reports relative to targeting, suspicious activity and other matters of Counterintelligence interest; immediately reporting targeting, suspicious activity and other Counterintelligence concerns to the DOE Headquarters Counterintelligence Division; and providing assistance to other elements of the U.S. Intelligence Community as stated in the aforementioned Executive Order, the DOE Counterintelligence Order, and other pertinent national and Departmental Counterintelligence requirements.

  (End of Clause)

# I–80 970.5204-2 Laws, Regulations, and DOE Directives (Dec 2000) (DEVIATION)

(a) In performing work under this Contract, the Contractor shall comply with the requirements of applicable Federal, State, and local laws and regulations (including DOE regulations), unless relief has been granted in writing by the

Modification M412

appropriate regulatory agency. A List of Applicable Laws and regulations (List A) may be appended to this Contract for information purposes. Omission of any applicable law or regulation from List A does not affect the obligation of the Contractor to comply with such law or regulation pursuant to this paragraph.

- (b) The Contractor will perform the work of this Contract in accordance with each of the Contractor Requirements Documents (CRDs) appended to this Contract as "Appendix D," and "Appendix F" until such time as the Contracting Officer approves the substitution of an alternative procedure, standard, system of oversight, or assessment mechanism resulting from the process described in the clause of this Contract entitled, "Application of DOE Contractor Requirements Documents."
- (c) Except as otherwise directed by the Contracting Officer, the Contractor shall procure all necessary permits or licenses required for the performance of work under this Contract.
- (d) Regardless of the performer of the work, the Contractor is responsible for compliance with the requirements of this clause. The Contractor is responsible for flowing down the requirements of this clause to subcontracts at any tier to the extent necessary to ensure the Contractor's compliance with the requirements.

(End of Clause)

### I-81 970.5204-3 Access to and Ownership of Records (Dec 2000)

- (a) Government-owned records. Except as provided in paragraph (b) of this clause, all records acquired or generated by the Contractor in its performance of this Contract shall be the property of the Government and shall be delivered to the Government or otherwise disposed of by the Contractor either as the Contracting Officer may from time to time direct during the progress of the work or, in any event, as the Contracting Officer shall direct upon completion or termination of the Contract.
- (b) Contractor-owned records. The following records are considered the property of the Contractor and are not within the scope of paragraph (a) of this clause.
  - (1) Employment-related records (such as workers' compensation files; employee relations records, records on salary and employee benefits; drug testing records, labor negotiation records; records on ethics, employee concerns, and other employee related investigations conducted under an expectation of confidentiality; employee assistance program records; and personnel and medical/health-related records and similar files), and non-employee patient medical/health related records, except for those records described by the Contract as being maintained in Privacy Act systems of records.

(2) Confidential Contractor financial information, and correspondence between the Contractor and other segments of the Contractor located away from the DOE facility (i.e., the Contractor's corporate headquarters);

- (3) Records relating to any procurement action by the Contractor, except for records that under 48 CFR 970.5232-3, Accounts, Records, and Inspection, are described as the property of the Government; and
- (4) Legal records, including legal opinions, litigation files, and documents covered by the attorney-client and attorney work product privileges; and
- (5) The following categories of records maintained pursuant to the technology transfer clause of this Contract:
  - (i) Executed license agreements, including exhibits or appendices containing information on royalties, royalty rates, other financial information, or commercialization plans, and all related documents, notes and correspondence.
  - (ii) The Contractor's protected Cooperative Research and Development Agreement (CRADA) information and appendices to a CRADA that contain licensing terms and conditions, or royalty or royalty rate information.
  - (iii) Patent, copyright, mask work, and trademark application files and related Contractor invention disclosures, documents and correspondence, where the Contractor has elected rights or has permission to assert rights and has not relinquished such rights or turned such rights over to the Government.
- (c) Contract completion or termination. In the event of completion or termination of this Contract, copies of any of the Contractor-owned records identified in paragraph (b) of this clause, upon the request of the Government, shall be delivered to DOE or its designees, including successor Contractors. Upon delivery, title to such records shall vest in DOE or its designees, and such records shall be protected in accordance with applicable federal laws (including the Privacy Act), as appropriate.
- (d) Inspection, copying, and audit of records. All records acquired or generated by the Contractor under this Contract in the possession of the Contractor, including those described at paragraph (b) of this clause, shall be subject to inspection, copying, and audit by the Government or its designees at all reasonable times, and the Contractor shall afford the Government or its designees reasonable facilities for such inspection, copying, and audit; provided, however, that upon request by the Contracting Officer, the Contractor shall deliver such records to a location specified by the Contracting Officer for inspection, copying, and audit. The

Government or its designees shall use such records in accordance with applicable federal laws (including the Privacy Act), as appropriate.

- (e) Applicability. Paragraphs (b), (c), and (d) of this clause apply to all records without regard to the date or origination of such records.
- (f) Records retention standards. Special records retention standards, described at DOE Order 200.1, Information Management Program (version in effect on effective date of Contract), are applicable for the classes of records described therein, whether or not the records are owned by the Government or the Contractor. In addition, the Contractor shall retain individual radiation exposure records generated in the performance of work under this Contract until DOE authorizes disposal. The Government may waive application of these record retention schedules, if, upon termination or completion of the Contract, the Government exercises its right under paragraph (c) of this clause to obtain copies and delivery of records described in paragraphs (a) and (b) of this clause.
- (g) Subcontracts. The Contractor shall include the requirements of this clause in all subcontracts that are of a cost-reimbursement type if any of the following factors is present:
  - (1) The value of the subcontract is greater than \$2 million (unless specifically waived by the Contracting Officer);
  - (2) The Contracting Officer determines that the subcontract is, or involves, a critical task related to the Contract; or
  - (3) The subcontract includes 48 CFR 970.5223-1, Integration of Environment, Safety, and Health into Work Planning and Execution, or similar clause. (End of Clause)

# I-82 970.5208-1 Printing (Dec 2000)

- (a) To the extent that duplicating or printing services may be required in the performance of this Contract, the Contractor shall provide or secure such services in accordance with the Government Printing and Binding Regulations, Title 44 of the U.S. Code, and DOE Directives relative thereto.
- (b) The term "Printing" includes the following processes: Composition, platemaking, presswork, binding, microform publishing, or the end items produced by such processes. Provided, however, that performance of a requirement under this Contract involving the duplication of less than 5,000 copies of a single page, or no more than 25,000 units in the aggregate of multiple pages, will not be deemed to be printing.

(c) Printing services not obtained in compliance with this guidance shall result in the cost of such printing being disallowed.

(d) The Contractor shall include the substance of this clause in all subcontracts hereunder which require printing (as that term is defined in Title I of the U.S. Government Printing and Binding Regulations).

(End of Clause)

# I-83 970.5215-1 Total Available Fee: Base Fee Amount and Performance Fee Amount (Dec 2000) Alternate II (Dec 2000) Alternate III (DEC 2000)

- (a) Total available fee. Total available fee, consisting of a base fee amount (which is zero) and a performance fee amount (consisting of an incentive fee component for objective performance requirements, an award fee component for subjective performance requirements, or both) determined in accordance with the provisions of this clause, is available for payment in accordance with the clause of this Contract entitled, "Payments and advances."
- (b) Fee Negotiations. Prior to the beginning of each fiscal year under this Contract, or other appropriate period as mutually agreed upon and, if exceeding one year, approved by the Senior Procurement Executive, or designee, the Contracting Officer and Contractor shall enter into negotiation of the requirements for the year or appropriate period, including the evaluation areas and individual requirements subject to incentives, the total available fee, and the allocation of fee. The Contracting Officer shall modify this Contract at the conclusion of each negotiation to reflect the negotiated requirements, evaluation areas and individual requirements subject to incentives, the total available fee, and the allocation of fee. In the event the Parties fail to agree on the requirements, the evaluation areas and individual requirements subject to incentives, the total available fee, or the allocation of fee, a unilateral determination will be made by the Contracting Officer. The total available fee amount shall be allocated to a twelve month cycle composed of one or more evaluation periods, or such longer period as may be mutually agreed to between the Parties and approved by the Senior Procurement Executive, or designee.
- (c) Determination of Total Available Fee Amount Earned.
  - (1) The Government shall, at the conclusion of each specified evaluation period, evaluate the Contractor's performance of all requirements, including performance based incentives completed during the period, and determine the total available fee amount earned. At the Contracting Officer's discretion, evaluation of incentivized performance may occur at the scheduled completion of specific incentivized requirements.
  - (2) The DOE Operations/Field/Site Office Manager, or designee, will be the Manager of the DOE Pacific Northwest Site Office. The Contractor agrees that the determination as to the total available fee earned is a unilateral

determination made by the DOE Operations/Field Office Manager, or designee.

- The evaluation of Contractor performance shall be in accordance with the Performance Evaluation and Measurement Plan(s) described in subparagraph (d) of this clause unless otherwise set forth in the Contract. The Contractor shall be promptly advised in writing of the fee determination, and the basis of the fee determination. In the event that the Contractor's performance is considered to be less than the level of performance set forth in the Statement of Work, as amended to include the current Work Authorization Directive or similar document, for any Contract requirement, it will be considered by the DOE Operations/Field Office Manager, or designee, who may at his/her discretion adjust the fee determination to reflect such performance. Any such adjustment shall be in accordance with the clause entitled, "Conditional Payment of Fee, Profit, or Incentives" if contained in the Contract.
- (4) Award fee not earned during the evaluation period shall not be allocated to future evaluation periods.
- (d) Performance Evaluation and Measurement Plan(s). To the extent not set forth elsewhere in the Contract:
  - (1) The Government shall establish a Performance Evaluation and Measurement Plan(s) upon which the determination of the total available fee amount earned shall be based. The Performance Evaluation and Measurement Plan(s) will address all of the requirements of Contract performance specified in the Contract directly or by reference. A copy of the Performance Evaluation and Measurement Plan(s) shall be provided to the Contractor:
    - (i) prior to the start of an evaluation period if the requirements, evaluation areas, specific incentives, amount of fee, and allocation of fee to such evaluation areas and specific incentives have been mutually agreed to by the Parties; or
    - (ii) not later than thirty days prior to the scheduled start date of the evaluation period, if the requirements, evaluation areas, specific incentives, amount of fee, and allocation of fee to such evaluation areas and specific incentives have been unilaterally established by the Contracting Officer.
  - (2) The Performance Evaluation and Measurement Plan(s) will set forth the criteria upon which the Contractor will be evaluated relating to any technical, schedule, management, and/or cost objectives selected for evaluation. Such criteria should be objective, but may also include

subjective criteria. The Plan(s) shall also set forth the method by which the total available fee amount will be allocated and the amount earned determined.

- (3) The Performance Evaluation and Measurement Plan(s) may, consistent with the Contract statement of work, be revised during the period of performance. The Contracting Officer shall notify the Contractor:
  - (i) of such unilateral changes at least ninety calendar days prior to the end of the affected evaluation period and at least thirty calendar days prior to the effective date of the change;
  - (ii) of such bilateral changes at least sixty calendar days prior to the end of the affected evaluation period; or
  - (iii) if such change, whether unilateral or bilateral, is urgent and high priority, at least thirty calendar days prior to the end of the evaluation period.
- (e) Schedule for total available fee amount earned determinations. The DOE Operations/Field Office Manager, or designee, shall issue the final total available fee amount earned determination in accordance with: the schedule set forth in the Performance Evaluation and Measurement Plan(s); or as otherwise set forth in this Contract. However, a determination must be made within sixty calendar days after the receipt by the Contracting Officer of the Contractor's self-assessment, if one is required or permitted by paragraph (f) of this clause, or seventy calendar days after the end of the evaluation period, whichever is later, or a longer period if the Contractor and Contracting Officer agree. If the Contracting Officer evaluates the Contractor's performance of specific requirements on their completion, the payment of any earned fee amount must be made within seventy calendar days (or such other time period as mutually agreed to between the Contracting Officer and the Contractor) after such completion. If the determination is delayed beyond that date, the Contractor shall be entitled to interest on the determined total available fee amount earned at the rate established by the Secretary of the Treasury under section 12 of the Contract Disputes Act of 1978 (41 U.S.C. 611) that is in effect on the payment date. This rate is referred to as the "Renegotiation Board Interest Rate," and is published in the Federal Register semiannually on or about January 1 and July 1. The interest on any late total available fee amount earned determination will accrue daily and be compounded in 30-day increments inclusive from the first day after the schedule determination date through the actual date the determination is issued. That is, interest accrued at the end of any 30-day period will be added to the determined amount of fee earned and be subject to interest if not paid in the succeeding 30-day period.
- (f) Contractor self-assessment. Following each evaluation period, the Contractor shall submit a self-assessment within 30 calendar days after the end of the period

Modification M412

(or as otherwise agreed between the Parties). This self-assessment shall address both the strengths and weaknesses of the Contractor's performance during the evaluation period. Where deficiencies in performance are noted, the Contractor shall describe the actions planned or taken to correct such deficiencies and avoid their recurrence. The DOE Operations/Field Office Manager, or designee, will review the Contractor's self-assessment, if submitted, as part of its independent evaluation of the Contractor's management during the period. A self-assessment, in and of itself may not be the only basis for the award fee determination. (End of Clause)

# I–84 970.5215-3 Conditional Payment of Fee, Profit, or Incentives (Dec 2000) Alternate I (Dec 2000)

In order for the Contractor to receive all otherwise earned fee, fixed fee, profit, or share of cost savings under the Contract in an evaluation period, the Contractor must meet the minimum requirements in paragraphs (a) and (b) of this clause, and if Alternate I is applicable, (a) through (d) of this clause. If the Contractor does not meet the minimum requirements, the DOE Operations/Field Office Manager or designee may make a unilateral determination to reduce the evaluation period's otherwise earned fee, fixed fee, profit or share of cost savings as described in the following paragraphs of this clause.

- (a) Minimum requirements for Environment, Safety & Health (ES&H) Program. The Contractor shall develop, obtain DOE approval of, and implement a Safety Management System in accordance with the provisions of the clause entitled, "Integration of Environment, Safety and Health into Work Planning and Execution," if included in the Contract, or as otherwise agreed to with the Contracting Officer. The minimum performance requirements of the system will be set forth in the approved Safety Management System, or similar document. If the Contractor fails to obtain approval of the Safety Management System or fails to achieve the minimum performance requirements of the system during the evaluation period, the DOE Operations/Field Office Manager or designee, at his/her sole discretion, may reduce any otherwise earned fees, fixed fee, profit or share of cost savings for the evaluation period by an amount up to the amount earned.
- (b) Minimum requirements for catastrophic event. If, in the performance of this Contract, there is a catastrophic event (such as a fatality, or a serious workplace-related injury or illness to one or more Federal, Contractor, or subcontractor employees or the general public, loss of control over classified or special nuclear material, or significant damage to the environment), the DOE Operations/Field Office Manager or designee may reduce any otherwise earned fee for the evaluation period by an amount up to the amount earned. In determining any diminution of fee, fixed fee, profit, or share of cost savings resulting from a catastrophic event, the DOE Operations/Field Office Manager or designee will consider whether willful misconduct and/or negligence contributed to the

Modification M412

occurrence and will take into consideration any mitigating circumstances presented by the Contractor or other sources.

- (c) Minimum requirements for specified level of performance.
  - (1) At a minimum the Contractor must perform the following:
    - (i) the requirements with specific incentives at the level of performance set forth in the Statement of Work, Work Authorization Directive, or similar document unless an otherwise minimal level of performance has been established in the specific incentive;
    - (ii) all of the performance requirements directly related to requirements specifically incentivized at a level of performance such that the overall performance of these related requirements is at an acceptable level; and
    - (iii) all other requirements at a level of performance such that the total performance of the Contract is not jeopardized.
    - (2) The evaluation of the Contractor's achievement of the level of performance shall be unilaterally determined by the Contracting Officer. To the extent that the Contractor fails to achieve the minimum performance levels specified in the Statement of Work, Work Authorization Directive, or similar document, during the evaluation period, the DOE Operations/Field Office Manager, or designee, may reduce any otherwise earned fee, fixed fee, profit, or shared net savings for the evaluation period. Such reduction shall not result in the total of earned fee, fixed fee, profit, or shared net savings being less than 25% of the total available fee amount. Such 25% shall include base fee, if any.
- (d) Minimum requirements for cost performance.
  - (1) Requirements incentivized by other than cost incentives must be performed within their specified cost constraint and must not adversely impact the costs of performing unrelated activities.
  - (2) The performance of requirements with a specific cost incentive must not adversely impact the costs of performing unrelated requirements.
  - (3) The Contractor's performance within the stipulated cost performance levels for the evaluation period shall be determined by the Contracting Officer. To the extent the Contractor fails to achieve the stipulated cost performance levels, the DOE Operations/Field Office Manager, or designee, at his/her sole discretion, may reduce in whole or in part any

Modification M412

otherwise earned fee, fixed fee, profit, or shared net savings for the evaluation period. Such reduction shall not result in the total of earned fee, fixed fee, profit or shared net savings being less than 25% of the total available fee amount. Such 25% shall include base fee, if any.

(End of Clause)

# I-85 970.5222-1 Collective Bargaining Agreements Management and Operating Contracts (Dec 2000)

When negotiating collective bargaining agreements applicable to the work force under this Contract, the Contractor shall use its best efforts to ensure such agreements contain provisions designed to assure continuity of services. All such agreements entered into during the Contract period of performance should provide that grievances and disputes involving the interpretation or application of the agreement will be settled without resorting to strike, lockout, or other interruption of normal operations. For this purpose, each collective bargaining agreement should provide an effective grievance procedure with arbitration as its final step, unless the Parties mutually agree upon some other method of assuring continuity of operations. As part of such agreements, management and labor should agree to cooperate fully with the Federal Mediation and Conciliation Service. The Contractor shall include the substance of this clause in any subcontracts for protective services or other services performed on the DOE-owned site, which will affect the continuity of operation of the facility.

(End of Clause)

### I-86 970.5222-2 Overtime Management (Dec 2000)

- (a) The Contractor shall maintain adequate internal controls to ensure that employee overtime is authorized only if cost effective and necessary to ensure performance of work under this Contract.
- (b) The Contractor shall notify the Contracting Officer when in any given year it is likely that overtime usage as a percentage of payroll may exceed 4%.
- (c) The Contracting Officer may require the submission, for approval, of a formal annual overtime control plan whenever Contractor overtime usage as a percentage of payroll has exceeded, or is likely to exceed, 4%, or if the Contracting Officer otherwise deems overtime expenditures excessive. The plan shall include, at a minimum:
  - (1) An overtime premium fund (maximum dollar amount);
  - (2) Specific controls for casual overtime for non-exempt employees;
  - (3) Specific parameters for allowability of exempt overtime;
  - (4) An evaluation of alternatives to the use of overtime; and

- (5) Submission of a semi-annual report that includes for exempt and non-exempt employees:
  - (i) Total cost of overtime;
  - (ii) Total cost of straight time;
  - (iii) Overtime cost as a percentage of straight-time cost;
  - (iv) Total overtime hours;
  - (v) Total straight-time hours; and
  - (vi) Overtime hours as a percentage of straight-time hours. (End of Clause)

# I-87 970.5223-1 Integration of Environment, Safety, and Health into Work Planning and Execution (Dec 2000)

- (a) For the purposes of this clause,
  - (1) Safety encompasses environment, safety and health, including pollution prevention and waste minimization; and
  - (2) Employees include subcontractor employees.
- (b) In performing work under this Contract, the Contractor shall perform work safely, in a manner that ensures adequate protection for employees, the public, and the environment, and shall be accountable for the safe performance of work. The Contractor shall exercise a degree of care commensurate with the work and the associated hazards. The Contractor shall ensure that management of environment, safety and health (ES&H) functions and activities becomes an integral but visible part of the Contractor's work planning and execution processes. The Contractor shall, in the performance of work, ensure that:
  - (1) Line management is responsible for the protection of employees, the public, and the environment. Line management includes those Contractor and subcontractor employees managing or supervising employees performing work.
  - (2) Clear and unambiguous lines of authority and responsibility for ensuring (ES&H) are established and maintained at all organizational levels.
  - (3) Personnel possess the experience, knowledge, skills, and abilities that are necessary to discharge their responsibilities.

(4) Resources are effectively allocated to address ES&H, programmatic, and operational considerations. Protecting employees, the public, and the environment is a priority whenever activities are planned and performed.

- (5) Before work is performed, the associated hazards are evaluated and an agreed-upon set of ES&H standards and requirements are established which, if properly implemented, provide adequate assurance that employees, the public, and the environment are protected from adverse consequences.
- (6) Administrative and engineering controls to prevent and mitigate hazards are tailored to the work being performed and associated hazards. Emphasis should be on designing the work and/or controls to reduce or eliminate the hazards and to prevent accidents and unplanned releases and exposures.
- (7) The conditions and requirements to be satisfied for operations to be initiated and conducted are established and agreed-upon by DOE and the Contractor. These agreed-upon conditions and requirements are requirements of the Contract and binding upon the Contractor. The extent of documentation and level of authority for agreement shall be tailored to the complexity and hazards associated with the work and shall be established in a Safety Management System.
- (c) The Contractor shall manage and perform work in accordance with a documented Safety Management System (System) that fulfills all conditions in paragraph (b) of this clause at a minimum. Documentation of the System shall describe how the Contractor will:
  - (1) Define the scope of work;
  - (2) Identify and analyze hazards associated with the work;
  - (3) Develop and implement hazard controls;
  - (4) Perform work within controls; and
  - (5) Provide feedback on adequacy of controls and continue to improve safety management.
- (d) The System shall describe how the Contractor will establish, document, and implement safety performance objectives, performance measures, and commitments in response to DOE program and budget execution guidance while maintaining the integrity of the System. The System shall also describe how the Contractor will measure system effectiveness.

(e) The Contractor shall submit to the Contracting Officer documentation of its System for review and approval. Dates for submittal, discussions, and revisions to the System will be established by the Contracting Officer. Guidance on the preparation, content, review, and approval of the System will be provided by the Contracting Officer. On an annual basis, the Contractor shall review and update, for DOE approval, its safety performance objectives, performance measures, and commitments consistent with and in response to DOE's program and budget execution guidance and direction. Resources shall be identified and allocated to meet the safety objectives and performance commitments as well as maintain the integrity of the entire System. Accordingly, the System shall be integrated with the Contractor's business processes for work planning, budgeting, authorization, execution, and change control.

- (f) The Contractor shall comply with, and assist the Department of Energy in complying with, ES&H requirements of all applicable laws and regulations, and applicable directives identified in the clause of this Contract entitled "Laws, Regulations, and DOE Directives." The Contractor shall cooperate with Federal and non-Federal agencies having jurisdiction over ES&H matters under this Contract
- (g) The Contractor shall promptly evaluate and resolve any noncompliance with applicable ES&H requirements and the System. If the Contractor fails to provide resolution or if, at any time, the Contractor's acts or failure to act causes substantial harm or an imminent danger to the environment or health and safety of employees or the public, the Contracting Officer may issue an order stopping work in whole or in part. Any stop work order issued by a Contracting Officer under this clause (or issued by the Contractor to a subcontractor in accordance with paragraph (i) of this clause) shall be without prejudice to any other legal or contractual rights of the Government. In the event that the Contracting Officer issues a stop work order, an order authorizing the resumption of the work may be issued at the discretion of the Contracting Officer. The Contractor shall not be entitled to an extension of time or additional fee or damages by reason of, or in connection with, any work stoppage ordered in accordance with this clause.
- (h) Regardless of the performer of the work, the Contractor is responsible for compliance with the ES&H requirements applicable to this Contract. The Contractor is responsible for flowing down the ES&H requirements applicable to this Contract to subcontracts at any tier to the extent necessary to ensure the Contractor's compliance with the requirements.
- (i) The Contractor shall include a clause substantially the same as this clause in subcontracts involving complex or hazardous work on site at a DOE-owned orleased facility. Such subcontracts shall provide for the right to stop work under the conditions described in paragraph (g) of this clause. Depending on the complexity and hazards associated with the work, the Contractor may choose not to require the subcontractor to submit a Safety Management System for the

Modification M412

Contractor's review and approval.

(End of Clause)

# I–88 970.5223-2 Acquisition and Use of Environmentally Preferable Products and Services (Dec 2000)

- (a) In the performance of this Contract, the Contractor shall comply with the requirements of the following issuances:
  - (1) Executive Order 13101 of September 14, 1998, entitled "Greening the Government Through Waste Prevention, Recycling and Federal Acquisition."
  - (2) Section 6002 of the Resource Conservation and Recovery Act (RCRA) of 1976, as amended (42 U.S.C. 6962, Pub. L. 94-580, 90 Stat. 2822),
  - (3) Title 40 of the Code of Federal Regulations, Subchapter I, Part 247 (Comprehensive Guidelines for the Procurement of Products Containing Recovered Materials) and such other Subchapter I Parts or Comprehensive Procurement Guidelines as the Environmental Protection Agency may issue from time to time as guidelines for the procurement of products that contain recovered/recycled materials,
  - (4) "U.S. Department of Energy Affirmative Procurement Program for Products Containing Recovered Materials" and related guidance document(s), as they are identified in writing by the Department.
- (b) The Contractor shall prepare and submit reports on matters related to the use of environmentally preferable products and services from time to time in accordance with written direction (e.g., in a specified format) from the Contracting Officer.
- (c) In complying with the requirements of paragraph (a) of this clause, the Contractor shall coordinate its concerns and seek implementing guidance on Federal and Departmental policy, plans, and program guidance with the DOE recycling point of contact, who shall be identified by the Contracting Officer. Reports required pursuant to paragraph (b) of this clause, shall be submitted through the DOE recycling point of contact.

(End of Clause)

### I-89 970.5223-4 Workplace Substance Abuse Programs at DOE Sites (Dec 2000)

(a) Program Implementation. The Contractor shall, consistent with 10 CFR part 707, Workplace Substance Abuse Programs at DOE Sites, incorporated herein by reference with full force and effect, develop, implement, and maintain a workplace substance abuse program.

Modification M412

(b) Remedies. In addition to any other remedies available to the Government, the Contractor's failure to comply with the requirements of 10 CFR part 707 or to perform in a manner consistent with its approved program may render the Contractor subject to: the suspension of Contract payments, or, where applicable, a reduction in award fee; termination for default; and suspension or debarment.

#### (c) Subcontracts.

- **(1)** The Contractor agrees to notify the Contracting Officer reasonably in advance of, but not later than 30 days prior to, the award of any subcontract the Contractor believes may be subject to the requirements of 10 CFR part 707.
- The DOE prime Contractor shall require all subcontracts subject to the (2) provisions of 10 CFR part 707 to agree to develop and implement a workplace substance abuse program that complies with the requirements of 10 CFR part 707, Workplace Substance Abuse Programs at DOE Sites, as a condition for award of the subcontract. The DOE prime Contractor shall review and approve each subcontractor's program, and shall periodically monitor each subcontractor's implementation of the program for effectiveness and compliance with 10 CFR part 707.
- (3) The Contractor agrees to include, and require the inclusion of, the requirements of this clause in all subcontracts, at any tier, that are subject to the provisions of 10 CFR part 707.

(End of clause)

#### **970.5226-1 Diversity Plan (Dec 2000) (DEVIATION)** I-90

The Contractor has submitted a Diversity Plan to the Contracting Officer and the Contracting Officer has approved it. The Contractor shall review its Plan annually and submit an update to its Plan as necessary, or upon request of the Contracting Officer. The Plan shall include innovative strategies for increasing opportunities to fully use the talents and capabilities of a diverse work force. The Plan shall address, at a minimum, the Contractor's approach for promoting diversity through (1) the Contractor's work force, (2) educational outreach, (3) community involvement and outreach, (4) subcontracting, (5) economic development (including technology transfer), and (6) the prevention of profiling based on race or national origin.

(End of Clause)

# 970.5226-2 Workforce Restructuring under Section 3161 of the National **Defense Authorization Act for Fiscal Year 1993 (Dec 2000)**

(a) Consistent with the objectives of Section 3161 of the National Defense Authorization Act for Fiscal Year 1993, 42 U.S.C. 7274h, in instances where the Department of Energy has determined that a change in workforce at a Department of Energy Defense Nuclear Facility is necessary, the Contractor agrees to (1)

Modification M412

comply with the Department of Energy Workforce Restructuring Plan for the facility, if applicable, and (2) use its best efforts to accomplish workforce restructuring or displacement so as to mitigate social and economic impacts.

(b) The requirements of this clause shall be included in subcontracts at any tier (except subcontracts for commercial items pursuant to 41 U.S.C. 403) expected to exceed \$500,000.

(End of Clause)

## I-92 970.5226-3 Community Commitment (Dec 2000)

It is the policy of the DOE to be a constructive partner in the geographic region in which DOE conducts its business. The basic elements of this policy include: (1) Recognizing the diverse interests of the region and its stakeholders, (2) engaging regional stakeholders in issues and concerns of mutual interest, and (3) recognizing that giving back to the community is a worthwhile business practice. Accordingly, the Contractor agrees that its business operations and performance under the Contract will be consistent with the intent of the policy and elements set forth above.

(End of Clause)

#### I-93 970.5227-2 Rights in Data-Technology Transfer (Dec 2000)

- (a) Definitions.
  - (1) Computer data bases, as used in this clause, means a collection of data in a form capable of, and for the purpose of, being stored in, processed, and operated on by a computer. The term does not include computer software.
  - (2) Computer software, as used in this clause, means (i) computer programs which are data comprising a series of instructions, rules, routines, or statements, regardless of the media in which recorded, that allow or cause a computer to perform a specific operation or series of operations and (ii) data comprising source code listings, design details, algorithms, processes, flow charts, formulae, and related material that would enable the computer program to be produced, created, or compiled. The term does not include computer data bases.
  - (3) Data, as used in this clause, means recorded information, regardless of form or the media on which it may be recorded. The term includes technical data and computer software. The term "data" does not include data incidental to the administration of this Contract, such as financial, administrative, cost and pricing, or management information.
  - (4) Limited rights data, as used in this clause, means data, other than computer software, developed at private expense that embody trade secrets or are commercial or financial and confidential or privileged. The

Government's rights to use, duplicate, or disclose limited rights data are as set forth in the Limited Rights Notice of paragraph (g) of this clause.

- (5) Restricted computer software, as used in this clause, means computer software developed at private expense and that is a trade secret; is commercial or financial and is confidential or privileged; or is published copyrighted computer software, including minor modifications of any such computer software. The Government's rights to use, duplicate, or disclose restricted computer software are as set forth in the Restricted Rights Notice of subparagraph (h) of this clause.
- (6) Technical data, as used in this clause, means recorded data, regardless of form or characteristic, that are of a scientific or technical nature. Technical data does not include computer software, but does include manuals and instructional materials and technical data formatted as a computer data base.
- (7) Unlimited rights, as used in this clause, means the rights of the Government to use, disclose, reproduce, prepare derivative works, distribute copies to the public, including by electronic means, and perform publicly and display publicly, in any manner, including by electronic means, and for any purpose whatsoever, and to have or permit others to do so.
- (b) Allocation of Rights.
  - (1) The Government shall have:
    - (i) Ownership of all technical data and computer software first produced in the performance of this Contract;
    - (ii) Unlimited rights in technical data and computer software specifically used in the performance of this Contract, except as provided herein regarding copyright, limited rights data, or restricted computer software, and except for data subject to the withholding provisions for protected Cooperative Research and Development Agreement (CRADA) information in accordance with Technology Transfer actions under this Contract, or other data specifically protected by statute for a period of time or, where, approved by DOE, appropriate instances of the DOE Work for Others Program;
    - (iii) The right to inspect technical data and computer software first produced or specifically used in the performance of this Contract at all reasonable times. The Contractor shall make available all

necessary facilities to allow DOE personnel to perform such inspection;

(iv) The right to have all technical data and computer software first produced or specifically used in the performance of this Contract delivered to the Government or otherwise disposed of by the Contractor, either as the Contracting Officer may from time to time direct during the progress of the work or in any event as the Contracting Officer shall direct upon completion or termination of this Contract. The Contractor agrees to leave a copy of such data at the facility or plant to which such data relate, and to make available for access or to deliver to the Government such data upon request by the Contracting Officer. If such data are limited rights data or restricted computer software. the rights of the Government in such data shall be governed solely by the provisions of paragraph (g) of this clause ("Rights in Limited Rights Data") or paragraph (h) of this clause ("Rights in Restricted Computer Software"); and (v) The right to remove, cancel, correct, or ignore any markings not authorized by the terms of this Contract on any data furnished hereunder if, in response to a written inquiry by DOE concerning the propriety of the markings, the Contractor fails to respond thereto within 60 days or fails to substantiate the propriety of the markings. In either case DOE will notify the Contractor of the action taken

### (2) The Contractor shall have:

- (i) The right to withhold limited rights data and restricted computer software unless otherwise provided in provisions of this clause;
- (ii) The right to use for its private purposes, subject to patent, security or other provisions of this Contract, data it first produces in the performance of this Contract, except for data in DOE's Uranium Enrichment Technology, including diffusion, centrifuge, and atomic vapor laser isotope separation, provided the data requirements of this Contract have been met as of the date of the private use of such data; and
- (iii) The right to assert copyright subsisting in scientific and technical articles as provided in paragraph (d) of this clause and the right to request permission to assert copyright subsisting in works other than scientific and technical articles as provided in paragraph (e) of this clause.
- (3) The Contractor agrees that for limited rights data or restricted computer software or other technical business or financial data in the form of

Modification M412

recorded information which it receives from, or is given access to by DOE or a third party, including a DOE Contractor or subcontractor, and for technical data or computer software it first produces under this Contract which is authorized to be marked by DOE, the Contractor shall treat such data in accordance with any restrictive legend contained thereon.

# (c) Copyright (General).

- (1) The Contractor agrees not to mark, register, or otherwise assert copyright in any data in a published or unpublished work, other than as set forth in paragraphs (d) and (e) of this clause.
- (2) Except for material to which the Contractor has obtained the right to assert copyright in accordance with either paragraph (d) or (e) of this clause, the Contractor agrees not to include in the data delivered under this Contract any material copyrighted by the Contractor and not to knowingly include any material copyrighted by others without first granting or obtaining at no cost a license therein for the benefit of the Government of the same scope as set forth in paragraph (d) of this clause. If the Contractor believes that such copyrighted material for which the license cannot be obtained must be included in the data to be delivered, rather than merely incorporated therein by reference, the Contractor shall obtain the written authorization of the Contracting Officer to include such material in the data prior to its delivery.
- (d) Copyrighted works (scientific and technical articles).
  - **(1)** The Contractor shall have the right to assert, without prior approval of the Contracting Officer, copyright subsisting in scientific and technical articles composed under this Contract or based on or containing data first produced in the performance of this Contract, and published in academic, technical or professional journals, symposia, proceedings, or similar works. When assertion of copyright is made, the Contractor shall affix the applicable copyright notice of 17 U.S.C. 401 or 402 and acknowledgment of Government sponsorship (including Contract number) on the data when such data are delivered to the Government as well as when the data are published or deposited for registration as a published work in the U.S. Copyright Office. The Contractor grants to the Government, and others acting on its behalf, a nonexclusive, paid-up, irrevocable, world-wide license in such copyrighted data to reproduce, prepare derivative works, distribute copies to the public, and perform publicly and display publicly, by or on behalf of the Government.
  - (2) The Contractor shall mark each scientific or technical article first produced or composed under this Contract and submitted for journal publication or similar means of dissemination with a notice, similar in all

Modification M412

material respects to the following, on the front reflecting the Government's non-exclusive, paid-up, irrevocable, world-wide license in the copyright.

Notice: This manuscript has been authored by [insert the name of the Contractor] under Contract No. [insert the contract number] with the U.S. Department of Energy. The United States Government retains and the publisher, by accepting the article for publication, acknowledges that the United States Government retains a non-exclusive, paid-up, irrevocable, world-wide license to publish or reproduce the published form of this manuscript, or allow others to do so, for United States Government purposes.

#### (End of Notice)

- (3) The title to the copyright of the original of unclassified graduate theses and the original of related unclassified scientific papers shall vest in the author thereof, subject to the right of DOE to retain duplicates of such documents and to use such documents for any purpose whatsoever without any claim on the part of the author or the Contractor for additional compensation.
- (e) Copyrighted works (other than scientific and technical articles and data produced under a CRADA). The Contractor may obtain permission to assert copyright subsisting in technical data and computer software first produced by the Contractor in performance of this Contract, where the Contractor can show that commercialization would be enhanced by such copyright protection, subject to the following:
  - (1) Contractor Request to Assert Copyright.
    - (i) For data other than scientific and technical articles and data produced under a CRADA, the Contractor shall submit in writing to Patent Counsel its request to assert copyright in data first produced in the performance of this Contract pursuant to this clause. The right of the Contractor to copyright data first produced under a CRADA is as described in the individual CRADA. Each request by the Contractor must include:
      - (A) The identity of the data (including any computer program) for which the Contractor requests permission to assert copyright, as well as an abstract which is descriptive of the data and is suitable for dissemination purposes,
      - (B) The program under which it was funded, (C) Whether, to the best knowledge of the Contractor, the data is subject to an international treaty or agreement, (D) Whether the data

is subject to export control, (E) A statement that the Contractor plans to commercialize the data in compliance with the clause of this Contract entitled, "Technology Transfer Mission," within five (5) years after obtaining permission to assert copyright or, on a case-by-case basis, a specified longer period where the Contractor can demonstrate that the ability to commercialize effectively is dependent upon such longer period, and (F) For data other than computer software, a statement explaining why the assertion of copyright is necessary to enhance commercialization and is consistent with DOE's dissemination responsibilities.

- (ii) For data that is developed using other funding sources in addition to DOE funding, the permission to assert copyright in accordance with this clause must also be obtained by the Contractor from all other funding sources prior to the Contractor's request to Patent Counsel. The request shall include the Contractor's certification or other documentation acceptable to Patent Counsel demonstrating such permission has been obtained.
- (iii) Permission for the Contractor to assert copyright in excepted categories of data as determined by DOE will be expressly withheld. Such excepted categories include data whose release
  - (A) would be detrimental to national security, i.e., involve classified information or data or sensitive information under Section 148 of the Atomic Energy Act of 1954, as amended, or are subject to export control for nonproliferation and other nuclear-related national security purposes,
  - (B) would not enhance the appropriate transfer or dissemination and commercialization of such data,
  - (C) would have a negative impact on U.S. industrial competitiveness,
  - (D) would prevent DOE from meeting its obligations under treaties and international agreements, or
  - (E) would be detrimental to one or more of DOE's programs.

    Additional excepted categories may be added by the

    Assistant General Counsel for Technology Transfer and
    Intellectual Property. Where data are determined to be
    under export control restriction, the Contractor may obtain

permission to assert copyright subject to the provisions of this clause for purposes of limited commercialization in a manner that complies with export control statutes and applicable regulations. In addition, notwithstanding any other provision of this Contract, all data developed with Naval Reactors' funding and those data that are classified fall within excepted categories. The rights of the Contractor in data are subject to the disposition of data rights in the treaties and international agreements identified under this Contract as well as those additional treaties and international agreements which DOE may from time to time identify by unilateral amendment to the Contract; such amendment listing added treaties and international agreements is effective only for data which is developed after the date such treaty or international agreement is added to this Contract. Also, the Contractor will not be permitted to assert copyright in data in the form of various technical reports generated by the Contractor under the Contract without first obtaining the advanced written permission of the Contracting Officer.

- (2) DOE Review and Response to Contractor's Request. The Patent Counsel shall use its best efforts to respond in writing within 90 days of receipt of a complete request by the Contractor to assert copyright in technical data and computer software pursuant to this clause. Such response shall either give or withhold DOE's permission for the Contractor to assert copyright or advise the Contractor that DOE needs additional time to respond, and the reasons therefor.
- (3) Permission for Contractor to Assert Copyright.
  - (i) For computer software, the Contractor shall furnish to the DOE designated, centralized software distribution and control point, the Energy Science and Technology Software Center, at the time permission to assert copyright is given under paragraph (e)(2) of this clause:
    - (A) An abstract describing the software suitable for publication,
    - (B) the source code for each software program, and
    - (C) the object code and at least the minimum support documentation needed by a technically competent user to understand and use the software. The Patent Counsel, for good cause shown by the Contractor, may allow the minimum support documentation to be delivered within 60

days after permission to assert copyright is given or at such time the minimum support documentation becomes available. The Contractor acknowledges that the DOE designated software distribution and control point may provide a technical description of the software in an announcement identifying its availability from the copyright holder.

- (ii) Unless otherwise directed by the Contracting Officer, for data other than computer software to which the Contractor has received permission to assert copyright under paragraph (e)(2) of this clause above, the Contractor shall within sixty (60) days of obtaining such permission furnish to DOE's Office of Scientific and Technical Information (OSTI) a copy of such data as well as an abstract of the data suitable for dissemination purposes. The Contractor acknowledges that OSTI may provide an abstract of the data in an announcement to DOE, its Contractors and to the public identifying its availability from the copyright holder.
- (iii) For a five year period or such other specified period as specifically approved by Patent Counsel beginning on the date the Contractor is given permission to assert copyright in data, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in such copyrighted data to reproduce, prepare derivative works and perform publicly and display publicly, by or on behalf of the Government. Upon request, the initial period may be extended after DOE approval. The DOE approval will be based on the standard that the work is still commercially available and the market demand is being met.
- (iv) After the period approved by Patent Counsel for application of the limited Government license described in paragraph (e)(3)(iii) of this clause, or if, prior to the end of such period(s), the Contractor abandons commercialization activities pertaining to the data to which the Contractor has been given permission to assert copyright, the Contractor grants to the Government, and others acting on its behalf, a paid-up, nonexclusive, irrevocable worldwide license in such copyrighted data to reproduce, distribute copies to the public, prepare derivative works, perform publicly and display publicly, and to permit others to do so.
- (v) Whenever the Contractor asserts copyright in data pursuant to this paragraph (e), the Contractor shall affix the applicable copyright notice of 17 U.S.C. 401 or 402 on the copyrighted data and also an acknowledgment of the Government sponsorship and license rights

of paragraphs (e)(3) (iii) and (iv) of this clause. Such action shall be taken when the data are delivered to the Government, published, licensed or deposited for registration as a published work in the U.S. Copyright Office. The acknowledgment of Government sponsorship and license rights shall be as follows:

Notice: These data were produced by (insert name of Contractor) under Contract No.----- with the Department of Energy. For (period approved by DOE Patent Counsel) from (date permission to assert copyright was obtained), the Government is granted for itself and others acting on its behalf a nonexclusive, paid-up, irrevocable worldwide license in this data to reproduce, prepare derivative works, and perform publicly and display publicly, by or on behalf of the Government. There is provision for the possible extension of the term of this license. Subsequent to that period or any extension granted, the Government is granted for itself and others acting on its behalf a nonexclusive, paid-up, irrevocable worldwide license in this data to reproduce, prepare derivative works, distribute copies to the public, perform publicly and display publicly, and to permit others to do so. The specific term of the license can be identified by inquiry made to Contractor or DOE. Neither the United States nor the United States Department of Energy, nor any of their employees, makes any warranty, express or implied, or assumes any legal liability or responsibility for the accuracy, completeness, or usefulness of any data, apparatus, product, or process disclosed, or represents that its use would not infringe privately owned rights.

### (End of Notice)

With respect to any data to which the Contractor has received (vi) permission to assert copyright, the DOE has the right, during the five (5) year or specified longer period approved by Patent Counsel as provided for in paragraph (e) of this clause, to request the Contractor to grant a nonexclusive, partially exclusive or exclusive license in any field of use to a responsible applicant(s) upon terms that are reasonable under the circumstances, and if the Contractor refuses such request, to grant such license itself, if the DOE determines that the Contractor has not made a satisfactory demonstration that either it or its licensee(s) is actively pursuing commercialization of the data as set forth in subparagraph (e)(1)(A) of this clause. Before licensing under this subparagraph (vi), DOE shall furnish the Contractor a written request for the Contractor to grant the stated license, and the Contractor shall be allowed thirty (30) days (or such longer period as may be authorized by the Contracting Officer for good cause shown in

writing by the Contractor) after such notice to show cause why the license should not be granted. The Contractor shall have the right to appeal the decision of the DOE to grant the stated license to the Invention Licensing Appeal Board as set forth in 10 CFR 781.65-"Appeals."

- (vii) No costs shall be allowable for maintenance of copyrighted data, primarily for the benefit of the Contractor and/or a licensee which exceeds DOE Program needs, except as expressly provided in writing by the Contracting Officer. The Contractor may use its net royalty income to effect such maintenance costs.
- (viii) At any time the Contractor abandons commercialization activities for data for which the Contractor has received permission to assert copyright in accordance with this clause, it shall advise OSTI and Patent Counsel and upon request assign the copyright to the Government so that the Government can distribute the data to the public.
- (4) The following notice may be placed on computer software prior to any publication and prior to the Contractor's obtaining permission from the Department of Energy to assert copyright in the computer software pursuant to paragraph (c)(3) of this section.

Notice: This computer software was prepared by [insert the Contractor's name and the individual author], hereinafter the Contractor, under Contract [insert the Contract Number] with the Department of Energy (DOE). All rights in the computer software are reserved by DOE on behalf of the United States Government and the Contractor as provided in the Contract. You are authorized to use this computer software for Governmental purposes but it is not to be released or distributed to the public. NEITHER THE GOVERNMENT NOR THE CONTRACTOR MAKES ANY WARRANTY, EXPRESS OR IMPLIED, OR ASSUMES ANY LIABILITY FOR THE USE OF THIS SOFTWARE. This notice including this sentence must appear on any copies of this computer software.

### (End of Notice)

(5) a similar notice can be used for data, other than computer software, upon approval of DOE Patent Counsel.

### (f) Subcontracting.

(1) Unless otherwise directed by the Contracting Officer, the Contractor agrees to use in subcontracts in which technical data or computer software

is expected to be produced or in subcontracts for supplies that contain a requirement for production or delivery of data in accordance with the policy and procedures of 48 CFR Subpart 27.4 as supplemented by 48 CFR 927.401 through 927.409, the clause entitled, "Rights in Data-General" at 48 CFR 52.227-14 modified in accordance with 927.409(a) and including Alternate V. Alternates II through IV of that clause may be included as appropriate with the prior approval of DOE Patent Counsel, and the Contractor shall not acquire rights in a Subcontractor's limited rights data or restricted computer software, except through the use of Alternates II or III, respectively, without the prior approval of DOE Patent Counsel. The clause at 48 CFR 52.227-16, Additional Data Requirements, shall be included in subcontracts in accordance with 48 CFR 927.409(h). The Contractor shall use instead the Rights in Data-Facilities clause at 48 CFR 970.5227-1 in subcontracts, including subcontracts for related support services, involving the design or operation of any plants or facilities or specially designed equipment for such plants or facilities that are managed or operated under its Contract with DOE.

- (2) It is the responsibility of the Contractor to obtain from its Subcontractors technical data and computer software and rights therein, on behalf of the Government, necessary to fulfill the Contractor's obligations to the Government with respect to such data. In the event of refusal by a subcontractor to accept a clause affording the Government such rights, the Contractor shall:
  - (i) Promptly submit written notice to the Contracting Officer setting forth reasons or the subcontractor's refusal and other pertinent information which may expedite disposition of the matter, and
  - (ii) Not proceed with the subcontract without the written authorization of the Contracting Officer.
- (3) Neither the Contractor nor higher-tier subcontractors shall use their power to award subcontracts as economic leverage to acquire rights in a subcontractor's limited rights data and restricted computer software for their private use.
- (g) Rights in Limited Rights Data. Except as may be otherwise specified in this Contract as data which are not subject to this paragraph, the Contractor agrees to and does hereby grant to the Government an irrevocable nonexclusive, paid-up license by or for the Government, in any limited rights data of the Contractor specifically used in the performance of this Contract, provided, however, that to the extent that any limited rights data when furnished or delivered is specifically identified by the Contractor at the time of initial delivery to the Government or a representative of the Government, such data shall not be used within or outside the Government except as provided in the "Limited Rights Notice" set forth

Modification M412

below. All such limited rights data shall be marked with the following "Limited Rights Notice:"

## Limited Rights Notice

These data contain "limited rights data," furnished under Contract No.----- with the United States Department of Energy which may be duplicated and used by the Government with the express limitations that the "limited rights data" may not be disclosed outside the Government or be used for purposes of manufacture without prior permission of the Contractor, except that further disclosure or use may be made solely for the following purposes:

- (a) Use (except for manufacture) by support services Contractors within the scope of their contracts;
- (b) This "limited rights data" may be disclosed for evaluation purposes under the restriction that the "limited rights data" be retained in confidence and not be further disclosed;
- (c) This "limited rights data" may be disclosed to other Contractors participating in the Government's program of which this Contract is a part for information or use (except for manufacture) in connection with the work performed under their contracts and under the restriction that the "limited rights data" be retained in confidence and not be further disclosed;
- (d) This "limited rights data" may be used by the Government or others on its behalf for emergency repair or overhaul work under the restriction that the "limited rights data" be retained in confidence and not be further disclosed; and
- (e) Release to a foreign Government, or instrumentality thereof, as the interests of the United States Government may require, for information or evaluation, or for emergency repair or overhaul work by such Government.

This Notice shall be marked on any reproduction of this data in whole or in part.

(End of Notice)

- (h) Rights in Restricted Computer Software.
  - (1) Except as may be otherwise specified in this Contract as data which are not subject to this paragraph, the Contractor agrees to and does hereby grant to the Government an irrevocable, nonexclusive, paid-up, license by or for the Government, in any restricted computer software of the

Modification M412

Contractor specifically used in the performance of this Contract; provided, however, that to the extent that any restricted computer software when furnished or delivered is specifically identified by the Contractor at the time of initial delivery to the Government or a representative of the Government, such data shall not be used within or outside the Government except as provided in the "Restricted Rights Notice" set forth below. All such restricted computer software shall be marked with the following "Restricted Rights Notice:"

## Restricted Rights Notice-Long Form

- (a) This computer software is submitted with restricted rights under Department of Energy Contract No.---. It may not be used, reproduced, or disclosed by the Government except as provided in paragraph (b) of this notice.
- (b) This computer software may be:
  - (1) Used or copied for use in or with the computer or computers for which it was acquired, including use at any Government installation to which such computer or computers may be transferred;
  - (2) Used, copied for use, in a backup or replacement computer if any computer for which it was acquired is inoperative or is replaced;
  - (3) Reproduced for safekeeping (archives) or backup purposes;
  - (4) Modified, adapted, or combined with other computer software, provided that only the portions of the derivative software consisting of the restricted computer software are to be made subject to the same restricted rights; and
  - (5) Disclosed to and reproduced for use by Contractors under a service contract (of the type defined in 48 CFR 37.101) in accordance with subparagraphs (b)(1) through (4) of this Notice, provided the Government makes such disclosure or reproduction subject to these restricted rights.
- (c) Notwithstanding the foregoing, if this computer software has been published under copyright, it is licensed to the Government, without disclosure prohibitions, with the rights set forth in the restricted rights notice above.

(d) This Notice shall be marked on any reproduction of this computer software, in whole or in part.

### (End of Notice)

(2) Where it is impractical to include the Restricted Rights Notice on restricted computer software, the following short-form Notice may be used in lieu thereof:

Restricted Rights Notice-Short Form

Use, reproduction, or disclosure is subject to restrictions set forth in the Long Form Notice of DOE Contract No.--- with (name of Contractor).

#### (End of Notice)

- (3) If the software is embedded, or if it is commercially impractical to mark it with human readable text, then the symbol R and the clause date (mo/yr) in brackets or a box, a [R-mo/yr], may be used. This will be read to mean restricted computer software, subject to the rights of the Government as described in the Long Form Notice, in effect as of the date indicated next to the symbol. The symbol shall not be used to mark human readable material. In the event this Contract contains any variation to the rights in the Long Form Notice, then the contract number must also be cited.
- (4) If restricted computer software is delivered with the copyright notice of 17 U.S.C. 401, the software will be presumed to be published copyrighted computer software licensed to the Government without disclosure prohibitions and with unlimited rights, unless the Contractor includes the following statement with such copyright notice "Unpublished-rights reserved under the Copyright Laws of the United States."
  - (i) Relationship to patents. Nothing contained in this clause creates or is intended to imply a license to the Government in any patent or is intended to be construed as affecting the scope of any licenses or other rights otherwise granted to the Government under any patent.

    (End of Clause)

## I-94 970.5227-3 Technology Transfer Mission (Aug 2002) Alternate I (Aug 2002)

This clause has as its purpose implementation of the National Competitiveness Technology Transfer Act of 1989 (Sections 3131, 3132, 3133, and 3157 of Pub. L. 101-189 and as amended by Pub. L. 103-160, Sections 3134 and 3160). The Contractor shall conduct technology transfer activities with a purpose of providing benefit from Federal research to U.S. industrial competitiveness.

(a) Authority.

(1) In order to ensure the full use of the results of research and development efforts of, and the capabilities of, the Laboratory, technology transfer, including Cooperative Research and Development Agreements (CRADAs), is established as a mission of the Laboratory consistent with the policy, principles and purposes of Sections 11(a)(1) and 12(g) of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a); Section 3132(b) of Pub. L. 101-189, Sections 3134 and 3160 of Pub. L. 103-160, and of Chapter 38 of the Patent Laws (35 U.S.C. 200 et seq.); Section 152 of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2182); Section 9 of the Federal Nonnuclear Energy Research and Development Act of 1974 (42 U.S.C. 5908); and Executive Order 12591 of April 10, 1987.

- (2) In pursuing the technology transfer mission, the Contractor is authorized to conduct activities including but not limited to: identifying and protecting Intellectual Property made, created or acquired at or by the Laboratory; negotiating licensing agreements and assignments for Intellectual Property made, created or acquired at or by the Laboratory that the Contractor controls or owns; bailments; negotiating all aspects of and entering into CRADAs; providing technical consulting and personnel exchanges; conducting science education activities and reimbursable Work for Others (WFO); providing information exchanges; and making available Laboratory or weapon production user facilities. It is fully expected that the Contractor shall use all of the mechanisms available to it to accomplish this technology transfer mission, including, but not limited to, CRADAs, user facilities, WFO, science education activities, consulting, personnel, assignments, and licensing in accordance with this clause.
- (b) Definitions.
  - (1) Contractor's Laboratory Director means the individual who has supervision over all or substantially all of the Contractor's operations at the Laboratory.
  - (2) Intellectual Property means patents, trademarks, copyrights, mask works, protected CRADA information, and other forms of comparable property rights protected by Federal Law and other foreign counterparts.
  - (3) Cooperative Research and Development Agreement (CRADA) means any agreement entered into between the Contractor as operator of the Laboratory, and one or more Parties including at least one non-Federal party under which the Government, through its Laboratory, provides personnel, services, facilities, equipment, intellectual property, or other

resources with or without reimbursement (but not funds to non-Federal Parties) and the non-Federal Parties provide funds, personnel, services, facilities, equipment, intellectual property, or other resources toward the conduct of specified research or development efforts which are consistent with the missions of the Laboratory; except that such term does not include a procurement contract, grant, or cooperative agreement as those terms are used in sections 6303, 6304, and 6305 of Title 31 of the United States Code.

- (4) Joint Work Statement (JWS) means a proposal for a CRADA prepared by the Contractor, signed by the Contractor's Laboratory Director or designee which describes the following:
  - (i) Purpose;
  - (ii) Scope of Work which delineates the rights and responsibilities of the Government, the Contractor and Third Parties, one of which must be a non-Federal party;
  - (iii) Schedule for the work; and
  - (iv) Cost and resource contributions of the Parties associated with the work and the schedule.
- (5) Assignment means any agreement by which the Contractor transfers ownership of Laboratory Intellectual Property, subject to the Government's retained rights.
- (6) Laboratory Biological Materials means biological materials capable of replication or reproduction, such as plasmids, deoxyribonucleic acid molecules, ribonucleic acid molecules, living organisms of any sort and their progeny, including viruses, prokaryote and eukaryote cell lines, transgenic plants and animals, and any derivatives or modifications thereof or products produced through their use or associated biological products, made under this Contract by Laboratory employees or through the use of Laboratory research facilities.
- (7) Laboratory Tangible Research Product means tangible material results of research which
  - (i) are provided to permit replication, reproduction, evaluation or confirmation of the research effort, or to evaluate its potential commercial utility;
  - (ii) are not materials generally commercially available; and

- (iii) were made under this Contract by Laboratory employees or through the use of Laboratory research facilities.
- (8) Bailment means any agreement in which the Contractor permits the commercial or non-commercial transfer of custody, access or use of Laboratory Biological Materials or Laboratory Tangible Research Product for a specified purpose of technology transfer or research and development, including without limitation evaluation, and without transferring ownership to the bailee.
- (9) Privately funded technology transfer means the prosecuting, maintaining, licensing, and marketing of inventions which are not owned by the Government (and not related to CRADAs) when such activities are conducted entirely without the use of Government funds.

## (c) Allowable Costs.

- **(1)** The Contractor shall establish and carry out its technology transfer efforts through appropriate organizational elements consistent with the requirements for an Office of Research and Technology Applications (ORTA) pursuant to paragraphs (b) and (c) of Section 11 of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710). The costs associated with the conduct of technology transfer through the ORTA including activities associated with obtaining, maintaining, licensing, and assigning Intellectual Property rights, increasing the potential for the transfer of technology, and the widespread notice of technology transfer opportunities, shall be deemed allowable provided that such costs meet the other requirements of the allowable costs provisions of this Contract. In addition to any separately designated funds, these costs in any fiscal year shall not exceed an amount equal to 0.5 percent of the operating funds included in the Federal research and development budget (including Work For Others) of the Laboratory for that fiscal year without written approval of the Contracting Officer.
- (2) The Contractor's participation in litigation to enforce or defend Intellectual Property claims incurred in its technology transfer efforts shall be as provided in the clause entitled "Insurance-Litigation and Claims" of this Contract.
- (d) Conflicts of Interest-Technology Transfer. The Contractor shall have implementing procedures that seek to avoid employee and organizational conflicts of interest, or the appearance of conflicts of interest, in the conduct of its technology transfer activities. These procedures shall apply to other persons participating in Laboratory research or related technology transfer activities. Such implementing procedures shall be provided to the Contracting Officer for review and approval within sixty (60) days after execution of this Contract. The

Contracting Officer shall have thirty (30) days thereafter to approve or require specific changes to such procedures. Such implementing procedures shall include procedures to:

- (1) Inform employees of and require conformance with standards of conduct and integrity in connection with the CRADA activity in accordance with the provisions of paragraph (n)(5) of this clause;
- (2) Review and approve employee activities so as to avoid conflicts of interest arising from commercial utilization activities relating to Contractor-developed Intellectual Property;
- (3) Conduct work performed using royalties so as to avoid interference with or adverse effects on ongoing DOE projects and programs;
- (4) Conduct activities relating to commercial utilization of Contractordeveloped Intellectual Property so as to avoid interference with or adverse effects on user facility or WFO activities of the Contractor;
- (5) Conduct DOE-funded projects and programs so as to avoid the appearance of conflicts of interest or actual conflicts of interest with non-Government funded work;
- (6) Notify the Contracting Officer with respect to any new work to be performed or proposed to be performed under the Contract for DOE or other Federal agencies where the new work or proposal involves Intellectual Property in which the Contractor has obtained or intends to request or elect title;
- (7) Except as provided elsewhere in this Contract, obtain the approval of the Contracting Officer for any licensing of or assignment of title to Intellectual Property rights by the Contractor to any business or corporate affiliate of the Contractor;
- (8) Obtain the approval of the Contracting Officer prior to any assignment, exclusive licensing, or option for exclusive licensing, of Intellectual Property to any individual who has been a Laboratory employee within the previous two years or to the company in which the individual is a principal; and
- (9) Notify non-Federal sponsors of WFO activities, or non-Federal users of user facilities, of any relevant Intellectual Property interest of the Contractor prior to execution of WFOs or user agreements.
- (10) Notify DOE prior to evaluating a proposal by a third party or DOE, when the subject matter of the proposal involves an elected or waived subject

invention under this Contract or one in which the Contractor intends to elect to retain title under this Contract.

