

## Crane Pick Plan

This form is used to identify the personnel performing the work and the load information. Complete this form and submit to Construction Manager for review. **DO NOT leave fields blank, use N/A.**

<b>Job:</b>	<b>Date(s):</b>
	<b>Location:</b>
<b>Personnel and Equipment Information</b> <span style="float: right;"><i>Note: *Cannot act as a dual role</i></span>	
Crane Make/Model <small>(Attach Annual Inspection)</small>	
Lift Director	
Certified Crane Operator* <small>(Attach Certification)</small>	
Qualified Signal Person(s) <small>(Attach Certifications)</small>	
Qualified Rigger(s) <small>(Attach Certifications)</small>	
Description of Load(s)	
<b>Load Information</b>  Counter Weight (if used):  Spreader Bar/Beam Used:      YES          NO <small>(Attach Certifications)</small>	
(1) Load weight (lbs):	
(2) Load deductions for crane (lbs):	
(3) Total weight of all rigging (lbs):	
Total lifted load (1+2+3):	
Longest planned radius of the lift (ft):	
Crane capacity at the longest planned radius (lbs): <small>(Attach Load Chart)</small>	
Percentage of crane capacity (In decimal form):	
Is the percentage >0.75 (PNNL SME peer reviewed required)	<div style="display: flex; justify-content: space-around;"> <span>YES</span> <span>NO</span> </div>

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Lift Director Signature: \_\_\_\_\_ Date: \_\_\_\_\_

Hazard Assessment			
The load handling category should be determined based on the review of the following considerations ( <b>DO NOT leave boxes un-checked</b> ):			
<b>a) Potential Hazards to Persons:</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
(1) If the load handling activity will involve personnel lifting.			
(2) If the load will be moved or suspended over areas accessible to personnel, or occupied buildings.			
(3) If the load contains hazardous materials.			
(4) If load handling personnel will be in locations that may be hazardous during the handling activity (e.g. pinch points, crush points).			
<b>b) Hazards in Proximity to the Work Area:</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
(1) If the load and/or the LHE can encroach the prohibited zone of power lines.			
(2) If there is potential for electromagnetic radiation/radio frequency hazard (e.g., loss of communication, electrical discharges, and shock).			
(3) If the load handling activity can cause damage to pipe lines, tanks, equipment, or products that could create an adverse environmental impact.			
<b>(c) Complexity of Load Handling Activity:</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
(1) If the load has potential for instability during the load handling activity due to the:			
(a) design or configuration of the load (e.g., shape, load integrity and sail area).			
(b) center-of-gravity of the load relative to the established connection points.			
(c) load weight shift (e.g., liquid filled, swing arms, and movable parts).			
(2) If the load handling activity uses complex load handling methods.			
(3) If the load handling activity will be performed in proximity to obstructions or in limited clearance areas, including consideration of clearance between the LHE and the load.			
(4) If the load is to be manipulated (e.g., turned, rotated, and tilted).			
(5) If the LHE travels during the lift.			
(6) If the load handling activity uses multiple LHE.			
(8) If special means or access for attaching and removing rigging is required (Vendor v.s OEM attachment points).			
<b>(d) Impact From Location Conditions:</b> If load handling activity could be impacted by conditions such as:	<b>YES</b>	<b>NO</b>	<b>N/A</b>
(1) The area where the LHE will be set up (e.g., ground is stable/firm and in good condition, free of hazards)			
(2) Support for the load, the LHE, or both (e.g., ground, rail, girder, structure, foundation, vessel list, and trim).			

(3) Ambient temperature (e.g., high, low, and range).			
(4) Surfaces moving relative to one another (e.g., from land to water, or water to land, or water to water).			
(5) Visibility (e.g., fog, sun, glare, lightning, and obstructions).			
(6) Precipitation.			
(7) Lightning.			
<b>(e) LHE Capacity and/or Performance:</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
(1) If the load weight is significant compared to the LHE capacity as configured.			
(2) If factors, such as the following, have the potential to encroach upon maximum capacity of the LHE, as configured, and/or diminish its performance:			
(a) increased loading due to extraction or removal of a load (e.g., demolition, suction, and friction).			
(b) dynamic loading (e.g., abrupt starting, stopping, acceleration, and abrupt load transfer).			
(c) line pull.			
(d) brake/clutch/pump setting and/or conditions.			
(e) accuracy of load weight information/determination.			
(f) site conditions as outlined on paragraph 5-2.6 of ASME P30.1.			
(g) potential load shift during load handling activity.			
(h) weight distribution or transfer between multiple LHEs.			
(i) effects of moving to/from liquids (current, buoyancy).			
(j) out-of-plane loading.			
(k) equipment history or condition.			
<b>(f) Rigging Capacity and/or Performance:</b> If factors, such as those listed in (e)(2)-(c) above, and/or the following, have the potential to encroach upon maximum capacity of the rigging, as configured, and/or affect its performance:	<b>YES</b>	<b>NO</b>	<b>N/A</b>
(1) Rigging attachments points of the load (e.g., lifting lugs, pre-cast inserts).			
(2) Side loading of the rigging hardware and attachments.			
(3) Complexity of rigging.			
(4) Weight distribution or transfer of load within the rigging arrangement.			
(5) All rigging component capacities, (e.g., slings, shackles, hooks, etc.) are acceptable for the load.			
<b>(g) Site Requirements Unique to the Load Handling Activities:</b>	<b>YES</b>	<b>NO</b>	<b>N/A</b>
(3) Potential impact to vital infrastructure (e.g., public utilities, roadways, seaports, pipelines, and railroads).			

**NOTE: When "YES" is selected for any of the items in sections (a-g), documentation of the hazard mitigation strategy is required. Documentation of the hazard mitigation may be carried out through the JSA and/or the area provided below.**