Crane Lift and Rigging Plan 0206500_CP_11_23_en_A1.4



General Information

Plan Author:											
Company Name:				Project Na	me & No:						
Lift Date:	Point o	of Conta	ct:	Contact Phone #:							
Crane Operator Inform	<u>mation</u>										
Name:			License #	t: Expira				tion Date:			
License Type:	NCCO/	TLL (swi	ing cab)) NCCCO/TSS (fixed cab)			Other				
Medical Physical Type	:			Expiratio	n Date:			(3 year)			
Crane Information											
Owner:		Make:		N	∕lodel:		Gros	s:	Ton		
Inspection/Certification	n Date:			Decal on Crane	(required)		Perio	odic Report (re	quired)		
Crane Configuration:		On Mo	iin Boom	C	n Jib		On C	outriggers/Sta	bilizers		
Load Rating Chart Sup	plied:		Main Bo	om on Outrigger.	s/Stabilizers		Jib				
Hoist Line Class:	Stando	ard	Rot Res	Breaking	Strength:		lbs	SWL:	lbs		
Winch: Main		Aux	Parts of	Line Used:	Total L	ine Capa	city:		lbs		
Assembly/Disassembl	ly Directo	or (fulfills	s role as Lift	t Director & Site Su	pervisor per ASI	ME)					
Name:			Employer	Employer:		Phone #	# :				
Competent Person:	Yes	No	(Qualified Person:	Yes	No					
Set Up Procedures Implemented: Crane			Crane Mo	ane Manufacturer's Company S			pecific (attach copy to this plan)				
Qualified Rigger											
Name:				Employe	r:						
Rigger Card Type:	Emplo	yer (pro	vide docun	nentation)	3 rd Part	ty		National Cer	tification		
Card Expiration Date:		Qualified Person				sks:	Yes	No			
Qualified Signalperso	<u>n</u>										
Name:				Employe	r:						
Signal Card Type:	Emplo	Employer (provide documentation)				ţ		National Cer	tification		
Card Expiration Date:		Qualified Person for Signal Tasks:						No			

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Contact Information: Use this section to gather all contact information necessary. Make sure you have every section filled with all appropriate phone and cell phone numbers.

Crane Operator: Take information directly off the crane operator's Certification ID card. We recognize NCCCO, CIC, NCCER and OECP Certifications. If the operator provides another type of operator qualification card (internal company, US Military or other), take a copy of the card and consult with CSM as soon as possible. Operators must produce a current medical physical certification. Your state may also require seizures and mental capacity that will not be on a DOT physical.

Crane Information: Name and owner of the crane could be a subcontractor and/or a rental company.

- Monthly inspections require a competent person to perform them and records (includes 14 items) be provided of the most current prior month's inspection. Annual inspections require inspections by a qualified person which include issuing the annual inspection sticker and providing a copy of the annual inspection (21 items) per 1926.1412.
- Note the configuration the crane will be in during the lifts and secure a copy of the appropriate rating chart from the crane. Note the diameter and class of the wire rope along with the Breaking Strength. Divide breaking strength by 3.5 for standard cable or 5 for rotation resistant cable to arrive at the SWL. Note which winch is being utilized for the lift and how many parts of line will be used to make the pick. Multiply the SWL x parts of line used to get total line capacity.
- Note the stamped capacity of the load hook and check to see if the hook used has an installed safety latch (larger hooks will not have or require one).

Assembly/Disassembly Director (AD) (fulfills role as Lift Director and Site Supervisor per ASME):

- Procure the name and title. Can be the operator for simple lifts.
- Ensures all rigging is performed by a Qualified Person and load is stable before hoisting.
- Follows either a) manufacturer guidelines or b) company specific guidelines for setup (contact CSM).
- Ensures the crew understands tasks, hazards, hazardous positions and to notify if out of sight.
- Accounts for ground bearing pressure, identifies hazardous locations, cribbing, hazardous locations, verify assist crane rating and load, load COG, pinch point hazards, hoist brake testing, loss of stability, wind speed force and effect of weather.

Qualified Rigger Onsite

- Get the name of the certified rigger, his 3rd party Certification Card and Issuer. This certification card should be in the riggers name only with no company on it. —OR-
- Get the name of the qualified rigger, his 3rd party or Company Qualification Card and Issuer. This qualification card is company specific and is not portable from one company to another.