- (e) Fairness of Opportunity. In conducting its technology transfer activities, the Contractor shall prepare procedures and take all reasonable measures to ensure widespread notice of availability of technologies suited for transfer and opportunities for exclusive licensing and joint research arrangements. The requirement to widely disseminate the availability of technology transfer opportunities does not apply to a specific application originated outside of the Laboratory and by entities other than the Contractor.
- (f) U.S. Industrial Competitiveness.
  - (1) In the interest of enhancing U.S. Industrial Competitiveness, the Contractor shall, in its licensing and assignments of Intellectual Property, give preference in such a manner as to enhance the accrual of economic and technological benefits to the U.S. domestic economy. The Contractor shall consider the following factors in all of its licensing and assignment decisions involving Laboratory intellectual property where the Laboratory obtains rights during the course of the Contractor's operation of the Laboratory under this Contract:
    - (i) whether any resulting design and development will be performed in the United States and whether resulting products, embodying parts, including components thereof, will be substantially manufactured in the United States; or

(ii)

- (A) whether the proposed licensee or assignee has a business unit located in the United States and whether significant economic and technical benefits will flow to the United States as a result of the license or assignment agreement; and
- (B) in licensing any entity subject to the control of a foreign company or Government, whether such foreign Government permits United States agencies, organizations or other persons to enter into cooperative research and development agreements and licensing agreements, and has policies to protect United States Intellectual Property rights.
- (2) If the Contractor determines that neither of the conditions in paragraphs (f)(1)(i) or (ii) of this clause are likely to be fulfilled, the Contractor, prior to entering into such an agreement, must obtain the approval of the Contracting Officer. The Contracting Officer shall act on any such requests for approval within thirty (30) days.

(3) The Contractor agrees to be bound by the provisions of *35 U.S.C. 204* (Preference for United States industry).

Indemnity-Product Liability. In entering into written technology transfer agreements, including but not limited to, research and development agreements, licenses, assignments and CRADAs, the Contractor agrees to include in such agreements a requirement that the U.S. Government and the Contractor, except for any negligent acts or omissions of the Contractor, be indemnified for all damages, costs, and expenses, including attorneys' fees, arising from personal injury or property damage occurring as a result of the making, using or selling of a product, process or service by or on behalf of the Participant, its assignees or licensees which was derived from the work performed under the agreement. The Contractor shall identify and obtain the approval of the Contracting Officer for any proposed exceptions to this requirement such as where State or local law expressly prohibit the Participant from providing indemnification or where the research results will be placed in the public domain.

## (h) Disposition of Income.

- **(1)** Royalties or other income earned or retained by the Contractor as a result of performance of authorized technology transfer activities herein shall be used by the Contractor for scientific research, development, technology transfer, and education at the Laboratory, consistent with the research and development mission and objectives of the Laboratory and subject to Section 12(b)(5) of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a(b)(5)) and Chapter 38 of the Patent Laws (35 U.S.C. 200 et seq.) as amended through the effective date of this contract award or modification. If the net amounts of such royalties and income received from patent licensing after payment of patenting costs, licensing costs, payments to inventors and other expenses incidental to the administration of Subject Inventions during any fiscal year exceed 5 percent of the Laboratory's budget for that fiscal year, 75 percent of such excess amounts shall be paid to the Treasury of the United States, and the remaining amount of such excess shall be used by the Contractor for the purposes as described above in this paragraph. Any inventions arising out of such scientific research and development activities shall be deemed to be Subject Inventions under the Contract.
- (2) The Contractor shall include as a part of its annual Laboratory Institutional Plan or other such annual document a plan setting out those uses to which royalties and other income received as a result of performance of authorized technology transfer activities herein will be applied at the Laboratory, and at the end of the year, provide a separate accounting for how the funds were actually used. Under no circumstances shall these

royalties and income be used for an illegal augmentation of funds furnished by the U.S. Government.

- (3) The Contractor shall establish subject to the approval of the Contracting Officer a policy for making awards or sharing of royalties with Contractor employees, other coinventors and coauthors, including Federal employee coinventors when deemed appropriate by the Contracting Officer.
- (i) Transfer to Successor Contractor. In the event of termination or upon the expiration of this Contract, any unexpended balance of income received for use at the Laboratory shall be transferred, at the Contracting Officer's request, to a successor Contractor, or in the absence of a successor Contractor, to such other entity as designated by the Contracting Officer. The Contractor shall transfer title, as one package, to the extent the Contractor retains title, in all patents and patent applications, licenses, accounts containing royalty revenues from such license agreements, including equity positions in third party entities, and other Intellectual Property rights which arose at the Laboratory, to the successor Contractor or to the Government as directed by the Contracting Officer.
- (j) Technology Transfer Affecting the National Security.
  - Officer, prior to entering into any technology transfer arrangement, when such technology or any part of such technology is classified or sensitive under Section 148 of the Atomic Energy Act (42 U.S.C. 2168). Such notification shall include sufficient information to enable DOE to determine the extent that commercialization of such technology would enhance or diminish security interests of the United States, or diminish communications within DOE's nuclear weapon production complex. DOE shall use its best efforts to complete its determination within sixty (60) days of the Contractor's notification, and provision of any supporting information, and DOE shall promptly notify the Contractor as to whether the technology is transferable.
  - (2) The Contractor shall include in all of its technology transfer agreements with third Parties, including, but not limited to, CRADAs, licensing agreements and assignments, notice to such third Parties that the export of goods and/or Technical Data from the United States may require some form of export control license or other authority from the U.S. Government and that failure to obtain such export control license may result in criminal liability under U.S. laws.
  - (3) For other than fundamental research as defined in National Security Decision Directive 189, the Contractor is responsible to conduct internal export control reviews and assure that technology is transferred in accordance with applicable law.

(k) Records. The Contractor shall maintain records of its technology transfer activities in a manner and to the extent satisfactory to the DOE and specifically including, but not limited to, the licensing agreements, assignments and the records required to implement the requirements of paragraphs (e), (f), and (h) of this clause and shall provide reports to the Contracting Officer to enable DOE to maintain the reporting requirements of Section 12(c)(6) of the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a(c)(6)). Such reports shall be made annually in a format to be agreed upon between the Contractor and DOE and in such a format which will serve to adequately inform DOE of the Contractor's technology transfer activities while protecting any data not subject to disclosure under the Rights in Technical Data clause and paragraph (n) of this clause. Such records shall be made available in accordance with the clauses of this Contract pertaining to inspection, audit and examination of records.

- (l) Reports to Congress. To facilitate DOE's reporting to Congress, the Contractor is required to submit annually to DOE a technology transfer plan for conducting its technology transfer function for the upcoming year, including plans for securing Intellectual Property rights in Laboratory innovations with commercial promise and plans for managing such innovations so as to benefit the competitiveness of United States industry. This plan shall be provided to the Contracting Officer on or before October 1st of each year.
- (m) Oversight and Appraisal. The Contractor is responsible for developing and implementing effective internal controls for all technology transfer activities consistent with the audit and record requirements of this Contract. Laboratory Contractor performance in implementing the technology transfer mission and the effectiveness of the Contractor's procedures will be evaluated by the Contracting Officer as part of the annual appraisal process, with input from the cognizant Secretarial Officer or program office.
- (n) Technology Transfer Through Cooperative Research and Development Agreements. Upon approval of the Contracting Officer and as provided in a DOE approved Joint Work Statement (JWS), the Laboratory Director, or designee, may enter into CRADAs on behalf of the DOE subject to the requirements set forth in this paragraph.
  - (1) Review and Approval of CRADAs.
    - (i) Except as otherwise directed in writing by the Contracting Officer, each JWS shall be submitted to the Contracting Officer for approval. The Contractor's Laboratory Director or designee shall provide a program mission impact statement and shall include an impact statement regarding related Intellectual Property rights known by the Contractor to be owned by the Government to assist

the Contracting Officer in the approval determination.

- (ii) The Contractor shall also include (specific to the proposed CRADA), a statement of compliance with the Fairness of Opportunity requirements of paragraph (e) of this clause.
- (iii) Within thirty (30) days after submission of a JWS or proposed CRADA, the Contracting Officer shall approve, disapprove or request modification to the JWS or CRADA. The Contracting Officer shall provide a written explanation to the Contractor's Laboratory Director or designee of any disapproval or requirement for modification of a JWS or proposed CRADA.
- (iv) Except as otherwise directed in writing by the Contracting Officer, the Contractor shall not enter into, or begin work under, a CRADA until approval of the CRADA has been granted by the Contracting Officer. The Contractor may submit its proposed CRADA to the Contracting Officer at the time of submitting its proposed JWS or any time thereafter.
- (2) Selection of Participants. The Contractor's Laboratory Director or designee in deciding what CRADA to enter into shall:
  - (i) Give special consideration to small business firms, and consortia involving small business firms;
  - (ii) Give preference to business units located in the United States which agree that products or processes embodying Intellectual Property will be substantially manufactured or practiced in the United States and, in the case of any industrial organization or other person subject to the control of a foreign company or Government, take into consideration whether or not such foreign Government permits United States agencies, organizations, or other persons to enter into cooperative research and development agreements and licensing agreements;
  - (iii) Provide Fairness of Opportunity in accordance with the requirements of paragraph (e) of this clause; and
  - (iv) Give consideration to the Conflicts of Interest requirements of paragraph (d) of this clause.
- (3) Withholding of Data.
  - (i) Data that is first produced as a result of research and development activities conducted under a CRADA and that would be a trade

Modification M412

secret or commercial or financial data that would be privileged or confidential, if such data had been obtained from a non-Federal third party, may be protected from disclosure under the Freedom of Information Act as provided in the Stevenson-Wydler Technology Innovation Act of 1980, as amended (15 U.S.C. 3710a(c)(7)) for a period as agreed in the CRADA of up to five (5)years from the time the data is first produced. The DOE shall cooperate with the Contractor in protecting such data.

- (ii) Unless otherwise expressly approved by the Contracting Officer in advance for a specific CRADA, the Contractor agrees, at the request of the Contracting Officer, to transmit such data to other DOE facilities for use by DOE or its Contractors by or on behalf of the Government. When data protected pursuant to paragraph (n)(3)(i) of this clause is so transferred, the Contractor shall clearly mark the data with a legend setting out the restrictions against private use and further dissemination, along with the expiration date of such restrictions.
- (iii) In addition to its authority to license Intellectual Property, the Contractor may enter into licensing agreements with third Parties for data developed by the Contractor under a CRADA subject to other provisions of this Contract. However, the Contractor shall neither use the protection against dissemination nor the licensing of data as an alternative to the submittal of invention disclosures which include data protected pursuant to paragraph (n)(3)(i) of this clause.
- (4) Work For Others and User Facility Programs.
  - (i) WFO and User Facility Agreements (UFAs) are not CRADAs and will be available for use by the Contractor in addition to CRADAs for achieving utilization of employee expertise and unique facilities for maximizing technology transfer. The Contractor agrees to inform prospective CRADA participants, which are intending to substantially pay full cost recovery for the effort under a proposed CRADA, of the availability of alternative forms of agreements, i.e., WFO and UFA, and of the Class Patent Waiver provisions associated therewith.
  - (ii) Where the Contractor believes that the transfer of technology to the U.S. domestic economy will benefit from, or other equity considerations dictate, an arrangement other than the Class Waiver of patent rights to the sponsor in WFO and UFAs, a request may be made to the Contracting Officer for an exception to the Class Waivers.

(iii) Rights to inventions made under agreements other than funding agreements with third Parties shall be governed by the appropriate provisions incorporated, with DOE approval, in such agreements, and the provisions in such agreements take precedence over any disposition of rights contained in this Contract. Disposition of rights under any such agreement shall be in accordance with any DOE class waiver (including Work for Others and User Class Waivers) or individually negotiated waiver which applies to the agreement.

# (5) Conflicts of Interest.

- (i) Except as provided in paragraph (n)(5)(iii) of this clause, the Contractor shall assure that no employee of the Contractor shall have a substantial role (including an advisory role) in the preparation, negotiation, or approval of a CRADA, if, to such employee's knowledge:
  - (A) Such employee, or the spouse, child, parent, sibling, or partner of such employee, or an organization (other than the Contractor) in which such employee serves as an officer, director, trustee, partner, or employee-
    - (1) holds financial interest in any entity, other than the Contractor, that has a substantial interest in the preparation, negotiation, or approval of the CRADA;
    - (2) receives a gift or gratuity from any entity, other than the Contractor, that has a substantial interest in the preparation, negotiation, or approval of the CRADA; or
  - (B) A financial interest in any entity, other than the Contractor, that has a substantial interest in the preparation, negotiation, or approval of the CRADA, is held by any person or organization with whom such employee is negotiating or has any arrangement concerning prospective employment.
- (ii) The Contractor shall require that each employee of the Contractor who has a substantial role (including an advisory role) in the preparation, negotiation, or approval of a CRADA certify through the Contractor to the Contracting Officer that the circumstances

described in paragraph (n)(5)(i) of this clause do not apply to that employee.

- (iii) The requirements of paragraphs (n)(5)(i) and (n)(5)(ii) of this clause shall not apply in a case where the Contracting Officer is advised by the Contractor in advance of the participation of an employee described in those paragraphs in the preparation, negotiation or approval of a CRADA of the nature of and extent of any financial interest described in paragraph (n)(5)(i) of this clause, and the Contracting Officer determines that such financial interest is not so substantial as to be considered likely to affect the integrity of the Contractor employee's participation in the process of preparing, negotiating, or approving the CRADA.
- (o) Technology Transfer in Other Cost-Sharing Agreements. In conducting research and development activities in cost-shared agreements not covered by paragraph (n) of this clause, the Contractor, with prior written permission of the Contracting Officer, may provide for the withholding of data produced thereunder in accordance with the applicable provisions of paragraph (n)(3) of this clause.
- (p) Technology Partnership Ombudsman.
  - (1) The Contractor agrees to establish a position to be known as "Technology Partnership Ombudsman," to help resolve complaints from outside organizations regarding the policies and actions of the Contractor with respect to technology partnerships (including CRADAs), patents owned by the Contractor for inventions made at the Laboratory, and technology licensing.
  - (2) The Ombudsman shall be a senior official of the Contractor's Laboratory staff, who is not involved in day-to-day technology partnerships, patents or technology licensing, or, if appointed from outside the Laboratory or facility, shall function as such senior official.
  - (3) The duties of the Technology Partnership Ombudsman shall include:
    - (i) Serving as the focal point for assisting the public and industry in resolving complaints and disputes with the Laboratory or facility regarding technology partnerships, patents, and technology licensing;
    - (ii) Promoting the use of collaborative alternative dispute resolution techniques, such as mediation, to facilitate the speedy and low cost resolution of complaints and disputes, when appropriate; and

(iii) Submitting a quarterly report, in a format provided by DOE, to the Secretary of Energy, the Administrator for Nuclear Security, the Director of the DOE Office of Dispute Resolution, and the Contracting Officer concerning the number and nature of complaints and disputes raised, along with the Ombudsman's assessment of their resolution, consistent with the protection of confidential and sensitive information.

(q) Nothing in paragraphs (c) Allowable Costs, (e) Fairness of Opportunity, (f) U.S. Industrial Competitiveness, (g) Indemnity-Product Liability, (h) Disposition of Income, and (i) Transfer to Successor Contractor of this clause are intended to apply to the Contractor's privately funded technology transfer activities if such privately funded activities are addressed elsewhere in the Contract.

(End of Clause)

# I-95 970.5227-4 Authorization and Consent (Aug 2002)

- (a) The Government authorizes and consents to all use and manufacture of any invention described in and covered by a United States patent in the performance of this Contract or any subcontract at any tier.
- (b) If the Contractor is sued for copyright infringement or anticipates the filing of such a lawsuit, the Contractor may request authorization and consent to copy a copyrighted work from the Contracting Officer. Programmatic necessity is a major consideration for DOE in determining whether to grant such request.

(c)

- (1) The Contractor agrees to include, and require inclusion of, the Authorization and Consent clause at 52.227-1, without Alternate 1, but suitably modified to identify the Parties, in all subcontracts expected to exceed \$100,000 at any tier for supplies or services, including construction, architect-engineer services, and materials, supplies, models, samples, and design or testing services.
- (2) The Contractor agrees to include, and require inclusion of, paragraph (a) of this Authorization and Consent clause, suitably modified to identify the Parties, in all subcontracts at any tier for research and development activities expected to exceed \$100,000.
- (3) Omission of an authorization and consent clause from any subcontract, including those valued less than \$100,000 does not affect this authorization and consent.

(End of Clause)

Modification M412

# I-96 970.5227-5 Notice and Assistance Regarding Patent and Copyright Infringement (Aug 2002)

- (a) The Contractor shall report to the Contracting Officer promptly and in reasonable written detail, each notice or claim of patent or copyright infringement based on the performance of this Contract of which the Contractor has knowledge.
- (b) If any person files a claim or suit against the Government on account of any alleged patent or copyright infringement arising out of the performance of this Contract or out of the use of any supplies furnished or work or services performed hereunder, the Contractor shall furnish to the Government, when requested by the Contracting Officer, all evidence and information in possession of the Contractor pertaining to such suit or claim. Except where the Contractor has agreed to indemnify the Government, the Contractor shall furnish such evidence and information at the expense of the Government.
- (c) The Contractor agrees to include, and require inclusion of, this clause suitably modified to identify the Parties, in all subcontracts at any tier expected to exceed \$100,000.

(End of Clause)

# I-97 970.5227-6 Patent Indemnity-Subcontracts (Dec 2000)

Except as otherwise authorized by the Contracting Officer, the Contractor shall obtain indemnification of the Government and its officers, agents, and employees against liability, including costs, for infringement of any United States patent (except a patent issued upon an application that is now or may hereafter be withheld from issue pursuant to a secrecy order by the Government) from Contractor's subcontractors for any Contract work subcontracted in accordance with FAR 48 CFR 52.227-3.

(End of Clause)

## I-98 970.5227-8 Refund of Royalties (Aug 2002)

- (a) During performance of this Contract, if any royalties are proposed to be charged to the Government as costs under this Contract, the Contractor agrees to submit for approval of the Contracting Officer, prior to the execution of any license, the following information relating to each separate item of royalty:
  - (1) Name and address of licensor;
  - (2) Patent numbers, patent application serial numbers, or other basis on which the royalty is payable;
  - (3) Brief description, including any part or model numbers of each contract item or component on which the royalty is payable;

- (4) Percentage or dollar rate of royalty per unit;
- (5) Unit price of contract item;
- (6) Number of units;
- (8) Total dollar amount of royalties; and
- (9) A copy of the proposed license agreement.
- (b) If specifically requested by the Contracting Officer, the Contractor shall furnish a copy of any license agreement entered into prior to the effective date of this clause and an identification of applicable claims of specific patents or other basis upon which royalties are payable.
- (c) The term "royalties" as used in this clause refers to any costs or charges in the nature of royalties, license fees, patent or license amortization costs, or the like, for the use of or for rights in patents and patent applications that are used in the performance of this Contract or any subcontract hereunder.
- (d) The Contractor shall furnish to the Contracting Officer, annually upon request, a statement of royalties paid or required to be paid in connection with performing this Contract and subcontracts hereunder.
- (e) For royalty payments under licenses entered into after the effective date of this Contract, costs incurred for royalties proposed under this paragraph shall be allowable only to the extent that such royalties are approved by the Contracting Officer. If the Contracting Officer determines that existing or proposed royalty payments are inappropriate, any payments subsequent to such determination shall be allowable only to the extent approved by the Contracting Officer.
- (f) Regardless of prior DOE approval of any individual payments or royalties, DOE may contest at any time the enforceability, validity, scope of, or title to a patent for which the Contractor makes a royalty or other payment.
- (g) If at any time within 3 years after final payment under this Contract, the Contractor for any reason is relieved in whole or in part from the payment of any royalties to which this clause applies, the Contractor shall promptly notify the Contracting Office of that fact and shall promptly reimburse the Government for any refunds received or royalties paid after having received notice of such relief.
- (h) The Contractor agrees to include, and require inclusion of, this clause, including this paragraph (h), suitably modified to identify the Parties in any subcontract at any tier in which the amount of royalties reported during negotiation of the subcontract exceeds \$250.

(End of Clause)

Modification M412

# I-99 970.5227-10 Patent Rights-Management and Operating Contracts, Nonprofit Organization or Small Business Firm Contractor (Aug 2002)

- (a) Definitions.
  - (1) DOE licensing regulations means the Department of Energy patent licensing regulations at 10 CFR Part 781.
  - (2) Exceptional circumstance subject invention means any subject invention in a technical field or related to a task determined by the Department of Energy to be subject to an exceptional circumstance under *35 U.S.C.* 202(a)(ii) and in accordance with 37 CFR 401.3(e).
  - (3) Invention means any invention or discovery which is or may be patentable or otherwise protectable under Title 35 of the United States Code, or any novel variety of plant which is or may be protected under the Plant Variety Protection Act (7 U.S.C. 2321 et seq.).
  - (4) Made when used in relation to any invention means the conception or first actual reduction to practice of such invention.
  - (5) Nonprofit organization means a university or other institution of higher education or an organization of the type described in section 501(c)(3) of the Internal Revenue Code of 1954 (26 U.S.C. 501(c)) and exempt from taxation under section 501(a) of the Internal Revenue Code (26 U.S.C. 501(a)) or any nonprofit scientific or educational organization qualified under a state nonprofit organization statute.
  - (6) Patent Counsel means the Department of Energy (DOE) Patent Counsel assisting the DOE contracting activity.
  - (7) Practical application means to manufacture, in the case of a composition or product; to practice, in the case of a process or method; or to operate, in the case of a machine or system; and, in each case, under such conditions as to establish that the invention is being utilized and that its benefits are, to the extent permitted by law or Government regulations, available to the public on reasonable terms.
  - (8) Small business firm means a small business concern as defined at section 2 of Pub. L. 85-536 (15 U.S.C. 632) and implementing regulations of the Administrator of the Small Business Administration. For the purpose of this clause, the size standards for small business concerns involved in Government procurement and subcontracting at 13 CFR 121.3-8 and 13 CFR 121.3-12, respectively, are used.

(9) Subject Invention means any invention of the Contractor conceived or first actually reduced to practice in the performance of work under this Contract, provided that in the case of a variety of plant, the date of determination (as defined in section 41(d) of the Plant Variety Protection Act, 7 *U.S.C.* 2401(d)) shall also occur during the period of Contract performance.

- (b) Allocation of Principal Rights.
  - (1) Retention of title by the Contractor. Except for exceptional circumstance subject inventions, the Contractor may retain the entire right, title, and interest throughout the world to each subject invention subject to the provisions of this clause and 35 U.S.C. 203. With respect to any subject invention in which the Contractor retains title, the Federal Government shall have a nonexclusive, nontransferable, irrevocable, paid-up license to practice or have practiced for or on behalf of the United States the subject invention throughout the world.
  - (2) Exceptional circumstance subject inventions. Except to the extent that rights are retained by the Contractor in a determination of exceptional circumstances or granted to a Contractor through a determination of greater rights in accordance with subparagraph (b)(4) of this clause, the Contractor does not have a right to retain title to any exceptional circumstance subject inventions and agrees to assign to the Government the entire right, title, and interest, throughout the world, in and to any exceptional circumstance subject inventions.
    - (i) Inventions within or relating to the following fields of technology are exceptional circumstance subject inventions:
      - (A) uranium enrichment technology;
      - (B) storage and disposal of civilian high-level nuclear waste and spent fuel technology; and
      - (C) national security technologies classified or sensitive under Section 148 of the Atomic Energy Act (42 U.S.C. 2168).
    - (ii) Inventions made under any agreement, contract or subcontract related to the following are exceptional circumstance subject inventions:
      - (A) DOE Steel Initiative and Metals Initiative;
      - (B) U.S. Advanced Battery Consortium; and

(C) any funding agreement which is funded in part by the Electric Power Research Institute (EPRI) or the Gas Research Institute (GRI).

- (iii) DOE reserves the right to unilaterally amend this Contract to modify, by deletion or insertion, technical fields, tasks, or other classifications for the purpose of determining DOE exceptional circumstance subject inventions.
- (3) Treaties and international agreements. Any rights acquired by the Contractor in subject inventions are subject to any disposition of right, title, or interest in or to subject inventions provided for in treaties or international agreements identified at Appendix [Insert Reference] to this Contract. DOE reserves the right to unilaterally amend this Contract to identify specific treaties or international agreements entered into or to be entered into by the Government after the effective date of this Contract and to effectuate those license or other rights which are necessary for the Government to meet its obligations to foreign Governments, their nationals and international organizations [\*81060] under such treaties or international agreements with respect to subject inventions made after the date of the amendment.
- (4) Contractor request for greater rights in exceptional circumstance subject inventions. The Contractor may request rights greater than allowed by the exceptional circumstance determination in an exceptional circumstance subject invention by submitting such a request in writing to Patent Counsel at the time the exceptional circumstance subject invention is disclosed to DOE or within eight (8) months after conception or first actual reduction to practice of the exceptional circumstance subject invention, whichever occurs first, unless a longer period is authorized in writing by the Patent Counsel for good cause shown in writing by the Contractor. DOE may, in its discretion, grant or refuse to grant such a request by the Contractor.
- (5) Contractor employee-inventor rights. If the Contractor does not elect to retain title to a subject invention or does not request greater rights in an exceptional circumstance subject invention, a Contractor employee-inventor, after consultation with the Contractor and with written authorization from the Contractor in accordance with 10 CFR 784.9(b)(4), may request greater rights, including title, in the subject invention or the exceptional circumstance invention from DOE, and DOE may, in its discretion, grant or refuse to grant such a request by the Contractor employee-inventor.
- (6) Government assignment of rights in Government employees' subject inventions. If a Government employee is a joint inventor of a subject

Modification M412

invention or of an exceptional circumstance subject invention to which the Contractor has rights, the Government may assign or refuse to assign to the Contractor any rights in the subject invention or exceptional circumstance subject invention acquired by the Government from the Government employee, in accordance with 48 CFR 27.304-1(d). The rights assigned to the Contractor are subject to any provision of this clause that is applicable to subject inventions in which the Contractor retains title, including reservation by the Government of a nonexclusive, nontransferable, irrevocable, paid-up license, except that the Contractor shall file its initial patent application claiming the subject invention or exceptional circumstance invention within one (1) year after the assignment of such rights. The Contractor shall share royalties collected for the manufacture, use or sale of the subject invention with the Government employee.

- (c) Subject Invention Disclosure, Election of Title and Filing of Patent Application by Contractor.
  - Subject invention disclosure. The Contractor will disclose each subject **(1)** invention to the Patent Counsel within two months after the inventor discloses it in writing to Contractor personnel responsible for patent matters. The disclosure to the agency shall be in the form of a written report and shall identify the contract under which the invention was made and the inventor(s) and all sources of funding by B&R code for the invention. It shall be sufficiently complete in technical detail to convey a clear understanding to the extent known at the time of the disclosure, of the nature, purpose, operation, and the physical, chemical, biological or electrical characteristics of the invention. The disclosure shall also identify any publication, on sale or public use of the invention and whether a manuscript describing the invention has been submitted for publication and, if so, whether it has been accepted for publication at the time of disclosure. The disclosure shall include a written statement as to whether the invention falls within an exceptional circumstance field. DOE will make a determination and advise the Contractor within 30 days of receipt of an invention disclosure as to whether the invention is an exceptional circumstance subject invention. In addition, after disclosure to the Patent Counsel, the Contractor will promptly notify the agency of the acceptance of any manuscript describing the invention for publication or of any on sale or public use planned by the Contractor. The Contractor shall obtain approval from Patent Counsel prior to any release or publication of information concerning any nonelectable subject invention such as an exceptional circumstance subject invention or any subject invention related to a treaty or international agreement.
  - (2) Election by the Contractor. Except as provided in paragraph (b)(2) of this clause, the Contractor will elect in writing whether or not to retain title to

any such invention by notifying the Federal agency within two years of disclosure to the Federal agency. However, in any case where publication, on sale or public use has initiated the one year statutory period wherein valid patent protection can still be obtained in the United States, the period for election of title may be shortened by the agency to a date that is no more than 60 days prior to the end of the statutory period.

- (3) Filing of patent applications by the Contractor. The Contractor will file its initial patent application on a subject invention to which it elects to retain title within one year after election of title or, if earlier, or prior to the end of any 1-year statutory period wherein valid patent protection can be obtained in the United States after a publication, on sale, or public use. The Contractor will file patent applications in additional countries or international patent offices within either ten months of the corresponding initial patent application or six months from the date permission is granted by the Commissioner of Patents and Trademarks to file foreign patent applications where such filing has been prohibited by a Secrecy Order.
- (4) Contractor's request for an extension of time. Requests for an extension of the time for disclosure, election, and filing under subparagraphs (c)(1), (2) and (3) may, at the discretion of Patent Counsel, be granted.
- (5) Publication Approval. During the course of the work under this Contract, the Contractor or its employees may desire to release or publish information regarding scientific or technical developments conceived or first actually reduced to practice in the course of or under this Contract. In order that public disclosure of such information will not adversely affect the patent interest of DOE or the Contractor, approval for release or publication shall be secured from the Contractor personnel responsible for patent matters prior to any such release or publication. Where DOE's approval of publication is requested, DOE's response to such requests for approval shall normally be provided within 90 days except in circumstances in which a domestic patent application must be filed in order to protect foreign rights. In the case involving foreign patent rights, DOE shall be granted an additional 180 days with which to respond to the request for approval, unless extended by mutual agreement.
- (d) Conditions When the Government May Obtain Title.

The Contractor will convey to the DOE, upon written request, title to any subject invention-

(1) If the Contractor fails to disclose or elect title to the subject invention within the times specified in paragraph (c) of this clause, or elects not to retain title; provided, that DOE may only request title within sixty (60)

days after learning of the failure of the Contractor to disclose or to elect within the specified times.

- (2) In those countries in which the Contractor fails to file a patent application within the times specified in subparagraph (c) of this clause; provided, however, that if the Contractor has filed a patent application in a country after the times specified in subparagraph (c) above, but prior to its receipt of the written request of the DOE, the Contractor shall continue to retain title in that country.
- (3) In any country in which the Contractor decides not to continue the prosecution of any application for, to pay the maintenance fees on, or defend in a reexamination or opposition proceeding on, a patent on a subject invention.
- (4) If the Contractor requests that DOE acquire title or rights from the Contractor in a subject invention to which the Contractor had initially retained title or rights, or in an exceptional circumstance subject invention to which the Contractor was granted greater rights, DOE may acquire such title or rights from the Contractor, or DOE may decide against acquiring such title or rights from the Contractor, at DOE's sole discretion.
- (e) Minimum Rights of the Contractor and Protection of the Contractor's Right to File.
  - (1) Request for a Contractor license. The Contractor may request the right to reserve a revocable, nonexclusive, royalty-free license throughout the world in each subject invention to which the Government obtains title, except if the Contractor fails to disclose the invention within the times specified in paragraph (c) of this clause. DOE may grant or refuse to grant such a request by the Contractor. When DOE approves such reservation, the Contractor's license will normally extend to its domestic subsidiaries and affiliates, if any, within the corporate structure of which the Contractor is a party and includes the right to grant sublicenses of the same scope to the extent the Contractor was legally obligated to do so at the time the contract was awarded. The license is transferable only with the approval of DOE except when transferred to the successor of that part of the Contractor's business to which the invention pertains.
  - (2) Revocation or modification of a Contractor license. The Contractor's domestic license may be revoked or modified by DOE to the extent necessary to achieve expeditious practical application of the subject invention pursuant to an application for an exclusive license submitted in accordance with applicable provisions at 37 CFR Part 404 and DOE licensing regulations at 10 CFR Part 781. This license will not be revoked in the field of use or the geographical areas in which the Contractor has

achieved practical application and continues to make the benefits of the subject invention reasonably accessible to the public. The license in any foreign country may be revoked or modified at the discretion of DOE to the extent the Contractor, its licensees, or the domestic subsidiaries or affiliates have failed to achieve practical application of the subject invention in that foreign country.

- (3) Notice of revocation of modification of a Contractor license. Before revocation or modification of the license, DOE will furnish the Contractor a written notice of its intention to revoke or modify the license, and the Contractor will be allowed thirty days (or such other time as may be authorized by DOE for good cause shown by the Contractor) after the notice to show cause why the license should not be revoked or modified. The Contractor has the right to appeal, in accordance with applicable regulations in 37 CFR part 404 and DOE licensing regulations at 10 CFR part 781 concerning the licensing of Government owned inventions, any decision concerning the revocation or modification of the license.
- (f) Contractor Action to Protect the Government's Interest.
  - (1) Execution of delivery of title or license instruments. The Contractor agrees to execute or to have executed, and promptly deliver to the Patent Counsel all instruments necessary to accomplish the following actions:
    - (i) establish or confirm the rights the Government has throughout the world in those subject inventions to which the Contractor elects to retain title, and
    - (ii) convey title to DOE when requested under subparagraphs (b) or paragraph (d) of this clause and to enable the Government to obtain patent protection throughout the world in that subject invention.
  - (2) Contractor employee agreements. The Contractor agrees to require, by written agreement, its employees, other than clerical and nontechnical employees, to disclose promptly in writing to Contractor personnel identified as responsible for the administration of patent matters and in a format suggested by the Contractor, each subject invention made under this Contract in order that the Contractor can comply with the disclosure provisions of paragraph (c) of this clause, and to execute all papers necessary to file patent applications on subject inventions and to establish the Government's rights in the subject inventions. This disclosure format should require, as a minimum, the information required by subparagraph (c)(1) of this clause. The Contractor shall instruct such employees, through employee agreements or other suitable educational programs, on the

importance of reporting inventions in sufficient time to permit the filing of patent applications prior to U.S. or foreign statutory bars.

- (3) Notification of discontinuation of patent protection. The Contractor will notify the Patent Counsel of any decision not to continue the prosecution of a patent application, pay maintenance fees, or defend in a reexamination or opposition proceeding on a patent, in any country, not less than thirty days before the expiration of the response period required by the relevant patent office.
- (4) Notification of Government rights. The Contractor agrees to include, within the specification of any United States patent applications and any patent issuing thereon covering a subject invention, the following statement, "This invention was made with Government support under (identify the contract) awarded by (identify the Federal agency). The Government has certain rights in the invention."
- (5) Invention Identification Procedures. The Contractor shall establish and maintain active and effective procedures to ensure that subject inventions are promptly identified and timely disclosed and shall submit a written description of such procedures to the Contracting Officer so that the Contracting Officer may evaluate and determine their effectiveness.
- (6) Invention Filing Documentation. If the Contractor files a domestic or foreign patent application claiming a subject invention, the Contractor shall promptly submit to Patent Counsel, upon request, the following information and documents:
  - (i) the filing date, serial number, title, and a copy of the patent application (including an English-language version if filed in a language other than English);
  - (ii) an executed and approved instrument fully confirmatory of all Government rights in the subject invention; and
  - (iii) the patent number, issue date, and a copy of any issued patent claiming the subject invention.
- (7) Duplication and disclosure of documents. The Government may duplicate and disclose subject invention disclosures and all other reports and papers furnished or required to be furnished pursuant to this clause; provided, however, that any such duplication or disclosure by the Government is subject to the confidentiality provision at 35 U.S.C. 205 and 37 CFR Part 40.
- (g) Subcontracts.

(1) Subcontractor subject inventions. The Contractor shall not obtain rights in the subcontractor's subject inventions as part of the consideration for awarding a subcontract.

- Inclusion of patent rights clause-non-profit organization or small business firm subcontractors. Unless otherwise authorized or directed by the Contracting Officer, the Contractor shall include the patent rights clause at 48 CFR 952.227-11, suitably modified to identify the Parties, in all subcontracts, at any tier, for experimental, developmental, demonstration or research work to be performed by a small business firm or domestic nonprofit organization, except subcontracts which are subject to exceptional circumstances in accordance with 35 U.S.C. 202 and subparagraph (b)(2) of this clause. The subcontractor retains all rights provided for the Contractor in the patent rights clause at 48 CFR 952.227-11.
- (3) Inclusion of patent rights clause-Subcontractors other than non-profit organizations and small business firms. Except for the subcontracts described in subparagraph (g)(2) of this clause, the Contractor shall include the patent rights clause at 48 CFR 952.227-13, suitably modified to identify the Parties, in any contract for experimental, developmental, demonstration or research work. For subcontracts subject to exceptional circumstances, the Contractor must consult with DOE patent counsel with respect to the appropriate patent clause.
- (4) DOE and Subcontractor contract. With respect to subcontracts at any tier, DOE, the Subcontractor, and the Contractor agree that the mutual obligations of the Parties created by this clause constitute a contract between the Subcontractor and DOE with respect to the matters covered by the clause; provided, however, that nothing in this paragraph is intended to confer any jurisdiction under the Contract Disputes Act in connection with proceedings under paragraph (j) of this clause.
- Subcontractor refusal to accept terms of patent clause. If a prospective Subcontractor refuses to accept the terms of a patent rights clause, the Contractor shall promptly submit a written notice to the Contracting Officer stating the Subcontractor's reasons for such a refusal, including any relevant information for expediting disposition of the matter, and the Contractor shall not proceed with the subcontract without the written authorization of the Contracting Officer.
- (6) Notification of award of subcontract. Upon the award of any subcontract at any tier containing a patent rights clause, the Contractor shall promptly notify the Contracting Officer in writing and identify the Subcontractor, the applicable patent rights clause, the work to be performed under the subcontract, and the dates of award and estimated completion. Upon

request of the Contracting Officer, the Contractor shall furnish a copy of a subcontract.

- (7) Identification of Subcontractor subject inventions. If the Contractor in the performance of this contract becomes aware of a subject invention made under a subcontract, the Contractor shall promptly notify Patent Counsel and identify the subject invention.
- (h) Reporting on Utilization of Subject Inventions. The Contractor agrees to submit to DOE on request, periodic reports, no more frequently than annually, on the utilization of a subject invention or on efforts at obtaining such utilization that are being made by the Contractor or its licensees or assignees. Such reports shall include information regarding the status of development, date of first commercial sale or use, gross royalties received by the Contractor, and such other data and information as DOE may reasonably specify. The Contractor also agrees to provide additional reports as may be requested by DOE in connection with any march-in proceeding undertaken by DOE in accordance with paragraph (j) of this clause. As required by 35 U.S.C. 202(c)(5), DOE agrees it will not disclose such information to persons outside the Government without permission of the Contractor.
- (i) Preference for United States Industry. Notwithstanding any other provision of this clause, the Contractor agrees that neither it nor any assignee will grant to any person the exclusive right to use or sell any subject invention in the United States unless such person agrees that any product embodying the subject invention or produced through the use of the subject invention will be manufactured substantially in the United States. However, in individual cases, the requirement for such an agreement may be waived by DOE upon a showing by the Contractor or its assignee that reasonable but unsuccessful efforts have been made to grant licenses on similar terms to potential licensees that would be likely to manufacture substantially in the United States or that under the circumstances domestic manufacture is not commercially feasible.
- (j) March-in Rights. The Contractor agrees that, with respect to any subject invention in which it has acquired title, DOE has the right in accordance with the procedures in 37 CFR 401.6 and any DOE supplemental regulations to require the Contractor, an assignee or exclusive licensee of a subject invention to grant a nonexclusive, partially exclusive, or exclusive license in any field of use to a responsible applicant or applicants, upon terms that are reasonable under the circumstances, and, if the Contractor, assignee or exclusive licensee refuses such a request, DOE has the right to grant such a license itself if DOE determines that-
  - (1) Such action is necessary because the Contractor or assignee has not taken, or is not expected to take within a reasonable time, effective steps to achieve practical application of the subject invention in such field of use;

- (2) Such action is necessary to alleviate health or safety needs which are not reasonably satisfied by the Contractor, assignee, or their licensees;
- (3) Such action is necessary to meet requirements for public use specified by Federal regulations and such requirements are not reasonably satisfied by the Contractor, assignee, or licensees; or
- (4) Such action is necessary because the agreement required by paragraph (i) of this clause has not been obtained or waived, or because a licensee of the exclusive right to use or sell any subject invention in the United States is in breach of such agreement.
- (k) Special Provisions for Contracts With Nonprofit Organizations. If the Contractor is a nonprofit organization, it agrees that-
  - (1) DOE approval of assignment of rights. Rights to a subject invention in the United States may not be assigned by the Contractor without the approval of DOE, except where such assignment is made to an organization which has as one of its primary functions the management of inventions; provided, that such assignee will be subject to the same provisions of this clause as the Contractor.
  - Small business firm licensees. It will make efforts that are reasonable (2) under the circumstances to attract licensees of subject inventions that are small business firms, and that it will give a preference to a small business firm when licensing a subject invention if the Contractor determines that the small business firm has a plan or proposal for marketing the invention which, if executed, is equally as likely to bring the invention to practical application as any plans or proposals from applicants that are not small business firms; provided, that the Contractor is also satisfied that the small business firm has the capability and resources to carry out its plan or proposal. The decision whether to give a preference in any specific case will be at the discretion of the Contractor. However, the Contractor agrees that the Secretary of Commerce may review the Contractor's licensing program and decisions regarding small business firm applicants, and the Contractor will negotiate changes to its licensing policies, procedures, or practices with the Secretary of Commerce when that Secretary's review discloses that the Contractor could take reasonable steps to more effectively implement the requirements of this subparagraph (k)(2).
  - (3) Contractor licensing of subject inventions. To the extent that it provides the most effective technology transfer, licensing of subject inventions shall be administered by Contractor employees on location at the facility.

Modification M412

(l) Communications. The Contractor shall direct any notification, disclosure or request provided for in this clause to the Patent Counsel assisting the DOE contracting activity.

# (m) Reports.

- (1) Interim reports. Upon DOE's request, the Contractor shall submit to DOE, no more frequently than annually, a list of subject inventions disclosed to DOE during a specified period, or a statement that no subject inventions were made during the specified period; and a list of subcontracts containing a patent clause and awarded by the Contractor during a specified period, or a statement that no such subcontracts were awarded during the specified period.
- (2) Final reports. Upon DOE's request, the Contractor shall submit to DOE, prior to closeout of the Contract, a list of all subject inventions disclosed during the performance period of the Contract, or a statement that no subject inventions were made during the Contract performance period; and a list of all subcontracts containing a patent clause and awarded by the Contractor during the Contract performance period, or a statement that no such subcontracts were awarded during the Contract performance period.
- (n) Examination of Records Relating to Subject Inventions.
  - (1) Contractor compliance. Until the expiration of three (3) years after final payment under this Contract, the Contracting Officer or any authorized representative may examine any books (including Laboratory notebooks), records, documents, and other supporting data of the Contractor, which the Contracting Officer or authorized representative deems reasonably pertinent to the discovery or identification of subject inventions, including exceptional circumstance subject inventions, or to determine Contractor compliance with any requirement of this clause.
  - Unreported inventions. If the Contracting Officer is aware of an invention that is not disclosed by the Contractor to DOE, and the Contracting Officer believes the unreported invention may be a subject invention, including exceptional circumstance subject inventions, DOE may require the Contractor to submit to DOE a disclosure of the invention for a determination of ownership rights.
  - (3) Confidentiality. Any examination of records under this paragraph is subject to appropriate conditions to protect the confidentiality of the information involved.
  - (4) Power of inspection. With respect to a subject invention for which the Contractor has responsibility for patent prosecution, the Contractor shall

furnish the Government, upon request by DOE, an irrevocable power to inspect and make copies of a prosecution file for any patent application claiming the subject invention.

(o) Facilities License. In addition to the rights of the Parties with respect to inventions or discoveries conceived or first actually reduced to practice in the course of or under this Contract, the Contractor agrees to and does hereby grant to the Government an irrevocable, nonexclusive, paid-up license in and to any inventions or discoveries regardless of when conceived or actually reduced to practice or acquired by the Contractor at any time through completion of this Contract and which are incorporated or embodied in the construction of the facility or which are utilized in the operation of the facility or which cover articles, materials, or product manufactured at the facility (1) to practice or have practiced by or for the Government at the facility, and (2) to transfer such license with the transfer of that facility. Notwithstanding the acceptance or exercise by the Government of these rights, the Government may contest at any time the enforceability, validity or scope of, or title to, any rights or patents herein licensed.

## (p) Atomic Energy.

- (1) Pecuniary awards. No claim for pecuniary award of compensation under the provisions of the Atomic Energy Act of 1954, as amended, may be asserted with respect to any invention or discovery made or conceived in the course of or under this Contract.
- (2) Patent agreements. Except as otherwise authorized in writing by the Contracting Officer, the Contractor shall obtain patent agreements to effectuate the provisions of subparagraph (p)(1) of this clause from all persons who perform any part of the work under this Contract, except nontechnical personnel, such as clerical employees and manual laborers.

### (q) Classified Inventions.

- (1) Approval for filing a foreign patent application. The Contractor shall not file or cause to be filed an application or registration for a patent disclosing a subject invention related to classified subject matter in any country other than the United States without first obtaining the written approval of the Contracting Officer.
- (2) Transmission of classified subject matter. If in accordance with this clause the Contractor files a patent application in the United States disclosing a subject invention that is classified for reasons of security, the Contractor shall observe all applicable security regulations covering the transmission of classified subject matter. If the Contractor transmits a patent application disclosing a classified subject invention to the United States Patent and

Trademark Office (USPTO), the Contractor shall submit a separate letter to the USPTO identifying the contract or contracts by agency and agreement number that require security classification markings to be placed on the patent application.

- (3) Inclusion of clause in subcontracts. The Contractor agrees to include the substance of this clause in subcontracts at any tier that cover or are likely to cover subject matter classified for reasons of security.
- (r) Patent Functions. Upon the written request of the Contracting Officer or Patent Counsel, the Contractor agrees to make reasonable efforts to support DOE in accomplishing patent-related functions for work arising out of the Contract, including, but not limited to, the prosecution of patent applications, and the determination of questions of novelty, patentability, and inventorship.
- (s) Educational Awards Subject to 35 U.S.C. 212. The Contractor shall notify the Contracting Officer prior to the placement of any person subject to 35 U.S.C. 212 in an area of technology or task (1) related to exceptional circumstance technology or (2) which is subject to treaties or international agreements as set forth in paragraph (b)(3) of this clause or agreements other than funding agreements. The Contracting Officer may disapprove of any such placement.
- (t) Annual Appraisal by Patent Counsel. Patent Counsel may conduct an annual appraisal to evaluate the Contractor's effectiveness in identifying and protecting subject inventions in accordance with DOE policy.

(End of clause)

### I-100 970.5228-1 Insurance-Litigation and Claims (Mar 2002)

- (a) The Contractor may, with the prior written authorization of the Contracting Officer, and shall, upon the request of the Government, initiate litigation against third Parties, including proceedings before administrative agencies, in connection with this Contract. The Contractor shall proceed with such litigation in good faith and as directed from time to time by the Contracting Officer.
- (b) The Contractor shall give the Contracting Officer immediate notice in writing of any legal proceeding, including any proceeding before an administrative agency, filed against the Contractor arising out of the performance of this Contract. Except as otherwise directed by the Contracting Officer, in writing, the Contractor shall furnish immediately to the Contracting Officer copies of all pertinent papers received by the Contractor with respect to such action. The Contractor, with the prior written authorization of the Contracting Officer, shall proceed with such litigation in good faith and as directed from time to time by the Contracting Officer.

Modification M412

(c)

- (1) Except as provided in paragraph (c)(2) of this clause, the Contractor shall procure and maintain such bonds and insurance as required by law or approved in writing by the Contracting Officer.
- (2) The Contractor may, with the approval of the Contracting Officer, maintain a self-insurance program; provided that, with respect to workers' compensation, the Contractor is qualified pursuant to statutory authority.
- (3) All bonds and insurance required by this clause shall be in a form and amount and for those periods as the Contracting Officer may require or approve and with sureties and insurers approved by the Contracting Officer.
- (d) The Contractor agrees to submit for the Contracting Officer's approval, to the extent and in the manner required by the Contracting Officer, any other bonds and insurance that are maintained by the Contractor in connection with the performance of this Contract and for which the Contractor seeks reimbursement. If an insurance cost (whether a premium for commercial insurance or related to self-insurance) includes a portion covering costs made unallowable elsewhere in the Contract, and the share of the cost for coverage for the unallowable cost is determinable, the portion of the cost that is otherwise an allowable cost under this Contract is reimbursable to the extent determined by the Contracting Officer.
- (e) Except as provided in subparagraphs (g) and (h) of this clause, or specifically disallowed elsewhere in this Contract, the Contractor shall be reimbursed-
  - (1) For that portion of the reasonable cost of bonds and insurance allocable to this Contract required in accordance with Contract terms or approved under this clause, and
  - (2) For liabilities (and reasonable expenses incidental to such liabilities, including litigation costs) to third persons not compensated by insurance or otherwise without regard to and as an exception to the clause of this Contract entitled "Obligation of Funds."
- (f) The Government's liability under paragraph (e) of this clause is subject to the availability of appropriated funds. Nothing in this Contract shall be construed as implying that the Congress will, at a later date, appropriate funds sufficient to meet deficiencies.
- (g) Notwithstanding any other provision of this Contract, the Contractor shall not be reimbursed for liabilities (and expenses incidental to such liabilities, including litigation costs, counsel fees, judgment and settlements)-

(1) Which are otherwise unallowable by law or the provisions of this Contract; or

- (2) For which the Contractor has failed to insure or to maintain insurance as required by law, this Contract, or by the written direction of the Contracting Officer.
- (h) In addition to the cost reimbursement limitations contained in 48 CFR Part 31, as supplemented by 48 CFR 970.31, and notwithstanding any other provision of this Contract, the Contractor's liabilities to third persons, including employees but excluding costs incidental to worker's compensation actions, (and any expenses incidental to such liabilities, including litigation costs, counsel fees, judgments and settlements) shall not be reimbursed if such liabilities were caused by Contractor managerial personnel's-
  - (1) Willful misconduct,
  - (2) Lack of good faith, or
  - (3) Failure to exercise prudent business judgment, which means failure to act in the same manner as a prudent person in the conduct of competitive business; or, in the case of a non-profit educational institution, failure to act in the manner that a prudent person would under the circumstances prevailing at the time the decision to incur the cost is made.
- (i) The burden of proof shall be upon the Contractor to establish that costs covered by paragraph (h) of this clause are allowable and reasonable if, after an initial review of the facts, the Contracting Officer challenges a specific cost or informs the Contractor that there is reason to believe that the cost results from willful misconduct, lack of good faith, or failure to exercise prudent business judgment by Contractor managerial personnel.

(j)

- (1) All litigation costs, including counsel fees, judgments and settlements shall be differentiated and accounted for by the Contractor so as to be separately identifiable. If the Contracting Officer provisionally disallows such costs, then the Contractor may not use funds advanced by DOE under the Contract to finance the litigation.
- (2) Punitive damages are not allowable unless the act or failure to act which gave rise to the liability resulted from compliance with specific terms and conditions of the Contract or written instructions from the Contracting Officer.

- (3) The portion of the cost of insurance obtained by the Contractor that is allocable to coverage of liabilities referred to in paragraph (g)(1) of this clause is not allowable.
- (4) The term "Contractor's managerial personnel" is defined in clause paragraph (j) of 48 CFR 970.5245-1 Property (Dec 2000) Alternate I (Dec 2000) (DEVIATION).
- (k) The Contractor may at its own expense and not as an allowable cost procure for its own protection insurance to compensate the Contractor for any unallowable or unreimbursable costs incurred in connection with Contract performance.
- (l) If any suit or action is filed or any claim is made against the Contractor, the cost and expense of which may be reimbursable to the Contractor under this Contract, and the risk of which is then uninsured or is insured for less than the amount claimed, the Contractor shall-
  - (1) Immediately notify the Contracting Officer and promptly furnish copies of all pertinent papers received;
  - (2) Authorize Department representatives to collaborate with: in-house or DOE-approved outside counsel in settling or defending the claim; or counsel for the insurance carrier in settling or defending the claim if the amount of the liability claimed exceeds the amount of coverage, unless precluded by the terms of the insurance contract; and
  - (3) Authorize Department representatives to settle the claim or to defend or represent the Contractor in and/or to take charge of any litigation, if required by the Department, if the liability is not insured or covered by bond. In any action against more than one Department Contractor, the Department may require the Contractor to be represented by common counsel. Counsel for the Contractor may, at the Contractor's own expense, be associated with the Department representatives in any such claim or litigation.

(End of Clause)

### I-101 970.5229-1 State and Local Taxes (Dec 2000)

(a) The Contractor agrees to notify the Contracting Officer of any State or local tax, fee, or charge levied or purported to be levied on or collected from the Contractor with respect to the Contract work, any transaction thereunder, or property in the custody or control of the Contractor and constituting an allowable item of cost if due and payable, but which the Contractor has reason to believe, or the Contracting Officer has advised the Contractor, is or may be inapplicable or

Modification M412

invalid; and the Contractor further agrees to refrain from paying any such tax, fee, or charge unless authorized in writing by the Contracting Officer. Any State or local tax, fee, or charge paid with the approval of the Contracting Officer or on the basis of advice from the Contracting Officer that such tax, fee, or charge is applicable and valid, and which would otherwise be an allowable item of cost, shall not be disallowed as an item of cost by reason of any subsequent ruling or determination that such tax, fee, or charge was in fact inapplicable or invalid.

- (b) The Contractor agrees to take such action as may be required or approved by the Contracting Officer to cause any State or local tax, fee, or charge which would be an allowable cost to be paid under protest; and to take such action as may be required or approved by the Contracting Officer to seek recovery of any payments made, including assignment to the Government or its designee of all rights to an abatement or refund thereof, and granting permission for the Government to join with the Contractor in any proceedings for the recovery thereof or to sue for recovery in the name of the Contractor. If the Contracting Officer directs the Contractor to institute litigation to enjoin the collection of or to recover payment of any such tax, fee, or charge referred to above, or if a claim or suit is filed against the Contractor for a tax, fee, or charge it has refrained from paying in accordance with this clause, the procedures and requirements of the clause entitled "Insurance-Litigation and Claims" shall apply and the costs and expenses incurred by the Contractor shall be allowable items of costs, as provided in this Contract, together with the amount of any judgment rendered against the Contractor.
- (c) The Government shall hold the Contractor harmless from penalties and interest incurred through compliance with this clause. All recoveries or credits in respect of the foregoing taxes, fees, and charges (including interest) shall inure to and be for the sole benefit of the Government.

(End of Clause)

## I-102 970.5231-4 Preexisting Conditions (Dec 2000) Alternate I (Dec 2000)

- (a) Any liability, obligation, loss, damage, claim (including without limitation, a claim involving strict or absolute liability), action, suit, civil fine or penalty, cost, expense or disbursement, which may be incurred or imposed, or asserted by any party and arising out of any condition, act or failure to act which occurred before October 1, 1998, in conjunction with the management and operation of the Pacific Northwest National Laboratory, shall be deemed incurred under Contract No. DE-AC06-76RL01830, Modification M198, dated October 14, 1992.
- (b) The obligations of the Department of Energy under this clause are subject to the availability of appropriated funds.

(End of Clause)

Modification M412

# I-103 970.5232-1 Reduction or Suspension of Advance, Partial, or Progress Payments (Dec 2000)

(a) The Contracting Officer may reduce or suspend further advance, partial, or progress payments to the Contractor upon a written determination by the Senior Procurement Executive that substantial evidence exists that the Contractor's request for advance, partial, or progress payment is based on fraud.

(b) The Contractor shall be afforded a reasonable opportunity to respond in writing. (End of Clause)

# I–104 970.5232-2 Payments and Advances (Dec 2000) Alternate II (Dec 2000) Alternate III (Dec 2000) (DEVIATION)

- (a) Payment of Total available fee: Base Fee and Performance Fee. The base fee amount, if any, is payable in equal monthly installments. Total available fee amount earned is payable following the Government's Determination of Total Available Fee Amount Earned in accordance with the clause of this Contract entitled "Total Available Fee: Base Fee Amount and Performance Fee Amount." Contractor performance fee shall be provisionally payable in accordance with the following:
  - (1) Monthly Provisional Fee Payments. The Contractor may withdraw against the payments cleared financing arrangement, up to one-twelfth (1/12) of 90% of the performance fee for the fiscal year, on the first day of each month, unless otherwise instructed in writing by the Contracting Officer.
  - (2) End of Year Provisional Fee Payment. Concurrent with the submittal to DOE of the Contractor's final self-assessment report for the fiscal year, and using the ratings contained in the report, the Contractor will provide to DOE an expected amount of performance fee earned, with that amount calculated as 95% of the anticipated amount of performance fee earned in accordance with the Performance Evaluation and Fee Agreement in Appendix E. Fifteen (15) calendar days after submittal of the fee calculation, the Contractor may withdraw not-to-exceed the expected amount of performance fee earned minus the cumulative provisional fee withdrawn to-date for the fiscal year, unless otherwise instructed in writing by the Contracting Officer.
  - (3) Final Fee Payment. Following DOE's Determination of Total Available Fee Amount Earned, the Contractor is authorized to withdraw any amount of earned fee over the amount previously paid on a provisional basis from the payments cleared financing arrangement. In the event DOE determines there has been an overpayment to the Contractor, such overpayment plus interest shall be redeposited to the payments cleared financing arrangement within 30 calendar days, or otherwise used as

Modification M412

directed by the Contracting Officer. Interest shall be computed from the date of overpayment to the date of repayment using the interest rate specified by the Secretary of the Treasury pursuant to Pub. L. 92-41 (85 Stat. 97).

Notwithstanding the above, base fee amount, total available fee amount earned, and provisional fee payments shall be made by direct payment or withdrawn from funds advanced or available under this Contract, unless otherwise directed in writing by the Contracting Officer. The Contracting Officer may offset against any such fee payment the amounts owed to the Government by the Contractor, including any amounts owed for disallowed costs under this Contract. Base fee amount, total available fee amount earned, and provisional fee payment may be withdrawn against the payments cleared financing arrangement unless otherwise directed in writing by the Contracting Officer.

- (b) Payments on Account of Allowable Costs. The Contracting Officer and the Contractor shall agree as to the extent to which payment for allowable costs or payments for other items specifically approved in writing by the Contracting Officer (for example, negotiated fixed amounts) shall be made from advances of Government funds. When pension contributions are paid by the Contractor to the retirement fund less frequently than quarterly, accrued costs therefor shall be excluded from costs for payment purposes until such costs are paid. If pension contributions are paid on a quarterly or more frequent basis, accrual therefor may be included in costs for payment purposes, provided that they are paid to the fund within 30 days after the close of the period covered. If payments are not made to the fund within such 30-day period, pension contribution costs shall be excluded from cost for payment purposes until payment has been made.
- (c) Special financial institution account-use. All advances of Government funds shall be withdrawn pursuant to a payments cleared financing arrangement prescribed by DOE in favor of the financial institution or, at the option of the Government, shall be made by direct payment or other payment mechanism to the Contractor, and shall be deposited only in the special financial institution account referred to in the Special Financial Institution Account Agreement, which is incorporated into this Contract as Appendix B. No part of the funds in the special financial institution account shall be commingled with any funds of the Contractor or used for a purpose other than that of making payments for costs allowable and, if applicable, fees earned under this Contract, negotiated fixed amounts, or payments for other items specifically approved in writing by the Contracting Officer. If the Contracting Officer determines that the balance of such special financial institution account exceeds the Contractor's current needs, the Contractor shall promptly make such disposition of the excess as the Contracting Officer may direct.
- (d) Title to funds advanced. Title to the unexpended balance of any funds advanced and of any special financial institution account established pursuant to this clause

Modification M412

shall remain in the Government and be superior to any claim or lien of the financial institution of deposit or others. It is understood that an advance to the Contractor hereunder is not a loan to the Contractor, and will not require the payment of interest by the Contractor, and that the Contractor acquires no right, title or interest in or to such advance other than the right to make expenditures therefrom, as provided in this clause.

- (e) Financial settlement. The Government shall promptly pay to the Contractor the unpaid balance of allowable costs (or other items specifically approved in writing by the Contracting Officer) and fee upon termination of the work, expiration of the term of the Contract, or completion of the work and its acceptance by the Government after:
  - (1) Compliance by the Contractor with DOE's patent clearance requirements, and
  - (2) The furnishing by the Contractor of:
    - (i) An assignment of the Contractor's rights to any refunds, rebates, allowances, accounts receivable, collections accruing to the Contractor in connection with the work under this Contract, or other credits applicable to allowable costs under the Contract;
    - (ii) A closing financial statement;
    - (iii) The accounting for Government-owned property required by the clause entitled "Property"; and
    - (iv) A release discharging the Government, its officers, agents, and employees from all liabilities, obligations, and claims arising out of or under this Contract subject only to the following exceptions:
      - (A) Specified claims in stated amounts or in estimated amounts where the amounts are not susceptible to exact statement by the Contractor;
      - (B) Claims, together with reasonable expenses incidental thereto, based upon liabilities of the Contractor to third Parties arising out of the performance of this Contract; provided that such claims are not known to the Contractor on the date of the execution of the release; and provided further that the Contractor gives notice of such claims in writing to the Contracting Officer promptly, but not more than one (1) year after the Contractor's right of action first accrues. In addition, the Contractor shall provide prompt notice to the Contracting Officer of all potential claims

under this clause, whether in litigation or not (see also Contract Clause--, DEAR 970.5228-1, "Insurance-Litigation and Claims");

- (C) Claims for reimbursement of costs (other than expenses of the Contractor by reason of any indemnification of the Government against patent liability), including reasonable expenses incidental thereto, incurred by the Contractor under the provisions of this Contract relating to patents; and
- (D) Claims recognizable under the clause entitled, Nuclear Hazards Indemnity Agreement.
- (3) In arriving at the amount due the Contractor under this clause, there shall be deducted,
  - (i) Any claim which the Government may have against the Contractor in connection with this Contract, and
  - (ii) Deductions due under the terms of this Contract, and not otherwise recovered by or credited to the Government. The unliquidated balance of the special financial institution account may be applied to the amount due and any balance shall be returned to the Government forthwith.
- (f) Claims. Claims for credit against funds advanced for payment shall be accompanied by such supporting documents and justification as the Contracting Officer shall prescribe.
- (g) Discounts. The Contractor shall take and afford the Government the advantage of all known and available cash and trade discounts, rebates, allowances, credits, salvage, and commissions unless the Contracting Officer finds that action is not in the best interest of the Government.
- (h) Collections. All collections accruing to the Contractor in connection with the work under this Contract, except for the Contractor's fee and royalties or other income accruing to the Contractor from technology transfer activities in accordance with this Contract, shall be Government property and shall be processed and accounted for in accordance with applicable requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this Contract and, to the extent consistent with those requirements, shall be deposited in the special financial institution account or otherwise made available for payment of allowable costs under this Contract, unless otherwise directed by the Contracting Officer.

(i) Direct payment of charges. The Government reserves the right, upon ten days written notice from the Contracting Officer to the Contractor, to pay directly to the persons concerned, all amounts due which otherwise would be allowable under this Contract. Any payment so made shall discharge the Government of all liability to the Contractor therefor.

- (j) Determining allowable costs. The Contracting Officer shall determine allowable costs in accordance with the Federal Acquisition Regulation subpart 31.2 and the Department of Energy Acquisition Regulation subpart 48 CFR 970.31 in effect on the date of this Contract and other provisions of this Contract.
- (k) Review and approval of costs incurred. The Contractor shall prepare and submit annually as of September 30, a "Statement of Costs Incurred and Claimed" (Cost Statement) for the total of net expenditures accrued (i.e., net costs incurred) for the period covered by the Cost Statement. The Contractor shall certify the Cost Statement subject to the penalty provisions for unallowable costs as stated in sections 306(b) and (i) of the Federal Property and Administrative Services Act of 1949 (41 U.S.C. 256), as amended. DOE, after audit and appropriate adjustment, will approve such Cost Statement. This approval by DOE will constitute an acknowledgment by DOE that the net costs incurred are allowable under the Contract and that they have been recorded in the accounts maintained by the Contractor in accordance with DOE accounting policies, but will not relieve the Contractor of responsibility for DOE's assets in its care, for appropriate subsequent adjustments, or for errors later becoming known to DOE.

  (End of Clause)

# I–105 970.5232-3 Accounts, Records, and Inspection (Dec 2000) Alternate II (Dec 2000)

- (a) Accounts. The Contractor shall maintain a separate and distinct set of accounts, records, documents, and other evidence showing and supporting: all allowable costs incurred; collections accruing to the Contractor in connection with the work under this Contract, other applicable credits, negotiated fixed amounts, and fee accruals under this Contract; and the receipt, use, and disposition of all Government property coming into the possession of the Contractor under this Contract. The system of accounts employed by the Contractor shall be satisfactory to DOE and in accordance with generally accepted accounting principles consistently applied.
- (b) Inspection and audit of accounts and records. All books of account and records relating to this Contract shall be subject to inspection and audit by DOE or its designees in accordance with the provisions of Clause--, Access to and ownership of records, at all reasonable times, before and during the period of retention provided for in paragraph (d) of this clause, and the Contractor shall afford DOE proper facilities for such inspection and audit.

(c) Audit of Subcontractors' records. The Contractor also agrees, with respect to any subcontracts (including fixed-price or unit-price subcontracts or purchase orders) where, under the terms of the subcontract, costs incurred are a factor in determining the amount payable to the subcontractor of any tier, to either conduct an audit of the subcontractor's costs or arrange for such an audit to be performed by the cognizant Government audit agency through the Contracting Officer.

- (d) Disposition of records. Except as agreed upon by the Government and the Contractor, all financial and cost reports, books of account and supporting documents, system files, data bases, and other data evidencing costs allowable, collections accruing to the Contractor in connection with the work under this Contract, other applicable credits, and fee accruals under this Contract, shall be the property of the Government, and shall be delivered to the Government or otherwise disposed of by the Contractor either as the Contracting Officer may from time to time direct during the progress of the work or, in any event, as the Contracting Officer shall direct upon completion or termination of this Contract and final audit of accounts hereunder. Except as otherwise provided in this Contract, including provisions of Clause--, Access to and ownership of records, all other records in the possession of the Contractor relating to this Contract shall be preserved by the Contractor for a period of three years after final payment under this Contract or otherwise disposed of in such manner as may be agreed upon by the Government and the Contractor.
- (e) Reports. The Contractor shall furnish such progress reports and schedules, financial and cost reports, and other reports concerning the work under this Contract as the Contracting Officer may from time to time require.
- (f) Inspections. The DOE shall have the right to inspect the work and activities of the Contractor under this Contract at such time and in such manner as it shall deem appropriate.
- (g) Subcontracts. The Contractor further agrees to require the inclusion of provisions similar to those in paragraphs (a) through (g) and paragraph (h) of this clause in all subcontracts (including fixed-price or unit-price subcontracts or purchase orders) of any tier entered into hereunder where, under the terms of the subcontract, costs incurred are a factor in determining the amount payable to the subcontractor.
- (h) Comptroller General.
  - (1) The Comptroller General of the United States, or an authorized representative, shall have access to and the right to examine any of the Contractor's directly pertinent records involving transactions related to this Contract or a subcontract hereunder.

(2) This paragraph may not be construed to require the Contractor or subcontractor to create or maintain any record that the Contractor or subcontractor does not maintain in the ordinary course of business or pursuant to a provision of law.

- (3) Nothing in this Contract shall be deemed to preclude an audit by the General Accounting Office of any transaction under this Contract.
- (i) Internal audit. The Contractor agrees to conduct an internal audit and examination satisfactory to DOE of the records, operations, expenses, and the transactions with respect to costs claimed to be allowable under this Contract annually and at such other times as may be mutually agreed upon. The results of such audit, including the working papers, shall be submitted or made available to the Contracting Officer. The Contractor shall include this paragraph (i) in all cost-reimbursement subcontracts with an estimated cost exceeding \$5 million and expected to run for more than 2 years, and any other cost-reimbursement subcontract determined by the Head of the Contracting Activity.

(End of Clause)

## I-106 970.5232-4 Obligation of Funds (Dec 2000)

- (a) Obligation of funds. The amount presently obligated by the Government with respect to this Contract is specified in Section B, clause entitled "Obligated Funds". Such amount may be increased unilaterally by DOE by written notice to the Contractor and may be increased or decreased by written agreement of the Parties (whether or not by formal modification of this Contract). Estimated collections from others for work and services to be performed under this Contract are not included in the amount presently obligated. Such collections, to the extent actually received by the Contractor, shall be processed and accounted for in accordance with applicable requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this Contract. Nothing in this paragraph is to be construed as authorizing the Contractor to exceed limitations stated in financial plans established by DOE and furnished to the Contractor from time to time under this Contract.
- (b) Limitation on payment by the Government. Except as otherwise provided in this Contract and except for costs which may be incurred by the Contractor pursuant to the Termination clause of this Contract or costs of claims allowable under the Contract occurring after completion or termination and not released by the Contractor at the time of financial settlement of the Contract in accordance with the clause entitled "Payments and Advances," payment by the Government under this Contract on account of allowable costs shall not, in the aggregate, exceed the amount obligated with respect to this Contract, less the Contractor's fee and any negotiated fixed amount. Unless expressly negated in this Contract, payment on account of those costs excepted in the preceding sentence which are in excess of

Modification M412

the amount obligated with respect to this Contract shall be subject to the availability of:

- (1) collections accruing to the Contractor in connection with the work under this Contract and processed and accounted for in accordance with applicable requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this Contract, and
- other funds which DOE may legally use for such purpose, provided DOE will use its best efforts to obtain the appropriation of funds for this purpose if not otherwise available.
- Notices-Contractor excused from further performance. The Contractor shall notify (c) DOE in writing whenever the unexpended balance of available funds (including collections available under paragraph (a) of this clause), plus the Contractor's best estimate of collections to be received and available during the 45-day period hereinafter specified, is in the Contractor's best judgment sufficient to continue Contract operations at the programmed rate for only 45 days and to cover the Contractor's unpaid fee and any negotiated fixed amounts, and outstanding encumbrances and liabilities on account of costs allowable under the Contract at the end of such period. Whenever the unexpended balance of available funds (including collections available under paragraph (a) of this clause), less the amount of the Contractor's fee then earned but not paid and any negotiated fixed amounts, is in the Contractor's best judgment sufficient only to liquidate outstanding encumbrances and liabilities on account of costs allowable under this Contract, the Contractor shall immediately notify DOE and shall make no further encumbrances or expenditures (except to liquidate existing encumbrances and liabilities), and, unless the Parties otherwise agree, the Contractor shall be excused from further performance (except such performance as may become necessary in connection with termination by the Government) and the performance of all work hereunder will be deemed to have been terminated for the convenience of the Government in accordance with the provisions of the Termination clause of this Contract.
- (d) Financial plans; cost and encumbrance limitations. In addition to the limitations provided for elsewhere in this Contract, DOE may, through financial plans, such as Approved Funding Programs, or other directives issued to the Contractor, establish controls on the costs to be incurred and encumbrances to be made in the performance of the Contract work. Such plans and directives may be amended or supplemented from time to time by DOE. The Contractor agrees
  - (1) to comply with the specific limitations (ceilings) on costs and encumbrances set forth in such plans and directives,
  - (2) to comply with other requirements of such plans and directives, and

- (3) to notify DOE promptly, in writing, whenever it has reason to believe that any limitation on costs and encumbrances will be exceeded or substantially underrun.
- (e) Government's right to terminate not affected. The giving of any notice under this clause shall not be construed to waive or impair any right of the Government to terminate the Contract under the provisions of the Termination clause of this Contract.

(End of Clause)

## I-107 970.5232-5 Liability with Respect to Cost Accounting Standards (Dec 2000)

- (a) The Contractor is not liable to the Government for increased costs or interest resulting from its failure to comply with the clauses of this Contract entitled, "Cost Accounting Standards," and "Administration of Cost Accounting Standards," if its failure to comply with the clauses is caused by the Contractor's compliance with published DOE financial management policies and procedures or other requirements established by the Department's Chief Financial Officer or Procurement Executive.
- (b) The Contractor is not liable to the Government for increased costs or interest resulting from its Subcontractors' failure to comply with the clauses at FAR 52.230-2, "Cost Accounting Standards," and FAR 52.230-6, "Administration of Cost Accounting Standards," if the Contractor includes in each covered subcontract a clause making the Subcontractor liable to the Government for increased costs or interest resulting from the Subcontractor's failure to comply with the clauses; and the Contractor seeks the subcontract price adjustment and cooperates with the Government in the Government's attempts to recover from the Subcontractor.

(End of Clause)

### I-108 970.5232-6 Work for Others Funding Authorization (Dec 2000)

Any uncollectible receivables resulting from the Contractor utilizing Contractor corporate funding for reimbursable work shall be the responsibility of the Contractor, and the United States Government shall have no liability to the Contractor for the Contractor's uncollected receivables. The Contractor is permitted to provide advance payment utilizing Contractor corporate funds for reimbursable work to be performed by the Contractor for a non-Federal entity in instances where advance payment from that entity is required under the Laws, regulations, and DOE directives clause of this Contract and such advance cannot be obtained. The Contractor is also permitted to provide advance payment utilizing Contractor corporate funds to continue reimbursable work to be performed by the Contractor for a Federal entity when the term or the funds on a Federal interagency agreement required under the Laws, regulations, and DOE directives clause of this Contract have elapsed. The Contractor's utilization of Contractor corporate funds does not relieve the Contractor of its responsibility to comply with all requirements for

Modification M412

Work for Others applicable to this Contract.

(End of Clause)

## I-109 970.5232-7 Financial Management System (Dec 2000)

The Contractor shall maintain and administer a financial management system that is suitable to provide proper accounting in accordance with DOE requirements for assets, liabilities, collections accruing to the Contractor in connection with the work under this Contract, expenditures, costs, and encumbrances; permits the preparation of accounts and accurate, reliable financial and statistical reports; and assures that accountability for the assets can be maintained. The Contractor shall submit to DOE for written approval an annual plan for new financial management systems and/or subsystems and major enhancements and/or upgrades to the currently existing financial systems and/or subsystems. The Contractor shall notify DOE thirty (30) days in advance of any planned implementation of any substantial deviation from this plan and, as requested by the Contracting Officer, shall submit any such deviation to DOE for written approval before implementation.

(End of Clause)

# **I–110** 970.5232-8 Integrated Accounting (Dec 2000)

Integrated accounting procedures are required for use under this Contract. The Contractor's financial management system shall include an integrated accounting system that is linked to DOE's accounts through the use of reciprocal accounts and that has electronic capability to transmit monthly and year-end self-balancing trial balances to the Department's Primary Accounting System for reporting financial activity under this Contract in accordance with requirements imposed by the Contracting Officer pursuant to the Laws, regulations, and DOE directives clause of this Contract.

(End of Clause)

# I-111 970.5235-1 Federally Funded Research and Development Center Sponsoring Agreement (Dec 2000)

[This clause only applies to work performed under this Contract and does not apply to work performed under Agreement DE-GM05-00RL01831.]

- (a) Pursuant to 48 CFR 35.017-1, this Contract constitutes the sponsoring agreement between the Department of Energy and the Contractor, which establishes the relationship for the operation of a Department of Energy sponsored Federally Funded Research and Development Center (FFRDC).
- (b) In the operation of this FFRDC, the Contractor may be provided access beyond that which is common to the normal contractual relationship, to Government and supplier data, including sensitive and proprietary data, and to Government employees and facilities needed to discharge its responsibilities efficiently and effectively. Because of this special relationship, it is essential that the FFRDC be operated in the public interest with objectivity and independence, be free from

organizational conflicts of interest, and have full disclosure of its affairs to the Department of Energy.

- (c) Unless otherwise provided by the Contract, the Contractor may accept work from a nonsponsor (as defined in 48 CFR 35.017) in accordance with the requirements and limitations of DOE Order 481.1, Work for Others (Non-Department of Energy Funded Work) (see current version).
- (d) As an FFRDC, the Contractor shall not use its privileged information or access to Government facilities to compete with the private sector. Specific guidance on restricted activities is contained in DOE Order 481.1.

  (End of Clause)

## I-112 970.5236-1 Government Facility Subcontract Approval (Dec 2000)

Upon request of the Contracting Officer and acceptance thereof by the Contractor, the Contractor shall procure, by subcontract, the construction of new facilities or the alteration or repair of Government-owned facilities at the plant. Any subcontract entered into under this paragraph shall be subject to the written approval of the Contracting Officer and shall contain the provisions relative to labor and wages required by law to be included in contracts for the construction, alteration, and/or repair, including painting and decorating, of a public building or public work.

(End of Clause)

### I-113 970.5242-1 Penalties for Unallowable Costs (Dec 2000)

- (a) Contractors which include unallowable cost in a submission for settlement for cost incurred, may be subject to penalties.
- (b) If, during the review of a submission for settlement of cost incurred, the Contracting Officer determines that the submission contains an expressly unallowable cost or a cost determined to be unallowable prior to the submission, the Contracting Officer shall assess a penalty.
- (c) Unallowable costs are either expressly unallowable or determined unallowable.
  - (1) An expressly unallowable cost is a particular item or type of cost which, under the express provisions of an applicable law, regulation, or this Contract, is specifically named and stated to be unallowable.
  - (2) A cost determined unallowable is one which, for that Contractor,
    - (i) was subject to a Contracting Officer's final decision and not appealed;
    - (ii) the Department's Board of Contract Appeals or a court has previously ruled as unallowable; or

- (iii) was mutually agreed to be unallowable.
- (d) If the Contracting Officer determines that a cost submitted by the Contractor in its submission for settlement of cost incurred is:
  - (1) expressly unallowable, then the Contracting Officer shall assess a penalty in an amount equal to the disallowed cost allocated to this Contract plus interest on the paid portion of the disallowed cost. Interest shall be computed from the date of overpayment to the date of repayment using the interest rate specified by the Secretary of the Treasury pursuant to Pub. L. 92-41 (85 Stat. 97); or
  - (2) determined unallowable, then the Contracting Officer shall assess a penalty in an amount equal to two times the amount of the disallowed cost allocated to this Contract.
- (e) The Contracting Officer may waive the penalty provisions when
  - (1) the Contractor withdraws the submission before the formal initiation of an audit of the submission and submits a revised submission;
  - the amount of the unallowable costs allocated to covered contracts is \$10,000 or less; or
  - (3) the Contractor demonstrates to the Contracting Officer's satisfaction that:
    - (i) it has established appropriate policies, personnel training, and an internal control and review system that provides assurances that unallowable costs subject to penalties are precluded from the Contractor's submission for settlement of costs; and
    - (ii) the unallowable costs subject to the penalty were inadvertently incorporated into the submission.

      (End of Clause)

## I-114 970.5243-1 Changes (Dec 2000)

(a) Changes and adjustment of fee. The Contracting Officer may at any time and without notice to the sureties, if any, issue written directions within the general scope of this Contract requiring additional work or directing the omission of, or variation in, work covered by this Contract. If any such direction results in a material change in the amount or character of the work described in the "Statement of Work," an equitable adjustment of the fee, if any, shall be made in accordance with the agreement of the Parties and the Contract shall be modified in writing accordingly. Any claim by the Contractor for an adjustment under this clause must be asserted in writing within 30 days from the date of receipt by the

Modification M412

Contractor of the notification of change; provided, however, that the Contracting Officer, if it is determined that the facts justify such action, may receive and act upon any such claim asserted at any time prior to final payment under this Contract. A failure to agree on an equitable adjustment under this clause shall be deemed to be a dispute within the meaning of the clause entitled "Disputes."

(b) Work to continue. Nothing contained in this clause shall excuse the Contractor from proceeding with the prosecution of the work in accordance with the requirements of any direction hereunder.

(End of Clause)

# I-115 970.5244-1 Contractor Purchasing System (Dec 2000) (DEVIATION) (Includes modifications in final rule dated 1/18/01.)

- General. The Contractor shall develop, implement, and maintain formal policies, (a) practices, and procedures to be used in the award of subcontracts consistent with this clause and 48 CFR 970.44. The Contractor's purchasing system and methods shall be fully documented, consistently applied, and acceptable to DOE in accordance with 48 CFR 970.4401-1. The Contractor shall maintain file documentation which is appropriate to the value of the purchase and is adequate to establish the propriety of the transaction and the price paid. The Contractor's purchasing performance will be evaluated against such performance criteria and measures as may be set forth elsewhere in this Contract. DOE reserves the right at any time to require that the Contractor submit for approval any or all purchases under this Contract. The Contractor shall not purchase any item or service the purchase of which is expressly prohibited by the written direction of DOE and shall use such special and directed sources as may be expressly required by the DOE Contracting Officer. DOE will conduct periodic appraisals of the Contractor's management of all facets of the purchasing function, including the Contractor's compliance with its approved system and methods. Such appraisals will be performed through the conduct of Contractor Purchasing System Reviews in accordance with 48 CFR subpart 44.3, or, when approved by the Contracting Officer, through the Contractor's participation in the conduct of the Balanced Scorecard performance measurement and performance management system. The Contractor's approved purchasing system and methods shall include the requirements set forth in paragraphs (b) through (y) of this clause.
- (b) Acquisition of utility services. Utility services shall be acquired in accordance with the requirements of 48 CFR 970.41.
- (c) Acquisition of Real Property. Real property shall be acquired in accordance with 48 CFR Subpart 917.74.
- (d) Advance Notice of Proposed Subcontract Awards. Advance notice shall be provided in accordance with 48 CFR 970.4401-3.
- (e) Audit of Subcontractors.

(1) The Contractor shall provide for:

- (i) periodic post-award audit of cost-reimbursement Subcontractors at all tiers, and
- (ii) audits, where necessary, to provide a valid basis for pre-award or cost or price analysis.
- (2) Responsibility for determining the costs allowable under each costreimbursement subcontract remains with the Contractor or next higher-tier Subcontractor. The Contractor shall provide, in appropriate cases, for the timely involvement of the Contractor and the DOE Contracting Officer in resolution of subcontract cost allowability.
- (3) Where audits of Subcontractors at any tier are required, arrangements may be made to have the cognizant Federal agency perform the audit of the subcontract. These arrangements shall be made administratively between DOE and the other agency involved and shall provide for the cognizant agency to audit in an appropriate manner in light of the magnitude and nature of the subcontract. In no case, however, shall these arrangements preclude determination by the DOE Contracting Officer of the allowability or unallowability of Subcontractor costs claimed for reimbursement by the Contractor.
- (4) Allowable costs for cost reimbursable subcontracts are to be determined in accordance with the cost principles of 48 CFR Part 31, appropriate for the type of organization to which the subcontract is to be awarded, as supplemented by 48 CFR Part 931. Allowable costs in the purchase or transfer from Contractor-affiliated sources shall be determined in accordance with 48 CFR 970.4402-3 and 48 CFR 970.3102-3-21(b).

#### (f) Bonds and Insurance.

- (1) The Contractor shall require performance bonds in penal amounts as set forth in 48 CFR 28.102-2(a) for all fixed priced and unit-priced construction subcontracts in excess of \$100,000. The Contractor shall consider the use of performance bonds in fixed price nonconstruction subcontracts, where appropriate.
- (2) For fixed-price, unit-priced and cost reimbursement construction subcontracts in excess of \$100,000 a payment bond shall be obtained on Standard Form 25A modified to name the Contractor as well as the United States of America as obligees. The penal amounts shall be determined in accordance with 48 CFR 28.102-2(b).
- (3) For fixed-price, unit-priced and cost-reimbursement construction subcontracts, greater than \$25,000, but not greater than \$100,000, the

Contractor shall select two or more of the payment protections at 48 CFR 28.102-1(b), giving particular consideration to the inclusion of an irrevocable letter of credit as one of the selected alternatives.

- (4) A Subcontractor may have more than one acceptable surety in both construction and other subcontracts, provided that in no case will the liability of any one surety exceed the maximum penal sum for which it is qualified for any one obligation. For subcontracts other than construction, a co-surety (two or more sureties together) may reinsure amounts in excess of their individual capacity, with each surety having the required underwriting capacity that appears on the list of acceptable corporate sureties.
- (g) Buy American. The Contractor shall comply with the provisions of the Buy American Act as reflected in 48 CFR 52.225-1 (May 2002), as amended by AL 2002-06 and 48 CFR 52.225-9 (May 2002), as amended by AL 2002-06. The Contractor shall forward determinations of nonavailability of individual items to the DOE Contracting Officer for approval. Items in excess of \$100,000 require the prior concurrence of the Head of Contracting Activity. If, however, the Contractor has an approved purchasing system, the Head of the Contracting Activity may authorize the Contractor to make determinations of nonavailability for individual items valued at \$100,000 or less.
- (h) Construction and Architect-Engineer Subcontracts.
  - (1) Independent Estimates. A detailed, independent estimate of costs shall be prepared for all construction work to be subcontracted.
  - (2) Specifications. Specifications for construction shall be prepared in accordance with the DOE publication entitled "General Design Criteria Manual."
  - (3) Prevention of Conflict of Interest.
    - (i) The Contractor shall not award a subcontract for construction to the architect-engineer firm or an affiliate that prepared the design. This prohibition does not preclude the award of a "turnkey" subcontract so long as the Subcontractor assumes all liability for defects in design and construction and consequential damages.
    - (ii) The Contractor shall not award both a cost-reimbursement subcontract and a fixed-price subcontract for construction or architect-engineer services or any combination thereof to the same firm where those subcontracts will be performed at the same site.
    - (iii) The Contractor shall not employ the construction Subcontractor or an affiliate to inspect the firm's work. The Contractor shall assure

that the working relationships of the construction Subcontractor and the Subcontractor inspecting its work and the authority of the inspector are clearly defined.

- (i) Contractor-Affiliated Sources. Equipment, materials, supplies, or services from a Contractor-affiliated source shall be purchased or transferred in accordance with 48 CFR 970.4402-3.
- (j) Contractor-Subcontractor Relationship. The obligations of the Contractor under paragraph (a) of this clause, including the development of the purchasing system and methods, and purchases made pursuant thereto, shall not relieve the Contractor of any obligation under this Contract (including, among other things, the obligation to properly supervise, administer, and coordinate the work of Subcontractors). Subcontracts shall be in the name of the Contractor, and shall not bind or purport to bind the Government.
- (k) Government Property. Identification, inspection, maintenance, protection, and disposition of Government property shall conform with the policies and principles of 48 CFR Part 45, 48 CFR 945, the Federal Property Management Regulations 41 CFR Chapter 101, the DOE Property Management Regulations 41 CFR Chapter 109, and their contracts.
- (l) Indemnification. Except for Price-Anderson Nuclear Hazards Indemnity, no Subcontractor may be indemnified except with the prior approval of the Senior Procurement Executive.
- (m) Leasing of Motor Vehicles. Contractors shall comply with 48 CFR 8.11 and 48 CFR 908.11.
- (n) Acquisition of Major System (MS) Projects and Other Projects (as defined in DOE O 413.3, Program and Project Management for the Acquisition of Capital Assets). As part of the Acquisition Planning process, Contractors shall conduct a make-or-buy analysis in determining whether requirements will be self-performed or subcontracted to ensure the selection of the most cost effective method.
- (o) Management, Acquisition and Use of Information Resources. Requirements for automatic data processing resources and telecommunications facilities, services, and equipment, shall be reviewed and approved in accordance with applicable DOE Orders and regulations regarding information resources.
- (p) Priorities, Allocations and Allotments. Priorities, allocations and allotments shall be extended to appropriate subcontracts in accordance with the clause or clauses of this Contract dealing with priorities and allocations.

- (q) Purchase of Special Items. Purchase of the following items shall be in accordance with the following provisions of 48 CFR 908.71 and the Federal Property Management Regulations, 41 CFR Chapter 101:
  - (1) Motor vehicles-48 CFR 908.7101
  - (2) Aircraft-48 CFR 908.7102
  - (3) Security Cabinets-48 CFR 908.7106
  - (4) Alcohol-48 CFR 908.7107
  - (5) Helium-48 CFR 908.7108
  - (6) Fuels and packaged petroleum products-48 CFR 908.7109
  - (7) Coal-48 CFR 908.7110
  - (8) Arms and Ammunition-48 CFR 908.7111
  - (9) Heavy Water-48 CFR 908.7121(a)
  - (10) Precious Metals-48 CFR 908.7121(b)
  - (11) Lithium-48 CFR 908.7121(c)
  - (12) Products and services of the blind and severely handicapped-41 CFR 101-26.701
  - (13) Products made in Federal penal and correctional institutions-41 CFR 101-26.702
- (r) Purchase vs. Lease Determinations. Contractors shall determine whether required equipment and property should be purchased or leased, and establish appropriate thresholds for application of lease vs. purchase determinations. Such determinations shall be made:
  - (1) at time of original acquisition;
  - (2) when lease renewals are being considered; and
  - (3) at other times as circumstances warrant.
- (s) Quality Assurance. Contractors shall provide no less protection for the Government in its subcontracts than is provided in the prime Contract.

- (t) Setoff of Assigned Subcontractor Proceeds. Where a Subcontractor has been permitted to assign payments to a financial institution, the assignment shall treat any right of setoff in accordance with 48 CFR 932.803.
- (u) Strategic and Critical Materials. The Contractor may use strategic and critical materials in the National Defense Stockpile.
- (v) Termination. When subcontracts are terminated as a result of the termination of all or a portion of this Contract, the Contractor shall settle with Subcontractors in conformity with the policies and principles relating to settlement of prime Contracts in 48 CFR Subparts 49.1, 49.2 and 49.3. When subcontracts are terminated for reasons other than termination of this Contract, the Contractor shall settle such subcontracts in general conformity with the policies and principles in 48 CFR Subparts 49.1, 49.2, 49.3 and 49.4. Each such termination shall be documented and consistent with the terms of this Contract. Terminations which require approval by the Government shall be supported by accounting data and other information as may be directed by the Contracting Officer.
- (w) Unclassified Controlled Nuclear Information. Subcontracts involving unclassified uncontrolled nuclear information shall be treated in accordance with 10 CFR part 1017.
- (x) Subcontract Flowdown Requirements. In addition to terms and conditions that are included in the prime Contract which direct application of such terms and conditions in appropriate subcontracts, the Contractor shall include the following clauses in subcontracts, as applicable:
  - (1) Davis-Bacon clauses prescribed in 48 CFR 22.407.
  - (2) Foreign Travel clause prescribed in 48 CFR 952.247-70.
  - (3) Counterintelligence clause prescribed in 48 CFR 970.0404-4(a).
  - (4) Service Contract Act clauses prescribed in 48 CFR 22.1006.
  - (5) State and local taxes clause prescribed in 48 CFR 970.2904-1.
  - (6) Cost or pricing data clauses prescribed in 48 CFR 970.1504-3-1(b).
- (y) Legal Services. Contractor purchases of litigation and other legal services are subject to the requirements in 10 CFR part 719 and the requirements of this clause.

(End of Clause)

I-116 970.5245-1 Property (Dec 2000) Alternate I (Dec 2000) (DEVIATION)

(a) Furnishing of Government property. The Government reserves the right to furnish any property or services required for the performance of the work under this Contract.

- (b) Title to property. Except as otherwise provided by the Contracting Officer, title to all materials, equipment, supplies, and tangible personal property of every kind and description purchased by the Contractor, for the cost of which the Contractor is entitled to be reimbursed as a direct item of cost under this Contract, shall pass directly from the vendor to the Government. The Government reserves the right to inspect, and to accept or reject, any item of such property. The Contractor shall make such disposition of rejected items as the Contracting Officer shall direct. Title to other property, the cost of which is reimbursable to the Contractor under this Contract, shall pass to and vest in the Government upon (1) issuance for use of such property in the performance of this Contract, or (2) commencement of processing or use of such property in the performance of this Contract, or (3) reimbursement of the cost thereof by the Government, whichever first occurs. Property furnished by the Government and property purchased or furnished by the Contractor, title to which vests in the Government, under this paragraph are hereinafter referred to as Government property. Title to Government property shall not be affected by the incorporation of the property into or the attachment of it to any property not owned by the Government, nor shall such Government property or any part thereof, be or become a fixture or lose its identity as personality by reason of affixation to any realty.
- (c) Identification. To the extent directed by the Contracting Officer, the Contractor shall identify Government property coming into the Contractor's possession or custody, by marking and segregating in such a way, satisfactory to the Contracting Officer, as shall indicate its ownership by the Government.
- (d) Disposition. The Contractor shall make such disposition of Government property which has come into the possession or custody of the Contractor under this Contract as the Contracting Officer may direct during the progress of the work or upon completion or termination of this Contract. The Contractor may, upon such terms and conditions as the Contracting Officer may approve, sell, or exchange such property, or acquire such property at a price agreed upon by the Contracting Officer and the Contractor as the fair value thereof. The amount received by the Contractor as the result of any disposition, or the agreed fair value of any such property acquired by the Contractor, shall be applied in reduction of costs allowable under this Contract or shall be otherwise credited to account to the Government, as the Contracting Officer may direct. Upon completion of the work or the termination of this Contract, the Contractor shall render an accounting, as prescribed by the Contracting Officer, of all Government property which had come into the possession or custody of the Contractor under this Contract.

(e) Protection of Government property-management of high-risk property and classified materials

- (1) The Contractor shall take all reasonable precautions, and such other actions as may be directed by the Contracting Officer, or in the absence of such direction, in accordance with sound business practice, to safeguard and protect Government property in the Contractor's possession or custody.
- (2) In addition, the Contractor shall ensure that adequate safeguards are in place, and adhered to, for the handling, control and disposition of high-risk property and classified materials throughout the life cycle of the property and materials consistent with the policies, practices and procedures for property management contained in the Federal Property Management regulations (41 CFR chapter 101), the Department of Energy Property Management regulations (41 CFR chapter 109), and other applicable regulations.
- (3) High-risk property is property, the loss, destruction, damage to, or the unintended or premature transfer of which could pose risks to the public, the environment, or the national security interests of the United States. High-risk property includes proliferation sensitive, nuclear related dual use, export controlled, chemically or radioactively contaminated, hazardous, and specially designed and prepared property, including property on the militarily critical technologies list.
- (f) Risk of loss of Government property.

**(1)** 

- (i) The Contractor shall not be liable for the loss or destruction of, or damage to, Government property unless such loss, destruction, or damage was caused by any of the following:
  - (A) Willful misconduct or lack of good faith on the part of the Contractor's managerial personnel;
  - (B) Failure of the Contractor's managerial personnel to take all reasonable steps to comply with any appropriate written direction of the Contracting Officer to safeguard such property under paragraph (e) of this clause; or
  - (C) Failure of Contractor managerial personnel to establish, administer, or properly maintain an

approved property management system in accordance with paragraph (i)(1) of this clause.

- (ii) If, after an initial review of the facts, the Contracting Officer informs the Contractor that there is reason to believe that the loss, destruction of, or damage to the Government property results from conduct falling within one of the categories set forth above, the burden of proof shall be upon the Contractor to show that the Contractor should not be required to compensate the Government for the loss, destruction, or damage.
- (2) In the event that the Contractor is determined liable for the loss, destruction or damage to Government property in accordance with (f)(1) of this clause, the Contractor's compensation to the Government shall be determined as follows:
  - (i) For damaged property, the compensation shall be the cost of repairing such damaged property, plus any costs incurred for temporary replacement of the damaged property. However, the value of repair costs shall not exceed the fair market value of the damaged property. If a fair market value of the property does not exist, the Contracting Officer shall determine the value of such property, consistent with all relevant facts and circumstances.
  - (ii) For destroyed or lost property, the compensation shall be the fair market value of such property at the time of such loss or destruction, plus any costs incurred for temporary replacement and costs associated with the disposition of destroyed property. If a fair market value of the property does not exist, the Contracting Officer shall determine the value of such property, consistent with all relevant facts and circumstances.
- (3) The portion of the cost of insurance obtained by the Contractor that is allocable to coverage of risks of loss referred to in paragraph (f)(1) of this clause is not allowable.
- (g) Steps to be taken in event of loss. In the event of any damage, destruction, or loss to Government property in the possession or custody of the Contractor with a value above the threshold set out in the Contractor's approved property management system, the Contractor:
  - (1) Shall immediately inform the Contracting Officer of the occasion and extent thereof,

(2) Shall take all reasonable steps to protect the property remaining, and

- (3) Shall repair or replace the damaged, destroyed, or lost property in accordance with the written direction of the Contracting Officer. The Contractor shall take no action prejudicial to the right of the Government to recover therefore, and shall furnish to the Government, on request, all reasonable assistance in obtaining recovery.
- (h) Government property for Government use only. Government property shall be used only for the performance of this Contract, except as set forth in the Special Contract Requirement entitled "Use of Facilities for Contractor's Own Account."
- (i) Property Management.
  - (1) Property Management System.
    - (i) The Contractor shall establish, administer, and properly maintain an approved property management system of accounting for and control, utilization, maintenance, repair, protection, preservation, and disposition of Government property in its possession under the Contract. The Contractor's property management system shall be submitted to the Contracting Officer for approval and shall be maintained and administered in accordance with sound business practice, applicable Federal Property Management regulations and Department of Energy Property Management regulations, and such directives or instructions which the Contracting Officer may from time to time prescribe.
    - (ii) In order for a property management system to be approved, it must provide for:
      - (A) Comprehensive coverage of property from the requirement identification, through its life cycle, to final disposition;
      - (B) Employee personal responsibility and accountability for Government-owned property;
      - (C) Full integration with the Contractor's other administrative and financial systems; and
      - (D) A method for continuously improving property management practices through the identification of best practices established by "best in class" performers.

(iii) Approval of the Contractor's property management system shall be contingent upon the completion of the baseline inventory as provided in subparagraph (i)(2) of this clause.

## (2) Property Inventory.

- (i) Unless otherwise directed by the Contracting Officer, the Contractor shall within six months after execution of the Contract provide a baseline inventory covering all items of Government property.
- (ii) If the Contractor is succeeding another Contractor in the performance of this Contract, the Contractor shall conduct a joint reconciliation of the property inventory with the predecessor Contractor. The Contractor agrees to participate in a joint reconciliation of the property inventory at the completion of this Contract. This information will be used to provide a baseline for the succeeding contract as well as information for closeout of the predecessor contract.
- (j) The term "Contractor's managerial personnel" as used in this clause is as defined in Section I, Contract Clause "Definitions".
- (k) The Contractor shall include this clause in all cost reimbursable subcontracts. (End of Clause)

Modification M412

# Part III – List of Documents, Exhibits, And Other Attachments

**Section J** 

**List of Attachments** 

Modification M412

## Part III – List of Documents, Exhibits, And Other Attachments

#### **Section J**

### **List of Attachments**

#### **Table of Contents**

- **APPENDIX A Advance Understandings on Human Resources**
- APPENDIX B Special Bank Account Agreement
- **APPENDIX C Subcontracting Plan for Socioeconomic Programs**
- APPENDIX D List of Applicable DOE Directives and External Requirements
- **APPENDIX E Performance Evaluation and Measurement Plan**
- APPENDIX F Radiochemical Processing Laboratory Authorization Agreement
- **APPENDIX G DOE Research and Development Bilateral and Multilateral Agreements**
- APPENDIX H Mission Stretch Goal(s) Performance Evaluation and Measurement Plan

Modification M412

# Part III – List of Documents, Exhibits, And Other Attachments

# **Section J**

# Appendix A

**Advance Understandings on Human Resources** 

Modification M412

#### Introduction

This Advance Understanding (AU) is intended to document the principles and measures for assessment of the Contractor's Human Resource Management (CHRM) programs and Other Items of Allowable Cost not specifically addressed in H-30 of this Contract. PNNL CHRM policies, practices, and plans are located in the PNNL Standards-Based Management System. Any changes to SBMS CHRM policies, practices, and/or plans covered in an advance understanding that increase costs shall require written approval by the DOE Contracting Officer. PNNL CHRM programs will comply with the Federal Acquisition Regulation (FAR) cost principles and FAR contract clauses, as supplemented by the Department of Energy Acquisition Regulation (DEAR), for all HR programs, including but not limited to Compensation, Health and Welfare Benefits, Pension Plans, Savings Plans, Training and Development, Professional Society Memberships, Staff Association, Employee and Labor Relations, Diversity/Equal Employment Opportunity/Affirmative Action, Recruitment and Relocation. The Contractor shall use effective management review procedures and internal controls to assure compliance with the FAR and DEAR. The Contractor shall ensure appropriate systems are in place for change control to any such SBMS CHRM policies, practices, and/or plans

Either party may request that this AU be revised and the parties hereto agree to give consideration in good faith to any such request. Revisions to this AU shall be accomplished by executing an AU modification as approved by the DOE Contracting Officer. Any prior Contracting Officer reimbursement determination referenced in this section must be in writing.

The Contractor, or designated representative, shall promptly furnish all reports and information required or otherwise indicated in this Advance Understanding to the Contracting Officer. The Contractor recognizes that the Contracting Officer or designated representative may make other data requests from time to time and the Contractor agrees to cooperate in meeting requests.

It is understood that no provision of this Appendix can affect any right guaranteed to a bargaining unit employee by the terms of a Collective Bargaining Agreement.

### I. CHRM Program Assessment Performance Measures

Performance measures include, but are not limited to the following:

- A. Employee Welfare Benefit Measures
  - 1. Relative Benefit Value (ben-val) process standards
    - a. The Contractor shall determine a list of no less than 15 participants to be a part of the comparator group. The comparator group is defined as companies of comparable size, industry, market, and region. The Contracting Officer shall approve the list prior to the performance of the ben-val measure.

b. The ben-val shall measure all major non-statutory benefit plans offered by the Contractor, including qualified defined benefit and defined contribution retirement and capital accumulation plans, and death, disability, health, and paid time-off welfare benefit programs.

- c. Relative benefit values must be actuarially calculated by a national consulting firm with expertise in relative benefit value calculations.
- 2. Per Capita employee benefit cost comparison process standards
  - a. The Contractor at its option may provide a proposal for establishing an alternative cost study in lieu of the Chamber of Commerce (CoC) Annual Employee Benefits Cost Survey for review and approval to the Contracting Officer
  - b. This proposal must at a minimum identify the organization to perform the study, the proposed study methodology, and must be a broad-based national survey that includes comparators of like size, industry, market.
  - c. The Contracting Officer shall respond to this request within 90 calendar days with an approval, rejection, or request for additional information, or to inform the Contractor that DOE requires an extension for the review (not to exceed the original review period).
  - d. If the Contractor does not submit a proposal in accordance with this clause, or if the proposal is rejected by the Contracting Officer, the Contractor will use the CoC Annual Employee Benefits Cost Survey for the cost study.
- 3. Retirement income replacement ratios- An actuarial measure that may be used by the DOE or Contractor that compares (with other mutually agreed to and Contracting Officer approved databases and/or broad based surveys by professional actuarial consulting firms) the value of Contractor retirement benefit programs measured as a percentage of final pay replaced by Contractor provided defined benefit, defined contribution and retiree medical benefits combined with Social Security Benefits.

#### II. Other items

## A. Incentive Compensation

1. The Contractor may submit a proposal for establishing an incentive compensation plan to the Contracting Officer for review and approval for a determination of cost reimbursement under this Contract. The proposal must contain: a description of the performance management

Modification M412

system and "line of sight" to the DOE mission and Contract statement of work at all levels and be consistent with established performance measurement approaches; the incentive compensation plan design, funding methodology, and linkage to Contract performance measures; and the design must contain a policy for a specific Passover rate, i.e., percent of participants who will not receive an incentive and pay at risk.

2. The Contracting Officer shall respond to this request within 90 calendar days with an approval, rejection, or request for additional information, or to inform the Contractor that DOE requires an extension for the review (not to exceed the original review period).

#### B. Pension.

The Contractor may submit a proposal for establishing pension/service reciprocity within Battelle managed Office of Science Laboratories to the Contracting Officer for review and approval of allowability under this Contract. The Contracting Officer shall respond to this request within 180 calendar days with an approval, rejection, or request for additional information, or to inform the Contractor that DOE requires an extension for the review (not to exceed the original review period).

## C. Dependent Care.

Any agreement between contractors and dependent care (program) provider organizations must ensure that contractors and the DOE are held harmless from liability.

- 1. Property damage liability and bodily injury liability insurance policies must be retained by the dependent care (program) provider organization in an amount appropriate for services provided. The contractors must also be insured under these policies.
- 2. Agreements between the contractors and dependent care (program) provider organizations must ensure that the provider organizations operate, maintain, and upgrade any proposed workplace dependent care facility in compliance with federal, state, and local policies, regulations, and requirements for environment, safety and health.

Modification M412

# Part III – List of Documents, Exhibits, And Other Attachments

**Section J** 

Appendix B

**Special Bank Account Agreement** 

### BATTELLE MEMORIAL INSTITUTE CONTRACT NO. 402794-A-C3

#### SCHEDULE

This agreement is entered into this 1st day of October, 2000, between the UNITED STATES OF AMERICA, represented by the Department of Energy (hereinafter referred to as DOE); BATTELLE MEMORIAL INSTITUTE, corporation/legal entity existing under the laws of the State of Ohio (hereinafter referred to as the Recipient); and U.S. Bank, a banking corporation under the laws of the State of Washington located at Richland, Washington (hereinafter referred to as the Bank).

#### RECITALS

- <u>a.</u> By mutual agreement of the parties, this Special Bank Account Agreement supersedes and replaces all Special Bank Account Agreements to which this Recipient, DOE, and the Bank have been parties.
- b. On the effective date of December 30, 1964, DOE and the Recipient entered into Contract(s) No. DE-AC06-76RL01830, providing for an advance of funds by a letter of credit. A copy of such advance provisions has been furnished to the Bank.
- C. DOE requires that amounts advanced to the Recipient thereunder be deposited in a Special Demand Deposit Account at a member bank covered by U.S. Department of Treasury approved government deposit insurance organizations that are identified in I TFM 6-9000. These special demand deposits must be kept separate from the Recipient's general or other funds; and the parties are agreeable to so depositing said amounts with the Bank.
- d. The "Special Demand Deposit Account" shall be designated "BATTELLE MEMORIAL INSTITUTE, PURCHASE DRAFT, SALARY AND CONTRACT ACCOUNTS."

#### **COVENANTS**

In consideration of the foregoing, and for other good and valuable considerations, it is agreed that:

- 1. The Government shall have a title to the credit balance in said accounts to secure the repayment of all advance payments made to Recipient and said title shall be superior to any lien or claim of the Bank with respect to such accounts.
- 2. The Bank shall be bound by the provisions of said contract(s) between DOE and the Recipient relating to the deposit and withdrawal of funds in the above Special Demand Deposit Account, which are hereby incorporated into this Agreement by reference, but the Bank shall not be responsible for the application of funds withdrawn from said accounts. After receipt by the Bank of directions from DOE, the Bank shall act thereon and shall be under no liability to any party hereto for any action taken in accordance with the said written directions. Any written directions received by the Bank from the Government upon DOE stationery and purporting to be signed by, or signed at the written direction of, the Government may, insofar as the right, duties, and liabilities of the Bank are considered as having been properly issued and filed with the Bank by DOE.

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- 3. The DOE, or its authorized representatives, shall have access to the books and records maintained by the Bank with respect to such Special Demand Deposit Account at all reasonable times and for all reasonable purposes, including, without limitation to, the inspection or copying of such books and records and any or all memoranda, checks, correspondence, or documents pertaining thereto. Such books and records shall be preserved by the Bank for a period of six (6) years after the final payment under this Agreement.
- 4. In the event of the service of any writ of attachment, levy of execution, or commencement of garnishment proceedings with respect to the Special Demand Deposit Account, the Bank shall promptly notify the Department of Energy at the Richland Operations Office, P.O. Box 550, Richland, Washington, 99352.
- 5. DOE shall authorize funds that shall remain available to the extent that obligations have been incurred in good faith there under by the recipient to the Bank for the benefit of the special demand deposit account. The Bank agrees to honor upon presentation for payment all payments issued by the recipient and to restrict all withdrawals against the funds authorized to an amount sufficient to maintain the average daily balance in the special demand deposit account in a net positive and as close to zero as administratively possible.

The Bank agrees to service the account in this manner based on the requirements and specifications contained in solicitation No.402794, dated May 1, 2000 in consideration of the placement by DOE of a noninterest-bearing time deposit with the Bank in an amount determined by the quarterly analysis via the "Calculation of Time Account Balance Required", as adjusted to compensate for changes in volume of services, in the reserve requirement, in the cost of "float" and in the TT&L rate. The Bank agrees that per-item costs, detailed in the form "Schedule of Bank Processing Charges," contained in the Bank's aforesaid bid shall remain constant during the term of this Agreement. The Recipient shall withdraw the amount of funds determined in the quarterly "Calculation of Time Account Balance Required"; from the special demand deposit account and use such funds to make a noninterest-bearing time deposit in a separate account in the Bank. This account shall hereinafter be defined as the time deposit account. The funds in the time deposit account shall remain on deposit and shall not be withdrawn or used for any purpose without the authorization of DOE. The amount of the deposit may be adjusted upward or downward, but only with the approval of DOE.

- 6. The Bank shall post collateral, acceptable under Treasury Department Circular No. 176, with the Federal Reserve Bank in an amount equal to the net balances in all of the accounts included in this Agreement (including the noninterest-bearing time deposit account), less the Department of Treasury approved deposit insurance.
- 7. This Agreement, with all its provision and covenants, shall be in effect for a term of two years, beginning on the first day of October, 2000 and extending through the thirtieth day of September, 2002, or through the option periods should DOE exercise the options to extend the agreement further in accordance with the provision of (8)(a) below. The exercise of any or all of the option periods is the unilateral right of the DOE.
  - a. DOE may extend the term of this Agreement for three years, with three one year options by written notice to the Recipient and the Bank provided that DOE shall give the Recipient and Bank a preliminary written notice of its intent at least 90 days before this Agreement expires. The preliminary notice does not commit DOE to an extension.
  - b. If the DOE exercises this option, the extended agreement shall be considered to include this option provision.

- c. The duration of the Agreement, including the exercise of any options under this covenant, shall not extend past <u>September 30, 2005</u>.
- 8. DOE, the Recipient, or the Bank may terminate this Agreement at any time within the agreement period upon submitting written notification to the other parties 90 (ninety) days prior to the desired termination date. The specific provisions for operating the account during this 90 (ninety) day period are contained in covenant (12).
- 8. DOE or the Recipient may terminate this Agreement at any time upon 30 days' written notice to the Bank if DOE or the Recipient, or both parties, find that the Bank has failed to substantially perform its obligations under this Agreement or that the Bank is performing its obligations in a manner which precludes administering the program in an effective and efficient manner or that precludes the effective utilization of the Government's cash resources.
- 8. Notwithstanding the provision of Covenants (8) and (9), in the event the contract (referenced in Recital (b) between the DOE and the Recipient is not renewed or is terminated, this Agreement between DOE, the Recipient and the Bank shall automatically be terminated upon the delivery of written notice to the Bank.
- 11. In the event of termination, the Bank agrees to retain the Recipient's special demand deposit account for an additional 90-day period to clear outstanding payment items. (For compensation by noninterest-bearing time deposit only.)

Within 7 days of the expiration of the Agreement term, an analysis of the special demand deposit account shall be made by DOE to determine whether an insufficient or excessive balance was maintained in the time deposit account to compensate the Bank for services rendered up to the expiration date.

- a. If the analysis indicates that the Bank has been insufficiently compensated for services rendered up to the expiration of the Agreement, the Recipient shall—
  - 1. Maintain on deposit, during this 90-day period, sufficient Federal funds to reimburse the Bank for prior cumulative loss of earnings, and
  - 2. Maintain on deposit in the time deposit account sufficient Federal funds to compensate the Bank for services rendered.
- b. If the analysis indicates that the Bank has been overcompensated for services rendered up to the expiration of the Agreement, DOE shall close out the time deposit account and secure from the Bank a payment in an amount equal to the cumulative excess compensation less compensation for estimated services to be rendered during the 90day period.
- c. If cumulative excess compensation is not sufficient to compensate the Bank for services rendered during the 90-day period, adjustments shall be made to the time deposit account to compensate the Bank for the difference between the cost of services rendered during the 90-day period and the cumulative excess compensation.

This Agreement shall continue in effect for the 90-day additional period, with exception of the following:

- 1. Term Agreement (Covenant 7)
- 2. Termination of Agreement (Covenants 8 and 9)

All terms and conditions of the aforesald bid submitted by the Bank that are not inconsistent with this 90-day additional term shall remain in effect for this period.

- 12. Any direction received by the Bank from DOE which alters any portion of the terms and conditions of this agreement, including the amount of the time deposit agreed to herein, shall not be valid unless signed by the Contracting Officer.
- 13. Contract Contents: In addition to this Schedule, the contract consists of:
  - -Schedule of Bank Processing Charges
  - -Calculation of Time Account Balance
  - -Requirement Summary, dated May 1, 2000.
  - -46 General Provisions.
  - -General Representations and Certifications: The representations and certifications dated June 16, 2000, as signed and submitted by the Recipient in response to the RFP which resulted in the award of this contract are hereby incorporated by reference.
- 15. Contract Modifications: This Contract contains the entire understanding between the parties, and there are no understandings or representations not set forth or incorporated by reference herein. No communication, written or oral, by other than a Battelle Contract Representative or DOE Contracting Officer shall be effective to modify or otherwise affect the provisions of the contract.

IN WITNESS WHEREOF the parties hereto have caused this agreement which consists of pages including the documents incorporated by reference in covenant (12) to be executed as of the day and year first above written. Susan E. Bechtol By (Typed Name of Contracting Officer) (Signature of Contracting Officer) WITNESS BATTELLE (Typed Name of Witness) (Typed Name of Recipient) ROGER K. BALLARD Ву (Signature of Witness) (Name of Recipient's Representative) NOTE: In the case of a corporation, A witness is not required. Type or Print names under all signatures (Signature of Recipient's Representative) ASSISTANT TREASURER (Title) 505 KING AVENUE, COLUMBUS, OHIO (Address) (Date Signed) II S Bank (Name of Witness) (Name of Bank) II.S. Bank (Name of Bank) Me Hein (Signature of Witness) (Signature of Bank Representative) Cail Heinselman Note: In the case of a corporation, Vice President, Relationship Manager A witness is not required. Type or Government Banking (Title) Government Banking W. 428 Riverside, Suite #1230 Print names under all signatures. (Address) pokane, WA 99202

(Date Signed)

## NOTE

The Recipient, if a corporation, shall cause the following Certificate to be executed under its corporate seal, provided that the same officer shall not execute both the Agreement and the Certificate.

	Sektirica) Se	nior VP	and	•	
I, Jerome R. Bahlmann, certify that I			<b></b>	of the corpo	ration
named as Recipient herein: that Roger	<u>K. Ballar</u>	d	, who signed	this Agreeme	
behalf of the Recipient, was then Assisti	ant Treas	urer		oration; and	
said Agreement was duly signed for and in		aid corpora	tion by author	ity of its gove	erning
body and is within the scope of its corporat	e powers.				
A Mulmon					
(Corporate Seal) (Signature)					
	NOTE				
	NOTE				•
Bank, if a corporation, shall cause the followeal, provided that the same officer shall not be same of the same of					
	CERTIFICA"	TE			
I. M THERESA PARRY, certify the	nat I am the	RELATION	SHIP ASSIS	of the corpor	ation
named as Bank herein; that GAIL HEINS			o signed this	Agreement o	n
behalf of the Bank, was then VICE PRESI	IDENT	of :	said corporation		eement on and that governing porate ificate.  orporation ent on that said
Agreement was duly signed for and in behi		orporation	by authority o	fits governing	
and is within the scope of its corporate pov	vers.				
	y				
(Corporate Seal) (Signature)					

Modification M412

## Part III – List of Documents, Exhibits, And Other Attachments

**Section J** 

## Appendix C

**Subcontracting Plan for Socioeconomic Programs** 

### Pacific Northwest National Laboratory Subcontracting Plan

#### **Socioeconomic Programs**

Battelle's policy pledges a strong commitment to involving small and socioeconomically disadvantaged business concerns in the operation of the Pacific Northwest National Laboratory. Battelle supports the socioeconomic objectives of the U.S. Government and recognizes that diversity in subcontracting provides a vital link to the local community, strengthens the economy, and represents best business practices.

In keeping with the above policy, Battelle and the U.S. Department of Energy (DOE) have established the following Subcontracting Plan (this Plan). This Plan shall remain in effect from October 1, 2002, for the entire Contract period associated with this Contract extension. However, annual goals shall be negotiated and established by written agreement between the Contracting Officer and Battelle and shall be incorporated into this Plan by letter and will not require a Contract modification.

#### I. Goals

- A. Based on an estimated average annual fiscal year budget of \$554,800,000, and an adjusted procurement volume of \$111,000,000, Battelle's goals are to
  - 1. Award 47.0 percent to Small Business concerns, estimated at \$52,170,000 annually
  - 2. Award 5.5 percent to Small Disadvantaged Business concerns, estimated at \$6,105,000 annually
  - 3. Award 5.0 percent to Women-Owned Small Business concerns, estimated at \$5,550,000 annually
  - 4. Award 2.0 percent to HUBZone Small Business concerns, estimated at \$2,220,000 annually
  - 5. Award 0.5 percent to Veteran-Owned Small Business concerns, estimated at \$555,000 annually
  - 6. Award 0.1 percent to Service-Disabled Veteran-Owned Small Business concerns, estimated at \$111,000 annually
- B. Goals must be realistic to present the proper challenge to staff that are ultimately responsible for goal achievement. The percentage goals in A. above, based on past performance and future projections, will present such a challenge.

Modification M412

C. These goals are accumulated based on subcontracts and purchase orders placed and do not include other indirect costs. They will include all dollars awarded under Contract DE-AC05-76RL01830 with the exception of those dollars awarded to other DOE Integrated Contractors, Battelle Inter-Laboratory Authorizations, other Federal Agencies, State and Local Governments, awards to sources directed by DOE, educational institutions, non-profit/ not-for-profit organizations, the International Nuclear Safety Program, and firms outside the U.S.A.

D. The principal products and services to be obtained in support of this Plan are those generally associated with an extremely diverse research and development environment. The business concerns in this Plan will generally supply a major portion of the goods and services listed in Table A.

**TABLE A** 

Subcontracted Effort	SB	SDB	WOSB	HZ	SDV
Electrical material and supplies	X	X	X	X	X
Pumps, gauges and valves	X	X	X	X	X
Computer equipment and supplies	X	X	X	X	X
Tooling	X	X	X	X	X
Aluminum and other metals	X	X	X	X	X
Laboratory supplies	X	X	X	X	X
Reproduction supplies	X	X	X	X	X
Office equipment and supplies	X	X	X	X	X
Chemicals	X	X	X	X	X
Tools of all types	X	X	X	X	X
Electrical equipment and parts	X	X	X	X	X
Construction services and materials	X	X	X	X	X
Custodial equipment and supplies	X	X	X	X	X
Welding equipment and supplies	X	X	X	X	X
Fuels and lubricants	X	X	X	X	X
Plastic products	X	X	X	X	X
Industrial hardware	X	X	X	X	X
Technical support	X	X	X	X	X

### II. Battelle Subcontracting Plan Administrator

Battelle's Small Business Liaison, Andrea Melius, is responsible to the Manager of Acquisition Services and will administer this Subcontracting Plan. Any change in the name of the Small Business Liaison will be communicated without delay to the Contracting Officer. Responsibilities of the Small Business Liaison include:

- Serve as Battelle's interface with small and socioeconomically-disadvantaged businesses.
- Maintain business directories from regional minority purchasing councils and other sources to expand and keep current listings of small and socioeconomically-disadvantaged businesses.
- Participate as Battelle representative in small business trade fairs, specifically directed toward offering opportunities for participants to do business with Battelle.

Modification M412

 Attend DOE-sponsored Small Business Program Manager Meetings and participate in the annual DOE Small Business Conference.

- Participate in trade associations, business development organizations, and conferences to locate and identify small and socioeconomically-disadvantaged business sources.
- Counsel and discuss subcontracting opportunities with potential small and socioeconomicallydisadvantaged business firms and arrange appropriate assistance to these firms as required and practicable.
- Provide statistics to Battelle management on progress toward established goals and recognition of significant Contract Specialist performance in this area.
- Hold periodic training and other meetings with the appropriate acquisition staff on the Socioeconomic Programs.
- Conduct periodic meetings and otherwise communicate with Battelle organizational components covering Battelle's Socioeconomic Programs.
- Support Small Business Administration (SBA) activities as requested.

#### III. Administration of Battelle's Subcontracting Plan

Battelle staff is committed to offering a fair and equitable opportunity for small and socioeconomically disadvantaged business concerns, to compete for the goods and services required to support our ongoing research.

Battelle responds either verbally or in writing to each request received from firms that desire an opportunity to compete for purchase order/subcontract business.

A computerized listing of small and socioeconomically-disadvantaged business concerns is maintained by the Small Business Liaison.

The Small Business Liaison may participate in the screening of purchase requisitions and may add suggested small and socioeconomically-disadvantaged businesses as potential sources for Contracts Specialist consideration.

Staff members are encouraged to use the Pro-*Net* and database established and maintained by the SBA for locating small and socioeconomically-disadvantaged businesses.

Staff will post all written solicitations on PNNL's website to maximize exposure to small and socioeconomically-disadvantaged businesses.

When appropriate, procurements may be synopsized in the Federal Business Opportunities (FedBizOpps) in an effort to locate additional qualified small and socioeconomically-disadvantaged business concerns for participation.

Modification M412

#### IV. Flow-Down Requirements to Battelle's Subcontractors

Each purchase order/subcontract action \$100,000 and above placed in furtherance of Prime Contract DE-AC05-76RLO1830 will include the clause: "Utilization of Small Business Concerns."

Lower-Tier Subcontracting Plans from large business concerns are each reviewed and approved by Battelle's Small Business Liaison. Contact is established with the Lower-Tier Subcontractors Plan Administrator to offer assistance in identifying potential small and socioeconomically-disadvantaged sources and establish quarterly reporting requirements.

Battelle's Procurement Policies Manual contains instructions to staff to include in all solicitations for negotiated procurements amounting to \$500,000, or more, and which will offer subcontracting opportunities, the requirement to develop and adopt a Small Business Subcontracting Plan as required by Battelle's operating Contract.

#### V. Periodic Reporting and Cooperating with DOE and SBA

Battelle will submit such periodic reports, as may be required by DOE or the SBA, in order to determine the extent of compliance with this Subcontracting Plan.

Battelle will cooperate in any studies or surveys conducted by DOE or SBA, by furnishing requested available statistical data.

Battelle will submit Standard Form 294, Subcontracting Report for Individual Contracts, and/or Standard Form 295, Summary Subcontract Report, in accordance with the instructions on the forms or as provided by DOE and will ensure that its subcontractors agree to submit Standard Forms 294 and 295

#### VI. Maintaining Records

Computerized reports are used to track progress toward achievement of goals. These reports are used to prepare monthly and quarterly reports (more frequent if requested) summarizing activity and progress related to compliance with the Subcontracting Plan.

In support of this Plan, Battelle will maintain the following records:

- Source lists (e.g., PRO-Net and SUB-Net), guides and other data that identify small and socioeconomically-disadvantaged business concerns
- Organizations contacted to locate small and socioeconomically-disadvantaged business concerns.
- Records on each subcontract solicitation resulting in an award of more than \$100,000, indicating whether small and socioeconomically-disadvantaged businesses were solicited and, if not, why not, and, if applicable, the reason award was not made to a small business concern.
- Records of any outreach efforts and contacts with trade associations, business development organizations, and conferences and trade fairs to locate small and socioeconomicallydisadvantaged sources.

• Records of internal guidance and encouragement provided to buyers through (1) workshops, seminars, training, etc., and (2) monitoring performance to evaluate compliance with the program's requirements.

• On a contract-by-contract basis, records to support award data submitted by the offeror to Battelle, including the name, address, and business size of each subcontractor.

# PART III – List of Documents, Exhibits, and Other Attachments

#### **Section J**

## Appendix D

**List of Applicable DOE Directives & External Requirements** 

#### SECTION J APPENDIX D LIST OF APPLICABLE DOE DIRECTIVES & EXTERNAL REQUIREMENTS

DOE DIRECTIVES		
DIRECTIVE NO.	DIRECTIVE TITLE	
CRD O 110.3, Supplemented	CONFERENCE MANAGEMENT	
CRD O 130.1	BUDGET FORMULATION	
CRD M 140.1-1B	INTERFACE WITH THE DEFENSE NUCLEAR FACILITIES SAFETY BOARD	
DOE N 142.1	UNCLASSIFIED FOREIGN VISITS AND ASSIGNMENTS	
CRD O 200.1	INFORMATION MANAGEMENT PROGRAM	
DOE M 200.1-1	TELECOMMUNICATIONS SECURITY MANUAL	
CRD O 205.1	DEPARTMENT OF ENERGY CYBER SECURITY MANAGEMENT PROGRAM	
CRD N 205.2	FOREIGN NATIONAL ACCESS TO DOE CYBER SYSTEMS	
CRD N 205.3	PASSWORD GENERATION, PROTECTION, AND USE	
CRD N 205.4	HANDLING CYBER SECURITY ALERTS AND ADVISORIES AND REPORTING CYBER SECURITY INCIDENTS	
CRD N 205.8	CYBER SECURITY REQUIREMENTS FOR WIRELESS DEVICES AND INFORMATION SYSTEMS	
CRD N 205.9	CERTIFICATION AND ACCREDITATION PROCESS FOR INFORMATION SYSTEMS INCLUDING NATIONAL SECURITY SYSTEMS	
CRD N 205.10	CYBER SECURITY REQUIREMENTS FOR RISK MANAGEMENT	
CRD N 205.11	SECURITY REQUIREMENTS FOR REMOTE ACCESS TO DOE AND APPLICABLE CONTRACTOR INFORMATION TECHNOLOGY SYSTEMS	
CRD N 205.12	CLEARING, SANITIZING, AND DESTROYING INFORMATION SYSTEM STORAGE MEDIA, MEMORY DEVICES, AND OTHER RELATED HARDWARE	
CRD O 221.1	REPORTING FRAUD, WASTE, AND ABUSE TO THE OFFICE OF INSPECTOR GENERAL	
CRD O 221.2	COOPERATION WITH THE OFFICE OF INSPECTOR GENERAL	
CRD M 231.1-2	OCCURRENCE REPORTING AND PROCESSING OF OPERATIONS INFORMATION	
CRD O 241.1A	SCIENTIFIC AND TECHNICAL INFORMATION MANAGEMENT	
CRD O 251.1A	DIRECTIVES SYSTEM ORDER	
CRD O 252.1	TECHNICAL STANDARDS PROGRAM	
CRD O 350.2A	USE OF MANAGEMENT AND OPERATING OR OTHER FACILITY MANAGEMENT CONTRACTOR EMPLOYEES FOR SERVICES TO DOE IN THE WASHINGTON, D.C., AREA	
CRD O 412.1	WORK AUTHORIZATION SYSTEM	
CRD O 413.1A	MANAGEMENT CONTROL PROGRAM	
CRD O 413.2A	LABORATORY DIRECTED RESEARCH AND DEVELOPMENT	

DOE DIRECTIVES			
DIRECTIVE NO.	DIRECTIVE TITLE		
CRD O 414.1A, Chg 1	QUALITY ASSURANCE		
CRD O 420.1A	FACILITY SAFETY (Section 4.2 only)		
CRD O 420.2A	SAFETY OF ACCELERATOR FACILITIES		
CRD O 430.1B	REAL PROPERTY ASSET MANAGMENT		
CRD O 435.1, Chg 1*	RADIOACTIVE WASTE MANAGEMENT		
CRD O 440.1A, Chg 1	WORKER PROTECTION MANAGEMENT FOR DOE FEDERAL AND		
CRD O 440.1A, Clig 1	CONTRACTOR EMPLOYEES		
CRD O 443.1	PROTECTION OF HUMAN SUBJECTS		
CRD N 450.7	THE SAFE HANDLING, TRANSFER, AND RECEIPT OF BIOLOGICAL ETIOLOGIC AGENTS AT DEPARTMENT OF ENERGY FACILITIES		
CRD M 452.4-1	PROTECTION OF USE CONTROL VULNERABILITIES AND DESIGNS		
CRD O 470.1, Chg 1	SAFEGUARDS AND SECURITY PROGRAM		
CRD M 470.1-1	SAFEGUARDS AND SECURITY AWARENESS PROGRAM		
CRD O 470.2B,	SECURITY AND EMERGENCY MANAGEMENT INDEPENDENT		
Supplemented, Rev 2	OVERSIGHT AND PERFORMANCE ASSURANCE PROGRAM		
DOE M 471.1-1, Chg 1	IDENTIFICATION AND PROTECTION OF UNCLASSIFIED		
	CONTROLLED NUCLEAR INFORMATION MANUAL		
CRD O 471.1A	IDENTIFICATION AND PROTECTION OF UNCLASSIFIED CONTROLLED NUCLEAR INFORMATION		
CRD M 471.2-1B,	CLASSIFIED MATTER PROTECTION AND CONTROL MANUAL		
Supplemented, Rev 1			
CRD M 471.2-1C, Supplemented, Rev 0	CLASSIFIED MATTER PROTECTION AND CONTROL MANUAL		
DOE M 471.2-3A	SPECIAL ACCESS PROGRAM POLICIES, RESPONSIBILITIES, AND		
DOE W 471.2-3A	PROCEDURES		
CRD O 471.2A	INFORMATION SECURITY PROGRAM		
CRD M 471.2-2	CLASSIFIED INFORMATION SYSTEMS SECURITY MANUAL		
CRD M 471.3-1**	MANUAL FOR IDENTIFYING AND PROTECTING OFFICIAL USE		
	ONLY INFORMATION		
CRD N 471.3, Supplemented, Rev 0	REPORTING INCIDENTS OF SECURITY CONCERN		
DOE M 472.1-1B	PERSONNEL SECURITY PROGRAM MANUAL		
CRD O 472.1C	PERSONNEL SECURITY ACTIVITIES		
CRD O 473.1	PHYSICAL SECURITY PROGRAM		
CRD M 473.1-1,	PHYSICAL PROTECTION PROGRAM MANUAL		
Supplemented, Rev 0			
CRD N 473.8	SECURITY CONDITIONS		
CRD O 474.1A	CONTROL AND ACCOUNTABILITY OF NUCLEAR MATERIALS		
CRD M 474.1-1B	MANUAL FOR CONTROL AND ACCOUNTABILITY OF NUCLEAR MATERIALS		
CRD M 474.1-2, Chg 2	NUCLEAR MATERIALS MANAGEMENT AND SAFEGUARDS SYSTEM REPORTING AND DATA SUBMISSION		
CRD M 475.1-1A	IDENTIFYING CLASSIFIED INFORMATION		

DOE DIRECTIVES				
DIRECTIVE NO.	DIRECTIVE TITLE			
CRD N 481.1A	REIMBURSABLE WORK FOR DEPARTMENT OF HOMELAND SECURITY			
CRD O 481.1B Supplemented, Rev 0	WORK FOR OTHERS (NON-DEPARTMENT OF ENERGY FUNDED WORK)			
CRD O 482.1	DOE FACILITIES TECHNOLOGY PARTNERING PROGRAMS			
CRD O 483.1	DOE COOPERATIVE RESEARCH AND DEVELOPMENT AGREEMENTS			
CRD O 534.1B	ACCOUNTING			
CRD O 551.1B	OFFICIAL FOREIGN TRAVEL			
HQ CRD O 580.1A	GOVERNMENT PERSONAL PROPERTY ASSET MANAGEMENT			
DOE O 1450.4	CONSENSUAL LISTENING-IN TO OR RECORDING TELEPHONE/ RADIO CONVERSATIONS			
DOE O 2110.1A, Chg 2	PRICING OF DEPARTMENTAL MATERIALS AND SERVICES			
DOE O 5400.5, Chg 2	RADIATION PROTECTION OF THE PUBLIC AND THE ENVIRONMENT (Chapter 2, Sections 2 & 5, and Chapter 4)			
DOE O 5610.2, Chg 1	CONTROL OF WEAPON DATA			
DOE O 5639.8A	SECURITY OF FOREIGN INTELLIGENCE INFORMATION AND SENSITIVE COMPARTMENTED INFORMATION FACILITIES			
DOE O 5670.3	COUNTERINTELLIGENCE PROGRAM			
DOE/RL-94-02	HANFORD EMERGENCY RESPONSE PLAN			
PNL-MA-530	PNNL FLIGHT OPERATIONS MANUAL			

<sup>\*</sup> The Contractor shall submit a plan to implement CRD O 435.1, Chg 1 "Radioactive Waste Management" no-later-than 30 calendar days after the effective date of the modification to extend the contract. The Contractor shall continue to comply with DOE O 5820.2A "Radioactive Waste Management" until implementation of CRD 435.1, Chg 1.

<sup>\*\*</sup> The Contractor shall submit a plan to implement CRD M 471.3-1 "Manual for Identifying and Protecting Official Use Only Information" no-later-than 30 calendar days after the effective date of the modification to extend the contract.

## Part III - List of Documents, Exhibits, And Other Attachments

## **Section J**

## Appendix E

**Performance Evaluation and Measurement Plan** 

## APPENDIX E

#### STANDARDS OF PERFORMANCE-BASED FEE

## FY 2004

## BATTELLE PERFORMANCE EVALUATION AND MEASUREMENT PLAN

for

Management and Operations of the

**Pacific Northwest National Laboratory** 

Paul W. Kruger, Manager	Date
Pacific Northwest Site Office	

### **Table of Contents**

IN	TRODUCTION	1
	DETERMINING THE CONTRACTORS DEDECOMANCE DATING AND DEDECOMANCE	
	DETERMINING THE CONTRACTOR'S PERFORMANCE RATING AND PERFORMANCE BASED FEE	
	DASED FEE	. 4
II.	CRITICAL OUTCOMES, OBJECTIVES & PERFORMANCE INDICATORS	5
RA	CKGROUND	5
	ANGE CONTROL	
	ITICAL OUTCOMES, OBJECTIVES, AND PERFORMANCE INDICATORS	
	QUALITY OF SCIENCE AND TECHNOLOGY (30%)	
	PRODUCE ORIGINAL, CREATIVE SCIENTIFIC AND TECHNOLOGICAL RESULTS	
1.1	1.1.1 Progress against Biomolecular Systems Initiative expected outcomes	
	1.1.2 Progress against Computational Sciences and Engineering Initiative expected	• •
	outcomes	8
	1.1.3 Progress against Homeland Security Initiative expected outcomes	
	1.1.4 Demonstrate efficient capture of inventions generated at the Laboratory	
	1.1.5 Demonstrate the support and use of strong technical peer review processes to	
	maintain the quality of R&D programs and processes.	12
1.2	RECEIVE RECOGNITION OF RESULTS THAT ENHANCE THE LABORATORY'S AND DOE'S REPUTATIO	N
	FOR DELIVERING SCIENCE-BASED SOLUTIONS	
	1.2.1 Maximize the impact of the Laboratory's peer-reviewed and other publications	13
	1.2.2 Determine science and technology impact through awards and recognition	14
1.3	CUSTOMER EVALUATION OF QUALITY OF SCIENCE AND TECHNOLOGY	15
	RELEVANCE TO DOE MISSIONS AND NATIONAL NEEDS (30%)	19
2.1	THE OFFICE OF SCIENCE (SC) EVALUATION OF RELEVANCE TO DOE MISSIONS AND NATIONAL	
	NEEDS.	
2.2	THE OFFICE OF DEFENSE NUCLEAR NONPROLIFERATION (DNN) EVALUATION OF RELEVANCE TO	
	DOE MISSIONS AND NATIONAL NEEDS.	21
2.3	THE OFFICE OF ENERGY EFFICIENCY AND RENEWABLE ENERGY (EERE) EVALUATION OF	
	RELEVANCE TO DOE MISSIONS AND NATIONAL NEEDS	24
2.4	THE OFFICE OF FOSSIL ENERGY (FE) EVALUATION OF RELEVANCE TO DOE MISSIONS AND	
	NATIONAL NEEDS.	26
2.5	THE DEPARTMENT OF HOMELAND SECURITY (DHS) EVALUATION OF RELEVANCE TO DOE	۰-
• -	MISSIONS AND NATIONAL NEEDS.	27
2.6	THE OFFICE OF ENVIRONMENTAL MANAGEMENT (EM) EVALUATION OF RELEVANCE TO DOE	20
2.7	MISSIONS AND NATIONAL NEEDS.	
2.1	THE OFFICE OF INTELLIGENCE (IN) EVALUATION OF RELEVANCE TO DOE MISSIONS AND NATION.	
20	NEEDS  THE OFFICE OF COUNTERINTELLIGENCE (CN) EVALUATION OF RELEVANCE TO DOE MISSIONS AN	
2.0	NATIONAL NEEDS.	
2 0	THE OFFICE OF ELECTRIC TRANSMISSION AND DISTRIBUTION (OETD) EVALUATION OF	30
2.9	RELEVANCE TO DOE MISSIONS AND NATIONAL NEEDS	31
3 0	SUCCESS IN CONSTRUCTING AND OPERATING RESEARCH FACILITIES &	<b>J</b> 1
3.0	EQUIPMENT (20%)	34
3.1	ENSURE CAPABILITIES ARE AVAILABLE TO SUPPORT CURRENT AND FUTURE LABORATORY	54
<b></b>	PROGRAMS	34
	3.1.1 Provide facility infrastructure to support current and future Laboratory programs	<i>-</i> '
	through the continued transition out of 300 area facilities and obtain support for the	,
	acquisition of new facilities	
	3.1.2 Increase the total consideration to the Laboratory from the deployment of intellectus	
	assets.	
3.2	MANAGE ALL FACILITIES TO MAXIMIZE RESEARCH VALUE AND ASSURE SAFE, SECURE, AND	
	ENVIRONMENTALLY SOUND OPERATIONS	37

	3.2.1	Provide ESH&Q management systems that sustain and enhance excellence in	
		Laboratory operations	37
	3.2.2	Sustain and enhance the effectiveness of Integrated Safeguards and Security	39
	3.2.3	Enhance network reliability, availability, and security	42
	3.2.4	Complete FY 2004 removal of non-programmatic inventory material from the	
		Radiochemical Processing Laboratory (RPL).	44
	3.2.5	Demonstrate ownership of current Radiochemical Processing Laboratory (RPL)	
		Radioactive Materials	45
	3.2.6	Establish the Laboratory Assurance Process	45
3.3		R EVALUATION OF SUCCESS IN CONSTRUCTING AND OPERATING RESEARCH FACILITIES	
	EQUIPMEN	VT	46
4.0	<b>EFFECTI</b>	VENESS AND EFFICIENCY OF RESEARCH PROGRAM MANAGEMENT (20%	5)53
4.1	ENHANCE	RESEARCH WORK PROCESSES TO IMPROVE SCIENTIFIC PRODUCTIVITY	53
	4.1.1	Increase direct FTEs as a percent of the total Laboratory FTEs	53
4.2	DEMONST	RATE STRONG PROGRAM AND PROJECT PERFORMANCE	54
	4.2.1	Deliver quality project deliverables on time and on budget.	54
4.3	CUSTOME	R EVALUATION OF EFFECTIVENESS AND EFFICIENCY OF RESEARCH PROGRAM	
	MANAGEN	1ENT	55
III.	CONTRAC	CTOR ASSURANCE PROCESS	61

Modification M412

#### INTRODUCTION

This document describes the primary basis for DOE's Quality Assurance/Surveillance Plan (QASP) for the evaluation of Battelle's (hereafter referred to as "the Contractor") performance regarding the management and operations of the Pacific Northwest National Laboratory (hereafter referred to as "the Laboratory") for the evaluation period from October 1, 2003, through September 30, 2004. The performance evaluation provides a standard by which to determine whether the Contractor is managerially and operationally in control of the Laboratory and is meeting the missions and requirements of the Department as stipulated within this contract

This document also describes the distribution of the total available performance-based fee and the methodology for determining the amount of fee earned by the Contractor as stipulated within the clauses entitled, "Determining Total Available Performance Fee and Fee Earned," "Conditional Payment of Fee, Profit, or Incentives," "Conditional Payment of Fee or Profit – Safeguarding Restricted Data and Other Classified Information" and "Total Available Fee: Base Fee Amount and Performance Fee Amount." In partnership with the Contractor and other key customers, the Department of Energy (DOE) Headquarters (HQ) and the Pacific Northwest Site Office (PNSO) have defined the performance expectations that serve as the Contractor's performance-based evaluation and fee determination.

In an April 30, 2002 memorandum, "Principles for Office of Science Laboratory Contracts," the Under Secretary for DOE set forth six principles to improve DOE laboratory contractor performance and contract administration. In support of these principles this evaluation plan has been modified from previous plans to further improve the performance-based approach for Laboratory performance evaluation and determination of performance-based fee. This modified approach continues to utilize critical outcomes, objectives and corresponding indicators/measures to evaluate the Contractor's performance in meeting contract requirements and the DOE mission areas assigned to the Laboratory. The critical areas (Outcomes) to be measured include Quality of Science and Technology, Relevance to DOE Mission and National Needs, Value of Research Facilities, and Research Management and Program Leadership.

The critical outcomes, objectives and corresponding indicators/measures discussed herein were developed in accordance with contract requirements, the principles for Office of Science laboratory contracts mentioned above and site-specific needs for improvement at the Laboratory. Performance criteria is limited in number and focus on results and integrated systems-based metrics to drive improved performance and increased effective and efficient management of the Laboratory's missions. Measures have been developed in coordination with HQ program offices as appropriate to insure the combination of program office input and individual performance indicators together provides assurance that the overall objective(s)/outcome(s) are being met. Except as otherwise provided for within the contract, the evaluation and fee determination will rest solely on the quality, relevance, and mission critical management and operation of the Laboratory's mission. The performance outcomes, objectives, indicators, and expectations herein have been developed in such a manner as to:

- Contribute directly to or enhance the Laboratory's ability to accomplish it's Science and Technology (S&T) mission for DOE and the Nation;
- > Drive performance by concentrating on desired outcomes (results);
- Compel the Contractor to focus on systems performance, cost effectiveness and continuous improvement of functions and services essential to the mission;
- Add commensurate value on the context of the Laboratory's mission and the entire performance plan;
- Encourage benchmarking (incorporation of best practices);
- Ensure accurate and meaningful reflection of performance through the utilization of objective measures wherever possible;
- Encourage the continuation of meaningful self-assessment and proactive improvements; and
- > Correct an important problem or resolve a significant issue.

For FY 2004 the overall performance against this performance plan, to include the evaluation of individual indicators and their corresponding measures/metrics, shall be evaluated jointly by the appropriate HQ office or major customer and the PNSO. This cooperative review methodology will ensure that the overall evaluation of the Contractor results in a consolidated DOE position taking into account specific indicators/measures as well as all additional programs/projects not otherwise evaluated via specific

indicators/measures. The PNSO shall work closely with each HQ program office or major customer throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

<u>Section I</u> provides information on how the overall performance rating for the Contractor, as well as how the performance-based fee earned (if any) will be determined.

<u>Section II</u> provides the detailed information concerning critical outcomes, objectives, performance indicators, and expectations of performance, along with the weightings assigned to each and a table for calculating the final score for each objective and outcome.

Section III describes the commitments for documenting and reporting the Laboratory-Level self-evaluation.

## I. DETERMINING THE CONTRACTOR'S PERFORMANCE RATING AND PERFORMANCE-BASED FEE

The overall FY 2004 Battelle performance rating will be determined based on the ratings of the Quality of Science and Technology, Relevance to DOE Mission and National Needs, Value of Research Facilities, and Research Management and Program Leadership performance expectations in accordance with Table A below. The total points derived will be compared to the scale in Table B, below; to determine the overall Contractor adjectival rating for FY 2004 and to Table C to determine the amount of performance-based fee earned. Each critical outcome is composed of two or more objectives and each objective has one or more indicators, which are designed to confirm that the Contractor is meeting the objective. The following describes the methodology for determining the Contractor rating:

#### Performance Evaluation Metrics:

Each of the performance indicators has an associated metric accompanied by a scale that translates the level of performance to an adjectival rating. Unless otherwise specified for a given indicator, the scoring methodology for the assessment process is based upon the adjectival rating definitions and value points identified in Figure I-1.

Adjective	Value Point	Definition
Outstanding	4	Significantly exceeds the standards of performance, achieves noteworthy results, accomplishes very difficult tasks in a timely manner.
Excellent	3	Exceeds expectations and standards of performance, accomplished difficult tasks in a timely manner, and minor deficiencies are more than offset by better performance in other areas.
Good	2	Meets expectations and standards of performance, actions are carried out in an efficient and timely manner; deficiencies do not affect overall performance.
Marginal	1	Below the standards of performance, deficiencies cause serious delays and rescheduling, schedules are adversely affected.
Unsatisfactory 0		Well below standards of performance, deficiencies cause serious delays and re-scheduling, corrective action requires high-level management attention.

Figure I-1. Adjectival Rating Definitions and Value Points

Modification M412

#### Calculating the Overall Contractor Adjectival Rating:

The adjectival rating earned for each performance indicator is assigned the earned value points per Figure I-1 above. The objective rating is then computed by multiplying the value points by the weight of each performance indicator within an objective. These values are then added together to develop an overall score for each objective. The score for each objective within an outcome is computed in the same manner and is used to develop a score for each outcome. A set of tables is provided at the end of each critical outcome section of this document to assist in the calculation of indicator scores to objective scores to the outcome score. Utilizing Table A, below, the scores for each of the outcomes are then multiplied by the weight assigned and these are summed to provide an overall score for the Contractor. The total Contractor score is compared to the adjectival rating scale found in Table B, below, to determine the overall Contractor adjectival rating for FY 2004.

An adjectival rating may be identified at any level of the performance evaluation process (outcome, objective, or indicator). However, the raw score (rounded to the nearest hundredth) from each calculation shall be carried through to the next stage of the calculation process. The raw score will be rounded to the nearest tenth of a point for purposes of identifying the Laboratory's overall adjectival rating as indicated in Table B and for fee determination as indicated in Table C. A standard rounding convention of x.44 and less rounds down to the nearest tenth (here, x.4), while x.45 and greater rounds up to the nearest tenth (here, x.50).

#### Determining the Amount of Performance-Based Fee Earned:

The total performance-based fee earned is determined based on the overall Contractor weighted score for FY 2004 as indicated within Table A and then compared to Table C.

Critical Outcome	Value Points	Adjectival Rating	Weight	Weighted Score	Total Score
Quality of Science and Technology			30%		
Relevance to DOE Missions and National Needs			30%		
Success In Constructing And Operating Research Facilities & Equipment			20%		
Effectiveness and Efficiency of Research Program Management			20%		
				Total Score	

Table A. FY 2004 Contractor Evaluation Score Calculation

Total Score	4.0 - 3.5	3.4 - 2.5	2.4 - 1.5	1.4 – 0.5	<0.5
Final Rating	Outstanding	Excellent	Good	Marginal	Unsatisfactory

Table B. FY 2004 Contractor Adjectival Rating Scale

Modification M412

Overall Weighted Score from Table A.	Performance Rating	Percent of Fee Earned of \$7,800,000.00
4.0	G	100%
3.9		100%
3.8	O4-4	100%
3.7	Outstanding	98%
3.6		96%
3.5		94%
3.4		93%
3.3		92%
3.2		91%
3.1		90%
3.0	Excellent	85%
2.9	Excellent	83%
2.8		81%
2.7		79%
2.6		77%
2.5		75%
2.4		50%
2.3		50%
2.2		50%
2.1	Good	30%
2.0	Good	30%
1.9		25%
1.8		0%
1.7 to 1.5		0%
1.4 to 0.5	Marginal	0%
0.4 to 0.0	Unsatisfactory	0%

Table C. Performance-Based Fee Earned Scale

#### Adjustment to the Adjectival Rating and Performance-Based Fee Determination:

Performance indicators in this agreement or Contractor self-assessment plans do not diminish the need to comply with minimum contractual requirements. Although the performance-based critical outcomes and their corresponding objectives/indicators shall be the primary means utilized in determining the Contractor's performance rating and amount of performance-based fee earned, the Head of Contracting Activity may adjust the rating and/or reduce or increase the otherwise earned fee based on the Contractor's performance against all contract requirements as set forth in clause entitled "Conditional Payment of Fee, Profit, or Incentives." In order for the Contractor to receive all otherwise earned fee, the Contractor must meet the minimum performance requirements as set forth in clause titled "Conditional Payment of Fee, Profit, or Incentives" or "Conditional Payment of Fee or Profit – Safeguarding Restricted Data and Other Classified Information."

Adjustments to the adjectival rating or performance-based fee determination, or both, if necessary, will be based upon the review of the Contractor's self-evaluation report, extent of creditable disclosure, actions to mitigate adverse consequences, performance against contract requirements, and results from any of the following activities:

- 1. Operational awareness (daily oversight) activities performed throughout the year;
- 2. For Cause reviews:
- 3. Other outside agency reviews (OIG, GAO, DCAA, etc.) conducted throughout the year, and
- 4. Annual 2-week review (if needed).

Modification M412

The final Contractor performance-based rating and fee earned determination will be contained within a year-end report, documenting the results from the DOE review. The report will identify areas where performance improvement is necessary and, if required, provide the basis for any performance-based rating and/or fee adjustments made from the otherwise earned rating/fee based on critical outcome achievements.

#### II. CRITICAL OUTCOMES, OBJECTIVES & PERFORMANCE INDICATORS

#### Background

In order for both the short and long-term ability of the Laboratory to contribute to DOE mission objectives and to provide high-value products and services to the DOE and other customers, the DOE-HQ and the PNSO Manager, in partnership with the Contractor, evaluated DOE and other customer needs and current operating environments to develop the Laboratory's outcomes, objectives, and indicators/measures.

The outcome-oriented approach focuses the evaluation of the Contractor's performance against these critical outcomes. Progress against these outcomes is measured through the use of a set of performance indicators, both objective and subjective, that focus primarily on end-results or impact and not on processes or activities. On occasion however, it may be necessary to include a process-oriented measure into the suite of performance indicators when there is a need for the Laboratory to develop a system or process that does not currently exist but will be of significant importance to the DOE and the Laboratory when completed. In this case, it is anticipated that the process indicator will result in measures focusing on end-results or impact that will be tracked in the following year(s).

#### **Change Control**

While the outcomes, objectives, and indicators described herein represent the current set for the Contractor they may require adjustments as prevailing scientific, and/or economic factors change. When this happens, the objectives and the resulting performance indicators/measures will be revised to move the Laboratory in a direction consistent with the expectations of its customers. To this end the content of this document will be managed via formal change control. Changes to the FY 2004 Performance Evaluation and Measurement Plan will be documented in accordance with approved procedures utilizing the Change Control Tracking Sheet. The sheet is self-explanatory and requires the concurrence of both the PNSO and the Contractor Critical Outcome Owners as well as a documented description of the proposed modification and a documented rationale for the modification to include what effects (if any) the change may have on the ability for the Contractor to earn performance-based fee. A change to the critical outcomes also requires the review/approval of the PNSO Manager and HQ Office of Science (SC). In addition SC will be notified of changes to any objectives.

Once the Critical Outcome Owners have concurred with the modification, DOE staff shall forward the form with the prescribed attachments to the Contract Administration Manager, at mail stop K8-50. Contractor staff shall forward the change control form, with attachments, to the PNNL Performance Measurement Process Administrator, at mail stop K1-33. They shall confirm that all required information has been provided and that both Critical Outcome Owners (DOE and Contractor) and, as required, HQ Office of Science have concurred in the change. The change will then be given a formal Change Control number and final PNSO and Contractor approvals will be obtained, as necessary, to include Contracting Officer approval. Once approved appropriate modifications to this appendix will be prepared and issued via a contract modification.

The above process is the preferred method for incorporating changes to this document, however, if the Parties cannot reach agreement on the changes to critical outcomes, objectives, performance indicators, and/or expected levels of performance, the Contracting Officer shall have the unilateral right to change the performance agreement in accordance with clause entitled "Standards of Contractor Performance Evaluation" within this contract.

#### Critical Outcomes, Objectives, and Performance Indicators

The following sections describe the critical outcomes, their supporting objectives, and associated performance indicators for FY 2004.

Modification M412

#### 1.0 QUALITY OF SCIENCE AND TECHNOLOGY (30%)

Battelle produces high-quality, original, and creative results that advance science and technology and have sustained scientific progress and impact, which are recognized by the scientific and technical communities.

The weight of this outcome is 30%.

The Quality of Science and Technology critical outcome shall measure the overall effectiveness and performance of the Contractor in delivering science and technology results which contribute to and enhance the nation's technology base and is recognized by others within the scientific community as identified within the objectives below. Performance objectives and indicators to be utilized in the evaluation of the Quality of Science and Technology critical outcome have been developed by the PNSO in partnership with the Contractor and appropriate DOE HQ organizations. These performance objectives and indicators identify significant activities/requirements important to the success of the Laboratory's advancement of quality science and technology development as identified by the Department and/or its customers.

Each of the performance indicators has an associated performance evaluation metric that translates the level of performance to an adjectival rating. The scoring of the individual performance indicators is based on the point scheme identified within Section I of this document. The overall adjectival rating is then computed by multiplying the weight of each performance indicator, and summing them all to develop an overall score for each objective. The score for each objective within the outcome is then computed in the same manner to arrive at an overall score for the outcome (see Table 1.1 at the end of this section). The overall value points earned are then compared to Table 1.3 to determine the overall adjectival rating.

#### Objectives and Performance Indicators:

#### 1.1 Produce original, creative scientific and technological results

The weight of this objective is 30%.

1.1.1 Progress against Biomolecular Systems Initiative expected outcomes

The weight of this indicator is 30%.

<u>Description</u>: This indicator measures progress against the Biomolecular Systems Initiative's expected outcomes listed below.

<u>Definitions</u>: Initiative leadership may include the Contractor Level 1 Steward for the initiative, the overall initiative leader, the leader of the initiative's technical program, and possibly a deputy leader.

#### Assumptions:

- Performance against this indicator is dependent upon authorized funding for the FY 2004 fiscal year.
- The syntrophic co-culture system milestone is dependent upon genome sequences whose availability and timing is uncertain.
- Technical milestones relative to proteome, transcriptome, and Cytoscape analyses, though uncertain, will receive high priority.

<u>Performance Evaluation</u>: Initiative leadership will involve the SC Headquarters and PNSO points of contact in the progress reviews normally scheduled for the initiative. If the DOE points-of-contact determine that the normal reviews are insufficient, they may choose to form a review group, to include representatives of the Contractor, PNSO, and the Headquarters Office of Science as appropriate. At the end of the FY 2004 Fiscal Year, the Contractor staff will prepare a short written report on progress against the established indicators and relevant feedback from reviews to be provided to the SC Headquarters and PNSO points of contact for

Modification M412

the initiative. A total of 19 points are possible for completing the elements listed below. The final value will be utilized in determining the overall rating for this indicator.

- 1. Outreach and Scientific Leadership (4 points possible)
  - As a recognized leader in Systems Biology the Contractor will organize national level symposiums and workshops, to include leaders in the biological sciences and decision makers. BSI will organize and conduct the 2<sup>nd</sup> Annual Northwest Symposium for Systems Biology to be held in Richland, June 2004 featuring experts in bioinformatics, proteomics, microbiology and molecular biology. BSI will co-sponsor and participate in organizing Institute for Systems Biology's (ISB's) 2004 Symposium: Emerging Technologies and Systems Biology to be held in April 2004. (1 point)
  - The Contractor will organize and successfully conduct a symposium on proteomics to be held at the annual American Association for the Advancement of Science (AAAS) meeting in February 2004, in Seattle. (1 point)
  - The Contractor will continue to have staff participate as organizers, lecturers, and spokespersons at national forums sponsored by prominent scientific organizations. Bioinformatics will be a strong theme. Specifically, BSI will conduct a special interest subgroup/concurrent symposium, feature a booth, and present a minimum of 2 papers at the 43<sup>rd</sup> Annual Meeting for Cell Biology (ASCB), December 2003. (1 point)
  - The Contractor will place a higher priority on publications. More attention will be devoted to designing and executing high-visibility publications. At least sixty articles will be submitted to peer-reviewed journals. (1 point)
- 2. Build Systems Biology Capabilities (4 points possible)
  - Senior Level Recruiting: Extend offers to a minimum of 3 senior candidates. (1.5 points)
  - Junior Level Recruiting: Fill 3 -5 junior positions and/or postdoctoral positions. (0.5 points per position filled)
- 3. Strengthen Strategic Partnerships (2 points possible)
  - Collaboration with MIT will be expanded and strengthened. The Contractor will submit a joint proposal with MIT while leveraging the Laboratory's expertise in proteomics, cell modeling and high performance computing.
  - Collaborations with Utah State, University of California San Diego (UCSD),
     University of Washington (UW), and ISB will be strengthened and broadened. The
     Contractor will build on earlier teaming interactions and collaborations now in place to
     compete for multiple National Institute of Health (NIH) programs and future GTL
     calls. The Contractor will submit a minimum of 2 joint proposals with other
     institutions to advance this goal.
- 4. Scientific and Technical Outcomes The Contractor shall demonstrate completion of these milestones to the PNSO and SC HQ staff via meeting(s) and/or other communications (8 points possible)
  - Capability development: Analyze a syntrophic co-culture system in which two
    microbes interact to break down organic molecules. Accomplishment of this goal will
    be measured by completion of the initial set of the chemostat runs addressing the
    development of syntrophic metabolism.
  - Capability development: Develop a systems-level understanding of the mechanisms of sensing environmental changes and response in microbes. Accomplishment of this goal will be measured by completing the knock-out gene sensor to which the Yellow Fluorescence Protein (YFP) has been fused for identification of regulated genes by microarrays, in order to significantly improve methods for conducting genetic manipulation of Shewanella.
  - Bioinformatics Core Development: An underlying bioinformatics core will be supplemented with proteomics and imaging technologies, which will greatly enhance the Contractor's competitiveness and facilitate collaborative efforts. The Contractor's projects will start using computer-based laboratory notebooks and Laboratory

Information Management System (LIMS) to build databases that can be used productively.

Proteomics Manuscripts: Continue work to characterize an increased number of
protein complexes. Apply this capability to understand an important problem related to
microbial systems biology. Submit at least two manuscripts describing work
performed in the Prototype Sample Processing and Proteomics Facility.

#### 5. Peer Review (1 point possible)

• The BSI Advisory Committee provides guidance and feedback on (1) specific focus areas and scientific-technical content, and (2) business strategy and execution. An annual written evaluation report is prepared for the Laboratory's Research Council and a copy submitted to the PNSO point of contact. The report provides an assessment of the Initiative's progress against objectives, ratings, and recommendations for future growth and outlook.

Outstanding: 16 - 19 points
Excellent: 13 - 15 points
Good: 10 - 12 points
Marginal: 7 - 9 points
Unsatisfactory: ≤6 points

Value points will be pro-rated within the ranges identified above.

1.1.2 Progress against Computational Sciences and Engineering Initiative expected outcomes

The weight of this indicator is 20%.

<u>Description</u>: This indicator measures progress against the Computational Sciences and Engineering Initiative expected outcomes listed below as taken from the FY 2004 Computational Sciences and Engineering Initiative expected outcomes.

<u>Definitions</u>: Initiative leadership may include the Contractor Level 1 Steward for the initiative, the overall initiative leader, the leader of the initiative's technical program, and possibly a deputy leader.

<u>Assumptions</u>: Performance against this indicator is dependent upon authorized funding for the FY 2004.

<u>Performance Evaluation</u>: Initiative leadership will involve the SC Headquarters and PNSO points of contact in the progress reviews normally scheduled for the initiative. If the DOE points-of-contact determine that the normal reviews are insufficient, they may choose to form a review group, to include representatives of the Contractor, PNSO, and the Headquarters Office of Science as appropriate. At the end of the FY 2004 the Contractor staff will prepare a short written report on progress against the established indicators and relevant feedback from reviews to be provided to the SC Headquarters and PNSO points of contact for the initiative. The following five goals and the corresponding points will be utilized in determining the overall rating for this indicator:

1. Continued Technical and Scientific Progress: (8 points possible)

The goal of providing continued technical and scientific progress in areas pertinent to the Laboratory's strategic objectives of this initiative will be evaluated based on the Contractor's successful completion of the following initiative objectives. One point shall be awarded for each of the eight technical and scientific metrics identified below, which are successfully completed by the Contractor. Successful completion shall be evaluated and determined by the HQ SC and PNSO points of contact.

• Climate Modeling: Demonstrate at selected geographic locations that scalable superparameterization techniques provide a significant improvement in simulations of

Modification M412

atmospheric energy and water budgets compared to conventional, parameterized models. This will help to match the scale of cloud observations with the scale of simulations, and lay the groundwork for the next generation of climate modeling.

- Data Middleware: Develop and demonstrate an adaptive architecture and tool for dynamic data integration. This will establish technology needed for a new class of applications that dynamically adapt to incorporate new data sources into their processing, e.g., in the diverse and evolving information sources for intelligence analysis or systems biology.
- Molecular Nanoscience: Complete the development of a scalable Self-Consistent-Charge Density Functional Tight-Binding method in NWChem that enables quantum modeling and simulation of nanometer systems. No other approaches are currently able to give a direct theoretical account of quantum mechanical effects in systems of this size.
- Discrete Analysis: Develop a scenario-driven logistical analysis framework that
  enables one to define and compare intelligence-based threat scenarios. This capability
  will allow analysts to construct graphical representations of their scenarios and
  compare them to a case library of past scenarios, using a common underlying
  mathematical structure.
- Materials Engineering: Complete the formulation and implementation of a damage model tool and optimization software for damage tolerance, that addresses the essential damage mechanisms in short-fiber thermoplastic hybrid composite structures. This capability is key to the engineered design, manufacturing, and life prediction of thermoplastic composites essential for high-strength weight-reduction materials for automobiles, trucks and wind energy systems.
- Bioinformatics: Develop and validate a permutation engine and statistical analysis
  approach that compares and analyzes a database of permutations against peptide
  fragment mass data and a supporting visualization tool to observe experimental
  results. This will provide an improved method for detecting, identifying and
  characterizing variant proteins in biological samples by mass spectroscopy.
- Computer Science: Design and implement prototype software for a Heuristic Entity Relationship Building Environment, that supports capturing user entered analytical symbolic logic, elucidating the data model from the data, expressing this into computational symbolic logic, and deploying the data and logic in a database. This will provide a way for biologists, for example, to intuitively manage and engage data that was heretofore very difficult to capture and use.
- Environmental Science: Complete a series of new subsurface science simulation
  capabilities in the CRUNCH code, and demonstrate parallel reactive transport coupling
  to nonisothermal multiphase flow. New Laboratory-developed science for the
  formation of residual, disconnected nonaqueous phases incorporated into the multifluid
  subsurface flow simulator, STOMP, will allow the first realistic treatment of carbon
  tetrachloride fate and transport in the 200 West Area of the Hanford Site.
- 2. Establish Lab-wide Infrastructure for High End Computing (1 point):
  - Bring the SGI Altix supercomputer to full operational status, assemble a steering committee with representatives of each directorate, and develop and operate an equitable allocation process.
- 3. Increase Visibility of Computational Science Activities at the Laboratory (3 points):
  - Combined, at least 20 papers related to capability developments
    - resubmitted for publication in peer-reviewed journals or conferences, or
    - ➤ are presented at national or international computing, mathematics or statistics conferences during FY 2004.
  - The Laboratory provides a successful research exhibit at the SC2003 conference and exposition.

Modification M412

4. Peer Review (1 point):

• The Computational Science and Engineering Initiative (CS&EI) Advisory Committee provides guidance and feedback on (1) specific focus areas and scientific-technical content, and (2) business strategy and execution. An annual written evaluation report is prepared for the Laboratory's Research Council and a copy submitted to the PNSO point of contact. The report provides an assessment of the Initiative's progress against objectives, ratings, and recommendations for future growth and outlook.

Outstanding: 11-13 points Excellent: 8-10 points Good: 6-7 points Marginal: 4-5 points

Unsatisfactory:  $\leq 3$ 

Value points will be pro-rated within the ranges identified above.

1.1.3 Progress against Homeland Security Initiative expected outcomes

The weight of this indicator is 20%.

<u>Description</u>: This indicator measures progress against the Homeland Security Initiative expected outcomes listed below as taken from the FY 2004 Homeland Security Initiative expected outcomes.

<u>Definitions</u>: Initiative leadership may include the Contractor Level 1 Steward for the initiative, the overall initiative leader, the leader of the initiative's technical program, and possibly a deputy leader.

<u>Assumptions</u>: Performance against this indicator is dependent upon authorized funding for the FY 2004.

Performance Evaluation: Initiative leadership will involve the Department of Homeland Security (DHS) Headquarters and PNSO points of contact in the progress reviews normally scheduled for the initiative. If the PNSO points-of-contact determine that the normal reviews are insufficient, they may choose to form a review group, to include representatives of the Contractor, PNSO, and the Headquarters DHS as appropriate. At the end of the 2004 Fiscal Year the Contractor staff will prepare a short written report on progress against the established indicators and relevant feedback from reviews to be provided to the DHS Headquarters and PNSO points of contact for the initiative. The following four goals and the corresponding points will be utilized in determining the overall rating for this indicator:

- 1. Separations and Smart Materials (4 points total, 2 points / methodology demonstrated)
  - Develop, demonstrate and document two new detection and measurement methodologies for chemical, radiological or biological threat materials based on the separations and "smart materials and mechanisms" approaches being developed by the Initiative.
- 2. Analysis and Information Discovery (4 points for one demonstration)
  - Demonstrate and document the efficacy of combining the Laboratory-developed "relationship discovery" and "context analysis" technologies to detect indications of terrorist threats in a complex data stream.
- 3. Outreach and Stature-building (2 points total)
  Increase the stature and reputation of the Laboratory in the scientific and user communities through the following activities:

- Submission of seven (7) papers on HS Initiative-funded research and development for publication in peer-reviewed journals or presentation at national or international conferences (7/4 points total, ½ point per paper submitted)
- Have at least two Laboratory staff members participate as invited speakers or panelists at a Homeland Security or related technical conference. (1/4 point)
- 4. Science and Technology Road Map (1 point)
  - Develop and present to the Initiative's Advisory Committee a multi-year "Initiative Road Map" that describes the initiative's major scientific and technological milestones, key integrated demonstrations, and major stature-building activities.

Outstanding: 10 - 11 points
Excellent: 8 - 9 points
Good: 6 - 7 points
Marginal: 4 - 5 points
Unsatisfactory: <4 points

Value points will be pro-rated within the ranges identified above.

1.1.4 Demonstrate efficient capture of inventions generated at the Laboratory

The weight of this indicator is 15%.

<u>Description</u>: This indicator measures the increase in subject invention reports generated at the Laboratory with respect to the fiscal year direct charge FTEs. The baseline for this indicator is 72 subject inventions per 1,000 direct charge FTEs.

#### Definitions:

- Invention Reports: Count of the subject invention reports received by IP Services during the current fiscal year or the reporting fiscal quarter. This includes those inventions generated by the Laboratory staff.
- Direct charge FTEs: Total hours directly charged by all staff to a project during a particular report period divided by the total number of hours available during that period. Provides an indicator of the equivalent number of full time staff charging directly to projects.
- Inventions per direct charge FTEs: Ratio of the count of subject invention reports to the direct charge FTEs. Reported as number of subject inventions per 1,000 direct charge FTEs
- Performance baseline: The number of subject inventions per direct charge FTEs averaged over the past three-year period (FY 2001 through FY 2003).

#### Assumptions:

- Composition of total direct charge FTEs for FY 2004 is similar to baseline total direct charge FTEs (i.e., past 3 years) in percentage of research and development that generated past subject inventions.
- The baseline will be recalculated if invention reports or financial data are restated for prior periods (FY 2001 through FY 2003).

#### **Performance Evaluation:**

Outstanding: 5.1% to 5.6% or greater increase in inventions per direct charge FTEs over

baseline

Excellent: 3% to 5% increase in inventions per direct charge FTEs budget over baseline Good: 1% to 2.9% increase in inventions per direct charge FTEs over baseline Marginal: No increase to 0.9% increase in inventions per direct charge FTEs over

baseline

Unsatisfactory: Any decline in inventions per direct charge FTEs relative to baseline

Value points will be pro-rated within the ranges identified above.

Modification M412

1.1.5 Demonstrate the support and use of strong technical peer review processes to maintain the quality of R&D programs and processes.

The weight of this indicator is 15%.

<u>Description</u>: This indicator demonstrates the Contractor's support and use of peer review processes to ensure the quality of its R&D programs, projects and initiatives.

Definitions: None.

Assumptions: None.

<u>Performance Evaluation</u>: The Contractor will report progress to the Pacific Northwest Site Office (PNSO) point-of-contact (POC) and the DOE Office of Science Headquarters POC (to be coordinated through the PNSO POC) as described in the indicator. This indicator will be measured by the following:

- 1. Self-assessment of the current state of reviews across the Laboratory (5 points Points will be assigned based on how well the self assessment meets the following): The Contractor will perform a self assessment across the Laboratory of FY 2003 and recent-past reviews of internal and external research programs by March 31, 2004. This self-assessment will cover directorate reviews, technical peer reviews, and programmatic reviews. Information covered in this self-assessment will describe the number, types, and timing of the reviews; the most significant benefits seen from the reviews; and identify potential future best practices. The Contractor will provide a written report of this self-assessment to the DOE PNSO POC, who will coordinate it with DOE SC POC for the final evaluation.
- 2. Develop and deliver by September 30, 2004 (4 points Points are awarded equally to the following two deliverables):
  - a. Appropriate Standards-Based Management System and other materials, which describe the conduct of self-directed and externally directed peer reviews at PNNL (2 points);
  - b. A plan for implementing this program in FY 2005 (2 points).

The PNNL Peer Review program should be designed to enable the Laboratory to realize the full value of peer reviews, integrated into the Laboratory's Integrated Planning and Assessment Management System, and incorporate contractor requirements and relevant best practices, including integration, review and analysis of peer review results as appropriate and useful.

The Implementation Plan will describe specific actions that the Laboratory will take in FY 2005 to remove gaps between current practice and the desired end-state to achieve "steady state" implementation as well as how the effectiveness of implementation (i.e. Program success) will be measured.

This effort will utilize findings from the FY 2004 self-assessment of peer review, and the analysis of key FY 2004 internal peer review results (including DRC, LDRD, and lab level initiative reports) and a sample of accessible external peer review results. The final deliverable will include summary information from this analysis.

3. FY 2004 Review Schedule (1 points - points assigned will be based on how well the schedule meets the following): The Contractor will provide the PNSO a list of all known FY 2004 reviews, and provide the PNSO updates of changes and newly scheduled reviews in advance of their scheduled date. This initial review forecast for the year is due January 31, 2004.

Modification M412

Total value points (10 total points possible) for this performance indicator will be the sum of all the metrics identified above.

Outstanding: 8 - 10 points
Excellent: 6 - 7 points
Good: 4 - 5 points
Marginal: 2 - 3 points
Unsatisfactory: <2 points

Value points will be pro-rated within the ranges identified above.

## 1.2 Receive recognition of results that enhance the Laboratory's and DOE's reputation for delivering science-based solutions

The weight of this objective is 20%.

1.2.1 Maximize the impact of the Laboratory's peer-reviewed and other publications

The weight of this indicator is 50%.

<u>Description</u>: This indicator measures the Contractor's progress in maximizing the impact of its peer-reviewed and other publications. The focus will be on optimizing the Contractor's internal culture to achieve significant publication impact.

<u>Definitions</u>: In order to optimize the Laboratory's publication impact, key publication information will be tracked, reported, and evaluated by the Contractor via a Publication Advisory Committee (PAC). The key publication information 'set' utilized by the PAC is below. Other pieces of information and input from the Council of Fellows may also be considered.

- Number of publications:
  - Total number of peer-reviewed publications and total number of journal publications for the Laboratory (see assumption 1).
  - Total Laboratory peer-reviewed publications reported as a function of disciplines as they are defined by ISI.
- Citations (The following can be done as long as the Laboratory publications have enough criteria to fall in the top 1% for that discipline):
  - The average citations per peer reviewed publication per ISI discipline.
  - The number of highly cited peer reviewed publications per ISI discipline.
  - Fraction of highly cited peer reviewed publications per ISI discipline.
  - The number of "hot" papers as defined by ISI.
- Journal rank:
  - Publications according to journal impact factor.
  - Total Top 5 ranked publications (and percentage of journal publications in the Top 5).
  - Total Top 10 ranked publications (and percentage of journal publications in the Top 10).
  - Total (and percentage of) documents with Impact Factor Score listing.

#### Assumptions:

- Data from ISI will be used in collecting publication information for the Laboratory and other institutions for comparison purposes. ISI tools will also be used to collect data such as journal impact factors and rankings by citation.
- Use of the ISI alert will be considered to determine the total number of peer-reviewed publications for the Laboratory in order to minimize cost. The ISI alert includes peer-reviewed and non-peer reviewed publications; however, the contribution of non-peer reviewed publications to the total amount of publications is reported to be small and should not skew the totals significantly. If it is later determined there is a larger than expected

contribution from non-peer reviewed publications (greater than 5%), this indicator will be modified.

• The Contractor will track, report, and evaluate key publication information to understand the Laboratory's publication impact and to inform possible process changes to maximize that impact.

<u>Performance Evaluation</u>: The Contractor will report progress to the Pacific Northwest Site Office (PNSO) point-of-contact (POC) and the DOE Office of Science Headquarters POC (to be coordinated through the PNSO POC) as described in the indicator. This indicator will be measured by the following:

- Publication Advisory Committee (2 points points assigned will be determined by the PNSO and HQ SC POC's based on how well the following is met): The Laboratory will charter and hold the first meeting of the *Publication Advisory Committee* (PAC) by February 13, 2004. This committee will provide recommendations to the Laboratory Director on ways to optimize the Contractor's peer-reviewed publication culture to achieve significant publication impact. The PNSO POC or a delegate will participate in PAC meetings.
- 2. FY 2003 Retrospective Publication Review (3 points points assigned will be determined by the PNSO and HQ SC POC's based on how well this review meets the following): The PAC will hold a *retrospective* review of publications for FY 2003 (using the information described in the *Definitions for publications measures* section as well as other input sources such as the Council of Fellows), determine the status of publication impact for FY 2003 to form a baseline for future years comparison and provide a short written report of the review results with recommendations for optimization to the Laboratory Director and the DOE POCs by March 30, 2004.
- 3. Current-Year Reporting and Review (2 points points assigned will be determined by the PNSO and HQ SC POC's based on how well the quarterly reports meet the following): The PAC will report quarterly (starting January 30, 2004) to the PNSO POC, the information listed under *Definitions for publications measures*, as appropriate, for FY 2004 publications. This reporting will also be done through the standing process for reporting progress against the PEMP.
- 4. Year-End Reporting (5 point points assigned will be determined by the PNSO and HQ SC POCs). At year end, the PAC will prepare a short written status report on FY 2004 publication impact with recommendations for optimizing the peer reviewed publication culture to achieve increased impact in future years.

Total value points (12 total possible) for this Performance Indicator will be the sum of all the metrics identified above.

Outstanding: 10 -12 points
Excellent: 8 - 9 points
Good: 6 - 7 points
Marginal: 4 - 5 points
Unsatisfactory: <4 points

Value points will be pro-rated within the ranges identified above.

1.2.2 Determine science and technology impact through awards and recognition

The weight of this indicator is 50%.

<u>Description</u>: This indicator will be measured based on the overall sum of the weighted scores of awards won (see listing below). Weightings (value points) were based on the S&T reputation of the award(s).

#### Measures:

Award and Recognition	Value/Each	
National/International Academies		
National Academy of Science membership	40	
National Academy of Engineering membership	40	
American Academy of Arts and Sciences membership	30	
Other (as mutually agreed to by the Contractor & PNSO)	5/10	
Professional Society Awards		
National Awards and Fellowships	5	
Regional	3	
Other (as mutually agreed to by the Contractor & PNSO)	1/3/5	
Government Awards		
E.O. Lawrence (DOE)	25	
Presidential Early Career Science and Engineering (DOE-SC)	15	
Homer H. Lowry (DOE-FE)	15	
FLC	5	
Other (as mutually agreed to by the Contractor & PNSO)	1/3/5	
Industry Awards		
R&D 100	5	
Other prestigious awards (TR 100, Scientific American 50, Best of Small Tech, others)	3	
Other (as mutually agreed to by the Contractor & PNSO)	1/3/5	

#### Performance Evaluation:

Outstanding: 105 - 125Excellent: 85 - 104Good: 65 - 84Marginal: 45 - 64Unsatisfactory:  $\leq 44$ 

Value points will be pro-rated within the ranges identified above.

#### 1.3 Customer evaluation of quality of science and technology

The weight of this Objective is 50%.

Objective 1.3 shall provide a subjective measure of the overall effectiveness/performance in quality of science and technology as viewed by the DOE HQ Office of Science's (SC), other cognizant HQ Program Offices, and major customers for programs/projects. Program/project activities objectively measured by other indicators within this outcome, shall be evaluated as appropriate under each indicator and may also be evaluated here to provide an overall (objective and subjective) evaluation of that program/project activity. The evaluations under this objective may also cover other program/project activities not otherwise evaluated via specific indicators within this outcome. It should be noted that the appropriate HQ program office's or major customer's will be consulted and shall contribute as appropriate to the ratings assigned to the specific program/project indicators identified under objectives 1.1 and 1.2 within this outcome.

The PNSO shall work closely with each HQ program office or major customer throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year. The contribution to the overall rating from each of the HQ Program Offices and major customers identified below has been weighted as follows.

- Office of Science (SC)<sup>1</sup> (30%)
- Office of Defense Nuclear Nonproliferation (DNN) (20%)
- Office of Intelligence (IN) (5%)
- Office of Counterintelligence (CN) (5%)
- Department of Homeland Security (DHS) (10%)
- Assistant Secretary for Energy Efficiency and Renewable Energy (EERE) (10%)
- Assistant Secretary for Fossil Energy (FE) (10%)
- Department of Environmental Management (10%)

<u>Measures</u>: HQ Program Office or Customer reviewers will evaluate the overall quality of the research performed. Depending on the nature of the program, reviewers should consider the following.

Science: Success in producing original, creative scientific output that advances fundamental science and opens important new areas of inquiry; success in achieving sustained progress and impact on the field; and recognition from the scientific community, including awards, peer-reviewed publications, citations, and invited talks.

Technology: Whether there is a solid technical base for the work; the intrinsic technical innovativeness of the research; the importance of contributions made to the scientific and engineering knowledge base underpinning the technology program; and recognition from the technical community.

Performance Evaluation: The overall performance rating for this objective will be determined by multiplying the overall value points assigned by each of the program offices/major customers identified above by the weightings identified for each and then summing them (see Table 1.2). Each HQ office will be asked to provide both an adjectival rating and rating value points as outlined within Table 1.3. Should a HQ office only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply. The summed value points earned will then compared to Table 1.3 to determine the adjectival rating for this objective. If one or more of the HQ Offices chooses to not provide an evaluation for this objective, then the weighting assigned to those HQ Offices shall be proportionately distributed among the remaining HQ office weights.

<sup>1</sup> Note: In order to provide the Office of Science sufficient information for making an informed decision of the Laboratory's performance, the following supplementary summary information will be required from the Contractor for all SC funded research:

- The executive summaries from all retrospective peer reviews during the rating period for Office of Science funded research.
- The total number of invention report filings (or expected filings) for project work done during the rating period for Office of Science funded research.
- The total number of technical awards during the rating period for Office of Science funded research, *or* the Contractor may optionally choose to identify significant awards received during the rating period from SC funded research.
- The total number of presentations of scientific results to national or international audiences during the rating period for Office of Science funded research, *or* the Contractor may optionally choose to identify the most significant presentations to national or international audiences during the rating period for Office of Science funded research.
- Summary publication information as described in metric 1.2.1 for Office of Science funded research.
- Total number and identity of collaborations for Office of Science funded research, *or* the Contractor may optionally choose to identify significant institutional collaborations for Office of Science funded research.

ELEMENT	Adjectival Rating	Value Points	Indicator Weight	Total Points	Objective Weight	Total Points
1.0 Quality of Science and Technology		1 011105	, , eight	1 01110	,, ergine	1 011105
1.1 Produce original, creative scientific						
and technological results						
1.1.1 Progress against Biomolecular			30%			
Networks Initiative expected outcomes			30%			
1.1.2 Progress against Computational						
Sciences and Engineering Initiative						
expected outcomes						
1.1.3 Progress against Homeland Security			20%			
Initiative expected outcomes			2070			
1.1.4 Demonstrate efficient capture of			15%			
inventions generated at the Laboratory						
1.1.5 Demonstrate the support and use of						
strong technical review processes to ensure			15%			
the quality of R&D programs and			1370			
processes						
		Objective 1.1 Total			30%	
1.2 Receive recognition of results that						
enhance the Laboratory's and DOE's						
reputation for delivering science-based						
solutions						
1.2.1 Maximize the impact of the			/			
Laboratory's peer-reviewed and other			50%	•		
publications						
1.2.2 Determine science and technology			50%			
impact through awards and recognition						
	Objective 1.2 Total				20%	
1.3 Customer evaluation of quality of			100%			
science and technology (From Table 1.2)		01:			<b>5</b> 00/	
Objective 1.3 Total 50%						
	Critical Outcome 1.0 Total					

Table 1.1 - Quality of Science and Technology Critical Outcome Overall Score Calculation

HQ Program Office/Customers	Adjectival Rating	Value Points	Weight	Weighted Score	Overall Weighted Score
Office of Science			30%		
Office of Defense Nuclear Nonproliferation			20%		
Office of Intelligence			5%		
Office of Counterintelligence			5%		
Department of Homeland Security			10%		
Office of Energy Efficiency and Renewable Energy			10%		
Office of Fossil Energy			10%		
Office of Environmental Management			10%		
				Overall	
				Program	
				Office	
				Total	

Table 1.2. Outcome 1.0, Quality of Science and Technology Evaluation Score Calculation for Program Offices/Customers

Modification M412

7	Total Score	4.0 - 3.5	3.4 - 2.5	2.4 - 1.5	1.4 - 0.5	< 0.5
F	Final Rating	Outstanding	Excellent	Good	Marginal	Unsatisfactory

Table 1.3 - Quality of Science and Technology Critical Outcome Final Rating

Modification M412

#### 2.0 RELEVANCE TO DOE MISSIONS AND NATIONAL NEEDS (30%)

Battelle's research and development results advance DOE missions and other national programs, have broad and significant value, and contribute to U.S. leadership in international scientific and technical communities.

The weight of this outcome is 30%.

The Relevance to DOE Missions and National Needs Critical Outcome shall measure the overall effectiveness and performance of the Contractor in producing intellectual understanding and solutions that impact DOE and National initiatives and are adopted by other researchers and industry. Performance objectives for each of the primary program offices of the Laboratory make up this outcome and indicators to be utilized as part of the evaluation of the relevance to DOE missions and national needs have been developed by the PNSO in partnership with the Contractor and appropriate DOE HQ organizations and are provided below. These performance objectives and key indicators identify significant activities/requirements important to the success of the Laboratory's advancement of DOE and national objectives as identified by the Department and/or its customers.

Each of the objectives is to be assigned an overall performance rating and value points by the HQ evaluating Program Office in accordance with Table 2.2 at the end of this section. The overall program office evaluation score for each objective should be determined by the weighted average of performance evaluations provided by each individual office within the evaluating program office, with the budget for the Laboratory from each office as the weighing factor. The overall value points are then computed by summing them all to develop an overall score for the HQ Program Office objective. The score for each objective within the outcome is then computed by multiplying the weight of each and summing them to arrive at an overall score for the outcome (see Table 2.1 at the end of this section). The overall value points earned are then compared to Table 2.2 to determine the overall adjectival rating for the outcome.

#### Objectives and Performance Indicators:

#### 2.1 The Office of Science (SC) evaluation of relevance to DOE missions and national needs.

The weight of this Objective is 30%.

This objective shall measure the overall effectiveness/performance in relevance to DOE missions and national needs as viewed by SC.

Measures: The SC program office's providing evaluations will consider whether the research fits within and advances the missions of DOE; contributions to U.S. leadership in international scientific and technical communities; contributions to the goals and objectives of the strategic plans of DOE and other national programs; and the extent of productive interaction with other science and technology programs. Depending on the nature of the program, reviewers will consider the following:

Science: The program's track record of success in making scientific discoveries of technological importance to DOE missions and U.S. industry and the degree of industrial interest in follow-on development of current research results.

Technology: The value of successfully developing pre-commercial technology, to DOE, other federal agencies, and the national economy; the extent to which expected benefits justify the program's risks and costs; and, where appropriate, the degree of industrial interest, participation, and support.

The SC program office's will also consider, as appropriate, the following key performance indicators developed for their program(s) and/or project(s) and shall include the Contractor's performance against the indicator(s) within their evaluations. The PNSO shall work closely with each HQ SC program office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

Modification M412

 Establish DOE-BER prototypical pilot production line for high-throughput whole proteome analysis.

<u>Description</u>: A pilot high-throughput production facility for protein and metabolite analysis will be established for the DOE SC Office of Biological and Environmental Research (BER). The pilot is an expansion of the current technical capabilities for protein analysis and metabolite analysis. A fully operational pilot facility will consist of multiple production lines will established to run numerous biological samples daily in a continuous operation environment. This pilot facility will be the next step in the overall goal to deliver and operate the DOE Genomics: GTL Whole Proteome Analysis Facility.

<u>Assumptions</u>: Adequate funding is available in a timely manner from DOE BER and other appropriate sources for the establishment of the pilot production facility.

<u>Measure</u>: Establishment of a fully operational Pilot Production Facility scheduled for completion in approximately two years. Accomplishment of this goal will be measured by the successful submission of purchase orders for production line equipment for the first phase of the pilot facility by September 30, 2004.

b. Produce New ARM Science Plan

<u>Description</u>: Draft, coordinate, and finalize a new Five Year ARM Science Plan. The Science Plan will be a consensus document based on input and review by the ARM Science Team Executive Committee that describes future direction of research for the ARM science program, thus providing a context for research proposals and infrastructure development.

<u>Measure</u>: Accomplishment of this goal will be measured by successful completion and acceptance by the DOE Office of Biological and Environmental Research-Environmental Sciences Division of a new Five Year ARM Science Plan. This will be accomplished no later than May 30, 2004 and presented at the ARM Science Team meeting

c. Optimize codes for the most effective use of the HP 11.4 TFLOP machine, enabling new approaches to electronic structure calculations.

<u>Description</u>: This resource and the scientific software which enables the scientific discoveries are critical to the success of computational science in the Laboratory and DOE BER. In particular, the computational chemistry code, NWChem, is used extensively on this machine and improvements in performance directly impact the amount of science that can be undertaken.

Measure: A test will be run to determine the current performance of CPU, disk, and communication usage algorithms in the NWChem suite. Accomplishment of this goal shall be measured by tuning the software for better performance to accomplish a minimum of a 5% increase in the performance of the test algorithms. Performance shall be measured by total wall clock time used by a standard test.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the SC program offices. SC will be asked to provide both an adjectival rating and rating value points as outlined within Table 2.2. Should SC only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

Modification M412

## 2.2 The Office of Defense Nuclear Nonproliferation (DNN) evaluation of relevance to DOE missions and national needs.

The weight of this Objective is 20%.

This objective shall measure the overall effectiveness/performance in relevance to DOE missions and national needs as viewed by DNN.

<u>Measures</u>: The DNN program office's providing evaluations will consider whether the research fits within and advances the missions of DOE; contributions to U.S. leadership in international scientific and technical communities; contributions to the goals and objectives of the strategic plans of DOE and other national programs; and the extent of productive interaction with other science and technology programs. Depending on the nature of the program, reviewers will consider the following:

Science: The program's track record of success in making scientific discoveries of technological importance to DOE missions and U.S. industry and the degree of industrial interest in follow-on development of current research results.

Technology: The value of successfully developing pre-commercial technology, to DOE, other federal agencies, and the national economy; the extent to which expected benefits justify the program's risks and costs; and, where appropriate, the degree of industrial interest, participation, and support.

The DNN program office's will also consider, as appropriate, the following key performance indicators developed for their program(s) and/or project(s) and shall include the Contractor's performance against the indicator(s) within their evaluations. The PNSO shall work closely with each HQ DNN program office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

a. Assess the utility of FM DIAL for proliferations monitoring

<u>Description</u>: The assessment of FM DIAL will be based upon information generated by field experiments and modeling calculations targeted at determining the instrument's detection sensitivity and response under a range of operating (environmental) conditions. Knowledge of the detection sensitivity will determine the concentration levels of proliferation signature chemicals that can be detected by FM DIAL.

#### <u>Definitions</u>:

• FM DIAL: This is an acronym for frequency modulated differential absorption light detection and ranging. It is an instrument for chemical detection based on light detection and ranging.

#### Assumptions:

- The measures outlined in this indicator are in support of the DOE (Non-NNSA) Lab Performance Measures and Objectives provided by the Office of Defense Nuclear Nonproliferation (NA-20). It is recognized that NA-20 is currently developing a new set of Performance Measures and Objectives in response to the Office of Management and Budget, Program Assessment Rating Tool (PART). It is anticipated that new NA-20 Performance Measures could require changes in this indicator in order to be in line with client expectations. NNSA priorities will be reviewed quarterly to determine if the identified technologies in these measures are still viable candidates for completion in FY 2004.
- The required level of funding is available to projects for these activities.

<u>Measures</u>: The following metric measures the Contractor's success in supporting NA-20 measures where the Contractor plays a primary role. The measure is to be completed in the fourth

Modification M412

quarter of FY 2004, and a report will be provided to the PNSO and NA-20 when the measure is completed.

The Contractor will assess the utility of FM DIAL for proliferations monitoring. The assessment will be based upon information generated by field experiments and modeling calculations targeted at determining the instrument's detection sensitivity and response under a range of operating (environmental) conditions. Knowledge of the detection sensitivity will determine the concentration levels of proliferation signature chemicals that can be detected by FM DIAL. Supports NA-20 measure - Develop laboratory methods, in-field and remote detection technologies in support of strategic arms control policies and national security applications.

b. Field test an advanced prototype for detection of HEU

<u>Description</u>: The project will determine sensitivity and operational issues of large inorganic scintillator (NaI) arrays, deployed as portal monitors to detect HEU.

#### Definitions:

• HEU: Highly Enriched Uranium.

#### **Assumptions**:

- The measure outlined in this indicator is in support of the DOE (Non-NNSA) Lab Performance Measures and Objectives provided by the Office of Defense Nuclear Nonproliferation (NA-20). It is recognized that NA-20 is currently developing a new set of Performance Measures and Objectives in response to the Office of Management and Budget, Program Assessment Rating Tool (PART). It is anticipated that new NA-20 Performance Measures could require changes in this indicator in order to be in line with client expectations. NNSA priorities will be reviewed quarterly to determine if the identified technology in this measure is still a viable candidate for completion in FY 2004.
- The required level of funding is available to projects for these activities.
- An appropriate test site is available for completion of the field test.

<u>Measure</u>: The following metric measures the Contractor's success in supporting proposed NA-20 measures where the Contractor plays a primary role. The measure is to be completed in the fourth quarter of FY 2004, and a report will be provided to the PNSO and NA-20 when the measure is completed.

The Contractor will field test an advanced prototype for detection of HEU. The project will determine sensitivity and operational issues of large inorganic scintillator (NaI) arrays, deployed as portal monitors to detect HEU. Supports NA-20 measure - Pursue concepts to detect at long-range special nuclear materials and to detect with confidence HEU at greater distances than current capabilities

c. Deliver the next generation seismic identification mathematics and decision framework

<u>Description</u>: The decision framework and associated mathematics is designed to integrate regional and teleseismic signatures and will serve as the future identification reporting mechanism for nuclear weapon test monitoring.

**Definitions**: None

#### Assumptions:

• The measure outlined in this indicator is in support of the DOE (Non-NNSA) Lab Performance Measures and Objectives provided by the Office of Defense Nuclear Nonproliferation (NA-20). It is recognized that NA-20 is currently developing a new set of Performance Measures and Objectives in response to the Office of Management and Budget, Program Assessment Rating Tool (PART). It is anticipated that new NA-20 Performance Measures could require changes in this indicator in order to be in line with client expectations.

Modification M412

NNSA priorities will be reviewed quarterly to determine if the identified technology in this measure is still a viable candidate for completion in FY 2004.

The required level of funding is available to projects for these activities.

<u>Measure</u>: The following metric measures the Contractor's success in supporting proposed NA-20 measures where the Contractor plays a primary role. The measure is to be completed in the fourth quarter of FY 2004, and a report will be provided to the PNSO and NA-20 when the measure is completed.

The Contractor will deliver the next generation seismic identification mathematics and decision framework to the U.S. Government user community. The framework and mathematics are currently under review, in quarterly installments, by a national panel of experts. The decision framework and associated mathematics is designed to integrate regional and teleseismic signatures and will serve as the future identification reporting mechanism for nuclear weapon test monitoring. Supports NA-20 measure - Provide collaborative statistical support to other DOE National Laboratories conducting research and development for the Nuclear Explosion Monitoring program - areas of research include discrimination algorithms to support geographical regional models and overall statistical assessments to increase confidence in monitoring systems.

d. Add seventy new chemicals to the IR Spectral Library and distribute them to the user community.

<u>Description</u>: Add seventy new chemicals to the IR Spectral Library and distribute them to NNSA and other federal government remote sensing programs.

#### Definitions:

 Infrared Spectral Library: The Infrared Spectral Library is the definitive national database for infrared spectra. This library provides the essential data for using infrared to measure chemicals in the environment.

#### Assumptions:

- The measure outlined in this indicator is in support of the DOE (Non-NNSA) Lab Performance Measures and Objectives provided by the Office of Defense Nuclear Nonproliferation (NA-20). It is recognized that NA-20 is currently developing a new set of Performance Measures and Objectives in response to the Office of Management and Budget, Program Assessment Rating Tool (PART). It is anticipated that new NA-20 Performance Measures could require changes in this indicator in order to be in line with client expectations. NNSA priorities will be reviewed quarterly to determine if the identified technology in this measure is still a viable candidate for completion in FY 2004.
- The required level of funding is available to projects for these activities.

<u>Measure</u>: The following metric measures the Contractor's success in supporting proposed NA-20 measures where the Contractor plays a primary role. The measure is to be completed in the fourth quarter of FY 2004, and a report will be provided to the PNSO and NA-20 when the measure is completed.

The Contractor will add seventy new chemicals to the IR Spectral Library and distribute them to the user community. Supports NA-20 measure - Continue development of a library of infrared absorption spectra, to be made available to NNSA and other federal government remote sensing programs.

e. Transfer security, accountability, and monitoring technology for control of radioactive materials to other countries under the Material Protection, Control, and Accounting (MPC&A) Program

<u>Description</u>: This goal is performed for NA-25 and is part of the program to minimize risk of Radiological Dispersion Devices (RDDs).

Modification M412

<u>Definitions</u>: The intent of the term "transfer security, accountability and monitoring technology" means that an initial site assessment and vulnerability analysis will be conducted and physical security upgrades contract(s) will be awarded in FY 2004.

#### Assumptions:

- Country-to-country agreements for each country are secured by March 31, 2004.
- Access agreements to radiological sites of interest are obtained by March 31, 2004.
- Funding and staff are available as outlined in approved project plan.

Measure: On or before September 30, 2004, transfer security, accountability and monitoring technology to four new countries (recipient countries are listed in the project work plans). Measured by completion of initial site assessment, vulnerability analysis and award of the initial physical security upgrades contract(s) that address the scope identified in the assessment and analysis documentation. Technology transfer is considered complete for a country when the initial site assessment and vulnerability analysis are completed, and the initial implementation contract(s) is signed.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the DNN program offices. DNN will be asked to provide both an adjectival rating and rating value points as outlined within Table 2.2. Should DNN only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

## 2.3 The Office of Energy Efficiency and Renewable Energy (EERE) evaluation of relevance to DOE missions and national needs.

The weight of this Objective is 10%.

This objective shall measure the overall effectiveness/performance in relevance to DOE missions and national needs as viewed by EERE.

Measures: The EERE program office's providing evaluations will consider whether the research fits within and advances the missions of DOE; contributions to U.S. leadership in international scientific and technical communities; contributions to the goals and objectives of the strategic plans of DOE and other national programs; and the extent of productive interaction with other science and technology programs. Depending on the nature of the program, reviewers will consider the following:

Science: The program's track record of success in making scientific discoveries of technological importance to DOE missions and U.S. industry and the degree of industrial interest in follow-on development of current research results.

Technology: The value of successfully developing pre-commercial technology, to DOE, other federal agencies, and the national economy; the extent to which expected benefits justify the program's risks and costs; and, where appropriate, the degree of industrial interest, participation, and support.

The EERE program office's will also consider, as appropriate, the following key performance indicators developed for their program(s) and/or project(s) and shall include the Contractor's performance against the indicator(s) within their evaluations. The PNSO shall work closely with each HQ EERE program office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

a. Provide innovative technology solutions to the Hydrogen, Fuel Cell, and Infrastructure Program (HFCIP)

<u>Description</u>: This indicator will measure the contractor's commitment and support of the mission and goals of the HFCIP.

#### Assumptions:

- Appropriate funds are provided in FY 2004 Congressional Appropriations.
- The agenda for the DOE annual project review meeting includes presentations from the Laboratory modeling tools for Auxiliary Power Units (APUs).

<u>Measures</u>: Accomplishment of this goal will be measured by the successful completion of all of the following measures:

- Establish a national safety panel as defined in the DOE HFCI Technologies Program Multi-Year Research Plan and conduct the first meeting of the panel on or before June 30, 2004.
- Develop innovative modeling tools for auxiliary power unit integration with trucks electrical
  to be presented at the DOE annual project review meeting on or before
  May 30, 2004
- b. Provide innovative technology solutions to the FreedomCar and Vehicle Technologies Program

<u>Description</u>: The Contractor is developing advanced transportation technology solutions supporting the goals of the FreedomCAR and Vehicle Technologies Program. This goal will measure the Contractor's ability to provide innovative solutions to support this DOE program.

#### Assumptions:

- Funding from the FY 2004 Congressional Appropriations is available for the activities identified below.
- DOE National Laboratory Advance Combustion Engine R&D Merit Review and Peer Evaluation meeting agenda allows for the Laboratory emission project presentations.

<u>Measures</u>: Accomplishment of this goal will be measured by the successful completion of the following measure:

- 1. Develop and present the research innovations and results from two Laboratory emissions R&D projects at the DOE National Laboratory Advance Combustion Engine R&D Merit Review and Peer Evaluation meeting on or before July 31, 2004.
- c. Microtechnology science and technology contributions will be used by other researchers, agencies, or for commercial deployment by industry

<u>Description</u>: Performance against this goal will be measured by a percentage increase in the number of Other Federal Agency or industrial funded or co-funded microtechnology development partners over the FY 2003 baseline.

FY 2003 baseline data (as of September 26, 2003) indicates the following number of funding organizations:

DOE (2): DOE-EE - Transportation

DOE-EE - Industrial Conservation

Other Federal Agencies (3): Defense Advanced Research Projects Agency (DARPA)

Army Communications Electronics Command Army Intelligence and Security Command

Industrial Partners (1): Velocys

Modification M412

Universities (2): Oregon State University
Case Western University

<u>Definitions:</u> Partners are not the same as projects. A partner is a governmental or private entity that either funds or collaborates in the research, development, or commercialization of microtechnology.

<u>Measure</u>: Accomplishment of this indicator will be measured by an increase of a minimum of 2 in the number of funding partners.

d. Partner with other agencies or industry to demonstrate and deploy process technology for transforming biomass into chemicals and products and to develop, demonstrate, and deploy the resulting technology.

<u>Description</u>: This goal measures the Contractor's ability to 1) move discoveries in biomass process technology from laboratory research to scale-up development and demonstration or deployment at an industrial site; and 2) partner with industry to further the development and deployment of science and technology solutions for transforming biomass into chemical and products.

<u>Measure</u>: Advance at least one biomass process technology from laboratory research to scale-up development and/or demonstration at an industrial site. Accomplishment will be measured by successful completion of evaluation and scale-up experiments of a biomass-based process technology.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the EERE program offices. EERE will be asked to provide both an adjectival rating and rating value points as outlined within Table 2.2. Should EERE only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

#### 2.4 The Office of Fossil Energy (FE) evaluation of relevance to DOE missions and national needs.

The weight of this Objective is 8%.

This objective shall measure the overall effectiveness/performance in relevance to DOE missions and national needs as viewed by FE.

Measures: The FE program office's providing evaluations will consider whether the research fits within and advances the missions of DOE; contributions to U.S. leadership in international scientific and technical communities; contributions to the goals and objectives of the strategic plans of DOE and other national programs; and the extent of productive interaction with other science and technology programs. Depending on the nature of the program, reviewers will consider the following:

Science: The program's track record of success in making scientific discoveries of technological importance to DOE missions and U.S. industry and the degree of industrial interest in follow-on development of current research results.

Technology: The value of successfully developing pre-commercial technology, to DOE, other federal agencies, and the national economy; the extent to which expected benefits justify the program's risks and costs; and, where appropriate, the degree of industrial interest, participation, and support.

The FE program office's will also consider, as appropriate, the following key performance indicators developed for their program(s) and/or project(s) and shall include the Contractor's performance against

Modification M412

the indicator(s) within their evaluations. The PNSO shall work closely with each HQ FE program office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

a. Expand the SECA program to incorporate FutureGen advanced power plant requirements.

<u>Descriptions</u>: As a leader in solid oxide fuel cell technologies, the Contractor is providing problem-solving research to optimize fuel cell systems and address the technical and economical challenges to commercialize these systems for stationary and transportation applications through the Solid-state Energy Conversion Alliance (SECA) program. This goal will measure the Contractor's ability to expand the SECA program to develop the modular solid oxide fuel cell technology to be incorporated in the FutureGen plant.

<u>Assumptions</u>: The required level of funding is available for these activities in the FY 2004 Congressional Appropriations.

<u>Measures</u>: Accomplishment of this goal will be measured by the successful completion of both of the following measures:

- 1. Complete a second feasibility demonstration on a SECA solid oxide fuel cell operating on gasified coal on or before September 30, 2004.
- 2: Complete the modeling of an expanded module size SOFC and the performance of clustered cells in support of the clustering SECA solid oxide fuel cells for the development of large size fuel cell distribution energy units. The results of this modeling effort are reported at the SECA Core Technology Program meeting in the summer of 2004.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the FE program offices. FE will be asked to provide both an adjectival rating and rating value points as outlined within Table 2.2. Should FE only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

## 2.5 The Department of Homeland Security (DHS) evaluation of relevance to DOE missions and national needs.

The weight of this Objective is 10%.

This objective shall measure the overall effectiveness/performance in relevance to DOE missions and national needs as viewed by DHS.

<u>Measures</u>: The DHS program office's providing evaluations will consider whether the research fits within and advances the missions of DOE; contributions to U.S. leadership in international scientific and technical communities; contributions to the goals and objectives of the strategic plans of DOE and other national programs; and the extent of productive interaction with other science and technology programs. Depending on the nature of the program, reviewers will consider the following:

Science: The program's track record of success in making scientific discoveries of technological importance to DOE missions and U.S. industry and the degree of industrial interest in follow-on development of current research results.

Technology: The value of successfully developing pre-commercial technology, to DOE, other federal agencies, and the national economy; the extent to which expected benefits justify the program's risks and costs; and, where appropriate, the degree of industrial interest, participation, and support.

The DHS program office's will also consider, as appropriate, the following key performance indicators developed for their program(s) and/or project(s) and shall include the Contractor's performance against

Modification M412

the indicator(s) within their evaluations. The PNSO shall work closely with each HQ DHS program office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

a. Support development of the Execution Plan for the FY 2004 Radiological/Nuclear Countermeasures Portfolio for the DHS Office of Research and Development.

<u>Description</u>: This goal measures the Contractor's support in the development of the Execution Plan for the FY 2004 Radiological/Nuclear Countermeasures Portfolio for the DHS Office of Research and Development (ORD).

<u>Assumptions</u>: On or before December 31, 2003 the DHS identifies a substantial role for the Laboratory in the development of the Execution Plan for the FY 2004 Radiological/Nuclear Countermeasures Portfolio.

<u>Measure</u>: The Contractor's performance will be measured based on the development of the Execution Plan for the FY 2004 Radiological/Nuclear Countermeasures Portfolio by September 30, 2004 as set forth by the DHS Office of Research and Development.

Success in meeting the measure identified above will be evaluated and verified by the DHS Office of Research and Development and validated through PNSO coordination with ORD.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the DHS program offices. DHS will be asked to provide both an adjectival rating and rating value points as outlined within Table 2.2. Should DHS only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

## 2.6 The Office of Environmental Management (EM) evaluation of relevance to DOE missions and national needs.

The weight of this Objective is 10%.

This objective shall measure the overall effectiveness/performance in relevance to DOE missions and national needs as viewed by EM.

<u>Measures</u>: The EM program office's providing evaluations will consider whether the research fits within and advances the missions of DOE; contributions to U.S. leadership in international scientific and technical communities; contributions to the goals and objectives of the strategic plans of DOE and other national programs; and the extent of productive interaction with other science and technology programs. Depending on the nature of the program, reviewers will consider the following:

Science: The program's track record of success in making scientific discoveries of technological importance to DOE missions and U.S. industry and the degree of industrial interest in follow-on development of current research results.

Technology: The value of successfully developing pre-commercial technology, to DOE, other federal agencies, and the national economy; the extent to which expected benefits justify the program's risks and costs; and, where appropriate, the degree of industrial interest, participation, and support.

The EM program office's will also consider, as appropriate, the following key performance indicators developed for their program(s) and/or project(s) and shall include the Contractor's performance against the indicator(s) within their evaluations. The PNSO shall work closely with each HQ EM program

Modification M412

office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

a. Provide S&T to accelerate the cleanup of Hanford's contaminated soils and groundwater.

<u>Description</u>: This goal measures the Contractor's key contributions to the scientific and technical basis for Hanford site cleanup decisions and actions related to the Closure and Remediation Science and Technology Project. The Contractor's Groundwater Protection Project related science and technology efforts provide DOE RL the scientific and technical information and tools to make sound decisions about protecting and remediating Hanford Site groundwater and the Columbia River.

#### Definitions:

• The Hanford Groundwater Composite Analysis is a required five-year examination of all radiation sources and all radiation pathways.

<u>Assumptions</u>: Performance against this goal assumes adequate funding and scope of work from DOE Richland Operations Office (RL) and the Office of River Protection (ORP) as constrained by the Groundwater Protection Program FY 2004 Scope of Work.

<u>Measure</u>: Complete and document the conceptual model for the 300 Area uranium groundwater plume for the 300-FF5 record of decision supporting the CERCLA 5-year review.

b. Provide site-wide assessment to support Hanford site decision and actions.

<u>Description</u>: This goal measures the Contractor's key contributions to the scientific and technical basis for cleanup decisions and actions related to the Hanford Groundwater Performance Assessment Program. The Contractor's Groundwater Protection Hanford Site-wide Assessment Project uses related science and technology and groundwater performance assessment projects outputs to provide DOE RL the sound scientific risk assessment tools and products to make informed decisions about protecting and remediating Hanford Site groundwater and the Columbia River.

#### Definitions:

- The Hanford Groundwater Composite Analysis is a Doe Order 435.1-required five-year examination of all radiation sources and all radiation pathways.
- The Hanford Groundwater Performance Assessment is the former Hanford Groundwater Monitoring Project. This work assesses the impacts of site cleanup activities on the groundwater, and provides the basis for Hanford Risk Assessments.
- The Hanford Site-wide Performance Assessment Project incorporates the system assessment capability development and implementation efforts.

<u>Assumptions</u>: Performance against this goal assumes adequate funding and scope of work from DOE Richland Operations Office (RL) and the Office of River Protection (ORP) as constrained by the Groundwater Protection Program FY 2004 Scope of Work.

<u>Measure</u>: Completion of all simulations supporting the 2005 Composite Analysis of Hanford waste disposal sites.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the EM program offices providing evaluations. EM program office's providing evaluations will be asked to provide both an adjectival rating and rating value points as outlined within Table 2.2. Should EM program office's providing evaluations only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

Modification M412

#### 2.7 The Office of Intelligence (IN) evaluation of relevance to DOE missions and national needs.

The weight of this Objective is 5%.

This objective shall measure the overall effectiveness/performance in relevance to DOE missions and national needs as viewed by IN.

<u>Measures</u>: The IN program office's providing evaluations will consider whether the research fits within and advances the missions of DOE; contributions to U.S. leadership in international scientific and technical communities; contributions to the goals and objectives of the strategic plans of DOE and other national programs; and the extent of productive interaction with other science and technology programs. Depending on the nature of the program, reviewers will consider the following:

Science: The program's track record of success in making scientific discoveries of technological importance to DOE missions and U.S. industry and the degree of industrial interest in follow-on development of current research results.

Technology: The value of successfully developing pre-commercial technology, to DOE, other federal agencies, and the national economy; the extent to which expected benefits justify the program's risks and costs; and, where appropriate, the degree of industrial interest, participation, and support.

The PNSO shall work closely with each HQ IN program office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the IN program offices. IN will be asked to provide both an adjectival rating and rating value points as outlined within Table 2.2. Should IN only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

## 2.8 The Office of Counterintelligence (CN) evaluation of relevance to DOE missions and national needs.

The weight of this Objective is 5%.

This objective shall measure the overall effectiveness/performance in relevance to DOE missions and national needs as viewed by CN.

<u>Measures</u>: The CN program office's providing evaluations will consider whether the research fits within and advances the missions of DOE; contributions to U.S. leadership in international scientific and technical communities; contributions to the goals and objectives of the strategic plans of DOE and other national programs; and the extent of productive interaction with other science and technology programs. Depending on the nature of the program, reviewers will consider the following:

Science: The program's track record of success in making scientific discoveries of technological importance to DOE missions and U.S. industry and the degree of industrial interest in follow-on development of current research results.

Technology: The value of successfully developing pre-commercial technology, to DOE, other federal agencies, and the national economy; the extent to which expected benefits justify the program's risks and costs; and, where appropriate, the degree of industrial interest, participation, and support.

Modification M412

The PNSO shall work closely with each HQ CN program office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the CN program offices. CN will be asked to provide both an adjectival rating and rating value points as outlined within Table 2.2. Should CN only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

# 2.9 The Office of Electric Transmission and Distribution (OETD) evaluation of relevance to DOE missions and national needs.

The weight of this Objective is 2%.

This objective shall measure the overall effectiveness/performance in relevance to DOE missions and national needs as viewed by OETD.

<u>Measures</u>: The OETD program office's providing evaluations will consider whether the research fits within and advances the missions of DOE; contributions to U.S. leadership in international scientific and technical communities; contributions to the goals and objectives of the strategic plans of DOE and other national programs; and the extent of productive interaction with other science and technology programs. Depending on the nature of the program, reviewers will consider the following:

Science: The program's track record of success in making scientific discoveries of technological importance to DOE missions and U.S. industry and the degree of industrial interest in follow-on development of current research results.

Technology: The value of successfully developing pre-commercial technology, to DOE, other federal agencies, and the national economy; the extent to which expected benefits justify the program's risks and costs; and, where appropriate, the degree of industrial interest, participation, and support.

The OETD program office's will also consider, as appropriate, the following key performance indicators developed for their program(s) and/or project(s) and shall include the Contractor's performance against the indicator(s) within their evaluations. The PNSO shall work closely with each HQ OETD program office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

a. Provide technical knowledge and leadership to DOE Office of Electric Transmission and Distribution (OETD) to increase the security, reliability and efficiency of the energy infrastructure.

<u>Description</u>: This goal measures the Contractor's ability to provide technical expertise and leadership to the OETD in support of their mission to solve engineering and economic issues related to the nation's transmission and distribution system. By applying computational science, statistical mechanics, power engineering, and modeling and simulation capabilities, the contractor will build an understanding of the complex, adaptive nature of the nation's energy network that supports a transformation in the planning and operation of the power grid. The Contractor will also build industry relationships in support of the OETD goals.

#### Assumptions:

- OETD announcement is made in a timely fashion after decision to launch based on DOE legal counsel approving the MOU.
- Energy Systems Transformation Initiative (ESTI) funding for the Laboratory is maintained for FY 2004.

 Appropriate funding is provided by FY 2004 Congressional Appropriations for GridWise simulation.

<u>Measures</u>: Accomplishment of this goal will be measured by the successful completion of all of the following measures:

- 1. Establish an industry-led architecture board for GridWise communications and controls. Conduct the first meeting of this board on or before July 31, 2004. The board will consist of a minimum of 6 seats and a maximum of 12 seats. The board is constructed on the basis of balance of representation established by the DOE OETD in cooperation with key stakeholders in the GridWise vision.
- 2. Begin development of a simulation of GridWise operations for transmission and distribution systems, integrating the engineering and economic transactions of the future power grid, suitable for quantifying benefits, analyzing regulatory scenarios, and designing the characteristics of new technologies on or before September 30, 2004.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the OETD program offices. OETD will be asked to provide both an adjectival rating and rating value points as outlined within Table 2.2. Should OETD only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

ELEMENT	Adjectival Rating	Value Points	Objective Weight	Total Points	Total Points
2.0 Relevance to DOE Mission and National Needs					
2.1 The Office of Science (SC)					
evaluation of relevance to DOE			30%		
missions and national needs.			3070		
2.2 The Office of Defense Nuclear					
Nonproliferation (DNN) evaluation of			• • • • • • • • • • • • • • • • • • • •		
relevance to DOE missions and			20%		
national needs.					
2.3 The Office of Energy Efficiency					
and Renewable Energy (EERE)			10%		
evaluation of relevance to DOE			10%		
missions and national needs.					
2.4 The Office of Fossil Energy (FE)					
evaluation of relevance to DOE			8%		
missions and national needs.					
2.5 The Department of Homeland					
Security (DHS) evaluation of relevance			10%		
to DOE missions and national needs.					
2.6 The Office of Environmental					
Management (EM) evaluation of			10%		
relevance to DOE missions and			1070		
national needs.					
2.7 The Office of Intelligence (IN)					
evaluation of relevance to DOE			5%		
missions and national needs.					
2.8 The Office of Counterintelligence			50/		
(CN) evaluation of relevance to DOE			5%		
missions and national needs.					
2.9 The Office of Electric					
Transmission and Distribution (OETD) evaluation of relevance to DOE			2%		
missions and national needs.					
missions and national needs.		Cwiti	cal Outcome	2 0 Takal	

Table 2.1 - Relevance to DOE Missions and National Needs Critical Outcome Performance Rating Development

Total Score	4.0 - 3.5	3.4 - 2.5	2.4 - 1.5	1.4 - 0.5	<0.5
Final Rating	Outstanding	Excellent	Good	Marginal	Unsatisfactory

Table 2.2 - Relevance to DOE Mission and National Needs Critical Outcome Final Rating

Modification M412

# 3.0 SUCCESS IN CONSTRUCTING AND OPERATING RESEARCH FACILITIES & EQUIPMENT (20%)

Battelle provides strategic planning for Laboratory facilities and equipment that support current and future science and technology missions, provides effective and efficient access to user facilities, and ensures effective, efficient, safe, and secure operations.

The weight of this outcome is 20%.

The Success in Constructing and Operating Research Facilities & Equipment Critical Outcome shall measure the overall effectiveness and performance of the Contractor's programs to attract, develop and retain critical staff necessary to achieve excellence in science and technology, and the creation of leading-edge facilities and equipment ensure the required capabilities are present to meet today's and tomorrow's complex challenges. It also measures the Contractor's innovative operational and programmatic means for external scientists to add substantial value to their research by their utilization of EMSL and other research facilities and their implementation of seamless management systems that protect Laboratory staff and DOE assets, while ensuring R&D resources are available for use to the maximum extent possible. Performance objectives and indicators to be utilized in the evaluation of the Success in Constructing and Operating Research Facilities & Equipment critical outcome have been developed by the PNSO in partnership with the Contractor and appropriate DOE HQ organizations and are listed below. These performance objectives and indicators identify significant activities/requirements important to the success of the Laboratory's research facility systems as identified by the Department and/or its customers.

Each of the performance indicators has an associated metric that translates the level of performance to an adjectival rating. Scoring of the individual performance indicators is based on the point scheme identified within section I. The overall adjectival rating is then computed by multiplying the weight of each performance indicator and summing them all to develop an overall score for each objective. The score for each objective within the outcome is then computed in the same manner to arrive at an overall score for the outcome (see Table 3.1 at the end of this section). The overall value points earned are then compared to Table 3.2 to determine the overall adjectival rating.

#### Objectives and Performance Indicators:

#### 3.1 Ensure capabilities are available to support current and future Laboratory programs

The weight of this objective is 25%.

3.1.1 Provide facility infrastructure to support current and future Laboratory programs through the continued transition out of 300 area facilities and obtain support for the acquisition of new facilities

The weight of this indicator is 80%.

<u>Description</u>: This indicator shall be measured based on the following facility infrastructure milestones and corresponding measures.

#### Milestones

1. 3720 Building placed in a least cost surveillance and maintenance mode (cheap to keep) by December 31, 2003.

#### Assumptions:

- DOE-EM supports the excess of contaminated equipment "in-place".
- 2. Terminate/transfer existing operations and transfer staff/programs out of 306W providing for the safe shutdown of the facility. Place 306W in a least cost surveillance and maintenance mode (cheap to keep) by September 30, 2004.

Modification M412

#### Assumptions:

• Sufficient funding and authorization to start pre-deactivation work is provided by May 1, 2004.

- DOE-EM supports the excess of contaminated equipment "in-place".
- 3. Vacate staff from 337 Building by September 30, 2004.

#### Assumptions:

- Lease terms and conditions will be deemed reasonable by DOE
- PNNL will be successful in assuming, at no cost, the ownership of existing DOE furniture.
- 4. PNSO's concurrence on a concise document which describes for SC-82 SLI program office the mission justification and facility acquisition approach for creating the PNNL Research Campus of the Future by January 15, 2004. Concurrence is defined as PNSO's willingness to transmit the document to the SLI program office. The document will be less than 10 pages, will contain a brief description of the facility acquisition approach and generalized research content, and a high level overview of mission justification.

#### Assumptions:

- The PNSO shall continue to endorse the multi-program nature of the Laboratory and will advocate for infrastructure that addresses mission needs associated with multiple client and agency sponsors.
- The length will be kept to a minimum.
- 5. Achieve the placement of PNNL's Multi-program Science Building, Phase I project in the SLI Program FY 2006 Line Item budget submittal. Success is defined as DOE granting CD-0.

#### Assumptions:

- The PNSO shall continue to endorse the multi-program nature of the Laboratory and will advocate for infrastructure that addresses mission needs associated with multiple client and agency sponsors.
- 6. Obtain non-DOE SC commitments which lead to FY 2006 or sooner funding of equipment, utility infrastructure or a building by September 24, 2004. Funding could be funds in hand, a marker in out year budget, a letter of intent for future funding, a budgetary request, or other documents of intent.

#### Assumptions:

- Non-DOE SC sponsors could include DHS, NNSA, Washington State, or the private sector.
- This milestone is not satisfied by the Bioproducts Science and Engineering Laboratory.
- 7. Establish a PNNL site separate from Hanford. The process for delivering this milestone will be; define land boundary for PNNL site by July 30th; and create and begin execution of a project plan that will establish a separate and distinct PNNL site with its own regulatory strategy by September 30th.

#### **Assumptions:**

- That the operational value of site designation and land transfer out weighs risk assumed by SC through ownership.
- The final desired end state is likely a multi-year permitting process.

8. Obtain City of Richland agreement to be utility service provider to DOE site required for PNNL's Future Research Campus by September 30, 2004.

#### Assumptions:

- This is not the utility infrastructure.
- 9. Complete NEPA determination for site of new construction by September 24, 2004.
- 10. Gain support from DOE for the restructuring approach of existing (Sigma) leases by April 1, 2004.

#### Assumptions:

- Support could be memo, meeting minutes or other documented evidence.
- 11. Secure DOE agreement on an approach to fulfill the space banking requirements for PNNL new construction by March 12, 2004.

#### Assumptions:

- One successful approach could be a waiver of this requirement.
- PNSO will actively participate in determining the steps required to research resolution.
- 12. Work with Washington State University to ensure that the Bioproducts Science and Engineering Laboratory continues progress towards construction. This will be defined by the initiation of design activities.

#### Performance Evaluation:

Outstanding: 9 out of 12 milestones completed Excellent: 7 out of 12 milestones completed Good: 5 out of 12 milestones completed Marginal: 3 out of 12 milestones completed Unsatisfactory: 2 out of 12 milestones completed

Value points will be pro-rated within the ranges identified above.

3.1.2 Increase the total consideration to the Laboratory from the deployment of intellectual assets.

The weight of this indicator is 20%.

<u>Description</u>: One of the primary objectives of the commercialization program is the generation of financial returns to the Laboratory for reinvestment in facilities, equipment, people and technology. In addition, intellectual property (IP) is leveraged to provide "non-cash" returns from licensing and the total business volume generated from new R&D projects. Increasing the amount of "total consideration" returns to the Laboratory from DOE-derived IP is the basis for this performance indicator.

#### Definitions:

- Total consideration: Returns that include the total of license revenue and non-cash returns from licensing of DOE-derived IP, as well as new R&D projects where IP is optioned, licensed or otherwise used.
- Total revenue generated: The Laboratory's DOE-derived licensing revenue received during the fiscal reporting period without any deduction for internal or external revenue sharing or expenses. This metric excludes any revenue received at the Laboratory on behalf of others.

Modification M412

 Non-cash returns: The total business volume generated from R&D in which DOE-derived intellectual property was materially involved, and non-cash assets (e.g. equipment) generated from licenses.

<u>Measure</u>: This indicator will be measured by the amount of total consideration returns as defined above.

#### Performance Evaluation:

 $\begin{array}{lll} \mbox{Outstanding:} & \mbox{Total consideration returns of $11.0 - $\geq$12.0M} \\ \mbox{Excellent:} & \mbox{Total consideration returns of $10.0 - 10.9M} \\ \mbox{Good:} & \mbox{Total consideration returns of $8.0 - 9.9M} \\ \mbox{Marginal:} & \mbox{Total consideration returns of $4.0 - 7.9M} \\ \mbox{Unsatisfactory:} & \mbox{Total consideration returns of $\leq$ 3.9M} \\ \end{array}$ 

Value points will be pro-rated within the ranges identified above.

# 3.2 Manage all facilities to maximize research value and assure safe, secure, and environmentally sound operations

The weight of this objective is 35%.

3.2.1 Provide ESH&Q management systems that sustain and enhance excellence in Laboratory operations

The weight of this indicator is 25%.

<u>Description</u>: This indicator is a composite of performance measures designed to provide an overall picture of ESH&Q performance and comprise the safety performance objectives, performance measures, and commitments called for in DEAR 970.5223-1 Integration of Environment, Safety, and Health into Work Planning and Execution (DEC 2000).

Additional descriptions of the measures and targets are provided below the following table.

Performance Measures	Tangots
	Targets
1) Demonstrate excellence in the Safety and Health	Based on the Office of Science challenge
program – Total Recordable Case Rate	target the goal is $\leq 1.41$ cases per 200,000
	work hours
2) Demonstrate excellence in the Safety and Health	Based on the Office of Science challenge
program - Days away, restricted and or transferred	target the goal is $\leq 0.65$ cases per 200,000
(DART) case rate	work hours
3) Annual Safety and Health evaluation. Deliver an	Overall numerical rating of 9-12 - (Based
annual self assessment that evaluates the following	on a scale of 1-12)
performance criteria: management leadership; employee	
involvement; hazard prevention and control; worksite	
analysis; and safety and health training.	
4) Conformance of the Environmental Management	ISO 14001 registration retained through
System to ISO 14001 standard	FY2004
5) Reportable Occurrences of Release to the Environment	$\leq$ 2 events
6) Low Level Radioactive Waste Generation (P2). Reduce	≤ 187 Cubic Meters/yr
amount of waste generated by Lab.	
7) Hazardous Waste Generation (P2). Reduce amount of	$\leq$ 9.0 MT/yr
waste generated by Lab.	
8) Spread of Radioactive Contamination	$\leq$ 3 events

Modification M412

#### 1) Excellence in Safety & Health Program - Total Recordable Case Rate

Work-related injury or illness, which resulted in loss of consciousness, restriction of work or motion, transfer to another job, or required medical treatment beyond first aid. Total Recordable Case Rate (TRCR) is the number of total recordable cases per 200,000 hours worked. Source of data: Laboratory SHIMS. This metric is plotted monthly starting in Oct (fiscal year start) and subsequently each month. The rate is a FY cumulative number where the Feb rate includes Oct-Feb data. March includes Oct-March data and so on.

This target is based on the Office of Science objective to achieve best in class by the end of FY 2005. The target for FY 2004 is set at 1.41 cases/200,000 hrs.

#### 2) Excellence in Safety & Health Program - Lost Workday Case Incident Rate

Work-related injury or illness, which resulted in days away from work, restricted and/or transferred job duties. Days Away, Restricted or Transferred (DART) is the number of lost workday cases per 200,000 hours worked. Source of data: PNNL SHIMS. This metric is plotted monthly starting in Oct (fiscal year start) and subsequently each month. The rate is a FY cumulative number where the Feb rate includes Oct-Feb data, March includes Oct-March data and so on.

This target is based on the Office of Science objective to achieve best in class by the end of FY 2005. The target for FY 2004 is set at 0.65 cases/200,000 hrs.

#### 3) Annual Safety and Health Evaluation

To demonstrate excellence in implementation of the Safety and Health (S&H) program, and maintenance of the performance measures cited in item 3 of the above table, an annual evaluation of the S&H program implementation is to be conducted by the VPP Steering Committee for the Contractor. A rating is established by an evaluation team using documented rating criteria to document the Contractor's overall performance. The ratings are 9-12 = Good; 5-8 = Adequate; and 0-4 = Improvement Required. The FY 2004 target is to achieve a rating of "Good."

#### 4) Environmental Management System Conformance to ISO 14001

ISO 14001 defines an internationally best management practice for an environmental management system. Conformance to the standard is validated by 3<sup>rd</sup> party audits/oversight conducted by an auditing body recognized by the U.S. Registrar Accrediting Body (RAB). Target: ISO registration will be retained through FY 2004.

#### 5) Reportable Occurrences of Release to the Environment

Releases of radionuclides, hazardous substances, or regulated pollutants that are reportable to federal, state, or local agencies. Source of data is review of occurrence reports. All ORPS Group 5 Environmental (5A) are considered for significance on a case-by-case basis.

### 6) Low Level Waste Generation (P2)

Low Level Waste (LLW) is waste that contains radioactivity and is not classified as high-level waste, transuranic waste, or spent nuclear fuel, or by-product material. Test specimens of fissionable material that are irradiated for research and development only, and not for the production of power or plutonium, may be classified as LLW, providing the concentration of transuranic is less than 100 nanocuries per gram (nCi/g).

FY 2004 target is 187 cubic meters. Currently generated waste (as opposed to legacy waste) is tracked in PNNL's Integrated Waste Tracking System. Responds to DOE memorandum of Nov 12, 1999 "Pollution Prevention and Energy Efficiency Leadership Goals for Fiscal Year 2000 and Beyond."

Modification M412

#### 7) Hazardous Waste Generation (P2)

<u>Hazardous Waste</u> includes 1) RCRA-hazardous waste, 2) State-only hazardous waste, and 3) TSCA waste.

- a) <u>RCRA-Hazardous Waste</u>: Wastes that exhibit any of the characteristics of hazardous waste identified in 40 Code of Federal Regulations (CFR) 261, Subpart C (e.g., ignitable, corrosive, reactive, acutely hazardous, or acutely toxic), or that are listed in 40 CFR 261, Subpart D, "List of Hazardous Waste."
- b) <u>State-Only Hazardous Waste</u>: Waste regulated under the Washington Administrative Code (WAC) Dangerous Waste Regulations in WAC 173-303 that is not also RCRA-regulated waste.
- c) <u>TSCA Waste</u>: Hazardous chemical wastes, both liquid and solid, containing more than 50 parts per million (ppm) of PCBs or PCBs regulated for disposal.

FY 2004 target is 9.0 metric tons. Currently generated waste (as opposed to legacy waste) as tracked in PNNL's Integrated Waste Tracking System. Responds to DOE memorandum of Nov 12, 1999 "Pollution Prevention and Energy Efficiency Leadership Goals for Fiscal Year 2000 and Beyond."

### 8) Spread of Radioactive Contamination

Number of instances of uncontrolled unwanted (i.e., non-legacy) spread of radioactive contamination that exceeds applicable DOE-approved authorized limits (pursuant to DOE Order 5400.5) or, if there are none, the values found in 10 CFR Part 835, Appendix D. All 6B Spread of Radioactive Contamination conditions/events are considered for significance on a case-by-case basis.

#### Performance Evaluation:

Outstanding: 7 or more measures met

Excellent: 6 measures met
Good: 4 - 5 measures met
Marginal: 3 measures met
Unsatisfactory: 2 or less measures met

#### 3.2.2 Sustain and enhance the effectiveness of Integrated Safeguards and Security

The weight of this indicator is 20%.

Safeguards and Security (SAS) is integrated into the culture of the organization for effective deployment of the management system.

<u>Description</u>: This indicator will assess the degree to which the requirements and practices of the Safeguards and Security management system are integrated into the day-to-day operating culture of the Laboratory. The degree of integration will be determined based on a composite of performance measures designed to provide an overall picture of the effectiveness of Integrated SAS Management. The score shall be derived from the composite average received during the reporting period.

#### Measures:

Demonstrate improvements in Integrated Safeguards and Security Management System processes and functions

Continually assess SAS processes in order to affect appropriate enhancements or actions maintaining effective and efficient operational practices, ensuring long-term stewardship of

assets and resources, and playing a key role in supporting the Laboratory's focus on delivering excellent research.

Indicator Description	Specified Level	Cumulative Score
Internal SAS Program Key Components –	Outstanding - Identified goals/key elements are achieved.	3.5 - 4
Key elements of the SAS Program are	Excellent - Majority of identified goals/key elements are achieved	3 - <3.5
monitored for process effectiveness and	Good - Most goals/key elements achieved; minor issues	2 - < 3
achievement of goals:	Marginal - Few goals/key elements achieved; issues identified	1 - <2
	Unsatisfactory - Significant issues; goals not being achieved	0 - <1

Milestone Date – Conduct routine reviews of selected processes and provide results to appropriate management. Data will be reported and collected on a monthly, quarterly, and annual basis (as determined through identified key components/elements listing). Targets may be adjusted based on need/circumstances.

Included is the evaluation of performance in Safeguards and Security programmatic areas at protecting assets and compliance/performance as measured by internal and external evaluations and performance against agreed upon corrective action plans.

#### Key Elements/Components:

The following measures are considered key indicators to demonstrate performance management to the desired outcomes for Safeguards and Security. Items may be added or modified based on need.

Description	Target/Goal	Points
Monthly security events at the Laboratory are	Acceptable range is ≤3 security	4
tracked and categorized by:	events per month.	
<ul> <li>Building (location)</li> </ul>	N/A	3
<ul> <li>Specific types of more significant events</li> </ul>	N/A	2
<ul> <li>organization</li> </ul>	>3 ≤5 security events per	1
<ul> <li>Root cause</li> </ul>	month.	
<ul> <li>Date of occurrence</li> </ul>	>5 security events per month	0
Types of corrective action(s) implemented by		
line management are tracked.		
Quarterly		
The percentage of incidents self-reported shall be	Maximum of 20% of incidents not	4
monitored and tracked. Those Incidents of	self reported	
Security Concern self-reported by staff members	Maximum of 21%-30% of	3
versus the number discovered (IMI 1, 2).	incidents not self reported	
	Maximum of 31%-40% of incidents	2
Monthly	not self reported	
	Maximum of 41%-50% not self	1
	reported	
	>50% not self reported	0
Classification/UCNI - Correct identification of	Minimum of 4% of all	4
Classified and Unclassified Controlled Nuclear	publications are reviewed by the	
Information (UCNI)	Classification Office per quarter	

Description	Target/Goal	Points
Loss/unaccounted for security interest	Minimum of 3% of all	3
rates due to inappropriate or lack of	publications are reviewed by the	
proper classification (based on level of	Classification Office per quarter	
severity)	Minimum of 2% of all	2
	publications are reviewed by the	
Pass/Fail	Classification Office per quarter	
	Minimum of 1% of all	1
Quarterly Metric	publications are reviewed by the	
	Classification Office per quarter	
	No oversight reviews	0
Unclassified Cyber Security. Significant agreed	Establish reasonable and	4
upon metrics shall be monitored and measured to	effective baseline	
determine the overall effectiveness of the Cyber	N/A	3
Security Program. These can include:	N/A	2
<ul> <li>Network Security Scan statistics/results</li> </ul>	N/A	1
<ul> <li>Anti-Virus Tool effectiveness</li> </ul>	Fail to establish a reasonable	0
<ul> <li>Employee Awareness</li> </ul>	and effective baseline	
System Vulnerabilities		
These metrics will be initiated in order to		
establish a baseline from which to measure the		
program against in the future.		
Annual metric		
Employee and Management awareness of their	95% of the employees are	4
SAS responsibilities. Line management and staff	current in their SAS education	7
demonstrate their commitment to SAS through	requirements	
completion of required SAS courses.	85%-94% of the employees are	3
completion of required 5715 courses.	current in their SAS education	3
Monthly	requirements	
1	75%-84% are current	2
	60%-74% are current	1
	<60% are current	0
Security clearance justifications are maintained –	100% of SRPs are submitted in	4
clearances are maintained and processed when	accordance with schedules.	7
necessary. 100% of Selective Reinvestigation	95-99% of SRPs are submitted	3
Program (SRP) cases are submitted in	in accordance with schedules.	J
accordance with the schedule.	90-94% of SRPs are submitted	2
	in accordance with schedules.	2
Monthly	85-89% of SRPs are submitted	1
_ , ,	in accordance with schedules.	1
	<85% of SRPs are submitted in	0
	accordance with schedules.	v
FNVA requests are processed in a timely manner	≥80% of requests are processed	4
in accordance with requirements. Overall	within 10 days	<b>⊣r</b>
processing time for all FNVA requests shall be	>75%<80% of requests are	3
completed within 10 days.	processed within 10 days	5
Other items tracked that impact this metric	>70%<75% of requests are	2
include:	processed within 10 days	2
Indices processed: Lead time provided	≥65%<70% of requests are	1
by requestor	processed within 10 days	1
<ul> <li>Type of request (involves sensitive;</li> </ul>	<65% of requests are processed	0
indices; etc)	within 10 days	U
Monthly	winiii 10 days	
1v1OHully		

Modification M412

Description	Target/Goal	Points
Foreign Travel requests are processed in	20% or fewer trip reports are	4
accordance with requirements. Foreign Travel	outstanding (>30 days past due)	
trip reports due to be closed (within 30 days of	25-29% trip reports are	3
return) are submitted to the Foreign Travel office	outstanding (>30 days past due)	
in accordance with the requirements.	30-35% trip reports are	2
	outstanding (>30 days past due)	
Monthly	36-40% trip reports are	1
	outstanding (>30 days past due)	
	>40% trip reports are	0
	outstanding (>30 days past due)	
Nuclear material control and accountability	1 conducted each 6 mo's (2	4
performance tests and resulting corrective actions	annually) – both pass	
are satisfactorily completed. Two tests are	N/A	3
performed each year (pass/fail).	1 conducted each 6 mo's (2	2
	annually) – one pass/one fail	
Annual Metric	1 conducted annually - pass	1
	1 conducted each 6 mo's (2	0
	annually) – both fail	
Self-Assessments – completion of internal	100% of scheduled assessments	4
assessments in accordance with schedules as well	and corrective actions shall be	
as completion of corrective actions in accordance	completed in accordance with	
with schedules.	agreed upon schedules (to	
	include approved schedule	
Annual	changes)	
	90%-99%	3
	80%-89%	2
	70%-79%	1
	<70%	0
External evaluations – Satisfactory (or above)	Satisfactory (or above)	4
ratings and all corrective actions are	composite rating and 100% of	
developed/completed in accordance with	corrective actions are completed	
schedules	in accordance with schedules	
	90%-99%	3
Annual	80%-89%	2
	70%-79%	1
	<70%	0

### Performance Evaluation:

Outstanding: Performance meets the specified level averaged for the indicators (3.5-4 pt

average)

Excellent: Performance meets the specified level averaged for the indicators (2.5-3.4 pt

average)

Good: Performance meets the specified level averaged for the indicators (1.5-2.4 pt

average)

Marginal: Performance meets the specified level averaged for the indicators (0.5-1.4 pt

average)

Unsatisfactory: Performance less than Marginal (<0.5 pt average)

## 3.2.3 Enhance network reliability, availability, and security

The weight of this indicator is 15%.

<u>Description</u>: Electronic mail is a critical service for communication and collaboration and is a very good indicator of network availability because it is the most widely and heavily used service at the Laboratory.

The data reported is the percentage of time the internal electronic mail system is operational excluding planned downtime, based on the number of staff served. This information will be gathered and reported on a quarterly basis.

The Laboratory's network infrastructure is subjected to approximately 10,000 instances of viruses hitting the Laboratory's firewall per month ( $\sim 120,000/\text{year}$ ). Economic impact from attacks on the network is mitigated if they are detected and stopped before they infect individual systems. The Contractor's antivirus protection program provides defense in depth by monitoring incoming and outgoing electronic mail at both internet mail gateway and by checking files as they are opened at the workstation. The Contractor's cyber security staff will collect data on the number of successful known virus attacks on the Laboratory systems versus those that were stopped at the internet mail gateway or the individual workstation before the virus activates. This metric will capture the percentage of those attempts that are stopped at the gateway or the workstation (minimum of 95%). The Contractor's success of preventing known virus attacks from having a negative impact on the Laboratory's computing capability will be measured.

#### Measures:

- 1) Availability of Electronic Mail services to the Laboratory staff.
- 2) Measure the percentage of all virus instances that are successfully handled before infection can take place. This information will be reported on a quarterly basis.

#### Performance Evaluation:

1) Electronic mail service availability

Best: >99.9%

Expected: 98.0-99.8% Worst: <98.0%

2) Percentage of successfully handled viruses

Best: >95% Expected: 90-94% Worst: <90%

The following indicator performance rating is a composite of the above two metrics and is derived by taking the product of each percentage in the listed ranges. Outstanding is achieved by equaling or exceeding the best possible performance in each metric (99.9%X95%), Excellent is achieved by meeting or exceeding the high end of expected (98.9%X94%), Good is achieved by meeting or exceeding the low end of expected performance (98%X90%), Marginal is achieved by meeting or exceeding worst case performance (98%X89%), and Unsatisfactory is a result of not meeting worst case performance (<98%X89%).

Outstanding: 94.0 - 95.5+% Excellent: 92.0 - 93.9% Good: 90.0 - 91.9% Marginal: 88.0 - 89.9% Unsatisfactory: <88.0%

Value points will be pro-rated within the ranges identified above.

Modification M412

3.2.4 Complete FY 2004 removal of non-programmatic inventory material from the Radiochemical Processing Laboratory (RPL).

The weight of this indicator is 20%.

<u>Description</u>: This indicator measures effective management of the tasks for removing non-programmatic inventory material from RPL. The scope of work is covered under the Radiochemical Processing Laboratory (RPL) Inventory Removal Task WBS 4.2.3.20.2.2, and the Legacy Waste Removal Task WBS 4.2.3.20.3.2, contained in the EM-40 Annual Work Plan (AWP).

#### Definitions:

- Specifically, this work refers to the miscellaneous orphaned radiological and chemical
  inventory described in both the RPL Inventory Removal Task, and the Legacy
  Waste Removal Task. The subset of key milestones are considered closed when the
  material is shipped out of RPL. These milestones are listed below.
- For the purpose of this performance indicator material shipped means: picked up by the site waste management contractor, or offsite contractor.

#### Assumptions:

- The work supported by the activity will be controlled using the established project change control process.
- DOE will provide assistance in resolving issues involving Other Hanford Contractors when the issue(s) are reported to DOE at least 30 days prior to the closure of the related milestone(s). Change control will be used to modify the list of key milestones listed below, if needed. For example: the site waste management contractor may have constraints outside of its control that limit material pick up.

<u>Performance Evaluation</u>: Performance against this indicator will be measured by the number of the key milestones identified below that have been completed. Completion is defined as the waste being picked up by the site waste management contractor or offsite contractor on or before September 30, 2004. Activities completed in support of this performance indicator will be reported to the PNSO during the monthly Facility Transitions Project meeting by the Contractor's project managers. Milestone completion will be documented by letter to DOE.

# Milestones identified for completion during FY 2004: RPL Inventory Removal Task WBS 4.2.3.20.2.2

- 1. 7A Disposal of SST and DST Waste
- 2. 7B Repackaging and Verification of Orphan Waste Containers
- 3. 7C Disposal of 7 drums of Ra-226 sources
- 4. 7D Disposal of lead bricks previously used for shielding
- 5. 7F Verification, packaging and disposal of 6 empty Type B containers
- 6. 7G Analysis and Disposal of 65 gallons vacuum pump oil
- 7. 7H Sample, repackage and dispose of 55 gallons contaminated cerium nitrate
- 8. 7I Sample, repackage and dispose of 10, 55 gallon drums of mineral oil
- 9. 7J Disposal of lead shielded stainless steel 3200 pound shipping cask (bone yard cask)
- 10. 7K Sample, repackage and dispose of an empty stainless steel cask filled with paraffin
- 11. 7L Analyze, package and dispose of 55 gallons of normal paraffin hydrocarbon
- 12. 7O Contaminated equipment disposal
- 13. 7P Disposal of old lead shielding brick
- 14. 11A Establish shielded repository for radioactive samples
- 15. 7R Recover liquid transfer hood/liquid transfer system
- 16. 9 SAL waste cleanout complete

#### Legacy Waste Removal Task WBS 4.2.3.20.3.2

1. Content Verification and Disposal of 3 Bowling Ball Casks Complete

Modification M412

Outstanding: 17 tasks completed
Excellent: 15 or 16 tasks completed
Good: 13 or 14 tasks completed
Marginal: 11 or 12 tasks completed
Unsatisfactory: Less than 11 tasks competed

3.2.5 Demonstrate ownership of current Radiochemical Processing Laboratory (RPL) Radioactive Materials

The weight of this indicator is 20%.

<u>Description</u>: This indicator measures effective management of the current radioactive material inventory in RPL. The metrics below are intended to demonstrate documentation of ownership, disposal commitments, and implementation of waste disposal for completed work, for radioactive materials in the Radioactive Materials Tracking (RMT) inventory.

<u>Definitions</u>: Ownership: For purposes of this metric, ownership of radioactive materials is defined as commitment in the form of a contract by an industrial or government party, or a written commitment from a federal government entity accepting the costs for disposition of said radioactive materials.

<u>Assumptions</u>: Multi-program materials, such as radiochemical standards and tracers, will be assigned to a user pays program code.

<u>Performance Evaluation</u>: Performance against this indicator will be measured by the product of the percentage completion of the following tasks as of the end of the reporting period, September 30, 2004.

- RPL Radioactive Materials have an assigned programmatic owner for all RPL radioactive material inventory items in the RMT. Performance will be measured by the percentage of RMT inventory items having a documented programmatic assignment. The inventory consisted of 613 items as of September 30, 2003, with 6 assigned.
   Target: 95% of all items assigned (average of each quarter, beginning second quarter of FY 2004), reaching 100% by the end of FY 2004.
- RPL Radioactive Materials are properly disposed of at the conclusion of the program.
   Performance will be measured by the percentage of RMT inventory items being disposed for completed projects.

Target: 100% of all items are disposed at the conclusion of the program.

Outstanding: 95% - 100% of target met 86% - 95% of target met 74% - 85% of target met Marginal: 64% - 75% of target met Unsatisfactory: <60% - 65% of target met

Value points will be pro-rated within the ranges identified above.

#### 3.2.6 Establish the Laboratory Assurance Process

The weight of this indicator is 0%.

<u>Description</u>: Section C-3 "Performance Expectations, Objectives, and Measures," Clause H-32 "Other Advance Understandings," and Clause I-76 "970.5203-1 Management Controls (Dec 2000) (DEVIATION)" of the Contract with Battelle requires that the Contractor develop and implement a Laboratory Assurance Process. The assurance process must be "acceptable" to the Contracting Officer and submittal of the initial "Assurance Letter" is required no latter than November 30, 2004. General expectations for this process are contained in the contract. This

Modification M412

indicator measures the Contactor's progress in completing key steps associated with the annual "Assurance Letter."

#### Milestones:

 Contractor will deliver a process description within 30 days of its approval by the Battelle Executive Vice President (EVP) for Laboratory Operations. Assumptions:

- The Contracting Officer will review, provide comments, allow for changes and accept the Laboratory Assurance Process Description within 30 days of the contractor submittal
- 2. The initial set of data packages is shared with DOE within 30 days of their initial approval by the Battelle EVP.
- 3. The data packages will be made available to DOE quarterly. Assumptions:
  - Quarterly once the appropriate approvals in Milestones 1 and 2 are completed.

#### Performance Evaluation:

Outstanding: Milestone 1, 2, and 3 achieved Excellent: Milestone 1, and 2 achieved Good: Milestone 1 achieved

Marginal: Assurance Process description not accepted by Contracting Officer

Unsatisfactory: No milestones achieved

#### 3.3 Customer evaluation of success in constructing and operating research facilities & equipment.

The weight of this Objective is 40%.

This objective shall provide a measure the overall effectiveness/performance in successfully constructing and operating research facilities & equipment as viewed by the DOE HQ Office of Science's (SC).

<u>Measure</u>: The SC program office's providing evaluations will consider whether the construction and commissioning of new facilities is on time and within budget; whether performance specifications and objectives are achieved; the safe, reliable, and environmentally responsible operation of facilities; adherence to planned schedules; the cost-effectiveness of maintenance and facility improvements; the maximization of facility and equipment use; and the ability to provide staff and equipment that supports strategic programs.

Reviewers of user facilities will also consider whether the user access program is effective, efficient, and user-friendly; the strength and diversity of user participation; the productivity of the research supported, both in science and technology; and the level of satisfaction among user groups from industry, academia, and government laboratories.

Furthermore the SC program office's will consider, as appropriate, the following key performance indicators developed for their program(s) and/or project(s) and shall include the Contractor's performance against the indicator(s) within their evaluations. The PNSO shall work closely with each HQ SC program office throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year.

Modification M412

#### a. Implement the new EMSL user program operating model

<u>Description</u>: Implement four Collaborative Access Teams (CATs), fully deploy the EMSL User System (EUS), and fully implement the EMSL Resource System (ERS). Collaborative access teams enable and conduct high impact science that demonstrates the capabilities and value of the EMSL and maintain EMSL at the forefront of science. They provide a mechanism to attract and increase the number of high-impact users in a focused research environment and build new capabilities for use by the CAT and general users. In any given year, the number of CATs may vary due to the specific science being addressed. In order to effectively launch the CATs, EMSL will initially launch a minimum of 4 CATs in FY 2004. This will allow for a learning and implementation process to be developed so that subsequent CATs can easily be added as they develop.

Assumptions: Timely and adequate funding available to deploy the second two CATs.

<u>Milestones</u>: The following milestones will be used to evaluate this performance indicator:

- Deploy the Atmospheric Emissions and Catalysis CATs by the end of the second quarter FY 2004.
- 2. Deploy 2 CATs (the specific CATs to be deployed will be identified by February 15, 2004) by the end of the fourth quarter FY 2004.
- 3. Complete deployment of the EUS by the end of the fourth quarter FY 2004.
- 4. Complete implementation of the ERS by the end of the fourth quarter FY 2004.
- b. Develop and implement a strategic plan for EMSL

<u>Description</u>: Develop and implement an EMSL Strategic Plan and complete the EMSL Operations Manual.

<u>Definitions</u>: The Science Advisory Council (SAC) is an independent body external to the Laboratory charged with providing objective, timely advice to the leadership of the William R. Wiley Environmental Molecular Sciences Laboratory.

Measures: The following milestones will be used to evaluate this performance indicator:

- 1. Complete drafting of the EMSL Strategic Plan and provide it to the PNSO for review by the end of the second quarter FY 2004.
- 2. Obtain concurrence on the Strategic Plan by the Science Advisory Council (SAC) by the end of the third quarter FY 2004.
- 3. Complete, provide to PNSO for review, and publish EMSL Operations Manual by end of the second quarter FY 2004.
- c. Optimize EMSL supercomputer performance and security

<u>Description</u>: The Contractor shall develop 1) the tools and measurement capabilities to monitor system metrics (i.e., disk memory, I/O, communications, compute) in order to allow system developers and application programmers to optimize codes that run on the EMSL supercomputer and 2) tools and metrics to measure the security of the EMSL supercomputer.

<u>Assumptions</u>: Timely and adequate funding available to accomplish this task.

#### Measures:

- 1. Development of a tool for gathering performance metrics for the majority of jobs run on the EMSL supercomputer. The tool is to measure the following categories:
  - CPU Utilization
  - CPU Efficiency with respect to Floating Point Operations
  - Efficiency of Memory Bandwidth
  - Utilization of Disk Bandwidth

- Utilization of Disk capacity
- 2. Development of a tool to monitor the security of the EMSL supercomputer. The tool is to measure the following categories:
  - Number of attempted incidents that get by the PNNL firewall
  - Time to implement a CIAC security advisory
  - Automated scanning of EMSL supercomputer against known compromises
- d. Enhance availability and optimize use of major EMSL research equipment.

<u>Description</u>: This indicator is to measure the impact of unplanned operational events within the Contractor's control on the percentage of time the major EMSL research equipment is available for use and to measure how often the equipment is being used when it is available.

<u>Definitions</u>: A day on which an instrument is used is defined as a day on which it is in use at least 10 hours out of 24.

#### Assumptions:

• While there are two 9.4 T superconducting magnets, there is only one mass spectrometer to use with the two magnets. The "spare" magnet is not useful for proteomic separations without the mass spectrometer. Hence, this indicator applies to the 9.4T and 11.4T mass spectrometers.

Measure: This indicator will be measured using the following approach:

Metric 1: Target % for instrument availability (see targets for each instrument below): Ta

Number of days the instrument is actually available (this is measured):  $D_a$  Number of days the instrument is planned to be available (see targets for each instrument below):  $D_p$   $T_a = (D_a/D_p)*100$ 

Metric 2: Target % for instrument use (see targets for each instrument below): T<sub>u</sub>

Number of days the instrument is actually available (this is measured):  $D_a$  Number of days the instrument is used (this is measured):  $D_u$   $T_u = (D_u/D_a)*100$ 

#### Target Levels:

9.4 T and 11.4 T Mass Spectrometers

- Operate the 9.4T mass spectrometer 6 days per week excluding 8 scheduled holidays. This gives  $D_p = 365-52-8 = 305$  days per year.
- Operate the 11.4T mass spectrometer 5 days per week excluding 8 scheduled holidays. This gives  $D_p = 365-104-8 = 253$  days per year.
- The target for instrument availability (T<sub>a</sub>) for the 9.4T mass spectrometer is 275 days per year, or 90%. That is, we will attempt to limit unscheduled outages due to equipment failure to less than or equal to 30 days out of 305.
- The target for instrument availability (T<sub>a</sub>) for the 11.4T mass spectrometer is 220 days per year, or 87%. That is, we will attempt to limit unscheduled outages due to equipment failure to less than or equal to 33 days out of 253.
- The target for instrument use (T<sub>u</sub>) is 95% for the 9.4T mass spectrometer.
- The target for instrument use (T<sub>u</sub>) is 95% for the 11.4T mass spectrometer.

#### 800 MHz NMR

• Operate the 800 MHz NMR 7 days per week excluding 8 scheduled holidays and 28 days for planned maintenance. This gives  $D_p = 365-8-28 = 329$  days per year.

• The target for instrument availability (T<sub>a</sub>) for the 800 MHz NMR is 296 days per vear, or 90%.

• The target for instrument use  $(T_u)$  is 90% for the 800 MHz NMR.

#### 900 MHz NMR

- Operate the 900 MHz NMR a minimum of 50 days.  $D_a = 50$ .
- The target for instrument availability (T<sub>a</sub>) for the 900 MHz NMR is 45 days, or 90%.
- The target for instrument use  $(T_u)$  is 90% for the 900 MHz NMR.

	Ta	$T_{\rm u}$	$D_p$	$T_a * T_u$
9.4 T Mass Spec	90%	95%	305	85.500%
11.4 T Mass Spec	90%	95%	253	85.500%
800 MHz NMR	90%	90%	329	81.000%
900 MHz NMR	90%	90%	50	81.000%
		Average	Ta * Tu =	83.250%

**Targets** 

Days on which the instrument or facility is not available due to events which are clearly outside the control of the Contractor will be accounted for by subtracting the total number of such days from the established value for  $D_p$ . Final decisions as to whether or not such events were outside the Contractors control will be made by the PNSO. Examples of events which might adversely affect instrument or facility availability and which are clearly beyond the control of the Contractor include but are not limited to: fires on the Hanford Site, earthquakes, or other natural phenomena; spontaneous magnet quenches; or utility outages due to natural phenomena or man made causes outside of the Laboratory.

e. Coordinate use and development of ARM Facilities.

Utilizing the following three sub-indicators this indicator measures the Contractor's success in developing the new ARM Mobile Facility and coordination of the ARM Intensive Operational Periods (IOPs).

1. Implement and complete equipment procurement activity for the new ARM Mobile Facility in shortest possible time.

<u>Description</u>: Complete equipment acquisition actions for instruments and shelters required for the new ARM Mobile Facility to include capital and expense equipment and competitive and sole source acquisitions. The metrics to be used are the successful completion of four distinct actions for each procurement to include release of the Request for Proposals (RFP), completion of the contract for, delivery of and acceptance of the item being procured. Some delivery and acceptance actions for "long-lead time" items will be planned for subsequent fiscal years as appropriate.

<u>Definitions</u>: Procurement actions include the following: RFP, contract, item delivery and acceptance of delivered item (four distinct actions). "Long lead time" refers to items to be delivered in a subsequent fiscal year.

<u>Assumptions</u>: Adequate funding is made available to complete contracting actions within the first quarter of FY 2004.

Measures: The following metrics will be used to evaluate this performance indicator:

1. 90% of the individual procurement actions are completed at least to the point of signed contracts within three months of receiving full funding.

2. 90% of all possible contracting actions are completed by the end of the fourth quarter FY 2004. The baseline for "possible contracting actions" will be established for each procurement as a result of the contracting process.

- 3. 60% of non-long-lead time items are delivered and accepted within six months after receiving full funding and remaining non-long-lead time items are documented for delivery expectations and corrective action instituted as appropriate.
- 4. 75% of long-lead time items progress is documented and either accepted as meeting expected development schedule or remedial action taken as appropriate.

### 2. Develop and test new ARM Mobile Facility

<u>Description</u>: Complete development and buildup of ARM mobile facility to include instruments, shelters and data system, but not to include long-lead-time procurement items

<u>Definitions</u>: The ARM Mobile Facility (AMF) is an integrated set of instruments linked by a data system and housed in a transportable facility. The conceptual design of the AMF is complete; most equipment can be procured and integrated within six months of receipt of full funding, but some items will require longer delivery times than six months and some will require delivery in a subsequent fiscal year. The radar and FTIR will not be funded in the first year, but "hooks" will be built in to the AMF shelters and data system to permit modular additions when these instruments are available. Initial testing is to be completed on-site at the Laboratory as instruments are integrated and then as a system.

<u>Assumptions</u>: Adequate funding is made available to place contracts for planed equipment within the first quarter FY 2004.

<u>Measures</u>: The following metrics will be used to evaluate this performance indicator:

- 1. Final shelter systems for initial build selected within the first quarter FY 2004.
- 2. Data system setup and tested for basic functionality within 3 months of receipt of funding with "hooks" for all anticipated instruments except for long-lead items.
- 3. 50% of non-long-lead time instruments integrated with data system within 6 months of receipt of funding.
- 4. 90% of non-long-lead time instruments received is integrated with data system within 9 months of receipt of funding and remaining instruments fully accommodated in system development to permit modular integration when received.
- 5. Initial testing completed at the Laboratory by the end of the fourth quarter FY 2004. Not all instruments will be received and integrated at time of initial testing.
- Enhance coordination of ARM IOPs in a manner to successfully execute IOPs and archive IOP data

<u>Description</u>: ARM Intensive Operational Periods (IOPs) are a continuing and significant aspect of site activity to make specific measurements to address a specific and well articulated scientific need. IOPs may involve only on-site instrumentation used in nonroutine ways, or may involve substantial resources from the outside being directed against the specific need; these resources could include ground instruments, satellites or aircraft, for example. IOPs will typically result in data to be archived for use by other interested scientists and this data will be captured and maintained by the ARM Archive.

<u>Definitions</u>: IOP stands for "Intensive Operational Period." ARM sites take data from standard suite of instruments on a continuous basis and by a well-specified operations concept. Alterations to the routine or the addition of additional instruments or capabilities result in an IOP – a nonstandard data acquisition activity. The ARM Archive at the Oakridge National Laboratory (ORNL) will accept preliminary and final data submissions from IOP participants as required. Some IOPs such as instrument test may produce data

Modification M412

germane of no issue except that test – this data is captured only by the IOP lead scientist. Some instrument evaluations IOPs are examples.

<u>Assumptions</u>: All visiting PIs ascribe to the U.S. policy of "free and open" access to research data.

<u>Measure</u>: Each IOP is carefully planned and the data to be produced is well known. The percentage of that data that is received at the ORNL archive will be utilized to measure the Contractor's success in coordinating IOP data coordination.

<u>Performance Evaluation</u>: The overall performance rating for this objective will be determined by the overall value points assigned by the SC program offices. SC will be asked to provide both an adjectival rating and rating value points as outlined within Table 3.2. Should SC only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply.

ELEMENT	Adjectival Rating	Value Points	Indicator Weight	Total Points	Objective Weight	Total Points
3.0 Success In Constructing And Operating Research Facilities & Equipment		- 00				
3.1 Ensure capabilities are available to support						
current and future Laboratory programs						
3.1.1 Provide facility infrastructure to support current and future Laboratory programs. Continue transition out of 300 area facilities & obtain support for the acquisition of new facilities.			80%			
3.1.2 Increase the total consideration to the Laboratory from the deployment of intellectual assets.			20%			
		Objectiv	e 3.1 Total		25%	
3.2 Manage all facilities to maximize research						
value and assure safe, secure, and environmentally						
sound operations						
3.2.1 Provide ESH&Q management systems that sustain and enhance excellence in Laboratory operations			25%			
3.2.2 Sustain and enhance the effectiveness of Integrated Safeguards and Security			20%			
3.2.3 Assure network reliability, availability, and security			15%			
3.2.4 Complete FY 2004 Radiochemical Processing Laboratory (RPL) inventory removal from RPL			20%			
3.2.5 Demonstrate ownership of current Radiochemical Processing Laboratory (RPL) Radioactive Materials			20%			
3.2.6 Establish the Laboratory Assurance Process			0%			
		Objectiv	e 3.3 Total		35%	
3.3 Customer evaluation of success in constructing and operating research facilities & equipment			100%			
		Objectiv	e 3.4 Total		40%	
Table 2.1 Value of Descends Facilities Cuities		C	Critic		ne 3.0 Total	

Table 3.1 - Value of Research Facilities Critical Outcome Performance Rating Development

Total Score	4.0 - 3.5	3.4 - 2.5	2.4 - 1.5	1.4 - 0.5	<0.5
Final Rating	Outstanding	Excellent	Good	Marginal	Unsatisfactory

Table 3.2 - Value of Research Facilities Critical Outcome Final Rating

Modification M412

#### 4.0 EFFECTIVENESS AND EFFICIENCY OF RESEARCH PROGRAM MANAGEMENT (20%)

Battelle provides effective customer relationship management and program management; manages capabilities and creates supporting partnerships; and provides outstanding expert-delivery, research processes, which improve research productivity, increase integration across research programs, and deliver strong project execution and management of risk.

The weight of this outcome is 20%.

The Effectiveness and Efficiency of Research Program Management Critical Outcome shall measure the Contractor's overall program leadership in creating strong partnerships required to deliver assigned programs, and strengthening the linkage between fundamental and applied sciences. It also measures the Contractor's effectiveness in enhancing research work processes and providing strong program and project controls to improve scientific productivity. Performance objectives and indicators to be utilized in the evaluation of the Effectiveness and Efficiency of Research Program Management critical outcome have been developed by the PNSO in partnership with the Contractor and appropriate DOE HQ organizations and are listed below. These performance objectives and indicators identify significant activities/requirements important to the success of the Laboratory's research facility systems as identified by the Department and/or its customers.

Each of the performance indicators has an associated metric that translates the level of performance to an adjectival rating. Scoring of the individual performance indicators is based on the point scheme identified within section I. The overall adjectival rating is then computed by multiplying the weight of each performance indicator and summing them all to develop an overall score for each objective. The score for each objective within the outcome is then computed in the same manner to arrive at an overall score for the outcome (see Table 4.1 at the end of this section). The overall value points earned are then compared to Table 4.3 to determine the overall adjectival rating.

#### Objectives and Performance Indicators:

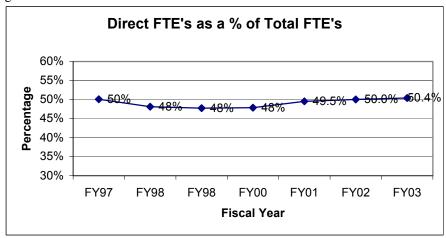
#### 4.1 Enhance research work processes to improve scientific productivity

The weight of this objective is 20%.

4.1.1 Increase direct FTEs as a percent of the total Laboratory FTEs

The weight of this indicator is 100%.

<u>Description</u>: The Contractor's direct FTE's represent the primary indicator of resource deployment to customers. It also represents the primary source of overhead recovery. Monitoring the level of direct FTE's is an institutionalized management practice at the Laboratory. Evaluating direct FTE's relative to the total FTE's available in the Laboratory indicates a measure of the Contractor's resource management. PNNL is committed to a consistently improving trend line reflecting programmatic growth and effective indirect cost management.



Modification M412

Data Table	<u>FY97</u>	<u>FY98</u>	<u>FY99</u>	<u>FY00</u>	<u>FY01</u>	<u>FY02</u>	<u>FY03</u>	<b>FY04 est.</b>
Direct	1,585	1,514	1,511	1,529	1,615	1,671	1,696	1,727
Total	3,164	3,139	3,184	3,206	3,261	3333	3,364	3,401
% of Total	50%	48%	48%	48%	49%	50.1%	50.4%	50.8%

Levels of Full Time Equivalent (FTE) Employees

#### Definitions:

- Full-Time Equivalent (FTE): Total hours charged by all staff during a particular report period divided by the total number of productive hours available during that period (1,832 hours per fiscal year). Provides an indicator of the equivalent number of full time staff.
- Direct FTE: Number of Full-Time Equivalent Staff charged to final cost objectives.
- Final cost objective: Source of funding provided directly by a client via a contract.

<u>Assumptions</u>: The FY 2004 FTE assumptions are based on aspirations for this target and the current FY 2004 business planning projections. Direct FTE's assume direct funding of safeguards and security; funding variability caused by programmatic shifts or an extended continuing resolution will impact the Contractor's direct FTE assumptions and the estimated target will need to be renegotiated and incorporated through the approved change control process.

Performance Evaluation: Percent of FY 2004 direct FTE's to total Laboratory FTE's are:

Outstanding: 50.7 - 51+% Excellent: 50.0 - 50.6% Good: 49.0 - 49.9% Marginal: 48.0 - 48.9% Unsatisfactory: < 48.0%

Value points will be pro-rated within the ranges identified above.

#### 4.2 Demonstrate strong program and project performance

The weight of this objective is 40%.

4.2.1 Deliver quality project deliverables on time and on budget.

The weight of this indicator is 100%.

<u>Description</u>: This indicator will evaluate the Contractor's performance in providing project deliverables based on typical project performance measures of cost and schedule variance.

#### Assumptions:

- Program/project deliverables selected are within the Contractor's control.
- Formal change control will be utilized by the Contractor.
- Assumptions specific to each project will be stated including the extent to which any targets are different than actual project baselines due to funding not yet received or other factors.

<u>Measure</u>: The Contractor in coordination with the PNSO and appropriate HQ Program Offices will identify and <u>track</u> several significant Laboratory programs. The listing of programs/projects to be measured is shown below. Changes to this list will be formally incorporated via change control and modification to the Contract. Performance for the projects selected will be measured based on schedule variance with each project carrying equal weight

Modification M412

and cost variance with projects weighted based on the annual business volume associated with the project.

Criteria for program/project selection:

- Program/project performance represents significant contribution to mission area.
- Program/project content is directly related to the Laboratory signature capabilities.
- Program/project warrants significant visibility with by Contractor management, the PNSO and the appropriate HQ Program Office.
- Nature of client and project lends itself to traditional project performance measures.

The following programs/projects cross cut the Laboratory and DOE's mission areas and will be used to track project performance:

- A New Biorefinery Platform Intermediate 3HP Project (CRADA)
- Bulk Vitrification Supplemental Treatment Project (AMEC)
- K-Basin Sludge Treatment Project (Fluor)
- Radiation Portal Monitoring Project (CBP)
- Tritium Technology Program (DOE)

<u>Performance Evaluation</u>: Cost and schedule performance variance for each of the identified programs/projects will be reported. Within each project, cost and schedule performance variances are each 50% of the measure. Aggregate performance across the programs/projects will be based on equal weighting for schedule variance and proportional weighting for cost variance based on cumulative cost through the quarter.

Outstanding:  $\geq$  .95 SPI/CPI average Excellent:  $\geq$  .90 SPI/CPI average Good:  $\geq$  .85 SPI/CPI average Marginal:  $\geq$  .75 SPI/CPI average Unsatisfactory:  $\leq$  .75 SPI/CPI average

Value points will be pro-rated within the ranges identified above.

#### 4.3 Customer evaluation of effectiveness and efficiency of research program management.

The weight of this Objective is 40%.

This objective shall measure the overall effectiveness/performance of research program management as viewed by the DOE HQ Office of Science's (SC), other cognizant HQ Program Offices, and major customers.

The PNSO shall work closely with each HQ program office or major customer throughout the year and at year-end in evaluating the Contractor's performance and will provide PNSO observations regarding programs and projects conducted by the Contractor throughout the year. The contribution to the overall rating from each of the HQ Program Offices and major customers identified below has been weighted as follows.

- Office of Science (SC) (30%)
- Office of Defense Nuclear Nonproliferation (DNN) (20%)
- Office of Intelligence (IN) (5%)
- Office of Counterintelligence (CN) (5%)
- Department of Homeland Security (DHS) (10%)
- Assistant Secretary for Energy Efficiency and Renewable Energy (EERE) (10%)
- Assistant Secretary for Fossil Energy (FE) (10%)
- Department of Environmental Management (EM) (10%)

Modification M412

Measure: HQ Program Office or Customer reviewers will consider the quality of research plans; whether technical risks are adequately considered; progress towards science and technology goals through scientific leadership and strategic partnerships, whether use of personnel, facilities, and equipment is optimized; success in meeting budget projections and milestones; the effectiveness of decision-making in managing and redirecting projects; success in identifying and in avoiding or overcoming technical problems; the effectiveness with which technical results are communicated to maximize the value of the research results and to gain appropriate recognition for DOE and the Laboratory; effectiveness in technical know-how associated with research discoveries; and the degree to which customer and stakeholder expectations are consistently met. The following program office's will also consider, as appropriate, the key performance indicators, identified below, developed for the individual program(s) and shall include the Contractor's performance against these indicator(s) within the overall evaluation for this objective:

#### Office of Science (SC):

a. The Contractor will provide leadership and play a key technical role in the development of Genomics: GTL Program as it sets its goals and facilities for the future.

<u>Description</u>: The Contractor will provide key technical and project management leadership to assess the development of technologies for, and the functional organization of the Whole Proteome Analysis Facility planned under the Genomics: GTL Program (GTL Facility-II). Contractor researchers will actively affect the direction of the DOE Life Sciences Program by organizing and participating in technical meetings, workshops and committees, and technical results from research will affect program direction in significant ways.

#### Assumptions:

- A call for proposals for the Whole Proteome Analysis Facility is issued in a timely manner.
- Adequate funding to achieve the stated goals is received in a timely manner.

<u>Measure</u>: Overall accomplishment of this indicator will be measured by completion of the following:

- Organize one metabolomics and one microbial culture workshop to develop concepts and initiate a baseline of expectations for the Whole Proteome Analysis Facility. Participate in other workshops as needed to ensure integration of the other GTL facilities with the Whole Proteome Analysis Facility.
- 2. Organize and participate in sufficient technical meetings to develop the concepts for prototype and pilot systems in computational biology, informatics, nucleic acid profiling, and high throughput analysis techniques for proteomics and metabolomics. Refine and update the DOE roadmap for the Whole Proteome Analysis Facility based on these meetings.
- 3. Organize and conduct one scientific standards workshop and one GTL experimental design workshop to develop program goals, research program strategies, and the scientific standards and experimental design under which the GTL Program will operate. Prepare workshop reports that will help DOE-OBER craft Calls for Proposals and also facilitate improved technical relationships between the GTL program goals and the ASCR program goals (e.g. in computational biology and bioinformatics). Participate in other workshops as needed to help develop the DOE Life Sciences Program.
- 4. Using the Shewanella Foundation as a prototype management model, demonstrate coordination of parallel GTL research activities, specifically within the GTL Goal 1 Project, that are efficient, highly productive, and collaborative with a focus on achieving high-impact results. OBER sponsored GTL Workshop-Contractor's Meeting is held each March. PNNL is actively engaged in the workshop with its partner lab, ORNL. Abstracts will be presented by both PNNL and ORNL demonstrating coordinated research endeavors; these jointly published abstracts will be made available.

Modification M412

b. Provide leadership for new fundamental research programs and enabling research resources in the chemical sciences, geosciences, energy biosciences, and material sciences for the Office of Basic Energy Sciences.

<u>Description</u>: This performance indicator includes the following:

- Organize a workshop at the Laboratory involving leaders in catalysis science to specify the
  advanced resources needed to address the grand challenge for catalysis science in the 21st
  Century (to understand how to design catalyst structures to control catalytic activity and
  selectivity) and further develop the concept of a user facility for complex interfacial catalysis.
- Present the report of a workshop held at the Laboratory in September, 2002, entitled
  "Understanding the Role of Water on Electron-Initiated Processes and Radical Chemistry", to
  BES staff and submit a new proposal to BES addressing key scientific objectives identified in
  the workshop report.
- Grow the resident technical framework in the evolving photonics and spintronics areas to
  facilitate innovative fundamental materials research that integrates multidisciplinary, and
  multilaboratory approaches to address critical issues identified by Contractor staff and
  communicated to DOE/BES program officers.
- Enhance the utilization of neutron scattering in geosciences.

<u>Measure</u>: Overall accomplishment of this indicator will be measured by completion of the following:

- 1. Conduct a national laboratory and university workshop on future needs for the fundamental study of catalysis and report results to BES.
- 2. Present the report of a workshop held at PNNL in September, 2002, entitled "Understanding the Role of Water on Electron-Initiated Processes and Radical Chemistry", to BES staff and submit a new proposal to BES addressing key scientific objectives identified in the workshop report.
- 3. Organize a BES supported workshop focused on development and modification of electroactive polymers to implement the development of smart materials that will foster collaborative activities with programs originating from the more applied DOE program offices. Nourish the evolution of fundamental materials research to promote multi-institution interactions and subsequent new programmatic activities pursuant to photonics and spintronics.
- 4. Develop a whitepaper on the use and applications of neutron scattering in the geosciences. The draft whitepaper is to be sent to the Laboratory's BES Geosciences program manager and revisions coordinated with colleagues at LANL and ORNL. A final version shall then be prepared which is suitable for distribution to all principal investigators in the BES Geosciences program and elsewhere.

#### Assistant Secretary for Energy Efficiency and Renewable Energy (EERE):

 Continue development of the joint Microproducts Breakthrough Institute with Oregon State University as a growing regional and national asset.

<u>Description</u>: This goal measures the Contractor's efforts to expand the influence of the Microproducts Breakthrough Institute throughout the Northwest, leading to the development of an industry advisory group for microtechnology product development and collaboration with academia and industry. The two principal purposes for the Microproducts Breakthrough Institute are 1) advancement of the art and science of micro chemical and physical systems, and 2) translation of that microtechnology art and science into commercial products.

<u>Assumptions</u>: The Microproducts Breakthrough Institute (MBI) Implementation Plan is approved jointly by the Contractor and Oregon State University (OSU).

Measures: There are three activities that comprise metrics of progress.

Modification M412

1. Successful hosting of a microtechnology session during the American Association for the Advancement of Science (the most prestigious science organization in the U.S.) conference in February 2004.

- 2. Successful cosponsorship of a Microtechnology Products Development Conference/Workshop with Oregon State University.
- 3. Formation of an industrial advisory group aimed at commercial development of microtechnology products.
- b. Support DOE and USDA goals through continued partnership with WSU in the development of a joint bio-products research agenda to complement the Laboratory capabilities and research, and to assist in furthering WSU in the bio-products research field.

<u>Description</u>: This goal measures the Contractor's ability to partner with WSU and provide leadership and support for the development of the joint bio-products research agenda and to assist WSU in furthering their bio-products research field.

<u>Assumptions</u>: WSU continues to plan to execute development of joint bio-products research agenda at both the WSU Tri-Cities and Pullman campuses.

#### Measures:

- 1. Work with WSU to define bio-products faculty positions supportive of DOE and USDA goals for both WSU Tri-Cities and Pullman. The Contractor will work with WSU to generate a position description and identify potential candidates on or before August 31, 2004.
- 2. Work with WSU to define bio-products research topics and course offerings supportive of DOE and USDA goals for both WSU Tri-Cities and Pullman and identify funding opportunities on or before August 31, 2004.

#### Assistant Secretary for Fossil Energy (FE):

a. Increase the impact and importance of High Temperature Electrochemistry Center (HiTEC) through collaborations and partnerships with universities.

<u>Description</u>: The High Temperature Electrochemistry Center provides cross-cutting multidisciplinary research aimed at developing the advanced electrochemical technologies necessary to integrate the many components required for DOE Fossil Energy's FutureGen Initiative. This goal measures the Contractor's collaborations and partnerships with universities to further the development of scientific resources for solving the energy generation challenges of FutureGen.

<u>Assumptions</u>: Funding from the FY 2004 Congressional Appropriations is available for these collaboration activities.

#### Measures:

- 1. The Laboratory staff provides four (4) or more guest lectures at satellite universities and potential collaborating universities during FY 2004.
  - Note: FY 2003 baseline for providing guest lectures at present and potential collaborating universities is four (4)
- 2. Increase collaborations from FY 2003 baseline with universities to include student and facility participation in HiTEC research activities both at the Universities and at the Laboratory.
  - Note: FY 2003 baseline for increased collaborations with universities is:
    - Collaborations with Montana State University and University of Utah
    - 11 Montana State University or one (1) University of Utah faculty participating in the collaboration.
- 3. Increase the funding to HiTEC satellite universities in FY 2004.

Modification M412

Performance Evaluation: The overall performance rating for this objective will be determined by multiplying the overall value points assigned by each of the program offices/major customers identified above by the weightings identified for each and then summing them (see Table 4.2). Each HQ office will be asked to provide both an adjectival rating and rating value points as outlined within Table 4.3. Should a HQ office only provide an adjectival rating for overall performance (no rating value points provided), the value point scale outlined in Figure I-1 shall apply. The summed value points earned will then compared to Table 4.3 to determine the adjectival rating for this objective. If one or more of the HQ Offices chooses to not provide an evaluation for this objective, then the weighting assigned to those HQ Offices shall be proportionately distributed among the remaining HQ office weights.

Contract Number: DE-AC05-76RL01830 Modification M412

Adjectival Rating	Value Points	Indicator Weight	Total Points	Objective Weight	Total Points
		1000/			
		10076			
	Objectiv	ve 4.2 Total		20%	
		1000/			
		100%			
	Objectiv	e 4.3 Total		40%	
		100%			
	Objectiv	ve 4.4 Total		40%	
		Critica	1 Outcom	ne 4.0 Total	
		Objective	Rating Points Weight  100% Objective 4.2 Total  100% Objective 4.3 Total  100% Objective 4.4 Total	Rating Points Weight Points  100% Objective 4.2 Total  100% Objective 4.3 Total  100% Objective 4.4 Total	Rating   Points   Weight   Points   Weight

Table 4.1 - Research Management and Program Leadership Critical Outcome Performance Rating Development

HQ Program Office/Customers	Adjectival Rating	Value Points	Weight	Weighted Score	Overall Weighted Score
Office of Science			30%		
Office of Defense Nuclear Nonproliferation			20%		
Office of Intelligence			5%		
Office of Counterintelligence			5%		
Department of Homeland Security			10%		
Office of Energy Efficiency and Renewable Energy			10%		
Office of Fossil Energy			10%		
Office of Environmental Management			10%		
				Overall	
				Program	
				Office	
				Total	

Table 4.2. Outcome 4.0, Research Management and Program Leadership Evaluation Score Calculation for Program Offices/Customers

<b>Total Score</b>	4.0 - 3.5	3.4 - 2.5	2.4 - 1.5	1.4 - 0.5	< 0.5
Final Rating	Outstanding	Excellent	Good	Marginal	Unsatisfactory

Table 4.3 - Research Management and Program Leadership Critical Outcome Final Rating

Modification M412

#### III. CONTRACTOR ASSURANCE PROCESS

The Contractor's assurance process is utilized by the DOE as a primary tool to determine if the objectives of the Contractor's management systems and controls are being accomplished and that the systems and controls are effective and efficient. The assurance process is to reflect an understanding of the risks, maintain mechanisms for eliminating or mitigating the risks, and maintain a process to ensure that the management systems and their attendant assurance process(es) meet Contract requirements. The utilization of this process will help meet the desired results of this Contract to "manage the Contract" while streamlining and improving the efficiency and effectiveness of federal line management, focusing on a systems-based approach to federal oversight with increased reliance on the results obtained from the resources resident within the assurance process. The Contractor's assurance process utilizes a number of methods/processes for ensuring management systems and controls are being effectively and efficiently utilize and that the systems and controls are operating as designed. These methods/processes include, but are not limited to:

- The Contractor Self-Assessment Program;
- Internal Audit Program;
- Integrated ES&H Program;
- Integrated Security Program;
- FMFIA Vulnerability Assessments;
- Independent, Nationally Recognized Expert Reviews; and
- Other Outside Agency Reviews

Of the processes identified above the Contractor utilizes self-assessment as a primary mechanism for evaluating the overall effectiveness of its integrated management systems and to promote continuous improvement. A key to the performance-based evaluation process employed by the PNSO is the utilization of self-assessment as a primary tool for evaluation of the Contractor's management systems and controls. Self-assessment plans are developed and maintained by each directorate, in cooperation with both their internal and external (PNSO, HQ, or other) counterparts. These plans cover all aspects of the management and operations of the Laboratory to include, but not limited to, mission areas; ES&H; safeguards and security; facility operations; financial management and cost control; procurement; and human resources. The PNSO works with Contractor counterparts throughout each year to track the progress of the outcomes and objectives set forth within this PEMP and the individual Directorate-level self-assessment plans. This regular interaction is carried out under the principles of partnership and trust that forms the basis of DOE's relationship with the Contractor and is an integral part of federal oversight and Contract management.

The Contractor is required to provide monthly and/or quarterly updates (as appropriate) on the performance against the PEMP. The Contractor shall provide a formal status briefing at mid-year and year-end, and a formal self-evaluation report to the PNSO at year-end. Specific due dates for the above-mentioned briefings and reports shall to be agreed to by the PNSO Manager and the Laboratory Director.

In addition, the year-end report must provide:

- an overall summary of performance for FY 2004,
- performance ratings for each outcome, objective, and indicator and the Laboratory overall, and
- a summary of key strengths and opportunities for improvement identified as part of the directorate selfassessment activities.

As evidenced above the self-assessment program is a key component of the assurance process; however, as also mentioned above the Contractor utilizes a number of methods/processes for ensuring management systems and controls are being effectively and efficiently utilize and that the systems and controls are operating as designed. For example the Contractor Internal Audit program provides scheduled reviews of specific aspects of various management systems and controls as well as special reviews in areas of specific interest/concern as necessary. Also, independent, national recognized expert, reviews such as ISO 14001, and VPP, as well as, other outside agency reviews are utilized to further verify that systems are meeting requirements. All of these processes and reviews are utilized by the PNSO and HQ program offices in

Modification M412

evaluating the Contractor and assuring that all contract requirements are being met. Furthermore, as discussed within Section I of this PEMP, information gained from these activities/reviews will be utilized to adjust, as appropriate, the otherwise earned rating and/or fee based on the achievement of the critical outcomes, objectives, and corresponding indicators set forth within Section II of this plan.

Modification M412

# Part III – List of Documents, Exhibits, And Other Attachments

# **Section J**

# Appendix F

**Radiochemical Processing Laboratory Authorization Agreement** 

Modification M412

# Radiochemical Processing Laboratory Authorization Agreement Between U.S. Department of Energy, Richland Operations Office And Battelle Memorial Institute, Operator of the Pacific Northwest National Laboratory

#### 1. Purpose

This Authorization Agreement (AA) serves as a mechanism whereby the U.S. Department of Energy (DOE), Richland Operations Office (RL) and Battelle Memorial Institute (Battelle), operator of the Pacific Northwest National Laboratory (PNNL), jointly agree to the conditions for conducting work safely and efficiently in the Radiochemical Processing Laboratory (RPL), also known as the 325 Building.

Work must be accomplished in a manner that achieves high levels of quality, protects the environment, the safety and health of workers and the public, and is compliant with applicable contractual and regulatory requirements. The intent of the AA is to address significant elements important to establishing and supporting the RPL Authorization Envelope (AE). The AA will be incorporated as an Appendix to Battelle's prime Contract (DE-AC05-76RL01830).

#### 2. Scope of Authorization

The AA applies to the scope of work authorized by DOE in the RPL Nuclear Safety Basis, RPL Safety and Health Requirements Basis, and RPL Environmental Basis.

#### 3. Authorization Envelope

The RPL AE establishes the limits of safe operation for all RPL activities. These limits are based on documented design limitations, controls, regulatory requirements, and assumptions or commitments that are required and based on identified hazards associated with the RPL facility and operations. The AE includes the RPL Nuclear Safety Basis as required by 10 CFR 830.202, "Safety Basis" and applicable environmental, safety, and health requirements.

The RPL AE includes those documents listed in Sections 3.1, 3.2, and 3.3 of this AA. Battelle will maintain the documents under a disciplined configuration management program. Because the RPL is a research and development facility, the work conducted in the facility frequently changes consistent with programmatic objectives. However, the activities performed in RPL will be performed within the physical boundaries (i.e., systems, structures, and components) defined in the AE defined in this section.

This agreement will be reviewed at least every two years and updated as necessary. This AA will be revised if new documents are added to or existing documents are deleted from the listings in Sections 3.1, 3.2, and 3.3. Revisions or updates to the listed documents will not

Modification M412

cause this AA to be revised until the scheduled review and revision date.

#### 3.1 RPL Nuclear Safety Basis:

- PNNL-SAR-RPL, "Safety Analysis Report for the Radiochemical Processing Laboratory," and approved revisions and/or amendments thereto;
- PNNL-TSR-RPL, "Technical safety Requirements for the Radiochemical Processing Laboratory," and approved revisions and/or amendments thereto; and
- Safety Evaluation Report(s), and revisions and/or amendments thereto, on the PNNL-SAR-RPL or PNNL-TSR-RPL.

#### 3.2 RPL Safety and Health Requirements Basis:

- Attachment A to this agreement, "List of DOE Directives Uniquely Applicable to RPL Operations," and Battelle's prime Contract, DE-AC05-76RL01830, Section J, Appendix D, "List of Applicable DOE Directives and External Requirements", and subsequent approved revisions, constitutes the safety and health requirements basis. Authorized deviations for RPL from the "List of DOE Directives Uniquely Applicable to RPL Operations" will be documented by Battelle and approved by DOE through a change to this agreement, or through Exemption Requests, Compliance Schedule Agreements, or Implementation Plans, as appropriate. New or revised requirements to the "List of DOE Directives Uniquely Applicable to RPL Operations" will be incorporated into this agreement as negotiated with DOE.
- RPL Facility Use Agreement, as approved and amended by Battelle.

#### 3.3 RPL Environmental Basis:

State, Federal, or local government environmental permits obtained in the name of DOE or Battelle that include provisions applicable to the RPL facility and/or activities. Environmental permits are obtained in accordance with the Clean Air Act, Clean Water Act, Resource Conservation and Recovery Act, and other applicable requirements.

#### A. Dangerous Waste Permit:

- Dangerous Waste Portion of the Hanford Site Resource Conservation and Recovery Act Permit No. WA7890008967, and any approved modifications. Note: The Dangerous Waste Permit Application for the RPL is included in Attachment 36 of the above document: 325 Hazardous Waste Treatment Units Part A, Form 3 and Part B Permit Application, DOE/RL-92-35.
- Hazardous and Solid Waste Amendment portion of the Hanford Site Resource Conservation and Recovery Act Permit No. WA7890008967, and any approved

Document Number: DE-AC05-76RL01830 Modification M412

modifications

#### B. Radioactive Air Emissions:

• State of Washington, Department of Health, Hanford Site Air Operating Permit, Radioactive Air Emissions Permit, Ecology Publication #00-05-006.

#### C. State of Washington Water Discharges:

- Hydrotest, Maintenance, and Construction Discharges to Ground (ST-4508)
- Cooling Water and Condensate Discharges to Ground (ST-4509)
- Storm Water Discharges to Ground (ST-4510)

#### D. Chemical Air Emissions

- State of Washington, Department of Ecology, Hazardous Waste Treatment Unit & Building Emissions Permit #DNWP-004
- State of Washington, Department of Ecology, Hanford Site Air Operating Permit, Radioactive Air Emissions Permit, Ecology Publication #00-05-006.

#### 4. Terms and Conditions

The RPL facility and activities are subject to the terms and conditions as identified in Battelle's prime Contract, including Section C – "Description/Specifications/Statement of Work" and Section H – "Special Contract Requirements." The following RPL-specific activities are required by Battelle's prime Contract:

- Implement and maintain the RPL Nuclear Safety Basis consistent with the facility configuration (hardware, procedures, and organization) through an approved Unreviewed Safety Question process compliant with the requirements of 10 CFR 830.203, "Unreviewed Safety Question Process," for the nuclear safety basis documents listed in Section 3.1 above.
- Follow all applicable federal, state, and local statutes, regulations, rules, ordinances (collectively, "Laws"), and permit conditions, unless the appropriate oversight authority grants a waiver or exemption.
- Implement and maintain an approved Quality Assurance program consistent with 10 CFR 830, Subpart A, "Quality Assurance Requirements."
- Implement and maintain an approved Radiation Protection program consistent with 10 CFR 835, "Occupational Radiation Protection."

Modification M412

 Perform an operational readiness review or a readiness assessment in accordance with DOE CRD O 425.1B prior to restart of the RPL following 1) DOE management directed unplanned shutdown for safety reasons, 2) shutdown because operations are outside the nuclear safety basis, and/or 3) shutdown for greater than twelve months. In the event of a major modification, a Battelle-prepared and DOE-approved Preliminary Documented Safety Analysis (PDSA) is required by 10 CFR 830, Subpart B. The PDSA associated with the modification would address restart requirements, including those associated with DOE CRD O 425.1B.

• Evaluate the need for performing an operational readiness review or readiness assessment prior to startup or restart of program work when the new or restarted program work requires revision to the RPL DSA or RPL TSRs as a result of a positive unreviewed safety question.

New or revised terms and conditions will be incorporated into this agreement as negotiated between Battelle and DOE. Battelle will evaluate new or revised terms and conditions as part of the Requirements Management process to identify any impacts to this agreement. Authorized deviations for RPL will be documented by Battelle and approved by DOE through a modification to this agreement, Exemption Requests, Compliance Schedule Agreements, or Implementation Plans, as appropriate.

If Battelle discovers a deviation or noncompliance with the documents listed or referenced by Section 3 of this AA, Battelle will take the actions noted in the applicable document(s). This AA does not impose any new actions to be taken by Battelle.

#### 5. Contractor Qualifications

DOE has determined through the performance of management assessments, the validation of Battelle's Integrated Environment, Safety, and Health Management System, and performance of readiness reviews and programmatic reviews that Battelle is technically qualified to engage in the activities authorized by this agreement and provides adequate protection of the workforce, the public, and the environment.

### 6. Effective Date and Expiration Date

This AA becomes effective upon the date of signature by both Parties and will remain in effect until rescinded or revised in writing by both Parties, or shall expire upon expiration or termination of Contract DE-AC05-76RL01830.

This AA supersedes all prior RPL AAs, as amended, and all such prior AAs are specifically rescinded by mutual agreement.

Modification M412

# 7. Statement of Agreement

This agreement is subject to the conditions specified herein, and DOE and Battelle each agree to the conditions contained herein. The terms of this AA, if breached in any manner by any party, shall not subject the breaching party to any liabilities, fines, or penalties not already imposed under the terms and conditions of Battelle's prime Contract and current statutes, rules, regulations and ordinances.

Signed By:	
Leonard K. Peters	Keith A Klein, Manager
Director	Richland Operations Office
Pacific Northwest National Laboratory	U.S. Department of Energy
Date:	Date:

Modification M412

# Attachment A List of DOE Directives Uniquely Applicable to RPL Operations

CRD O 151.1A	Comprehensive Emergency	Safeguards, Security, and
	Management System	Emergency Preparedness
		Management System
DOE-0223	RL Emergency Implementing	Safeguards, Security, and
	Procedures	Emergency Preparedness
		Management System
CRD O 433.1	Management Program for Nuclear	Facility Management
	Facilities	
CRD O 460.1B	Packaging and Transportation Safety	Environmental
CRD M 460.2-1	Radioactive Material Transportation	Environmental
	Practices Manual	
CRD O 460.2,	Departmental Material Transportation	Environmental
Chg 1	and Packaging Management	
CRD O 5480.19,	Conduct of Operations Requirements	Facility Management
Chg 2	for DOE Facilities	
CRD O 5480.20A,	Personnel Selection, Qualification,	Training and Qualification
Chg. 1	Training and Staffing requirements at	
-	DOE Reactor and Non-Reactor Nuclear	
	Facilities	

Modification M412

# PART III – List of Documents, Exhibits, And Other Attachments

**Section J** 

Appendix G

DOE Research and Development Bilateral And Multilateral Agreements

Modification M412

# Office of Policy and International Affairs

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description					
Cou	ntry:	<u>Argentin</u>	<u>a</u>											
61	407	8/1/1996	8/1/2001	Primary DOE			None	Energy Research and Development	Energy Technology Cooperation					
	Title: Specific Arrangement between the Department of Energy of the United States of America and the Public Works and Services Secretariat of the Argentine Republic in the Area of Energy Technology Cooperation													
Comment: Energy Forecasting meeting was hosted by FE in Oct. of 97. Seminar on New Technologies for the Energy Sector was held in Buenos Aires in Dec 98. EERE has work on energy efficiency and renewable projects started under a statement of intent which was a precursor to this agreement. In Dec of 97 four priority areas of work were identified - energy efficiency, energy and environment, energy planning, and renewable energy by then Secretaries of Energy.														
62	409	10/16/199	10/16/200	Primary DOE			None	Arms Control and Nonproliferation	Nuclear Technologies					
	Title: Implementing Arrangement between the Department of Energy of the United States of America and the National Atomic Energy Commission of the Argentine Republic for Technical Exchange and Cooperation in the area of Peaceful Uses of Nuclear Energy													
Con		1	_	ement supporting Article advanced fuels.	IV of the N	PT. Exi	sting annexes cover w	ork in Molybdenum-99 production for LEU, boron neu	tron capture therapy, decontamination and					
475	431	4/13/1998	10/16/200	Secondary DOE		62	Primary DOE	Arms Control and Nonproliferation	Annex 1 - LEU Moly-99 production					
	Title:	Project Annex	1 Cooperat	ion in the Field of Moly	bdenum-99	Produc	tion from Low-Enrich	ned Uranium						
Con	ıment:	In force as long	g as the Impl	ementing Arrangement.	Action shee	ets are ur	nder development.							
521	431	2/8/1999	2/8/2003	Tertiary DOE		475	Secondary DOE	Nuclear Energy	Action Sheet 1 - Project Annex 1					
				Project Annex 1 for Co y of Chicago, as Operate				9 Production for Low-Enriched Uranium between the	National Atomic Energy Commission of he Argentine					
Con	ıment:													
476	431	4/13/1998	10/16/200	Intergovernmental		62	Primary DOE	Arms Control and Nonproliferation	Annex 2 - Boron Neutron Capture Therapy					
	Title:	Project Annex	2 Cooperat	ion in the Area of Boron	n Neutron C	Capture	Therapy							
Con	ıment:	In force as long	g as the Impl	ementing Arrangement.	Expert visit	ts are un	derway.							
503	431	8/11/1998		Tertiary DOE		476	Secondary DOE	Arms Control and Nonproliferation	Action Sheet 1					
	Title:	Action Sheet 1	Pursuant to	Project Annex 2 Coope	ration in th	e Field	of Boron Neutron Cap	pture Therapy						
Con	ıment:	Technical exch	ange visits.											

Modification M412

# All In Force Bilateral Agreements

ID	E:lo#	Start Date	End	A guan mant Tyma	Legally	Parent		Subject	Duigf Description				
ID	File#	Date	Date	Agreement Type	Binding	ID	Parent Type	Subject	Brief Description				
477	431	4/13/1998	10/16/200	Secondary DOE		62	Primary DOE	Arms Control and Nonproliferation	Annex 3 - D&D of Nuclear Facilities				
	Title:	Project Annex	3 Cooperat	ion in the Field of Deco	ntaminatio	n and D	ecommissioning of Ni	uclear Facilities					
Con	Comment: In force as long as the Implementing Arrangement. Workshop was successfully held in fall of 98 at ANL.												
496	431	8/18/1998	10/16/200	Secondary DOE		62	Primary DOE	Arms Control and Nonproliferation	Annex 4 - Advanced Fuels				
	Title: Project Annex 4 Cooperation in Field of Low Enriched Uranium Advanced Fuels												
Con	Comment: Remains in force as long as the Implement Arrangement. Action sheets are under development.												
555	431	2/8/1999	2/8/2003	Tertiary DOE		496	Secondary DOE	Arms Control and Nonproliferation	Action Sheet 1 Annex 4, Dart Code Development				
	Title: Action Sheet I Pursuant to Project Annex 4 for Cooperation in the Field of Low Enriched Uranium Advanced Fuels between the National Atomic Energy Commission of the Argentine Republic (CNEA) and the University of Chicago, as Operator of Argonne National Laboratory												
Con	nment:												
63	331	4/18/1994	4/18/2004	Primary DOE			None	Arms Control and Nonproliferation	International Safeguards Applications				
								gy Commission of Argentina Concerning Research and Do ce Technology for International Safeguards Applications	evelopment in Nuclear Material Control,				
Con				elopment, testing, and eva surveillance technologies				ocedures in order to improve nuclear material control, account	ntancy, verification, physical protection and				
64	387	5/29/1996	5/29/2006	Primary DOE			None	Environmental Restoration and Waste Management	Radioactive and Mixed Waste Management				
	Title: Implementing Arrangement between the Department of Energy of the United States of America and the National Atomic Energy Commission of the Argentine Republic for Technical Exchange and Cooperation in the Area of Radioactive and Mixed Waste Management												
Con	<b>Domment:</b> Study radioactive and mixed waste management activities in such areas as: preparation and packaging; decontamination and decommissioning; surface and subsurface storage; characterization of geologic formations; disposal in geologic formations, etc.												

#### Country: Australia

509 456 9/15/1998 9/14/2008 Primary DOE None Arms Control and Nonproliferation Safeguards Arrangement

Title: Arrangement between the United States Department of Energy and the Australian Safeguards and Nonproliferation Office Concerning Research and Development in Nuclear material Control Accountancy, Verification, Physical Protection, Advance Containment and Surveillance Technologies for International Safeguards

**Comment:** 

# Country: Austria

Thursday, July 17, 2003 Page 2 of 42

Cooperation in Nuclear Energy

Modification M412

#### **All In Force Bilateral Agreements**

		Start	End		Legally	Parent			
ID	File#	Date	Date	Agreement Type	Binding	ID	Parent Type	Subject	<b>Brief Description</b>

337 9/18/1994 Primary DOE None Energy Efficiency and Renewable Energy EE/Conservation and Climate Change

Title: Memorandum of Understanding on Cooperation in Environmental Aspects of Energy Policy and the Protection of Global Climate

Comment: Cooperate in areas of sufficient growth of energy supplies; energy efficiency and conservation measures and protection of the biosphere (climate change).

#### Country: Bangladesh

501 450 12/15/199 Statement of Intent None Energy Research and Development SOI in Enregy Cooperation

Title: Joint Statement of Cooperation in Energy

**Comment:** 

514 460 2/11/1999 2/11/2004 Primary DOE None Information and/or Personnel Exchange Exchange of Energy Information

Title: Arrangement between the Department of Energy of the United States of America and the Ministry of Energy and Mineral Resources, Government of the People's Republic of Bangladesh for Exchange

of Energy Information

Comment: EIA will work with an agency designated by MEOMR to establish a reasonably balanced exchange of energy information.

# Country: Botswana

600 495 12/15/200 Statement of Intent None Fossil Energy Cooperation in the Field of Fossil Energy

Title: Statement of Intent Between The Department of Energy of the United States of America and The Ministry of Minerals, Energy and Water Affairs of the Republic of Botswana for Cooperation in the Field of Fossil Energy Technology

Comment:

## Country: Brazil

26 391 9/30/1996 Statement of Intent None Fossil Energy Clean Coal Technologies

None

Title: Joint Statement of Intent on Clean Coal Technologies between the Department of Energy of the United States of America and the State of Rio Grande do Sul and the State of Santa Catarina, and the Sindicato Nacional da Industria da Extracao do Carvao, Eletrabras, and the Ministry of Mines and Energy of the Federal Republic of Brazil

Science and Technology

Comment: Intention to cooperate between DOE, the State of Rio Grande do Sul, the State of Santa Catarina, The Sindicato National da Industria da Extracao do Carvao, Electrobras, and the Ministry of Mines and Energy of Brazil in clean coal technologies.

6/20/2003 6/20/2008 Primary DOE

Title: Agreement between the Department of Energy of the United States of America nd the Ministry of Science and Technology of the Federative Republic of Brazil Concerning Cooperation in Nuclear Energy

**Comment:** 

550

655

Thursday, July 17, 2003

Page 3 of 42

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description				
75	412	10/14/199	10/14/200	Primary DOE			None	Energy Research and Development	Energy Technology				
	Title:	Implementing	Arrangemei	nt between the United St	ates of Ame	erica ana	l the Federative Repu	blic of Brazil for Cooperation in the Area of Energy Tech	nology				
Cor	nment:	Umbrella Agre	eement										
279	412	10/14/199	10/14/200	Secondary DOE		75	Primary DOE	Fossil Energy	Annex 1 - Coal and Power Systems				
Title: Annex I to the Implementing Arrangement between the United States of America and the Federative Republic of Brazil for Cooperation in the Area of Energy Technology in the Field of Coal and Power Systems													
Comment: Exchange experience and views on clean coal technologies, advanced power systems, advanced coal preparation, and environmental monitoring technologies and standards.													
280	412	10/14/199	10/14/200	Secondary DOE		75	Primary DOE	Energy Efficiency and Renewable Energy	Annex 2 - Renewable Energy				
	Title: Annex II to the Implementing Arrangement between the United States of America and the Federative Republic of Brazil for Cooperation in the Area of Energy Technology in the Field of Renewable Energy												
Cor	Comment: Collaboration on renewables resource assessment, integration in electric utility, policy analysis, and identification of opportunities for renewable energy in Brazil.												
281	412	10/14/199	10/14/200	Secondary DOE		75	Primary DOE	Energy Efficiency and Renewable Energy	Annex 3- Energy Efficiency				
	Title:	Annex III - to Efficiency	the Impleme	enting Arrangement bety	veen the Ui	nited Sta	tes of America and th	e Federative Republic of Brazil for Cooperation in the Ar	ea of Energy Technology in the Field of Energy				
Cor	nment:	Collaboration	to increase er	nergy, efficiency, promot	e global en	vironme	ntal protection, and sti	mulate the market in Brazil for energy efficiency goods and	services.				
76	332	4/18/1994	4/18/2004	Primary DOE			None	Arms Control and Nonproliferation	International Safeguards Applications				
	Title:							gency for Accounting and Control of Nuclear Materials C Technologies for International Safeguards Applications	Concerning Research and Development in Nuclear				
Cor	nment:												
77	376	9/19/1995	9/19/2000	Primary DOE			None	Arms Control and Nonproliferation	International Safeguards Applications				
								rgy Commission of Brazil Concerning Research and Deve villance Technologies for International Safeguards Applic					
Cor	nment:												
651	546	9/17/2001	9/17/2006	Secondary DOE		77	Primary DOE	Arms Control and Nonproliferation	Extension - Agreement bet. DOE and the National Nuclear Energy Commission				
	Title:							s and the National Nuclear Energy Commission of Brazil ontainment and Surveillance Technologies for Internation					
Cor	nment:	5- year extens	ion										

# Country: <u>Canada</u>

Modification M412

# **All In Force Bilateral Agreements**

ID	File	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	<b>Brief Description</b>
28	363	7/21/1995		Statement of Intent		21	Broad	Energy Efficiency and Renewable Energy	Building Energy Simulation Tools
	Title	: Statement of I	Intent betwee	n the United States Depo	ertment of	Energy a	nd the Department o	f Natural Resources of Canada on Building Energy	Simulation Tools
Cor	nment	: Collaborate in	building ener	rgy simulation R&D and	informatio	n dissem	ination.		
614	509	10/22/200	10/22/200	Primary DOE			None	Energy Efficiency and Renewable Energy	Arrangement between DOE and Dept. of Natural Resources Canada
	Title	: Implementing and Communi			nt of Ener	gy of the	United States of Ame	rica and the Department of Natural Resources Can	ada for Cooperation in the areas of Microgeneration
Cor	nment	•							
632	527	5/10/2000	5/10/2005	Primary DOE			None	Science and Technology	Cooperation in the area of Bioenergy
	Title	: Implementing	Arrangemen	nt between the United St	ates Depart	tment of	Energy and the Depa	rtment of Natural Resources of Canada for Coopera	ation in the area of Bioenergy
Cor	nment	:							
656	551	6/17/2003	6/17/2008	Primary DOE			None	Nuclear Energy	Nuclear Energy Research
Сог		area of Nuclea	ır Energy Re		•	v		·	Energy of Canada Limited for Collaboration in the
81	425	3/18/1998	3/18/2008	Primary DOE			None	Energy Research and Development	Energy R&D
	Title	: Memorandum Development	of Understa	nding between the Depa	rtment of l	Energy of	f the United States of	America and the Department of Natural Resources	of Canada on Collaboration in Energy Research and
Cor	nment	: Establish wide	er areas of coo	operation for mutual bene	efit				
524	469	2/1/2000	2/1/2005	Secondary DOE		81	Primary DOE	Fossil Energy	DOE/NRCan Fuel Cells Implementing Arrangement
	Title	: Implementing	Arrangemen	nt between the Departme	nt of Energ	gy of the	United States of Ame	rica and the Department of Natural resources Cana	da for Cooperation in the area of Fuel Cells
Cor	nment	: Automatic Rea	newal after 5	years with written agreer	nent of the	participa	nts.		
525	470	2/1/2000	2/1/2005	Secondary DOE		81	Primary DOE	Fossil Energy	DOE/NRCan Fossil Fuels Implementing
	Title	: Implementing	Arrangemen	nt between Department o	f Energy o	f the Uni	ited States of America	and the Department of Natural Resources Canada	for Cooperation in the area of Fossil Fuels
Cor	nment	: Automatic ren	ewal for 5 ye	ars with written agreeme	nt of the pa	rticipant	5.		

Annex 2 - Mine Safety and Health

Page 6 of 42

Modification M412

# **All In Force Bilateral Agreements**

223 9/28/1987 4/30/2001 Secondary DOE

**Comment:** Co-terminates with the Protocol

Thursday, July 17, 2003

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	<b>Brief Description</b>				
646	541	9/11/2002	9/11/2007	Tertiary DOE		525	Secondary DOE	Fossil Energy	Project Annex I - Weyburn CO2 Sequestration				
				n CO2 Sequestration Properation in the Area of I			ementing Arrangeme	nt Between the Department of Energy of the United	States of America and the Department of Natural				
Con	nment:												
27	341	11/18/199		Statement of Intent		21	Broad	Energy Efficiency and Renewable Energy	Biennial Biomass Conf. of the Americas				
	Title:	Statement of	Intent between	n the United States Depo	artment of	Energy a	and the Department of	Mines and Resources on Biennial Biomass Confer	ence of Americas				
Con	Comment: Collaborate in a biennial conference to present the latest results in biomass energy research and development.												
Cou	ntry:	<u>Chile</u>											
35	352	3/7/1995		Statement of Intent			None	Energy Efficiency and Renewable Energy	Control Emissions of Greenhouse Gases				
				stainable Development C National Energy Commis			nt Implementation of	Measures to Control Emissions of Greenhouse Gas	es Between the Department of Energy of the United				
Con				opment of joint impleme ion and training program	1 3	ects in o	rder to encourage: ma	rket deployment of greenhouse gas-reducing technol	ogies, including energy efficiency and renewable				
474	430	4/18/1998	4/12/2000	Statement of Intent			None	Energy Efficiency and Renewable Energy	Natural Gas-Powered Bus Pilot Project				
	Title:	Statement of	Intent Concer	rning the Natural Gas-P	owered Bu	s Pilot P	roject in the Metropol	itan Region of Chile					
Con	ıment:	Signed in San	tiago, Chile, d	luring the SOAII									
Cou	ntry:	<u>China</u>											
1	427	1/31/1979	4/30/2001	Intergovernmental			None	Science and Technology	Gov't to Gov't S&T				
	Title:	Agreement be	tween the Go	vernment of United Stat	tes of Amer	ica and i	the Government of Pe	ople's Republic of China on Cooperation in Science	e and Technology				
Con	ıment:	Need copy of	agreement										
238	123	5/11/1983	4/30/2001	Primary DOE		1	Intergovernmental	Fusion Energy	Protocol on Nuclear Physics and Magnetic Fusion				
				rtment of Energy of the gnetic Fusion Research	United Sta	tes of An	nerica and the Ministr	y of Science and Technology of the People's Repub	lic of China on Cooperation in the Fields of Nuclear				
Con	nment:	Cooperate in p	promoting eac	ch other's program in Nuc	clear Physic	s and Co	ontrolled Magnetic Fus	ion. Co-terminates with umbrella S&T agreement.					

Title: Annex II to the Protocol on Cooperation in the Field of Fossil Energy Research and Development between the Department of Energy of the United States of America and the Ministry of Coal Industry of the People's Republic of China in the Area of Mine Safety and Health

Fossil Energy

239 Primary DOE

Contract Number: DE-AC05-76RL01830 Modification M412

# **All In Force Bilateral Agreements**

Comment: Co-terminates with the Protocol

ID	File	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description				
291	217	8/19/1987	4/30/2001	Secondary DOE		239	Primary DOE	Energy Research and Development	Annex 3 - Atmospheric Trace Gasses				
	Title	: Annex III to t	he protocol o	n fossil energy R&D on	Cooperation	on in the	field of atmospheric	trace gases					
Cor	mment	: Co-terminates	with the Prot	ocol									
292	226	10/13/198	4/30/2001	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 4 - Coal Preparation & Waste Stream Utilization				
	Title: Annex IV to protocol on cooperation in field of fossil energy R&D between U.S. Department of Energy & Ministry of Coal Industry of the People's Republic of China in the area of coal preparation and waste stream utilization												
Cor	Comment: TASKS PLANNED WERE COMPLETED IN 10/90. DISCUSSIONS ON POSSIBLE FURTHER COOPERATION IN COAL PREP. Co-terminates with the Protocol												
293	227	10/13/198	4/30/2001	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 5 - Atmospheric Fluidized Bed Combustion Info Exchange				
	Title: Annex V to protocol on cooperation in field of fossil energy R&D between U.S. Department of Energy - Ministry of Coal Industry of the People's Republic of China in the area of atmospheric fluidized bed (AFB) combustion information exchange												
Cor	Comment: EXCHANGE OF REPORTS AND DATA. Co-terminates with Protocol												
296	349	2/23/1995	2/23/2000	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 11 - Coal Bed Methane Recovery and Utilization				
	Title			or Cooperation in the Fi China for Cooperation i				lopment between the Department Energy of the United or y and Utilization	States of America and the Ministry of Coal Industry				
Coi	mment			economic cooperation in al gas energy resources.	coal bed m	ethane re	ecovery and utilization	n technology in order to make positive contributions towa	rd improving recovery efficiency and utilization				
297	348	2/23/1995	2/23/2000	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 12 - Regional Climate Research				
	Title							elopment between the Department Energy of the United h with the China Meteorological Administration	States of America and the Ministry of Coal Industry				
Cor	mment	: Establish a pro	ogram of joint	R&D and information e	xchange to	documer	nt regional climate and	d climate change, to predict regional climate and climate	change and to identify regional impacts of climate				
485	439	11/14/199	11/14/200	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 13 - Fossil Fuel Utilization				
	Title			for Cooperation in the public of China in the A				welopment between the Department of Energy of the Un tion of Chemicals	ited States of America and the Ministry of Coal				
Cor	mment	: Co-terminiates	s with Protoco	ol									
298	413	11/14/199	11/14/200	Secondary DOE		239	Primary DOE	Fossil Energy	Annex 14 - Bilateral Consultations on Coal Industry				
	298 413 11/14/199 11/14/200 Secondary DOE 239 Primary DOE Fossil Energy Annex 14 - Bilateral Consultations on Coal Industry  Title: Annex XIV to the Protocol for Cooperation in the field of Fossil Energy Research & Development between the Department of Energy of the United States of America and the Ministry of Coal Industry of the People's Republic of China on Bilateral Consultations and Exchanges on Coal Industry Development and Information												

Contract Number: DE-AC05-76RL01830 Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description		
618	513	12/7/2000	12/7/2005	Secondary DOE		239	Primary DOE	Fossil Energy	Annex III - for Cooperation in the areas of Oil and		
	Title			for Cooperation in the F of the People's Republi					ergy of the United States of America and The Ministry		
Con	nment:										
240	351	2/23/1995	2/22/2005	Primary DOE		1	Intergovernmental	Energy Efficiency and Renewable Energy	Protocol for Energy Efficiency and Renewable		
	Title	Title: Protocol for Cooperation in the Fields of Energy Efficiency and Renewable Energy Technology Development and Utilization between the Department of Energy of the United States of America and the Ministry of Science and Technology of the People's Republic of China									
Con	nment:			energy consultations by and technologies.	forming a C	hinese-A	merican Ministerial V	Working Group to enhance the understanding of energy	issues and promote the exchange of information on		
478	432	6/27/1995	6/27/2000	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 1 - 100 Counties Renewable Energy		
	Title	Technology of	the People's	Republic of China for I	Developing	Coopera	tive Activities in the A	Energy between the Department of Energy of the Unit Area of Renewable Energy Under the Hundred Count of Agriculture of the People's Republic of China	ed States of America and the Ministry of Science and ies Integrated Rural Energy Development Program in		
Con	nment:	Remains in for	rce for five ye	ears or until termination	of the Proto	col, whic	hever occurs first				
299	420	10/25/199	10/25/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 2 - Wind Energy Development		
	Title	of China ANN	EX II under		ation in the	Fields o	of Energy Efficiency (	and Renewable Energy Technology Development and	he Ministry of Electric Power of the People's Republic Utilization between the Department of Energy of the		
Con	nment:	Remains in for	rce for five ye	ears or until termination	of the Proto	col, whic	hever occurs first.				
300	422	10/25/199	10/25/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 3 - Energy Efficiency		
	Title	America and	the State Scie		mmission o	of the Pe	ople's Republic of Ch	le Energy Technology Development and utilization be ina for Cooperation Between the Department of Ener	tween the Department of Energy of the United States of cy of the United States of America and the State		
Con	nment:	Remains in for	rce for five ye	ears or until termination	of the Proto	col, whic	chever occurs first				
301	421	10/25/199	10/25/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 4 - Renewable Energy Business Development		
	Title	Renewable Er People's Repu			( IV Coopei	rative Ac	tivities between the D	epartment of Energy of the United States of America	and the State Economic and Trade Commission of the		
Con	nment:	Remains in for	rce for five ye	ears or until termination	of the Proto	col, whic	hever occurs first				
302	414	11/18/199	11/18/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 5 - Electric Vehicle Development		
	Title							l Technology of the People's Republic of China for Co Hybrid-Electric Vehicle Development	poperation in the Field of Energy Efficiency and		
Con	nment:	Remains in for	rce for five ye	ears or until termination	of the Proto	col, whic	hever occurs first.				

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
303	415	11/18/199	11/18/200	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 6 - Geothermal Production and Use
		China Annex	VI under The		on in the Fi	eld of E	nergy Efficiency and r	of the United States of America and the Ministry of Scienc enewable Energy Technology Development and Utilizatio lic of China	
Con	ment:	Remains in for	rce for five ye	ears or until termination	of the Proto	col, whi	chever occurs first.		
490	443	7/9/1998		Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Design Criteria for Energy Efficient Building
	Title:	Statement of	Work between	n the Department of Ene	ergy of the	United S	tates of America and t	the Ministry of Science and Technology of the People's R	epublic of China
Con	ment:								
563	486	5/11/2000	5/11/2005	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex 7 - Renewable Energy Policy and Planning
		Renewable En People's Repu			I Cooperati	ive Activ	ities between Departm	ent of Energy of the United States of America and the Sta	te Development Planning Commission of the
Con	ment:	Remains in for	rce for five ye	ears or until termination	of the Proto	col, whi	chever occurs first.		
616	511	7/18/2001		Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Design Criteria for Energy Efficient Building
	Title:	Amendment to	o The Statem	ent of Work of July 9, 1	998 betwee	n The D	epartment of Energy o	of the United States of America and The Ministry of Scien	ce and Technology of the People's Republic of
Con	ment:								
621	516	2/12/2002	2/12/2007	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex II - The State Power Corporation of China
								ciency and Renewable Energy Technology Development a nd the State Power Corporation of China	nd Utilization for Cooperative Activities in Wind
Con	ment:								
622	517	2/12/2002	2/12/2007	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex III - State Planning Commission
								Energy Efficiency and Renewable Energy Technology D merica and the State Planning Commission of the People	
Con	ment:								
623	518	2/12/2002	2/12/2007	Secondary DOE		240	Primary DOE	Energy Efficiency and Renewable Energy	Annex IV - State Economic and Trade Commission
								Energy Efficiency and Renewable Energy Technology Do the United States of America and the State Economic an	
Con	ment:								
241	38	1/31/1979	4/30/2001	Primary DOE		1	Intergovernmental	High Energy Physics	High Energy Physics
		Implementing Physics.	Accord betw	veen the U.S. Departmen	nt of Energy	and the	State Scientific and T	Fechnological Commission of the People's Republic of Ch	ina on Cooperation in the Field of High Energy
Con	ment:	Co-Terminates	s with the S&	cT Agreement					

Contract Number: DE-AC05-76RL01830 Modification M412

# All In Force Bilateral Agreements

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
242	311	11/4/1992	11/4/2002	Primary DOE		1	Intergovernmental	High Energy Physics	Superconducting Super Collider
	Title:	Implementing	Accord betw	veen the U.S. Departmen	t of Energy	y and the	Chinese Academy of	Sciences for a Program of Collaboration on the Superco	nducting Super Collider
Cor	nment:								
522	467	1/12/2000	1/12/2005	Primary DOE		1	Intergovernmental	Information and/or Personnel Exchange	Exchange of Energy Information
	Title:	Protocol for C Republic of C		Concerning the Exchang	e of Energ	y Inform	ation between the De	partment of Energy of the United States of America and to	he National Bureau of Statistics of the People's
Cor	nment:								
531	476	4/20/2000	4/30/2001	Primary DOE		1	Intergovernmental	Fossil Energy	Fossil Energy Protocol
	Title:			n the Field of Fossil Ene Republic of China	ergy Techn	ology De	evelopment and Utilize	ation between the Department of Energy of the United Sta	tes of America and the Ministry of Science and
Cor	nment:	Remains in for	rce for 5 year	s from date of signature of	or as long a	s the Um	brella Agreement (US	S-China S&T) remains in force, whichever is shorter.	
649	544	11/19/200	11/19/200	Secondary DOE		531	Primary DOE	Fossil Energy	Annex II - Cooperation in the area of Clean Fuels
	Title:			n Cooperation in the Fie of the People's Republic				ment and Utilization between The Department of Energy of f Clean Fuels	of the United States of America and The Ministry
Cor	nment:								
3	410	10/29/199		Intergovernmental			None	*Other - Energy and Environment	Energy and Environment Cooperation Initiative
	Title:	<b>United States</b>	of American	and People's Republic of	f China Ei	nergy an	d Environment Coope	eration Initiative	
Cor	nment:								
31	347	2/23/1995		Statement of Intent			None	Nuclear Energy	Research Reactor Fuel
	Title:	Statement of I	Intent betwee	n the Department of End	ergy of the	United S	States of America and	the China Atomic Energy Authority of the People's Repu	blic of China on Research Reactor Fuel
Cor	nment:	Exchange info	rmation and	views on opportunities fo	r the conve	ersion of	research reactors to th	e use of low enriched uranium.	
493	445	6/29/1998	6/29/2003	Primary DOE			None	Nuclear Energy	Nuclear Technologies Agreement
	Title:	Agreement be Peaceful Uses		1 000	he United S	States of	America and the State	e Development Planning Commission of the People's Rep	ublic of China on Cooperation Concerning
Cor	nment:	Subject to the	Gov't to Gov	't Peaceful Uses of Nucle	ar Energy	Agreeme	nt signed July 23, 198	5.	
494	445	6/29/1998	6/29/2003	Secondary DOE		493	Primary DOE	Nuclear Energy	Annex 1 - IPR
	Title:	Annex I- Inte	llectual Prop	erty					
Cor	nment:	Attached to or	iginal agreen	nent.					

Modification M412

#### **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
620	515	5/11/2000	5/11/2005	Secondary DOE		493	Primary DOE	Energy Efficiency and Renewable Energy	Annex VII
	Title:	Renewable En People's Repu	•	•	I Cooperati	ive Activ	ities Between the Dep	partment of Energy of the United States of America a	and the State Development Planning Commission of the
Con	nment:								
554	483	3/29/1999		Statement of Intent			None	*Other - Energy and Environment	MOU on Clean Energy Projects and Technologies
	Title:			nding Among The State United States Regarding	-				Bank, The United States Department of Energy, and
Con	nment:								
642	537	9/10/2002		Statement of Intent			None	Science and Technology	SOI - Clean Energy Technologies
	Title:	Statement of 1	Intent betwee	n the Department of En	ergy of the	United S	States of America and	the Municipality of Beijing of the People's Republic	c of China Concerning Clean Energy Technologies
Con	nment:								
84	345	2/23/1995		Primary DOE			None	*Other - Bilateral Energy Consultations	Bilateral Energy Consultations
	Title:	Memorandum Consultations	of Understa	nding between the Depo	irtment of L	Energy o	f the United States of	America and the State Planning Commission of the	People's Republic of China on Bilateral Energy
Con	nment:			energy consultations by and technologies.	forming a C	hinese-A	merican Ministerial V	Working Group to enhance the understanding of energ	y issues and promote the exchange of information on

# Country: Costa Rica

36 401 5/9/1997 5/9/2002 Statement of Intent
Title: Statement of Intent by the Ministry of Environment and Energy of Costa Rica and the Department of Energy of the United States of America for Cooperation in the Field of Electric Transport

Comment:

504 451 11/17/199 11/17/200 Primary DOE
None Arms Control and Nonproliferation Sister Lab Arrangement
Title: Arrangement for information Exchange and Cooperation in the Area of Peaceful Uses of Nuclear Energy between Argonne National Laboratory and Atomic Energy Commission of Costa Rica

Comment: ACDA led sister lab.

## Country: Czech Republic

4 300 10/22/199 10/22/200 Intergovernmental None Science and Technology Science & Technology

Title: Agreement between the Government of the Czech and Slovak Federal Republic and the Government of the United States of America for Scientific and Technological Cooperation

Comment: Develop, support and facilitate S&T cooperation between cooperating organizations between the two countries in the areas of basic science, environmental protection, medical sciences and health, agriculture, engineering research, energy, natural resources and their useful utilization, standardization, S&T policy and management.

Thursday, July 17, 2003

Page 11 of 42

Modification M412

# **All In Force Bilateral Agreements**

Start End Legally Parent

ID File# Date Date Agreement Type Binding ID Parent Type Subject Brief Description

Country: **Egypt** 

517 463 7/1/1999 7/1/2004 Primary DOE None Energy Research and Development Energy Technology Agreement

Title: Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Electricity and Energy of the Arab Republic of Egypt for Cooperation in Energy Technology

Comment:

527 472 2/23/2000 2/23/2005 Secondary DOE 517 Primary DOE Energy Efficiency and Renewable Energy Annex 1 - Renewable Energy

Title: Annex I to the Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Electricity and Energy of the Arab Republic of Egypt in the Field of Renewable Energy

**Comment:** 

528 473 2/23/2000 2/23/2005 Secondary DOE 517 Primary DOE Energy Efficiency and Renewable Energy Annex 2 - Fuel Cells

Title: Annex II to the Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Electricity and Energy of the Arab Republic of Egypt for Cooperation in Energy Technology in the Field of Fuel Cells

Comment:

Country: Estonia

526 471 2/4/2000 2/4/2003 Primary DOE None Fossil Energy Oil Shale Research and Utilization

Title: Agreement between the Department of Energy of the United States of America and the Ministry of Economic Affairs of the Republic of Estonia for Scientific and Technology Cooperation on Oil Shale Research and Utilization

Comment: Establishes a Joint Coordinating Committee to manage cooperative work under the agreement.

99 353 3/13/1995 3/13/2000 Primary DOE None Environmental Restoration and Waste Management Technical Cooperation in Clean-up Paldiski Site

Title: Memorandum of Understanding between the Department of Energy of the United States and the Ministry of Economy of Estonia for Technical Cooperation in the Clean-up of the Paldiski Nuclear Training Site

Comment: Cooperate and share interests and objectives in environmental restoration and in the safe and effective management of hazardous wastes and the clean-up of the environment at and around the nuclear training site at Paldiski, Estonia.

### Country: European Atomic Energy Community (EURATOM)

568 490 1/6/1995 1/6/2005 Primary DOE None International Safeguards EURATOM Safeguards

Title: Agreement between the European Atomic Energy Community Represented by the Commission of the European Communities and the United States Department of Energy in the field of Nuclear Materials Safeguards Research and Development

Comment: Auto renewal for five years periods.

Thursday, July 17, 2003

Page 12 of 42

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description		
576	490	2/18/1999	2/18/2001	Secondary DOE		568	Primary DOE	International Safeguards	Action Sheet 10 - Tank Analysis		
				ed States Department og omated Acquisition and				c Energy Community represented by The Commission of ent Data	European Communities (EURATOM) for Computer		
Com	ment:										
612	507	5/14/2001	5/14/2006	Primary DOE			None	Fusion Energy	Fusion Agreement between EURATOM and DOE		
	Title: Agreement for Cooperation between the European Atomic Energy Community Represented by the Commission of the European Communities and the Department of Energy of the United States of America in the Field of Fusion Energy Research and Development										
Com	ment:										
<b>Cou</b> 1 648	n <b>try:</b> 543	5/14/2001		Primary DOE			None	Science and Technology	Non-Nuclear Energy S&T Agreement		
	Title:	Implementing	Agreement b	petween the Department	of Energy	of the Ur	nited States of America	a and the European Commission for Non-Nuclear Energ	y Scientific and Technological Co-operation		
Com	ment:										
Cou	ntry:	: <u>Finland</u>									
116	393	1/17/1997	1/17/2001	Primary DOE			None	Energy Research and Development	Energy R&D		
~			Ü	t between the Departme	ent of Ener	gy of the	United States of Amer	ica and the Ministry of Trade and Industry of Finland fo	r Cooperation in Energy Research and		
Com	iment:	Auto renewal	for 5 years								
Cou	ntry:	: <u>France</u>									
39	132	10/27/198		Secondary DOE		121	Primary DOE	Environmental Restoration and Waste Management	Radioactive Waste ManagementWest Valley		
	Title:	Statement of I	Intent between	n the United States Dep	artment of	Energy a	nd the French Comm	issariat a l'Energie Atomique on the West Valley Demons	stration Project		
Com				eatment of radioactive w est Valley, New York.	aste and de	contamin	ation and decommission	oning activities throughout the course of the DOE Demonst	ration Project at the Western New York Nuclear		
40	185	6/20/1986		Secondary DOE		121	Primary DOE	Civilian Radioactive Waste Management	Low-Level Radioactive Waste		
	Title:	Statement of I	Intent between	n the United States Dep	artment of	Energy a	nd the French Comm	issariat a l'Energie Atomique in the Field of Low-Level R	Cadioactive Waste		

Thursday, July 17, 2003 Page 13 of 42

Comment: Confirm intent to expand radioactive waste management cooperation in the area of surface and subsurface disposal and storage of low-level radioactive waste, as well as defined activities.

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description				
128	416	12/29/199	12/29/200	Primary DOE			None	Arms Control and Nonproliferation	Material Control and Accounting				
	Title:	Agreement be Control and A			he United S	States an	d the Commissariate	a l'Eenergie Atomique of France Concerning Researc	h and Development in the Field of Nuclear Material				
Con	nment:	Cooperate on r	research, deve	elopment, testing and eva	aluation in	the area o	of nuclear material con	ntrol and accounting measures.					
577	416	1/20/2000	1/20/2001	Secondary DOE		128	Primary DOE	Arms Control and Nonproliferation	Action Sheet 2 - Isotopic Analysis Evaluation Using the PC/FRAM Physics Isotopics Software				
	Title: Action Sheet No. 2 The United States Department of Energy (DOE) and The Commissariat a I'Energie Atomique (CNEA) of France for Isotopic Analysis Evaluation Using the PC/FRAM Physics Isotopics Software												
Con	nment:												
129	417	12/29/199	12/29/200	Primary DOE			None	Arms Control and Nonproliferation	Physical Protection of Nuclear Materials				
	Title:	Agreement bei Nuclear Mater			he United S	States an	d the Commissariat a	l'Energie Atomique of France Concerning Research	and Development in the Field of Physical Protection of				
Con	Comment: Improve the US & France nuclear materials and facilities physical protection procedures												
567	417	3/14/2000	3/14/2002	Secondary DOE		129	Primary DOE	International Safeguards	Action Sheet 3 - Nuclear Materials Transportation Security				
	Title:	Action Sheet 1	No. 3 The Un	ited States Department	of Energy (	DOE) at	nd the Commissariat	a l'Energie Atomique of France (CEA) for Nuclear Tr	ansportation Security				
Con	nment:												
130	357	4/26/1995	4/26/2005	Primary DOE			None	High Energy Physics	Accelerator Driven Technology				
	Title:	Agreement be	tween the De	partment of Energy and	the Comm	issariat (	a l'Energie Atomique	for Cooperation in Research Development and Applic	ation for Accelerators driven Technology				
Con	nment:	Conduct coope	erative progra	m of scientific and techr	nical engine	ering in	research, developmen	t and application for accelerator driven technology					
131	377	9/20/1995	9/20/2000	Primary DOE			None	Civilian Radioactive Waste Management	Radioactive Waste Management				
				-				a l'Energie Atomique in the field of Radioactive Wast					
Con	nment:		nuclear energ	y. Cooperation includes				equences of radioactive contamination on health and en- field/laboratory testing; preparation/packaging of radioa					
132	379	10/8/1995	10/8/2000	Primary DOE			None	Civilian Radioactive Waste Management	Radioactive Waste Management				
	Title:	Agreement be	tween the Un	ited States Department	of Energy (	and the I	National Radioactive	Waste Management Agency of France in the Field of A	Radioactive Waste Management				
Con	nment:	Cooperate for	purposes of n	ninimizing consequences	s of radioac	tive cont	amination on health a	nd environment and promoting safe and economic appli	cation of nuclear energy.				

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	<b>Brief Description</b>		
564	487	5/9/2000	5/9/2005	Primary DOE			None	Defense Programs	DOE/DGA Emerging Technologies		
	Title:	Technical Arr Technologies	angement be	etween the Department o	f Energy o	f the Uni	ited States of America	and the Minster of Defense of the French Republic Conce	erning Cooperation in the Application of Emerging		
Con	nment:	Auto Renewal	for 5 year pe	eriods.							
582	257	8/9/1994	8/9/2004	Primary DOE			None	Defense Programs	1994- High Energy Lasers		
	Title: Agreement between the Department of Energy of the United States of America and the Commissariat a l'Energie Atomique of France of Cooperation in Research, Development and Applications of High Energy Lasers and high Energy Laser-Mater Interaction Physics										
Con	nment:										
316	342	11/19/199		Secondary DOE		582	Primary DOE	Defense Programs	Megajoule-Class Solid State Lasers - IA #1		
		Implementing Megajoule-cla			States Depa	irtment o	f Energy and the Fre	nch Atomic Energy Commission concerning Sharing of Sc	ience and Technology Information Related to		
Con	nment:	Sharing of spe	cific S&T in	formation related to mega	ajoule-class	solid sta	ite lasers.				
317	343	11/19/199	8/9/2004	Secondary DOE		582	Primary DOE	Defense Programs	Megajoule-Class Solid State Laser Technology - IA		
	Title:	Implementing	Arrangeme	nt #2 between the United	States Dep	partment	of Energy and the Fr	rench Commissariat a l'Energie Atomique on Cooperation	in Megajoule-Class Solid State Laser Technology		
Con	nment:	Implement coo	perative acti	vities in research and dev	elopment i	n megajo	oule-class solid state la	aser technology (high-power, high-energy solid state lasers a	nd target experimental chambers and support		
601	496	9/18/2000	9/18/2005	Primary DOE			None	Nuclear Energy	Advanced Nuclear Reactor		
		Agreement be Technology	tween The D	epartment of Energy of	the United	States of	America and The Co	mmissariat A L'Energie Atomique of France for Cooperat	ion in Advanced Nuclear Reactor Science and		
Con	nment:										
635	530	7/9/2001	7/9/2006	Secondary DOE		601	Primary DOE	Nuclear Energy	Advanced Nuclear Reactor Science and Technology (I-NERI)		
				nt No. 1 under the Agree Science and Technolog		een the L	Department of Energy	of the United States of America and Commissariat A L'En	ergie Atomique of France for Cooperation in		
Con	nment:	International N	Juclear Energ	gy Research Initiative							
629	524	1/2/2002	1/2/2007	Statement of Intent			None	Exchange of Information on Research in Life Sciences	SOI between DOE and France		
		Statement of I Life Sciences	ntent Betwee	en the Department of En	ergy of the	United S	States of America and	the Commissariat A' L'Energie Atomique of France Conc	erning Exchange of Information on Research in		
Con	nment:										
630	525	3/13/2002	3/12/2007	Primary DOE			None	Computer Sciences	Computer Sciences		
	Title:	Agreement be	tween the De	epartment of Energy of t	he United S	States of	America and the Com	nmissariat A' L'E'nergie Atomique of France Concerning (	Cooperation in Computer Sciences		
Con	nment:										

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
631	526	3/13/2002	3/13/2007	Primary DOE			None	Fundamental Science	Fundamental Science on Stockpile Stewardship
	Title:	Agreement be Stockpile Stew		partment of Energy of t	he United S	States of 2	America and the Con	nmissariat A' L'E'nergie Atomique of France Concerning	Cooperation in Fundamental Science Supporting
Con	ıment:								
650	545	5/23/2002	5/23/2007	Primary DOE			None	Civilian Radioactive Waste Management	Radioactive Waste Management Agreement
		O	tween the De	partment of Energy of t	he United S	States of 2	America and the Con	nmissariat A L'Energie Atomique of France in the field of	Radioactive Waste Management
Con	ıment:								
Cou	ntry	: <u>German</u>	<u>v</u>						
613	508	7/24/2001	7/24/2006	Primary DOE			None	Science and Technology	Agreement between DOE and Germany on Dense Plasma Physics
	Title:			between the Federal Mir of Dense Plasma Physic		ucation (	and Research of the 1	Federal Republic of Germany and the Department of Ener	gy of the United States of America on
Con	ıment:								
88	419	2/20/1998	2/20/2003	Primary DOE			None	Energy Research and Development	Energy Research
	Title:			epartment of Energy of t earch, Science and Tecl				leral Ministry of Education, Science, Research and Technol	ology of the Federal Republic of Germany on
Con	ıment:	Auto renewal	for 5 year per	riods. Broad-based umbr	ella agreen	ent to all	ow formal cooperation	on in various program areas	
480	434	5/12/1998	5/12/2001	Secondary DOE		88	Primary DOE	Environmental Restoration and Waste Management	Project: Transportation of Rad Waste
	Title:			n the Department of Ene n on Transportation Req				the Federal Institute for Material Research and Testing oj f Radioactive Waste	the Federal Republic of Germany: Technical
Con	ıment:								
93	31	9/27/1977		Primary DOE			None	Arms Control and Nonproliferation	Nuclear Materials Safeguards/Physical Security
	Title:	Agreement be Security Resea			of Energy	and the l	Federal Minister for I	Research and Technology of Germany Cooperate in the fi	eld of Nuclear Material Safeguards and Physical
Con	ıment:	Open-end exp	iration date						

# Country: Ghana

**Energy Cooperation** 

Modification M412

Page 17 of 42

# **All In Force Bilateral Agreements**

Country: Israel

Thursday, July 17, 2003

156 384

2/1/1996

2/1/2001 Primary DOE

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description			
149	392	10/1/1996	10/1/2001	Primary DOE			None	Energy Research and Development	Energy Policy, S&T and Development			
				nding between the Depa nd, Development	rtment of l	Energy o	f the United States of	America and the Ministry of Mines and Energy of t	the Republic of Ghana on Cooperation in Energy Policy,			
Con	Comment: Facilitate and establish cooperative activities in such areas as: energy efficiency and renewable energy; fossil energy, including natural gas, liquefied petroleum gas, and clean coal technologies; environmental management, including utilization of energy technologies, particularly cost-effective technologies aimed at reducing emissions of greenhouse gases and minimizing environmental impacts; independent power project development, etc.											
330	399	2/27/1997	2/27/2001	Secondary DOE		149	Primary DOE	Energy Efficiency and Renewable Energy	Industrial Assessment Center			
	Title:							erica and the Ministry of Mines and Energy of the I he University of Science and Technology in Kumas	Republic of Ghana: Exchange of Information, Technical i, Ghana			
Con	nment:											
43	378	9/29/1995		Statement of Intent			None	Energy Efficiency and Renewable Energy	Energy Efficiency and Renewable Energy			
		Statement of I Renewable En		n the Department of En	ergy of the	United S	States and the Ministry	y of Mines and Energy of the Republic of Ghana to	Cooperate in the Fields of Energy Efficiency and			
Con	nment:	Exchanging ex	xperience and	views on opportunities f	for the utilize	zation of	energy efficiency and	renewable energy technologies.				
44	380	10/30/199		Primary DOE			None	Nuclear Energy	Peaceful Uses of Nuclear Energy			
	Title:	Memorandum Argonne Natio		00	of Technic	cal Infor	mation and for Coope	ration in the Field of Peaceful Uses of Nuclear End	ergy between the Ghana Atomic Energy Commission and			
Con		Establish the b		1	ationship fo	or the exc	change of S&T information	ation regarding the peaceful uses of atomic energy.	This is between Ghana Atomic Energy Commission and			
Cou	ntry:	<u>India</u>										
615	510	9/13/2000	9/13/2005	Primary DOE			None	Energy Efficiency and Renewable Energy	MOU between DOE and India concerning Energy Consultations			
Con	Title: nment:	Memorandum	of Understa	nding between the Mini	stry of Pow	ver of the	Republic of India and	d the Department of Energy of the United States of	America Concerning Energy Consultations			

Comment: Establish a framework for collaboration in energy R&D activities including: solar energy; biomass; energy efficiency; wind energy; fossil energy, including oil, gas and coal; electric power production and transmission. Annex I on Intellectual Property and Annex II on Security Obligations are attached. Discussion underway in clean coal technology and electric vehicles.

Energy Efficiency and Renewable Energy

None

Title: Agreement between the Department of Energy of the United States of America and the Ministry of Energy and Infrastructure of Israel Concerning Energy Cooperation

Modification M412

#### All In Force Bilateral Agreements

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
530	475	2/22/2000		Statement of Intent		1	None	Arms Control and Nonproliferation	SOI on Nonproliferation, Arms Control and Regional Security
		Letter of Inter Regional Secu		e Department of Energy	of the Unit	ted States (	of America and the	Atomic Energy Commission of Israel on cooperation in	the Fields of Non-Proliferation, Arms Control, and
Con	ment:								
617	512	10/23/200	10/23/200	Primary DOE		1	None	Energy Efficiency and Renewable Energy	Cooperation in the Field of High Temperature Superconductivity

Title: Implementation Agreement 3 between the Department of Energy of the United States of America and the Ministry of National Infrastructure of the State of Israel for Cooperation in the Field of High Temperature Superconductivity

Comment:

#### Country: *Italy*

5/26/1995 5/26/2000 Primary DOE None Energy Research and Development Energy R&D Title: Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and Handicraft of the Italian Republic in the Field of Energy Research and Development Comment: continues 1985 MOU in Energy R&D 358 5/7/1997 Secondary DOE 160 Primary DOE Fossil Energy Annex 3 - Fossil Energy Title: Annex III to the Agreement between the Department of Energy of the United States of America and the Ministry, Commerce and Handicraft of the Republic of Italy to Cooperate in the Field of Fossil Energy Comment: Two additional areas were added in March 1998; fuel cells for power applications and externally fired combined cycle systems 358 3/24/1998 3/24/2003 Secondary DOE 160 Primary DOE Energy Efficiency and Renewable Energy Annex 4 - Advanced Geothermal Technology Title: Annex IV to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and handicraft of the Republic of Italy in the Field of Energy Research and Development for Cooperation on Advanced Geothermal Technology Comment: Provides for collaboration between Ladrello and the Geyser Geothermal Facilities 358 3/24/1998 3/24/2008 Secondary DOE 160 Primary DOE Energy Efficiency and Renewable Energy Annex 5 - Biomass Energy Title: Annex V to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and Handicraft of the Republic of Italy in the Field of Energy Research and Development for Cooperation in the Field of Biomass Energy Comment: Information Exchange on biomass systems. Task sharing on hot gas clean-up for medium-scale gasifiers. 358 3/24/1998 3/24/2008 Secondary DOE 160 Primary DOE Energy Efficiency and Renewable Energy Annex 6 - Photovoltaic Technology Title: Annex VI to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and Handicraft of the Republic of Italy in the Field of Energy Research and Development for Cooperation in the Field of Photovoltaic Technology

Comment: Info exchange on reducing manufacturing costs of PV cells. Cooperation on guidelines for building integrated PV systems.

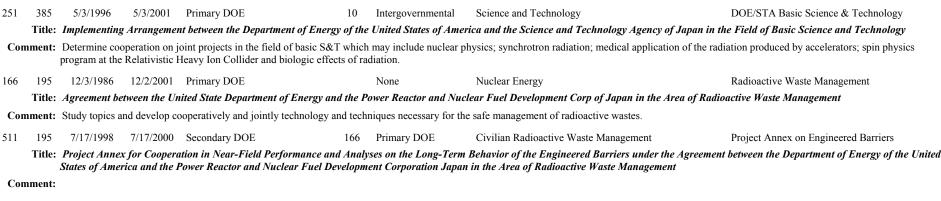
Page 18 of 42 Thursday, July 17, 2003

Modification M412

#### All In Force Bilateral Agreements

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description			
492	444	7/10/1998	7/10/2003	Secondary DOE		160	Primary DOE	Energy Research and Development	Annex 7 - Electric and Hybrid Vehicles			
	Title: Annex VII to the Agreement between the Department of Energy of the United States of America and the Ministry of Industry, Commerce and Handicraft of the Republic of Italy in the Field of Energy Research and Development for Cooperation in the Field of Electric and Hybrid Vehicles											
Con	nment:	Remains in fo	rce for 5 year	s or until the Agreement	expires, wl	nichever	is sooner.					
7	323	10/4/1993	10/4/2003	Intergovernmental			None	Science and Technology	Gov't to Gov't S & T			
	Title:	Agreement be	tween the Go	overnment of the United	States of A	merica a	nd the Government o	f the Italian Republic for Scientific and Technological Cod	operation			
Con		Science and T Renewed last i		reement between the Un	ited States	and the C	overnment of Italy wh	nich allows U.S. Government agencies to undertake coopera	tion in their respective areas of responsibility.			
46	323	10/31/198		Statement of Intent		7	Intergovernmental	Information and/or Personnel Exchange	Synchrotron Light Source			
	Title:	Protocol of In	tent of Inten	t between the Departme	nt of Energ	y of the	United States of Amer	ica and the Ministry of the University and of Scientific and	d Technological Research of the Republic of Italy			
Con	nment:											
•	4	7										

#### Country: Japan



395 365 2/19/1997 5/19/2000 Secondary DOE 171 Primary DOE Arms Control and Nonproliferation Action Sheet 30 - Randomized Inspection (PNC)

Title: Action Sheet PNC 30 The United States Department of Energy (DOE) and The Power Reactor and Nuclear Fuel Development Corporation of Japan (PNC) for Joint Study of Improved Safeguards Methodology Using Non-Notice Randomized Inspection

#### Comment:

Thursday, July 17, 2003

Page 19 of 42

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
545	365	12/18/199	12/18/200	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 37 - A-MAGB at Plutonium Fuel Production Facility
	Title:	Action Sheet 3 Containers in	37 between th the Advanced	ne United States Departn I Material Accountancy	nent of Ene Glove Box	ergy (DO at PFP)	E) and the Japan Ni F	uclear Cycle Development Institute (JNC) for Development	of Plutonium Isotopic Systems for Measuring
Con	ment:								
546	365	12/18/199	12/18/200	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 38 - Remote Monitoring for Tokai
		Action Sheet 3 Facility Safegi			nent of Ene	ergy (DO	DE) and the Japan Nu	uclear Cycle Development Institute (JNC) for Development	of Remote Monitoring for Tokai Vitrification
Con	ment:								
547	365	3/12/1999	3/12/2002	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 39 - Radiation Sensor Monitors at
		Action Sheet 3 C/S at Monju			ment of En	ergy (Do	OE) and The Japan I	Nuclear Cycle Development Institute (JNC) for Developmen	at of Radiation Sensor Monitors to Improve Dual
Con	ment:								
548	365	3/22/1999	3/22/2002	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 40 - Isotope Dilution Gamma-Ray Spectrometry
				The United States Depa a-Ray Spectrometry (ID		Energy (I	DOE) and The Japan	Nuclear Cycle Development Institute (JNC) for Joint Rese	arch and Development Study of the Metrology of
Con	ment:								
549	365	3/24/1999	9/24/2000	Secondary DOE		171	Primary DOE	Arms Control and Nonproliferation	Action Sheet 41 Conceptual Design for RETF Safeguards System Phase 2.
		Action Sheet 4 Safeguards Sy			Developm	ent Insti	tute (JNC) And The	United States Department of Energy (DOE) For Joint Stud	on the Conceptual Design for the RETF
Con	ment:								
173	356	4/11/1995	4/11/2005	Primary DOE			None	Nuclear Energy	Nuclear Reactor Technologies R&D
		Memorandum Research and			ed States Ro	esearch (	and Development Org	ganizations and the Japanese Research Organizations for (	Cooperation in Nuclear Reactor Technologies
Con				ration between DOE and lear reactor technologies		l laborate	ories, EPRI and the A	dvanced Reactor Corporation, and the Japanese R&D Organ	izations, including PNC, JAPC, JAERI and
174	362	7/17/1995	7/17/2005	Primary DOE			None	Nuclear Energy	Nuclear Research and Development - JAERI
	Title:	Agreement be	tween the De	partment of Energy of t	he United S	States of	America and the Jap	oan Atomic Energy Research Institute in the Field of Nucle	ar Research and Development
Con	ment:	Cooperation to	conduct pro	grams associated with nu	ıclear R&D	in such	areas as basic nuclear	r S&T, nuclear safety, and advanced nuclear technologies.	

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description		
397	428	4/23/1998	4/23/2001	Secondary DOE		174	Primary DOE	High Energy Physics	Collaborative program for target development for high power spallation neutron sources		
	Title: Specific Memorandum of Agreement between the Japan Atomic Energy Research Institute and the Department of Energy of the United States of America for Collaborative Program of Target Development for High Power Spallation Neutron Sources										
Con	Comment: Work will be preformed at the Alternating Gradient Synchrotron facility at Brookhaven National Laboratory										
481	435	6/9/1997	6/9/2007	Secondary DOE		174	Primary DOE	Arms Control and Nonproliferation	SMA - Safeguards		
	Title: Specific Memorandum of Agreement Between the Japan Atomic Energy Research Institute and the Department of Energy of the United States of America Concerning Research and Development in Nuclear Material Control, Accountancy, Verification and Physical Protection										
Con	nment:										
523	468	1/27/2000	1/27/2005	Primary DOE			None	Arms Control and Nonproliferation	DOE/JNC Safeguards Agreement		
Title: Agreement between the Department of Energy of the United States of America and the Japan Nuclear Cycle Development Institute For Cooperation in Research and Development (R&D) Concerning Nuclear Material Control and Accounting Measures for Safeguards and Nonproliferation											
Comment: Improving the efficiency and effectiveness of equipment and techniques for safeguards and nonproliferation to implement policies and procedures pursuant to the non-proliferation treaty.											
550	482	1/27/2000	7/27/2001	Secondary DOE		523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 42 Measurement Methods for Scrap Materials		
	Title: Action Sheet 42 between The Japan Nuclear Cycle Development Institute (JNC) and The United States Department of Energy (DOE) For Investigation of Measurements Methods for Scrap Materials with High Impurities										
Con	nment:										
551	482	1/27/2000	1/27/2003	Secondary DOE		523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 43 NDA Techniques at Ningyo		
	Title: Action Sheet 43 between The United States Department of Energy (DOE) and The Japan Nuclear Cycle Development Institute (JNC) for Design Studies and Development of NDA Techniques for In-Process and Waste Invention at the Ningyo Enrichment Plant										
Comment:											
552	482	1/27/2000	1/27/2002	Secondary DOE		523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 44 - Dry Reprocessing Methods		
	Title: Action Sheet 44 between The Japan Nuclear Cycle Development Institute (JN) and The United States Department of Energy (DOE) for A Joint Study of Safeguards Systems for Dry Reprocessing										
Comment:											
553	482	1/27/2000	1/27/2003	Secondary DOE		523	Primary DOE	Arms Control and Nonproliferation	Action Sheet 45 Remote Monitoring System at PFPF		
				he United States Depart ction Facility in Japan	ment of En	ergy (DO	OE) and The Japan N	uclear Cycle Development Institute (JNC) for Developm	ent of the Integrated Remote Monitoring System at		
Comment:											

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description			
597	492	8/22/2000	8/22/2005	Primary DOE			None	Nuclear Energy	Agreement for Nuclear Technologies			
	Title: Agreement Between The Department of Energy of the United States of America and The Japan Nuclear Cycle Developments Institute in the Field of Nuclear Technologies.											
Con	Comment:											
640	535	7/10/2002	7/10/2005	Primary DOE			None	Civilian Radioactive Waste Management	Nuclear Waste Management Organization Agreement (NUMO)			
	Title	Title: Agreement between the Department of Energy of the United States of America and the Nuclear Waste Management Organization of Japan in the Field of Radioactive Waste Management										
Comment:												
643	538	9/2/2002	9/2/2005	Primary DOE			None		Agreement bet. DOE and the Japan Atomic Energy Research Institute			
	Title: Specific Memorandum of Agreement between the Department of Energy of the United States of America and the Japan Atomic Energy Research Institute on Cooperation in the Field of Synchrotron Radiation Research											
Con	nment:	•										
653	548	3/19/2003	3/19/2008	Primary DOE			None	Civilian Radioactive Waste Management	Radioactive Waste Management			
	Title: Agreement between the Department of Energy of the United States of America and the Japan Nuclear Cycle Development Institute in the Field of Radioactive Waste Management											
Comment:												
657	552	8/18/2000	8/18/2005	Amendment		263	None	Fusion Energy	Amendment V			
	Title: Amendment V to the Agreement between the Japan Atomic Energy Research Institute and the United States Department of Energy on Cooperation in Doublet III Project											
Comment:												
8	42	5/2/1979	5/1/2005	Intergovernmental			None	Energy Research and Development	US/Japan Energy and Related Fields Agreement			
	Title: Agreement between the Government of the United States of America and the Government of Japan on Cooperation in Research and Development in Energy and Related Fields											
Comment: Maintaining and intensifying cooperation in research and development in energy and related fields.												
22	114	1/24/1983	5/1/2005	Broad		8	Intergovernmental	Fusion Energy	Fusion Energy			
	Title: Exchange of Notes establishing the Cooperation in Fusion Research and Development											
Con	Comment: A cooperative program for the exchange of information, personnel and equipment, and special activities as may be mutually agreed, in various technical areas of fusion energy between DOE and the Ministry of Education, the STA, MONBUSHO, and the MITI, as established by an exchange of diplomatic notes and separate agreements within each organization. Remains in force as long as the Agreement between US-Japan on Cooperation in Research and Development in Energy and Related Fields remains in force.											
255	116	1/25/1983	5/1/2005	Primary DOE		22	Broad	Fusion Energy	Fusion Energy - MITI			
	Title	: Exchange of	Letters establ	lishing the MITI-DOE C	ooperation	ı in Fusio	on Research and Deve	elopment				

Thursday, July 17, 2003

Comment: Remains in effect as long as the Exchange of Notes between USA-Japan on Cooperation in Fusion Research and Development

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description		
256	117	1/25/1983	5/1/2005	Primary DOE		22	Broad	Fusion Energy	Fusion Energy - STA - Primary DOE agreement		
	Title: Exchange of Letters establishing the STA-DOE Cooperation in Fusion Research and Development										
Con	Comment: Remains in effect as long as the Exchange of Notes between USA-Japan on Cooperation in Fusion Research and Development										
417	134	11/8/1983	5/1/2005	Secondary DOE		256	Primary DOE	Fusion Energy	Fusion Research and Development - JAERI		
	Title: Implementing Arrangement between the Japan Atomic Energy Research Institute and the United States Department of Energy on Cooperation in Fusion Research and Development										
Comment: Appoint coordinators to report to Fusion Committee and to cooperate in such areas as plasma-containment devices, such as tokomaks; joint research related to plasma physics; magnetic fusion concepts; magnetic systems for fusion devices; plasma engineering; fusion-reactor materials; fusion-systems engineering; environmental and safety aspects of fusion energy; plasma diagnostics and vacuum technology; and applications of fusion energy.											
463	133	11/8/1983	3/31/2004	Tertiary DOE		417	Secondary DOE	Fusion Energy	Annex 1 - First Wall and Blanket Structural		
	Title: Annex I to Implementing Arrangement between Japan Atomic Energy Research Institute and U.S. Department of Energy on Cooperation in Fusion Research and Development U.SJapan										
Collaborative Testing of First Wall and Blanket Structural Materials with Mixed Spectrum Fission Reactors  Comment: JOINT IRRADIATION EXPERIMENTS AND EVALUATION OF RESULTS.											
					ALUATIO						
466	210	6/11/1987		Tertiary DOE		417		Fusion Energy	Annex 4 - Fusion - Fuel Processing		
	Title: Annex IV to the Implementing Arrangement between the Japan Atomic Energy Research Institute and the United States Department of Energy on Cooperation in Fusion Research and Development for the DOE-JAERI Collaborative Program Technology for Fusion-Fuel Processing										
Comment: Define, conduct, evaluate the joint operation/experiments on fusion fuel technology with TSTA at LANL for the purposes of developing and demonstrating fuel process technology for fusion power systems; developing/testing environmental/personnel protective systems for tritium handling; developing/testing/qualifying equipment and material for tritium services in the fusion energy program,											
471	270	1/11/1990	1/11/2005	Tertiary DOE		417	Secondary DOE	Fusion Energy	Annex 9 - Data Link		
	Title: Annex IX to the Implementing Arrangement between the Japan Atomic Energy Research Institute and United States Department of Energy on Cooperation in Fusion Research and Development for the DOE-JAERI Collaboration on the Data Link										
Comment: Establish the Data Link to facilitate rapid information exchanges between fusion researchers of the Parties through (1) code development and/or usage; (2) data analysis and/or theory/experiment comparison; (3) access to computers in home countries by visiting scientists for computations related to purpose of visit; (4) administration of the Data Link. VISITS: Yes DURATION: To Be Determined DOE/HQ CONTACT: Arthur Katz, ER-523, (301) 903-4932; FTS: 233-4932											
257	115	1/29/1983	5/1/2005	Primary DOE		22	Broad	Fusion Energy	Fusion Energy - Monbusho - Primary DOE		
	Title: Exchange of Letters establishing the Monbusho-DOE Cooperation in Fusion Research and Development										
Comment: Remains in effect as long as the Exchange of Notes between USA-Japan on Cooperation in Fusion Research and Development											
419	214	7/17/1987	7/19/2001	Secondary DOE		257	Primary DOE	Fusion Energy	Annex 1 - Irradiation Effects Utilizing Fission		
	Title: Annex 1 to 01/25/83 exchange of letters between Japan Ministry of Education (Monbusho) and USDOE on cooperation in fusion R&D for collaboration in fundamental studies of irradiation effects in fusion materials utilizing fission										
Con	nment:	nt: JOINT IRRADIATION AND EVALUATION EXPERIMENTS ON MATERIALS									

Modification M412

# All In Force Bilateral Agreements

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
420	258	12/12/198	12/21/200	Secondary DOE		257	Primary DOE	Fusion Energy	Annex 2 - Data Link & Data Link Projects for
	Title:			5, 1983 Exchange of Let tion on a data Link and				Department of Energy of the United States on Cooperation	n in Fusion Research and Development
Con	nment:	STEERING C			Data Link	rrojecis	jor rusion		
Con	iiiiciit.	STEERING C	OWNINITIEL	MEETING					
602	497	1/17/2001	7/19/2007	Secondary DOE		257	Primary DOE	Fusion Energy	Amendment 4 - Annex 1 Fusion Research and Development
	Title:	: Amendment 4	of Annex I t	o the DOE - Monbusho	Exchange of	of Letter	s on Cooperation in F	Susion Research and Development	
Con	nment:	1							
259	228	10/16/198	5/1/2005	Primary DOE		8	Intergovernmental	Fossil Energy	Coal R&D - AIST and ANRE
	Title:	Implementing Research and		0 .	f Industrial	Science	and Technology and	the Agency of Natural Resources and Energy of Japan and	the United States Department of Energy in Coal
Con	nment:			operation in the area of collution control technological				velopment of coal R&D efforts, i.e., coal liquefaction, coal gon.	asification; materials and components for coal
262	48	8/24/1979	5/1/2005	Primary DOE		8	Intergovernmental	Fusion Energy	Fusion Energy/Coordinating Committee
	Title:	Exchange of	Letters Estab	lishing a Coordinating (	Committee d	on Fusio	n Energy		
Con	nment:		_	ommittee on Fusion Ener ght of such cooperative a	0,5	ate the c	oordination and imple	mentation of cooperative activities in the area of fusion as w	ell as to assure proper balance and to ensure the
263	50	8/28/1979	8/28/2000	Primary DOE		8	Intergovernmental	Fusion Energy	Fusion Energy/Doublet III
	Title:	Agreement be	tween the Un	nited States Department	of Energy a	nd the J	apan Atomic Energy	Research Institute on Cooperation in Doublet III Project	
Con	nment:	Undertake exp	erimental res	earch on tokomak plasm	as with dou	blet and	dee-shaped cross-secti	ons in the Doublet III, a tokomak facility, located in LaJolla	, California.
264	58	11/11/197	5/1/2005	Primary DOE		8	Intergovernmental	High Energy Physics	High Energy Physics
	Title:	Implementing Physics	Arrangemei	nt between the Departme	ent of Energ	gy of the	United States of Amer	rica and the Ministry of Education, Science and Culture of	Japan on Cooperation in Field of High Energy
Con	nment:							ccelerator and detector instrumentation R&D the fabrication Related Fields Agreement signed on May 2, 1979	n and subsequent use of new experimental

#### Country: Kazakhstan

186 402 7/12/1996 Primary DOE None Science and Technology Energy R&D and Tech exchange

Title: Agreement between the Department of Energy of the United States of America and the Ministry of Science-Academy of Sciences of the Republic of Kazakhstan on Scientific Research and Development and Technology Exchange Programs

**Comment:** 

Modification M412

### **All In Force Bilateral Agreements**

**Comment:** 

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
428	402	5/13/1997		Secondary DOE		186	Primary DOE	*Other - Remote Sensing	Remote Sensing Mission
	Title:	Annex 1 - For	the Conduct	of the Remote Sensing	Mission (A	MPS) in	the Republic of Kaza	khstan	
Con	nment:								
529	474	12/19/200		Primary DOE			None	Arms Control and Nonproliferation	Decommissioning of the BN-350 Reactor
	Title:	Implementing Decommission			nt of Energ	gy of the	United States of Ame	rica and the Ministry of Energy, Industry and trade of the	Republic of Kazakhstan Concerning
Con	ment:								
Cou	ntry:	: <u>Korea, R</u>	Republic (	<u>of</u>					
180	389	6/14/1996	6/14/2001	Primary DOE		11	Intergovernmental	Fusion Energy	Fusion Energy Research and Related Fields
	Title:		0	nt between the Departme nd Related Fields	nt of Energ	gy of the	United States of Ame	rica and the Ministry of Science and Technology of the Re	public of Korea for Cooperation in the Area of
Con	ment:	Promote S&T	cooperation is	n fusion energy research	and related	l fields ir	order to enhance cont	tributions. Remains in force for 5 years or until termination	of the S&T Agreement, whichever occurs first.
626	521	6/14/2001	6/14/2006	Secondary DOE		180	Primary DOE	Fusion Energy	Extension on the Implementing Arrangement between DOE and Korea
	Title:			mplementing Arrangeme Fusion Energy Research				the United States of America and the Ministry of Science	and Technology of the Republic of Korea for
Con	ment:								
179	388	6/14/1996	6/14/2001	Primary DOE			None	Nuclear Energy	Cooperative Laboratory Relationship
	Title:	Memorandum Relationship	of Understa	nding between the Depa	rtment of E	Energy o	f the United States of .	America and the Ministry of Science and Technology of th	e Republic of Korea for a Cooperative Laboratory
Con				aceful uses of nuclear end al research related to nuc				e management; nuclear safety and environment; nuclear safe	eguards technology; basic sciences; education;
595	388	6/29/2000	6/29/2005	Secondary DOE		179	Primary DOE	Nuclear Energy	Annex 4 - Cintichem Process Technology (first project annex)

Thursday, July 17, 2003

Page 25 of 42

Title: Annex 4 Joint Project on Cintichem Technology between the Department of Energy of the United States of America and the Korea Atomic Energy Research Institute under the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a Cooperative Laboratory Relationship

Modification M412

#### All In Force Bilateral Agreements

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	<b>Brief Description</b>
608	503	5/16/2001	5/16/2006	Secondary DOE		179	Primary DOE	Nuclear Energy	Annex V - MOU between DOE and Ministry of Science and Technology of the Republic of Korea on I-NERI

Title: Annex V to the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a Cooperative Laboratory Relationship on a Collaboration Project Supporting the International Nuclear Energy Research Initiative (INERI)

**Comment:** 

509 504 5/16/2001 6/14/2001 Secondary DOE 179 Primary DOE Nuclear Energy Amendment C to Annex III Participating Institutions to the MOU between DOE and Ministry Science and Technology

Title: Amendment C to Annex III - Participating Institutions to the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a Cooperative Laboratory Relationship

**Comment:** 

644 539 6/14/2001 6/14/2006 Secondary DOE 179 Primary DOE Science and Technology Extend and Amend MOU bet. DOE and MOST

Title: Agreement to Extend and Amend the Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea for a Cooperative Laboratory Relationship

Comment:

9 534 9/17/2002 9/17/2007 Primary DOE None Science and Technology Safeguards Agreement

Title: Arrangement between the Department of Energy of the United States of America and the Ministry of Science and Technology of the Republic of Korea Concerning Research and Development in Nuclear Material Control, Accountancy, Verification, Physical Protection, and Advanced Containment and Surveillance Technologies for International Safeguards Applications

**Comment:** 

#### Country: Mexico

12 41 6/15/1972 Intergovernmental None Science and Technology Science & Technology

Title: Agreement Between the United States of America and Mexico for Scientific and Technical Cooperation

**Comment:** Effected by Exchange of Notes Signed at Washington June 15, 1972

270 386 5/7/1996 5/7/2001 Primary DOE 12 Intergovernmental Energy Research and Development Energy Cooperation

Title: Agreement between the Department of Energy of the United States of America and the Secretariat of Energy of the United Mexican States for Energy Cooperation

Comment: Develop a framework for cooperation to facilitate establishment of cooperative activities in research, development and commercialization to promote improved use of renewable energy and energy efficiency and fossil energy technologies, giving due consideration to environmental concerns, as well as to exchange, develop, and analyze energy strategies and regulatory criteria and to encourage the promotion of energy trade opportunities.

Thursday, July 17, 2003

Page 26 of 42

### **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
483	437	6/10/1998	6/10/2001	Secondary DOE		270	Primary DOE	Energy Efficiency and Renewable Energy	Annex 1 - Renewable Energy
	Title:	Project Annex	: 1 Cooperatio	on in the Field of Renew	vable Energ	gy			
Con	mment:	Project areas u	nder discussi	on by SNL and CNEA (I	Mexico Nat	ional Co	mmission for Energy S	avings)	
484	438	6/10/1998	6/10/2001	Secondary DOE		270	Primary DOE	Energy Efficiency and Renewable Energy	Annex 2 - Energy Efficiency
	Title:	Project Annex	2 Cooperati	ion in the Field of Energ	gy Efficien	cy			
Co	mment:	Project areas u	nder discussi	on.					
498	447	10/21/199	10/21/200	Secondary DOE		270	Primary DOE	Environmental Restoration and Waste Management	Annex 3 - Enviro Cooperation in hydrocarbons
	Title:	Project Annex	: 3 - Environi	mental Cooperation in t	he Field of	Hydroca	rbons		
Co	mment:	Facilitating wo	ork between N	Mexico Institute of Petrol	eum and O	RNL.			
519	465	12/7/1999	5/7/2001	Secondary DOE		270	Primary DOE	Fossil Energy	Annex 4- Clean Fossil Energy Technologies
	Title:	Project Annex	: 4 Cooperati	ion in the field of Clean	Fossil Ene	rgy Tech	nologies		
Con	mment:	Annex is in for	rce as long as	the Agreement is in force	e.				
610	505	5/7/2001	5/7/2006	Secondary DOE		270	Primary DOE	Science and Technology	
	Title:	Extension of t	he Agreemen	at for Energy Cooperation	n between	the Depa	rtment of Energy of th	he United States of America and the Secretariat of Energy	of the United Mexican States, and its Four
Con	mment:								
188	405	3/25/1985	3/25/2005	Primary DOE			None	Arms Control and Nonproliferation	Sister Lab Arrangement
	Title:			nding (MOU) for the Ex Los Alamos National l				Cooperation in the Field of Peaceful Uses of Nuclear End	ergy between the National Institute of Nuclear
Co	mment:	Sister lab arran	ngement supp	orting Article IV of the I	NPT.				
604	499	3/9/2001		Broad			None	Fifth Hemispheric Energy Ministers Meeting	Mexico Declaration
	Title:	Fifth Hemisph	heric Energy	Ministers Meeting Mex	ico City, M	exico - M	larch 9, 2001. Mexico	Declaration - Energy: A Crucial Factor for Integration a	nd Sustainable Development in the Hemisphere
Co	mment:								

# Country: Morocco

599 494 10/16/200 10/16/200 Primary DOE None Energy Efficiency and Renewable Energy

Agreement on Concerning Cooperation in Energy

Efficiency and Renewable Energy

Efficiency and Renewable Energy

Title: Agreement Between The Department of Energy of the United States of America and The Ministry of Industry, Commerce, Energy and Mines of the Kingdom of Morocco Concerning Cooperation in Energy Efficiency and Renewable Energy

#### **Comment:**

Modification M412

#### **All In Force Bilateral Agreements**

End

Start

		Start	Ena		Legany	rarem			
ID	File#	Date	Date	Agreement Type	Binding	ID	Parent Type	Subject	Brief Description
627	522	10/16/200	10/16/200	Secondary DOE		599	Primary DOE	Energy Efficiency and Renewable Energy	Project Annex I - EERE
		•		eement between the Dep Energy Efficiency and		O.	•	of America and the Ministry of Industry, Commerce,	Energy and Mines of the Kingdom of Morocco
Con	nment:								
647	542	6/3/2002	6/3/2007	Secondary DOE		599	Primary DOE	Energy Efficiency and Renewable Energy	Project Annex 2 - Clean Energy Technologies
		•		reement between the De Clean Energy Technol		Energy	of the United States of	of America and the Ministry of Industry, Commerce,	Energy and Mines of the Kingdom of Morocco
Con	nment:								
Cou	ntry:	<u>Nigeria</u>							
48	76	7/23/1980		Statement of Intent			None	Energy Research and Development	Energy R&D
	Title:	Memorandum	of Intent Co	oncerning Energy Coop	eration betw	een the	Government of the U	Inited States of America and the Government of the I	Federal Republic of Nigeria

520 466 8/14/1999 Primary DOE None \*Other - Energy Policy MOU on Energy Policy

sources, training in energy planning and technology and strengthen bilateral relations through increased official cooperation. Formal cooperation never establish

Legally Parent

Title: Memorandum of Understanding between the Department of Energy of the United States of America and the Federal Ministry of Power and Steel of the Federal Republic of Nigeria on Energy Policy

Comment: Exploit and use conventional sources of energy, develop effective machinery to monitor environmental effects of energy, develop and demonstrate technologies to utilize new and renewable energy

**Comment:** 

#### Country: Pakistan

9 339 9/24/1994 Statement of Intent None \*Other - Climate Change Climate Change

Title: Joint Statement of Intent between the Department of Energy of the United States of America and the Environment and Urban Affairs Division of the Islamic Republic of Pakistan

Comment: Enhancing mutual environmental protection, in particular, controlling greenhouse gas emissions to limit potential adverse climate change impacts (Environment and Urban Affairs Division).

50 338 9/24/1994 Statement of Intent None Fossil Energy Statement of Intent w/ Ministry of Petroleum and Natural Resources

Title: Statement of Intent between the Department of Energy of the United States of America and the Ministry of Petroleum and Natural Resources, Government of the Islamic Republic of Pakistan

Comment: Promoting trade, investment and cooperation between U.S. & Pakistan (Min of Petroleum and Natural Resources) public and private-sector entities in the fields of fossil fuels (petroleum and minerals, including coal) and new and renewable energy resources, related infrastructure development, and in the exchange of experience and views on opportunities in these sectors.

Thursday, July 17, 2003
Page 28 of 42

Modification M412

#### All In Force Bilateral Agreements

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description		
51	340	9/24/1994		Statement of Intent			None	Energy Efficiency and Renewable Energy	Statement of Intent w/ Ministry of Water and Power		
	Title:	Statement of I	ntent betwe	en the Department of En	ergy of the	United St	tates of America and	the Ministry of Water and Power of the Islamic Republic	of Pakistan		
Con	Comment: Promoting trade, investment and cooperation between the U.S. and Pakistan (Ministry of Water and Power) private and public sector entities in the fields of fossil and renewable energy, and in the										
	exchange of experience and views on opportunities for improving energy efficiency and enhancing electricity policy.										

#### Country: Palestinian Authority

479 2/22/2000 Statement of Intent None Energy Research and Development Energy Planning SOI Title: Joint Statement of Intent between the Department of Energy of the United States of America and the Palestinian Energy Authority on Cooperation in the Field of Energy **Comment:** 

#### Country: Peru

6/16/2001 Primary DOE Arms Control and Nonproliferation Sister Lab Arrangement None Title: Arrangement for the Exchange of Technical Information and for Cooperation in the Field of Peaceful Uses of Nuclear Energy between the Peruvian Institute of Nuclear Energy and the Los Alamos National Laboratory Comment: 498 3/8/2001 Statement of Intent Cooperation in the Field of Energy Cooperation in the Field of Energy None

Title: Joint Statement of Intent between the Department of Energy of the United States of America and The Ministry of Energy and Mines of the Republic of Peru on Cooperation in the Field of Energy

Comment:

512

603

645 540 8/14/2001 8/14/2006 Primary DOE None Science and Technology MOU - Cooperation in the Field of Energy

Title: Memorandum of Understanding between the Department of Energy of the United States of America and the Ministry of Energy and Mines of the Republic of Peru on Cooperation in the Field of

# **Comment:**

#### Country: Philippines

6/19/1997 6/19/2002 Primary DOE Information and/or Personnel Exchange Info Exchange

Title: Memorandum of Agreement between the Department of Energy of the United States of America and the Department of Energy of the Republic of the Philippines for the Exchange of Energy

#### Comment:

#### Country: **Poland**

Thursday, July 17, 2003 Page 29 of 42

Modification M412

#### **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID Parent Type		Subject	Brief Description			
13	224	9/28/1987	9/28/2002	Intergovernmental		1	None	Science and Technology	Science & Technology			
	Title: Agreement between the Government of the United States of America and the Government of the Polish People's Republic on Cooperation in Science and Technology and its Funding											
Con	Comment: Develop, support and facilitate S&T cooperation on the basis of the principles of equality, reciprocity, and mutual benefit. Joint projects of mutual interest are funded by a fund contributed to by the two governments. Renewed last in 1997.											
198	367	8/21/1995	8/21/2000	Primary DOE		1	None	Environmental Restoration and Waste Management	Environmental Restoration Hazardous Waste Mgmt			
	Title: Agreement for Technical Exchange and Cooperating between the Department of Energy of the United States of America and the Institute for Ecology of Industrial Areas of the Republic of Poland in the Area of Environmental Restoration and Hazardous Waste Management											
Con	Comment: Study topics associated with the safe management of hazardous wastes, e.g., risks associated with human exposure to environmental contamination from chemical and heavy metals in soils; demonstration of technologies or methodologies for soil cleaning; and other areas determined by both parties.											

#### Country: Romania

513 459 3/29/1999 3/26/2004 Primary DOE None Arms Control and Nonproliferation Sister Lab Arrangement

Title: Arrangement for Information Exchange and Cooperation in Area of Peaceful Uses of Atomic Energy between United States Department of Energy (DOE) and the Ministry of Industry and Commerce (MIC) - Romania

Comment: Establishes the basis for a cooperative institutional relationship between the participants for the exchange of scientific and technological and other information regarding the peaceful uses of atomic

#### Country: Russian Federation

203 395 9/16/1996 9/16/2001 Primary DOE 14 Intergovernmental Restoration and Waste Management Environmental Restoration and Waste Management

Title: Memorandum of Cooperation between the Department of Energy of United States of America and the Ministry of the Russian Federation on Atomic Energy in the Fields of Environmental Restoration and Waste Management

#### Comment:

211 396 9/16/1996 9/16/2001 Primary DOE 14 Intergovernmental Nuclear Energy Nuclear Reactor Safety

Title: Memorandum of Cooperation between the United States of America and the Russian Federation in the Field of Civilian Nuclear Reactor Safety

Comment: replaces MOU in Civilian Nuclear Reactor Safety signed 26 April, 1988

213 397 9/16/1996 9/16/2001 Primary DOE 14 Intergovernmental Fusion Energy Magnetic Confinement Fusion

Title: Memorandum of Cooperation between the Department of Energy of the United States of America and the Ministry of the Russian Federation on Atomic Energy in the Field of Magnetic Confinement Fusion

**Comment:** Focus on Fusion science research and development

Thursday, July 17, 2003

Page 30 of 42

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
436	397	9/16/1996	9/16/2001	Secondary DOE		213	Primary DOE	Nuclear Energy	Annex 1
	Title:	Annex 1 - Lis	st of Organiza	tions that could particip	ate				
Con	nment:								
214	398	2/17/1997	2/17/2002	Primary DOE		14	Intergovernmental	*Other - High Energy and Nuclear Physics	Fundamental Properties of Matter
	Title:			tion in the Field of Resections: Fience & Technologies of				r between the Department of Energy of the United States of	f America and the Ministry of Atomic Energy and
Con	nment:	activities coor	dinated by th	e Joint Coordinating Con	nmittee for	Research	in the Fundamental P	roperties of Matter (FCC-FPM)	
15	315	2/18/1993		Intergovernmental			None	Nuclear Energy	Disposition HEU Extracted From Nuclear Weapons
	Title:	Agreement be Weapons	etween the Go	overnment of the United	States of A	merica a	nd the Government of	the Russian Federation Concerning the Disposition of Hi	ghly Enriched Uranium Extracted from Nuclear
Con	nment:			ed from nuclear weapons strol, and environmental i				eapons; the establishment of appropriate measures to fulfill J.	he nonproliferation, physical protection, nuclear
202	394			Primary DOE		<b>~</b>	None	*Other - Fuel Cell Technology	RAFCO
•		O				States of	America and the Min	istry of the Russian Federation on Atomic Energy Regards	ng a Russian-American Fuel Cell Consortium
				l technology developmen	ıt				
208	324	1/14/1994		Intergovernmental	g		None	Environmental Safety Health	Radioactive Contamination Health & Environment
	1 itie:			overnment of the United active Contamination of				the Russian Federation on Cooperation in Research on R	adiation Effects for the Purpose of Minimizing
Con	nment:			cooperation in research or consible for coordination				nization of the consequences of radioactive contamination o	n health and the environment. DOE is the
210	360	6/16/1995		Primary DOE			None	Arms Control and Nonproliferation	Nonproliferation of Weapons/Weapons Expertise
	Title:			nt between the Departmo itate the Nonproliferation				rica and the International Science and Technology Center	in the Russian Federation for Cooperation in
Con	nment:	Facilitate coo	peration unde	r the ISTC agreement inc	luding the	efforts to	reduce or eliminate w	eapons of mass destruction in a safe and secure manner.	
209	359	6/15/1995		Secondary DOE		210	Primary DOE	Fusion Energy	Annex 1 Weapons Expertise for the Globus-M
	Title:							l States of America and the International Science and Tec nd Weapons Expertise for the Globus-M Project	hnology Center in the Russian Federation
Con	nment:	Institute in ord	ler to accomn		-M spherica	al tokoma	ak device and the near	BUS-M project by participating in the modification (or recoby supporting equipment, the buildings that house all the of IS-M project.	

Modification M412

### **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description				
	1 110	2	2	rigiteiment Type	Dinama		Turent Type	Subject	2.0. 2 coop.				
536	480	6/22/1999	6/22/2001	Secondary DOE		210	Primary DOE	Fusion Energy	ISTC Annex III -Advanced Diagnostics equipment for Spherical Tokamak Globus-M				
	Title: Annex III to the Memorandum of Agreement between the Department of Energy of the United States of America and the International Science and Technology Center in the Russian Federation Concerning Cooperation in Approved Projects to Facilitate the Nonproliferation of Weapons and Weapons Expertise for Advanced Diagnostics Equipment for Sapherical Tokomak Globus-M (ISTC Project No. 1126)												
Con	nment:												
435	328	3/16/1994		Primary DOE			None	Nuclear Energy	Replacement of Russian Pu Production Reactors				
	Title:	Protocol of M	eeting betwee	en the United States and	the Russia	ın Feder	ation on the Replacer	nent of Russian Plutonium Production Reactors					
Con		•		tonium production reacto			-	•					
515	461	9/22/1998	9/22/2003	Intergovernmental			None	Arms Control and Nonproliferation	Nuclear Cities Initiative				
313				ē	Ctatas of A			1	Nuclear Cities initiative				
				· ·	•			of the Russian Federation on the Nuclear Cities Initiative					
Con	nment:	DOE is the US	S Executive A	Agent for the carrying ou	t provision	s of the a	greement. Ministry of	the Russian Federation for Atomic Energy is the Executive	agent for Russia				
518	464	3/24/1999	3/24/2004	Primary DOE			None	Science and Technology	MOU w/ Russian Academy of Sciences				
	Title:	Memorandun	of Understa	nding between the Depa	rtment of l	Energy o	f the United States of	America and the Russian Academy of Sciences on Cooper	ration in Science and Technology				
Con	nment:												
565	488	5/15/2000	3/24/2004	Secondary DOE		518	Primary DOE	Environmental Restoration and Waste Management	DOE/RAS Implementing Arrangement 1				
				nt #1 Under the Memora dogues, Migration and A			O .	ited States Department of Energy and the Russian Acaden gic Media	y of Sciences on Cooperation in Science and				
Con	nment:												
590	488	5/16/2000	9/20/2002	Tertiary DOE		565	Secondary DOE	Environmental Restoration and Waste Management	Appendix D - Uranium Mass Transport Phenomena				
		Appendix D I Welded Tuffs	mplementing	Arrangement #1 of the	U.S. Depar	rtment of	Energy/Russian Aca	demy of Sciences Memorandum of Understanding Urani	um Mass Transport Phenomena in Fractured				
Con	nment:												
593	488	5/18/2000	9/30/2003	Tertiary DOE		565	Secondary DOE	Civilian Radioactive Waste Management	Appendix G - Interaction of Actinides and Fission Products				

**Comment:** 

**Environmental Matrices** 

Thursday, July 17, 2003

Title: Appendix G Implementing Arrangement #1 of the U.S. Department of Energy/Russian Academy of Science Memorandum of Understanding The Interaction of Actinides and Fission Products with

Modification M412

# **All In Force Bilateral Agreements**

**Comment:** 

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
594	488	5/18/2000	9/30/2003	Tertiary DOE		565	Secondary DOE	Civilian Radioactive Waste Management	Appendix H - Actinide Speciation
				Arrangement #1 of the positories and for the Re				ndemy of sciences Memorandum of Understanding Actinide	Speciation in the Environment to Support Safety
Con	ıment:								
566	489	5/15/2000	3/24/2004	Secondary DOE		518	Primary DOE	Environmental Restoration and Waste Management	DOE/RAS Implementing Arrangement 2
				nt #2 Under the Memora ent and Advanced Mode				ited States Department of Energy and the Russian Academy	of Sciences on Cooperation in Science and
Con	ıment:								
589	489	6/2/2000	9/30/2003	Tertiary DOE		566	Secondary DOE	Civilian Radioactive Waste Management	Appendix C - Contaminant Transport Processes in Unsaturated Rocks
				Arrangement #2 of the scribing and Modeling (				demy of Sciences Memorandum of Understanding Interdisturated Rocks	ciplinary Fundamental Research to Further
Con	ıment:								
591	489	5/31/2000	9/30/2002	Tertiary DOE		566	Secondary DOE	Environmental Restoration and Waste Management	Appendix D- Annex A - Chara. Of Contaminated Territories
				nplementing Arrangeme ization, and Cost Minim		e U.S. Do	epartment of Energy/	Russian Academy of Sciences Memorandum of Understand	ling Characterization of Contaminated Territories,
Con	ıment:								
592	489	5/31/2000	9/30/2002	Tertiary DOE		566	Secondary DOE	Environmental Restoration and Waste Management	Appendix D - Annex B - Uncertainty Assessment
	Title:	Annex B of A of Inverse Flo			nt #2 unde	r the DO	E-RAS Memorandun	n of Understanding Uncertainty Assessment Through Incom	poration of Mathematical Geology in Development
Con	ıment:								
605	500	4/25/2001	4/25/2004	Secondary DOE		518	Primary DOE	Science and Technology	Appendix K w/ the Russian Academy of Sciences
		Appendix K U Technology	Inder Implem	enting Arrangement #1	of the Mei	norandu	m of Understanding	Between the U.S. Department of Energy and Russian Acado	emy of Sciences on Cooperation in Science and
Con	ıment:								
606	501	10/1/2000	10/1/2002	Secondary DOE		518	Primary DOE	Uranium Mass Transport Phenomena in Fractured Welded Tuffs	Appendix D of Implementing Arrangement #1w/ Russian Academy of Sciences MOU
		Appendix D I Welded Tuffs	mplementing	Arrangement #1 of The	U.S. Depa	rtment o	f Energy/Russian Ac	ademy of Sciences Memorandum of Understanding Uraniu	m Mass Transport Phenomena in Fractured

Modification M412

### **All In Force Bilateral Agreements**

**Comment:** 

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	<b>Brief Description</b>
52	302	3/18/1992		Statement of Intent			None	Information and/or Personnel Exchange	Electric Power Technologies
	Title:	U.SRussia T	ask Force or	a Cooperation in Electric	Power Te	chnologi	es Joint Statement of	fIntent	
Cor	nment:	Exchange info	rmation on d	evelopments in the electr	ic power in	dustries a	and encourage more e	xtensive contacts among experts in this field in both countr	ies.
537	481	7/24/1998	7/24/2003	Intergovernmental			None	Arms Control and Nonproliferation	Plutonium Management
				overnment of the United ear Military Programs	States of A	merica a	nd the Government o	f the Russian Federation on Scientific and Technical Coo	peration in the Management of Plutonium that has
Cor	nment:	DOE is the Ex	ecutive Ager	nt for the US. The agreen	nent establi	shes the	U.SRussian Joint Ste	eering Committee on Plutonium Management	
619	514	6/30/2000	6/30/2005	Secondary DOE		607	Primary DOE	Civilian Radioactive Waste Management	Protocol extending the agreement between DOE and Russia
	Title:			reement between the De ussian Nuclear Fuel Cyc				of America and the Federal Nuclear, and Radiation Safet	y Authority of Russia for Cooperation on
Cor	nment:	Extending the	agreement m	ention above for five year	rs until Jun	ie 30, 200	05.		
641	536	6/26/200	6/30/2005	Secondary DOE		607	Primary DOE	Arms Control and Nonproliferation	Extension bet. DOE federal Nuclear and Radiation Safety Authority of Russia
	Title:			reement between the De counting of Nuclear Ma		f Energy	of the United States	of America and the Federal Nuclear and Radiation Safety	Authority of Russia to Cooperate on National
Cor	nment:								
636	531	4/23/2002		Statement of Intent			None	Science and Technology	Joint Statement of Intent between DOE and Dubna
	Title:	Joint Stateme	nt of Intent b	etween the Department	of Energy o	of the Un	ited States of Americ	a and the Joint Institute for Nuclear Research at Dubna	
Cor	nment:								
658	553	5/8/2002		Primary DOE			None	*Other - Purchases of Pu-238 for Peaceful Purposes	Purchases of Pu-238 for Peaceful Purposes
	Title:	Joint Announ	cement by th	e United States Departm	ent of Ene	rgy and t	he Russian Federatio	on Ministry for Atomic Energy Concerning Continued Pu	rchases of Pu-238 for Peaceful Purposes
Cor	nment:								
659	554	7/16/2001	7/16/2006	Secondary DOE		210	Primary DOE	Civilian Radioactive Waste Management	Annex VI

Thursday, July 17, 2003
Page 34 of 42

Title: Annex VI to the Memorandum of Agreement between the Department of the United States of America and the International Science and Technology Center in the Russian Federation Concerning

Implementation of Projects of the Office of Civilian Radioactive Waste Management

Modification M412

#### All In Force Bilateral Agreements

Start End Legally Parent ID File# Date Date Agreement Type Binding Parent Type Subject **Brief Description** 

Country: Senegal

4/2/1998 479 433 Statement of Intent None Energy Research and Development SOI - Energy R&D

Title: Memorandum of Understanding between the Republic of Senegal and the United States of America for Cooperation on Energy Policy, Science and Technology, and Research and Development

Comment:

516 3/19/1999 3/19/2004 Primary DOE None Energy Research and Development Energy Policy, S and T, and R and D

Title: Agreement between the Department of Energy and the Ministry of Energy, Mines and Industry of the Republic of Senegal on Cooperation in Energy Policy, Science and Technology, Research and

**Comment:** The objective of this Agreement is to facilitate and establish cooperative activities by the Parties.

Primary DOE

#### Country: South Africa

12/4/1997 12/4/2022 Intergovernmental None Nuclear Energy Peaceful Uses of Nuclear Energy

Title: Agreement for Cooperation between the United States of America and the Republic of South Africa Concerning Peaceful Uses of Nuclear Energy

None

Comment: Cooperate in the development, use and control of peaceful uses of nuclear energy which must be undertaken with a view to protecting the international environment from radioactive, chemical and thermal

contamination. Agreement was signed on 8/25/95 ratified by exchange of diplomatic notes on 12/4/97.

230 369 8/25/1995 Primary DOE None Energy Research and Development Sustainable Energy Development Committee

Title: Terms of Reference on the Sustainable Energy Development Committee of the U.S. - South Africa Binational Commission

Comment:

232

372

231 371 8/25/1995 Primary DOE None Energy Research and Development Sustainable Development Resource Center

Title: Memorandum of Understanding between the World Wildlife Fund-South Africa, EarthKind International, U.S. Department of Energy and U.S. Agency for International Development on Creating the Sustainable Development Resource Center

Comment: Cooperate on the creation of the Sustainable Development Resource enter to advance policies and programs on the use of renewable energy and energy efficiency technologies and participation by

nongovernmental organization in the decision making process. Other signatories are EarthKind Intl (Jan Hartke) and USAID (Larry Byrne)

Energy Efficiency and Renewable Energy Renewable and Energy Efficiency Technologies

Title: Memorandum of Understanding

8/25/1995

Comment: Promotion of renewable energy and energy efficient technologies as a cost-effective means of increasing access to energy of the majority of South Africa disadvantaged population (w/USAID as a partner).

233 374 8/25/1995 Primary DOE None Energy Efficiency and Renewable Energy Electrification of Rural Clinics (Cape Town)

Title: Memorandum of Understanding between Sandia National Laboratories of Albuquerque New Mexico, USA and the Independent Development Trust Cape Town, Republic of South Africa

Comment: Sandia National Lab, as signatory of this MOU, has agreed to co-fund the Independent Development Trust model clinic electrification program and to provide other technical assistance as agreed by mutual consent.

Thursday, July 17, 2003 Page 35 of 42

### **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
234	381	12/5/1995	12/5/2000	Primary DOE			None	Energy Research and Development	Energy Policy, S&T and Development
		Implementing Technology an			es Departm	ent of En	nergy and the Departn	nent of Mineral and Energy Affairs of South Africa	a on Collaboration on Energy, Policy, Science,
Con								ent and commercialization activities in such areas as anologies; and private power project development	: fossil energy, including clean coal; energy planning,
55	423	8/25/1995		Statement of Intent			None	Information and/or Personnel Exchange	Energy Information Exchange
		Joint Stateme Information E		petween the Department	of Energy (	of the Un	nited States of America	an and the Department of Mineral and Energy Aff	airs of the Republic of South Africa on an Energy
Con	ment:								
56	370	8/25/1995		Statement of Intent			None	Energy Research and Development	Energy Policy, S&T and Development
				petween the Department nd Development	of Energy o	of the Un	nited States of Americ	an and the Department of Mineral and Energy Aff	airs of the Republic of South Africa on Energy Policy,
Con	ment:	Facilitate joint	t activities rel	ated to energy policy, S&	kT, develop	ment and	d commercialization in	n an environmentally and economically sound manner	er.
57	373	8/25/1995		Statement of Intent			None	Energy Efficiency and Renewable Energy	Renewable Energy (Guguletu Township)
				or Integrated Industrial uletu RDP Forum	/Education	al Develo	opment in Guguletu T	ownship between the United States Department of	Energy, United States Department of Energy National
Con	ment:	Establishment	of a light ind	lustrial part in Guguletu	Γownship.				
58	375	8/25/1995		Statement of Intent			None	Energy Efficiency and Renewable Energy	Renewable Energy (The Csir, South Africa)
				newable Energy Techno Republic of South Africa		en the N	National Renewable E	nergy Laboratory, U.S.A. and Sandia national Lab	oratories, U.S.A. and the CSIR (Council for Scientific
Con				g signatories of this State Witnessed by Secretary (		agreed to	o exchange experience	and views on opportunities for the appropriate utilize	zation of renewable energy technologies with The Csir,
59	383	12/5/1995		Statement of Intent			None	Fossil Energy	Mitigation of Greenhouse Gases
	Title:	Statement of I	Intent concer	ning Cooperation in Su	stainable E	nergy De	evelopment and the M	litigation of Greenhouse gases between the Republi	ic of South Africa and the United States of America
Con		sinks in an env	rironmentally		conomicall	y equitab	ole fashion through de	litional mitigation of climate change by addressing a ployment of greenhouse gas mitigation technologies	
60	382	12/5/1995		Statement of Intent			None	Energy Research and Development	South Africa/Provincial Gov'ts Cooperation Agreement - Statement of Intent
	Title:	Cooperative A	lgreement be	tween Provincial Govern	nments of t	he Repub	blic of South Africa or	n Regional Cooperation in Energy	

Thursday, July 17, 2003

Comment: Intention to cooperate in a manner which will facilitate joint activities related to energy development in an environmentally and economically sound way with the following provincial governments of South Africa: Province of the Free State; Northern Cape Province; Eastern Cape Province

Modification M412

#### **All In Force Bilateral Agreements**

Start End Legally Parent

ID File# Date Date Agreement Type Binding ID Parent Type Subject Brief Description

Country: **Spain** 

100 404 9/15/1997 9/15/2007 Primary DOE None Environmental Safety Health Research on Radiological Evaluations

Title: Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Industry and Energy of the Kingdom of Spain on Cooperation in Research on Radiological Evaluations

Kaaiological Evaluation

**Comment:** 

307 404 9/15/1997 9/15/2007 Secondary DOE 100 Primary DOE Environmental Safety Health Annex 1

Title: Project Annex 1 - cooperation on research in radiological evaluations

Comment: Related to radioactive waste management.

5 171 12/12/198 Primary DOE None Science and Technology Science & Technology

Title: Agreement between the United States Department of Energy and the United States-Spain Joint Committee for Scientific and Technological Cooperation

Comment: Establish responsibilities, guidelines and procedures for evaluating, funding and coordinating research proposals, projects and related activities in the field of energy selected and funded by the

US-Spain Joint Committee for S&T Cooperation.

596 491 7/15/2000 7/15/2006 Primary DOE None Energy Research and Development MOU for Energy Cooperation

Title: Memorandum of Understanding Between The Ministry of Science and Technology of the Kingdom of Spain and The Department of Energy of the United States of America Concerning Cooperation in

Energy

Comment:

Country: Sweden

218 235 2/11/1988 Primary DOE None \*Other - Classified Subject and Umbrella contents are classified

Title: Subject and Umbrella contents are classified

Comment: Description not available in History

580 442 10/23/199 10/23/200 Primary DOE None Civilian Radioactive Waste Management Radioactive Waste Management

Title: Agreement between the United States Department of Energy and the Swedish Nuclear Fuel and Waste Management Company Concerning a Cooperative Program in the Field of Radioactive waste

Management

**Comment:** 

Country: Switzerland

Thursday, July 17, 2003

Page 37 of 42

Modification M412

#### **All In Force Bilateral Agreements**

Start End Legally Parent

ID File# Date Date Agreement Type Binding ID Parent Type Subject Brief Description

225 418 12/23/199 12/23/200 Primary DOE None Civilian Radioactive Waste Management Radioactive Waste Management

Title: Agreement between the Department of Energy of the United States of America and the National Cooperative for the Disposal of Radioactive Waste in Switzerland in the Field of Radioactive Waste

Comment: Auto extension for 5 yr. Periods.

### Country: Thailand

227 400 3/20/1997 Primary DOE None Arms Control and Nonproliferation Lab-to-Lab arrangement

Title: Arrangement for the Exchange of Technical Information and for Cooperation in the Field of Peaceful Uses of Nuclear Energy between the Office of Atomic Energy for Peace of Thailand and the

United States Department of Energy

Comment: Open ended.

538 400 3/6/2000 Secondary DOE 227 Primary DOE Arms Control and Nonproliferation Action Sheet 1 - Preliminary Safety Anaysis Report

Title: Action Sheet 1 between the Office of Atomic Energy for Peace of Thailand and the United States Department of Energy for Preliminary Safety Analysis Report Review

**Comment:** 

#### Country: Turkey

624 519 3/20/2002 3/20/2007 Primary DOE None Science and Technology Cooperation in Energy Technology

Title: Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Energy and Natural Resources of the Republic of Turkey for Cooperation in Energy Technology

Comment:

625 520 3/20/2002 3/20/2002 Secondary DOE 624 Primary DOE Science and Technology Annex 2 - Cooperation in the Field of Coal and Power Systems

Title: Annex 2 to the Implementing Arrangement between the Department of Energy of the United States of America and the Ministry of Energy and Natural Resources of the Republic of Turkey for Cooperation in the Field of Coal and Power Systems

Comment:

#### Country: *Ukraine*

507 454 4/26/1996 Intergovernmental None \*Other - Radioactive Waste Chernobyl Center

Title: Memorandum of Understanding on Participation In and Support of the Activities of the International Chernobyl Center on Nuclear Safety, Radioactive Waste and Radioecology

Comment:

Thursday, July 17, 2003

Page 38 of 42

Modification M412

### **All In Force Bilateral Agreements**

		Start	End		Legally	Parent			
ID	File#	Date	Date	Agreement Type	Binding	ID	Parent Type	Subject	<b>Brief Description</b>
508	455	7/22/1998	7/22/2003	Intergovernmental			None	*Other - Radioactive Waste	Int'l Radioecology Lab
	Title:	Agreement bei	tween the Go	vernment of the United	States of A	merica a	nd the Government o	f Ukraine Concerning the International Radioecology L	aboratory of the International Chernobyl Center on
		Nuclear Safety	, Radioactive	e Waste and Radioecolog	gy			,	
Con	ment:	Department of	Energy is the	Executive Agent					
			23	Z.					
510	457	5/6/1998	5/4/2028	Intergovernmental			None	Nuclear Energy	US-Ukraine PNC
	Title:	Agreement for	r Cooperation	n between the United Sta	ites of Ame	rica and	Ukraine Concerning	Peaceful Uses of Nuclear Energy	
Con	ment:								
54	330	4/8/1994		Statement of Intent			None	Nuclear Energy	Shutdown Chernobyl Nuclear Power Plant
	Title:	Joint Statemen	nt About Pati	hs to the Soonest Possib	le Shutdow	n of the	Chernobyl Nuclear P	ower Plant	
Con	ment:	Undertake nea	r-term joint a	nalysis of options for ear	liest possib	ole closur	e of the Chernobyl po	wer plant.	

### Country: **United Kingdom**

41	364	7/25/1995		Statement of Intent		None	Environmental Restoration and Waste Manage	ement	Nuclear Clean-Up	
	Title:	Heads of Agr	eement for Co	poperation Between the Uni	ted States Depa	rtment of Energy	and the United Kingdom Department of Trade and I	Industry on ti	heir Perspective Program for Nuclear Cle	an-up
Cor	nment:	Cooperate, thi	ough sharing	of information, on similar is	sues associated	with nuclear deco	mmissioning and clean-up			
42	390	9/5/1996		Statement of Intent		None	Environmental Restoration and Waste Manage	ement	Environmental Restoration and Waste Mar	nagement
	Title:	Statement of	Intent betwee	n the United States Departn	nent of Energy	and the United Ki	ngdom Department of Trade and Industry			
Cor	nment:	Establish fram	nework for co	operation in R&D of technol	ogies for the tre	atment, packaging	g, disposal of aluminum-based spent nuclear fuel.			
598	493	11/6/2000	11/6/2010	Primary DOE		None	Energy Research and Development		MOU on Energy Research and Developme	nt
	Title:			nding Between The Depart n Energy Research and Dev		of the United Stat	tes of America and The Department of Trade and Ind	dustry of the	United Kingdom of Great Britain and No.	rthern
Cor	nment:	Provides for c	ooperation in	Fossil Energy, Energy Effic	iency, Renewab	le Energy and the	waste-related management and the environment.			
634	529	11/17/200	11/17/200	Secondary DOE	598	Primary DOE	Environmental Management		AEA Technology plc	
	Title:	Implementing	Arrangemen	nt between the Department o	of Energy of the	United States of	America and AEA Technology plc Under the Memor	randum of U	nderstanding on Energy R&D between the	2

Department of Energy of the United States of America and the Department of Trade and Industry of the United Kingdom of Great Britain and Northern Ireland

**Comment:** 

Page 39 of 42 Thursday, July 17, 2003

Modification M412

#### **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
611	506	9/17/2001	9/17/2006	Primary DOE			None	Nuclear Verification Technologies	MOU between DOE and the Department of Trade and Industry of the United Kingdom
				nding between the Depo velopment and Impleme					y of the United Kingdom of Great Britain and Northern
Con	nment:								
637	532	7/25/2002	7/25/2007	Primary DOE			None	Science and Technology	Implementing Agreement between DOE and Great Britain
								erica and the Secretary of State for Defense of the U and Protection-Related Technologies	Inited Kingdom of Great Britain and Northern Ireland for

**Comment:** 

638 533 7/3/2002 7/3/2007 Primary DOE None Science and Technology Gov't to Gov't agreement between US and Great

Title: Agreement between the Government of the United States of America and the Government of the United Kingdom of Great Britain and Northern Ireland for Cooperation in Research and Development of Weapons Detection and Protection-Related Technologies

**Comment:** 

652 547 3/10/2003 3/10/2008 Primary DOE None Fossil Energy Cooperation in the Field of Fossil Energy

Title: Implementing Arrangement between the Department of Energy of the United States of America and the Department of Trade and Industry of the United Kingdom of Great Britain and Northern Ireland to Cooperate in the Field of Fossil Energy Technology

Comment:

143 278 6/11/1990 6/11/2000 Primary DOE None Energy Research and Development Energy R&D

Title: Memorandum of understanding between the U.S. Department of Energy and the Department of energy of the United Kingdom of Great Britain and Northern Ireland on collaboration in energy research and development

Comment: To continue and maximize cooperation in energy research and development.

Country: <u>Uzbekistan</u>

628 523 3/12/2002 Primary DOE None Arms Control and Nonproliferation Proliferation of Nuclear Materials and Technologies

Title: Agreement between the Department of Energy of the United States of America and the Ministry of Foreign Affairs of the Republic of Uzbekistan Concerning Cooperation in the area of Prevention of Proliferation of Nuclear Materials and Technologies

**Comment:** 

#### Country: Venezuela

Thursday, July 17, 2003

Page 40 of 42

Modification M412

### **All In Force Bilateral Agreements**

Venezuela in the Area of Oil and Petrochemistry Ecology and Environmental Research

Comment: Information exchange, biotechnology update and analysis of industrial and environmental trends.

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description	
228	408	10/13/199	10/13/200	Primary DOE			None	Energy Research and Development	Energy Cooperation	
	Title:	Agreement fo	r Energy Cod	peration between the D	epartment (	of Energ	y of the United States	of America and the Ministry of Energy and Mines of the I	Republic of Venezuela	
Cor	Comment: Supersedes the March 6, 1980 Energy R&D agreement									
443	73	7/10/1980	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 1 - Crude Characterization	
	Title:	Project Annex	x I between tl	he Department of Energ	y of the Un	ited Stat	es of America and the	Ministry of Energy and Mines of Venezuela for the Joint	Characterization of Heavy Crude Oils	
Cor	nment:	Exchange pub	lished technic	cal information and joint	ly modify o	or develo	p new techniques for the	he characterization of heavy crude oil and heavy ends.		
444	82	9/29/1980	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 4 - Enhanced Oil Recovery Thermal Processes	
	Title:	Project Annex Process	x IV between	the Department of Ener	rgy of the U	Inited St	ates of America and th	ne Ministry of Energy and Mines of the Republic of Veneza	uela in the Area of Enhanced Oil Recovery Thermal	
Cor	nment:	Cooperate in to processes are o	1.1	n of additives to steam in	njection for	the recov	very of heavy oil there	by further efforts on the understanding of the thermal proces	ses and the reservoir and its fluids where these	
445	137	3/14/1984	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 10 - Training of Petroleum Engineers	
	Title:	Project Annex	x X between t	the Department of Energ	gy of the Ui	nited Sta	tes of America and the	e Ministry of Energy and Mines of the Republic of Venezu	ela for On-Site Training of Petroleum Engineers	
Cor	nment:	Training of Vo	enezuelan pet	roleum engineers at Elks	s Hills Nava	al Petrole	eum Facility.			
446	264	2/16/1989	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 14 - Exchange of Energy-Related Personnel	
	Title:	Project Annex	x XIV betwee	n the Department of En	ergy of the	United S	States of America and	the Ministry of Energy and Mines of the Republic of Vene	zuela for the Exchange of Energy-Related	
Cor	nment:	DOE and ME	MV shall coo	perate in using their goo	d offices an	nd taking	all reasonable steps to	facilitate the exchange of energy-related personnel between	Venezuela and the U.S. in the areas of fossil	
447	333	4/26/1994	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex 15 - Oil Recovery Information and Tech. Transfer	
	Title:		, 0	XV to the Memorandum Oil Recovery Informatio				ent of Energy of the United States of America and the Mini	stry of Energy and Mines of the Republic of	
Cor	nment:	Evaluate past	and ongoing	improved oil recovery pr	rojects in U	S and Ve	enezuela; Data base co	mpilation and exchange		
499	448	8/15/1995	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Annex 16 - Oil and Petrochemical Ecology and Environmental Research	
	Title:			XVI to the Memorandui			between the Departm	ent of Energy of the United States of America and the Min	istry of Energy and Mines of the Republic of	

Modification M412

# **All In Force Bilateral Agreements**

ID	File#	Start Date	End Date	Agreement Type	Legally Binding	Parent ID	Parent Type	Subject	Brief Description
500	449	9/7/1995	10/13/200	Secondary DOE		228	Primary DOE	Fossil Energy	Annex 17 - Drilling Technology
			_	XVII to the Memorandurilling Technology	ım of Under	rstanding	g between the Departn	nent of Energy of the United States	of America and the Ministry of Energy and Mines of the Republic of
Cor	nment:	Exchange info	rmation and t	training of personnel on	drilling tech	nologies	s for more efficient and	l cost-effective methods drilling.	
633	528	8/9/2001	8/9/2006	Secondary DOE		228	Primary DOE	Fossil Energy	Project Annex No. XVIII - Natural Gas Technologies
		•		o the Agreement for En he area of Natural Gas	OF 1		etween the Departmen	t of Energy of the United States of A	America and the Ministry of Energy and Mines of the Bolivarian

**Comment:** 

Modification M412

# Part III - List of Documents, Exhibits, And Other Attachments

#### **Section J**

### Appendix H

Department of Energy Office of Science Mission Stretch Goal(s) Performance Evaluation and Measurement Plan

Modification M412

#### **APPENDIX H**

# MISSION STRETCH GOAL(S) PERFORMANCE EVALUATION AND MEASUREMENT PLAN

#### FY 2004 - 2007

# MISSION STRETCH GOAL(S) PERFORMANCE EVALUATION AND MEASUREMENT PLAN

for

Management and Operations of the

**Pacific Northwest National Laboratory** 

Modification M412

#### **Table of Contents**

I.	INTR	RODUCTION	1
II.	DETI	ERMINING THE CONTRACTOR'S PERFORMANCE IN MEETING MISSION	
	STRE	ETCH GOALS AND MISSION STRETCH GOAL INCENTIVE FEE EARNED	2
III.	MISS	SION STRETCH GOALS, OBJECTIVES, & PERFORMANCE MEASURES	3
	1.0	OFFICE OF BIOLOGICAL AND ENVIRONMENTAL RESEARCH (BER) MISSION	
		STRETCH GOAL (79%)	3
	2.0	OFFICE OF BASIC ENERGY SCIENCE (BES) MISSION STRETCH GOAL (14%)	4
	3.0	OFFICE OF ADVANCED SCIENTIFIC COMPUTING RESEARCH (ASCR) MISSION	
		STRETCH GOAL (7%)	5

Modification M412

#### I. INTRODUCTION

This document describes the Mission Stretch Goal(s) developed to incentivize Battelle's (hereafter referred to as "the Contractor") performance in several specific programs carried out within the Pacific Northwest National Laboratory (hereafter referred to as "the Laboratory") for the evaluation period from October 1, 2003, through September 30, 2007. Mission stretch goals identify multi-year, specific exceptional results that the Contractor is incentivized to achieve over the duration of the contract. These goals are designed to inspire enhanced Contractor performance above and beyond that which is expected to be accomplished in meeting program goals within the annual performance evaluation and measurement plan (Appendix E). The commitment or use of existing or new programmatic funds as appropriate to accomplish stretch goals is neither required nor precluded. The intent is to encourage the Contractor to undertake extraordinary efforts to reach truly exceptional performance. Three programs within the Department of Energy (DOE) Headquarters (HQ) Office of Science (SC) have been identified and are listed below. Although these programs represent the current set of mission stretch goals for the contract period identified above, other DOE HQ program offices (i.e., EM, NA, IN, CN, EE, FE) may identify additional mission stretch goals, which upon agreement of the parties would be added to this appendix via formal modification of the contract; provided, however, that if the parties cannot reach agreement on such mission stretch goals, objectives, and/or performance measures, the Contracting Officer shall have the unilateral right to establish reasonable new mission stretch goals, objectives, and/or performance measures.

- Biological and Environmental Research (BER): 79%
- Basic Energy Sciences (BES): 14%
- Advanced Scientific Computing Research (ASCR): 7%

The weightings for the above mission stretch goals were calculated based on FY 2002 data provided in the FY 2002 – FY 2006 PNNL Institutional Plan dated January 2002. The numbers represent the percentage of each individual program's funding at the Laboratory relative to the others.

This document also describes the distribution of the total available mission stretch goal incentive fee and the methodology for determining the amount of fee earned by the Contractor as stipulated within the clauses entitled, "Determining Total Available Mission Stretch Goal(s) Incentive Fee and Fee Earned," "Conditional Payment of Fee, Profit, or Incentives," and "Total Available Fee: Base Fee and Performance Fee Amount." In partnership with the Contractor and key customers, the DOE HQ program office(s) and the Pacific Northwest Site Office (PNSO) have defined the mission stretch goals that serve as incentives to extend the Contractor's otherwise outstanding performance in each of the critical areas identified for the future of the Laboratory.

The overall performance against this mission stretch goal plan will be utilized to determine the amount of the total available mission stretch goal incentive fee earned by the Contractor as stipulated within the contract clauses "Determining Total Available Mission Stretch Goal(s) Incentive Fee and Fee Earned" and "Total Available Fee: Base Fee and Performance Fee Amount." Battelle may receive a mission stretch goal incentive fee of up to \$3.0M based on the Contractor's ability to meet the mission stretch goals set forth within this document. The fee amount identified above, as well as the weightings assigned to each mission stretch goal, is based solely on the current set of identified mission stretch goals and may be increased/changed upon agreement of the parties, as appropriate, based on the addition of any mission stretch goals; provided, however, that if the parties cannot reach agreement on the total available fee for any additional mission stretch goals or the weighting of the mission stretch goals, the Contracting Officer shall have the unilateral right to establish a new total available mission stretch goal fee and new weightings assigned to each mission stretch goal.

<u>Section II</u> provides information on how the DOE will determine if the mission stretch goals have been met by the Contractor, as well as how the mission stretch goal incentive fee earned (if any) will be determined.

Modification M412

<u>Section III</u> provides the detailed information concerning the mission stretch goals, objectives, and performance measures.

# II. DETERMINING THE CONTRACTOR'S PERFORMANCE IN MEETING MISSION STRETCH GOALS AND MISSION STRETCH GOAL INCENTIVE FEE EARNED

The DOE shall verify and validate Contractor's success in meeting the mission stretch goals based on the criteria outlined in Section III, Mission Stretch Goals, Objectives, & Performance Measures. The mission stretch goals shall be evaluated and incentive fee earned awarded independent of each other. Each of the mission stretch goals are comprised of an objective(s) and performance measures which will be utilized to determine the Contractor's overall success in meeting each mission stretch goal. In order to earn a value point for a performance measure, the Contractor must meet, to the satisfaction of the PNSO and the appropriate HQ program office, all of the components of the measure. For each measure that is fully met by the Contractor, the measure shall be awarded one (1) value point. Should a measure be only partially met, or not met at all, a value point of zero (0) shall be indicated for that measure. The overall objective rating will then be computed by multiplying the value points by the weight of each performance measure within an objective. These values are then added together to develop an overall score (percentage) for each objective. The score (percentage) for each objective within a mission stretch goal is computed in the same manner and is used to develop an overall score (percentage) for each mission stretch goal. A set of tables is provided at the end of each mission stretch goal section of this document to assist in the calculation of the measures, to objective score(s), to the overall mission stretch goal score. These scores (percentages) shall be indicated within Table A to calculate the overall mission stretch goal incentive fee earned by the Contractor.

Table A indicates the total available incentive fee for each of the mission stretch goals and will be utilized to indicate the amount earned for each:

Mission Stretch goal	Weight	Available Incentive Fee	Percentage Earned	Total Mission Stretch Goal Incentive Fee Earned
Office Of Biological And Environmental Research (BER)	79%	\$2,370,000.00		
Office Of Basic Energy Science	14%	\$420,000.00		
Office Of Advanced Scientific Computing Research (ASCR)	7%	\$210,000.00		
		T	otal Incentive Fee Earned	

Table A. Mission Stretch Goal Incentive Fee for the Contract Period

Furthermore, in order to earn any mission stretch goal fee, the Contractor must maintain an overall performance evaluation rating of "Outstanding" within Science and Technology for each year of the term of this contract, as determined by the Performance Evaluation and Measurement Plan, documented within Section J, Appendix E, of this contract. Should the Contractor not meet the above standards, the overall available mission stretch goal incentive fee for all current mission stretch goals shall be reduced by 25 percent for each year the standard is not met; provided however that, if the Contractor's rating in Science and Technology falls below "Outstanding" for any three performance periods the Contractor shall not be eligible to earn any mission stretch goal incentive fee.

Unless otherwise agreed upon by the parties, final verification/validation of the mission stretch goals shall be conducted during the final quarter of the contract term (fourth quarter FY 2007). A determination will be made whether the mission stretch goal(s) were met or not and shall be provided to the Contractor, to include authorization to draw-down any mission stretch goal incentive fee earned, concurrently with the year-end performance evaluation report issued in accordance with Section J, Appendix E, "Performance Evaluation and Measurement Plan."

Modification M412

Should the Contractor believe it has successfully met a mission stretch goal and/or objective prior to the fourth quarter of FY 2007, the Contractor shall notify the DOE in writing. Upon such notification, the DOE may, at its sole discretion, verify/validate such completion and award any mission stretch goal incentive fee earned. The Contractor may be provisionally paid the mission stretch goal incentive fee through a withdrawal against the payments cleared financing arrangement as provided in writing by the Contracting Officer. In the event the Contractor does not meet the required performance standards, which resulted in the total available mission stretch goal incentive fee being reduced, any overpayment plus interest shall be redeposited by the Contractor to the payments cleared financing arrangement within 30 calendar days, or otherwise as directed by the Contracting Officer. Interest shall be computed from the date of the end of the performance period in which the Contractor did not meet the above mentioned standards to the date of repayment using the interest rate specified by the Secretary of the Treasury pursuant to Pub. L. 92-41 (85 Stat. 97).

#### III. MISSION STRETCH GOALS, OBJECTIVES, & PERFORMANCE MEASURES

The following sub-sections describe the mission stretch goals, objective(s), and associated performance measures for the contract period (FY 2004 - 2007). These mission stretch goals are each extraordinary, and accomplishment of them will represent exceptional performance.

# 1.0 OFFICE OF BIOLOGICAL AND ENVIRONMENTAL RESEARCH (BER) MISSION STRETCH GOAL (79%)

The Contractor shall accomplish, within the contract period, a mission stretch goal in environmental biology, and a measurable substantial increase in the scientific impact of the Environmental Molecular Sciences Laboratory (EMSL).

The understanding of how naturally occurring microbes impact the fate and transport of contaminants in the environment is vital to the Department's ability to make risk-based remediation decisions as well as new technologies for remediation at DOE contaminated sites, of which there are over 7,000 that have been identified. A molecular understanding of these processes involves the interplay between the disciplines of chemical, geological, and biological sciences. The ability to make risk-based decisions on remediation could potentially save DOE \$100 billion over 30 years and would also be applicable to other contamination problems such as mining and industrial contamination. In addition, such knowledge will contribute to the understanding of how cells interact with mineral or metal surfaces, which will have a broad impact in the biology community. Users from fields beyond the environmental sciences will also use EMSL's capabilities to understand how cells receive and send messages from and to their environment and their neighbors. Fundamental advances in cell signaling will help us understand not only microbes but also human development and disease leading to the discovery of new medicines for diseases, ranging from developmental disorders to cancer. This new knowledge of how cells communicate will even speed our efforts to understand the biological effects of low doses of radiation and thus improve the scientific basis for future radiation protection standards.

- 1.1 The Contractor will work to establish an international reputation for EMSL as a leading environmental and biology laboratory specializing in interdisciplinary research. Success will be assessed based on the importance and the scientific excellence of the research conducted at the Environmental Molecular Sciences Laboratory (EMSL). Specific measures of success are:
  - 1.1.1 Minimum of 8 journal publications in Science, Nature, or PNAS.
  - 1.1.2 Develop and deploy to the user community a minimum of 5 new or improved capabilities/methodologies for investigation of environmental and biology problems verified and validated by EMSL's User Advisory Committee (UAC) which provides a recommendation to BER regarding the completion of the measure.

1.2 The Contractor will increase the scientific impact of the EMSL user program within the environmental and biology research community. Specific measures of success are:

- 1.2.1 Development and implementation within the EMSL user program of two scientific grand challenges in the areas of subsurface fate & transport and biology. The increased scientific impact of the user program by one of these grand challenges will be verified and validated by a subcommittee of BERAC which will provide recommendation to BER regarding the successful completion of this measure.
- 1.2.2 Over the period of the contract, 15% or more of the total user time available in 4 of the major facilities in EMSL (CPCS, ESB, HFMR, HPMS, INS, MSC) will be utilized by users associated with the grand challenges.

ELEMENT	Value	Indicator	Total	Objective	Total
	Points	Weight	Score	Weight	Score
1.0 OFFICE OF BIOLOGICAL AND					
ENVIRONMENTAL RESEARCH (BER)					
MISSION STRETCH GOAL					
1.1 The Contractor will work to establish an					
international reputation for EMSL as a leading					
environmental biology laboratory,					
1.1.1 Publications in prestigious journals.		70%			
1.1.2 New or improved capabilities/methodologies.		30%			
		Objective 1	1.1 Total	50%	
1.2 The Contractor will increase the scientific					
impact of EMSL					
1.2.1 Establish grand challenges in subsurface fate		700/			
& transport and biology.		70%			
1.2.2 Use of major facilities by grand challenge		30%			
users.		30%			
		Objective 1	1.1 Total	50%	
		Mission S	Stretch go	al 1.0 Total	

Table 1.1. BER Mission Stretch Goal Evaluation Score Calculation

#### 2.0 OFFICE OF BASIC ENERGY SCIENCE (BES) MISSION STRETCH GOAL (14%)

The Contractor shall accomplish, within the contract period, an increased national position for the Laboratory in condensed-phase and interfacial chemical physics and an active engagement of leading scientists and students external to the Laboratory.

Condensed-Phase and Interfacial Chemical Physics is the study of the chemical and physical properties of molecules in solution and at the boundaries between surfaces and solutions. Understanding molecular scale behavior in such systems is the key to controlling chemistry, chemical transport, and materials properties in the condensed phase. Meeting this mission stretch goal will accelerate the dissemination of the scientific methods and theories that the Laboratory develops with BES support. This in turn will accelerate research discoveries throughout the Nation by significantly enhancing the ability of scientists to understand, design, and optimize the processes associated with new sources of energy, chemical manufacturing, and environmental remediation that will lead to more effective separations methods for chemical analysis; more specific, efficient, and environmentally friendly catalysts; enhanced capability for detecting chemical species in complex environments; and improved understanding of the migration of chemicals in natural environments.

2.1 Over the contract period the Contractor shall establish the Laboratory in a national leadership role in the area of theoretical and experimental condensed phase and interfacial chemical physics research which will lead to more efficient and effective separations methods for chemical manufacturing and chemical analysis, more specific, efficient, and environmentally friendly catalysts, enhanced capability for detecting chemical species in complex environments, and improved understanding of the migration of chemical species in natural environments. Work in condensed-phase catalysis may have strong and near-term societal relevance, because over 90% of all commercial chemical processes are catalytic. Economic impacts can be substantial. For example, the catalytic process known as Ziegler-Natta polymerization, a process that currently produces about 100 billion pounds of plastics per year worldwide, is based on designs that were first introduced by BES supported investigators. Successful achievement of a national leadership role will be evidenced by:

- 2.1.1 Establishment of a visible visiting distinguished scientist program with the goal of productive scientific and intellectual exchange. The contractor shall host at least 16 visiting senior scientists (tenured faculty from major research universities or equivalent form industrial or national laboratories) for a duration of not less than 10 weeks (one scientist may constitute multiple visits during the period, but not more than once per year) over the contract period. Two of the 16 visits can be accomplished by a compilation of shorter duration visits. A total of 20 visitor weeks will be deemed equivalent to one 10 week visit.
- 2.1.2 Establishment of a summer school (at least two weeks in duration) to educate graduate students and young scientists in state-of-the-art theory, simulation, and experimental measurement, with a total attendance of at least 60 over the contract period.

ELEMENT	Value Points	Indicator Weight	Total Score	Objective Weight	Total Sore
2.0 OFFICE OF BASIC ENERGY SCIENCE (BES) MISSION STRETCH GOAL					
2.1 The Contractor shall establish the Laboratory in a national leadership role in the area of theoretical and experimental condensed phase and interfacial chemical physics research					
2.1.1 Establishment of a visible visiting scientist program.		50%			
2.1.2 Establishment of a summer school to educate graduate students and young scientists in state-of-the-art theory, simulation, and experimental measurement.		50%			
		Objective 2	2.1 Total	100%	
		Mission S	tretch Go	al 2.0 Total	

Table 2.1. BES Mission Stretch Goal Evaluation Score Calculation

# 3.0 OFFICE OF ADVANCED SCIENTIFIC COMPUTING RESEARCH (ASCR) MISSION STRETCH GOAL (7%)

The Contractor shall accomplish, within the contract period, significant improvements in the effectiveness of the HP 11-TeraFLOPS computer at the EMSL as a tool for scientific discovery.

Parts 3.1.1 and 3.1.2 below are in computational chemistry; part 3.1.3 in computational biology; and part 3.1.4 in large-scale simulation of subsurface processes. Attainment of this mission stretch goal will require performance improvements over existing methods in computational performance by 20%

in some areas to 100% in other areas. It will also require substantial improvements in algorithms and other areas. Accomplishment of these goals will enable the Laboratory to exercise world leadership in computational chemistry and biology.

- 3.1 The Contractor will achieve sustained efficiencies at peak speeds (11-TeraFLOPS) as evidenced by the following calculations. ASCR will convene an independent review group to review the data with respect to the achievement of the efficiency targets and provide a recommendation to ASCR regarding the successful completion of the measures.
  - 3.1.1 60% for high level correlation energy calculations.
  - 3.1.2 20% for density functional theory calculations.
  - 3.1.3 15% for molecular dynamics simulations.
  - 3.1.4 15% for operator split reactive transport calculations.

ELEMENT	Value Points	Indicator Weight	Total Score	Objective Weight	Total Sore
3.0 OFFICE OF ADVANCED SCIENTIFIC					
COMPUTING RESEARCH (ASCR) MISSION					
STRETCH GOAL					
3.1 The Contractor will achieve sustained					
efficiencies at peak speeds (11-TeraFLOPS)					
3.1.1 60% for high level correlation energy		50%			
calculations.		3070			
3.1.2 20% for density functional theory		15%			
calculations.		13/0			
3.1.3 15% for molecular dynamics simulations.		15%			
3.1.4 15% for operator split reactive transport		200/			
calculations.		20%			
		Objective 3	3.1 Total	100%	
		Mission S	tretch Go	al 3.0 Total	

Table 3.1. ASCR Mission Stretch Goal Evaluation Score Calculation