Qualified Signalperson Onsite

- Only Required when (1) The point of operation is not in full view of operator or (2) the operator's view is obstructed in the direction the equipment is traveling.
- Get the name of the qualified signalperson, his 3rd party or Company Qualification Card and Issuer. This qualification card is company specific, is not portable and documentation must be on site.
- They have been verified that they understand types, modes and meanings of the signals, crane dynamics, effects of signals on the crane, hazards associated with craning and signaling, the new regulations for working around energized power lines. They have passed a written and/or oral exam and demonstrated knowledge via practical evaluation.

Overhead	Hazards:	No	Yes (if y	es, ident	ify controls):						
Undergrou	Underground Hazards: No Yes (If yes, identify controls):										
Ground Co	nditions:	Level	/ Firm / S	upportiv	e Poor <i>(e)</i>	(plain):					
Cribbing:	Yes (m	ust be im _i	plemente	d) (cribbi	ng size recomm	nended).	<i>:</i>				
Power Line	e Hazard (<35	50kV line)	(for >350	0kV, use 5	50 ft barrier bo	undary)					
Overhead Power Lines: No Yes (voltage and document):											
Demarcation	on Boundary	20 ft:	N/A	360 de	eg Limite	d area ((explain)	<i>:</i>			
20 ft Clearance Distance: Cannot reach w/cra					rane Co	ne Could reach w/crane will				ı w/cra	ne
Proximity Decision: Maintain 20 ft clearance				De-ener	De-energize & ground Use ta				arance		
Table Clearances: Voltage (utility) Warning lines w/proximity alarm Warn						Warnir	ng lines w	//spotte	er		
Lift and Rig	gging Plan										
Load Description: Load Weight:							oad Weight:			lbs	
Projected I	Measuremen	ts: Radi	us:	ft	Boom Angle	:	deg	Boom Lengtl	h:	ft	
Chart Used	d: Main	Boom	Jib	Or	Outriggers	Load	d Rating	Chart x 0.75			lbs
Spreader Bar: N/A Mfg. Site Made				de (PE approval	PE approval) Shackles: size Rating					tons	
Winch:	Main	n Aux Parts of Line Used				Total Line Capacity:					lbs
Slings:	Туре		Si	Ir	In-line Rating			Length			
	Horizontal Angle Additional			al Stress	Stress % Hitch Configuration						
Lift & Rigg	ing Sketch										
Approved By: Plan Author Signature:									Date:		
Reviewed By (Signature): Crane Operator:								Date:			
		PS	O/Superin						Date:		
					Date:						

Project Site Conditions

Instructions for Page 3

Site Conditions:

- Ensure the underground search has been conducted.
- Document any overhead encumbrances or hazards.
- Ground must be evaluated for crane and load support.
- If action is required, indicate who is going to take the appropriate action.
- All cranes on Centennial/JV jobsites need to be cribbed. Cribbing should be double the size of the float pad.

Power Line Hazard (<350kV line= 20ft) (for greater >350kV line use 50ft barrier boundary)

- You must identify the max radius utilized either as a limited use area or 360° via a demarcation line.
- If no part of the crane, line, rigging, load or accessories can reach to within 20 feet of an energized power line, then clearly mark the 20 foot barrier and no signal person is required.
- If the crane can come within 20 feet of the power line (in any direction), the lines must be de-energized and grounded
 OR –
- Clearly mark the 20 foot boundary, utilize a qualified signal person/spotter and do not encroach inside the minimum safe distances outlined in the OSHA "A" Table.

Lift and Rigging Plan

- Known load weight and load configuration for appropriate rigging.
- #1 task is to rig for load stability and be level in rigging.
- Get projected set down measurements from the dry run with the crane.
- Identify all rigging hardware and spreader bars utilized and verify ratings are appropriate.
- Verify all rigging components are labeled or tagged with capacity ratings.
- Identify and verify all slings utilized capacity ratings are sufficient for the load weight and additional sling angle stress imposed on them.
- If any questions arise, consult the qualified rigger and CSM prior to elevating the load.

Lift or Rigging Sketch

Take time to draw out the position of the crane, height and radius in relation to set down area, distances from the load, buildings, distances from hazards, lines of demarcation and 20 foot power line barrier zone. You should also sketch the shape of the load, load weight, rigging hitches, lengths and types of slings and any other configurations utilized.

Required Documentation Checklist

Copy of Operator's License Copy of Crane Load Rating Chart

Copy of Operator's Medical Cert. Sketch of Site Layout and Rigging

Copy of Riggers Card or Cert. Copy of Company Crane Setup

Copy of Annual Crane Insp. Cert. Utility Owner Voltage Information

Copy of Monthly Crane Insp Cert. PE spreader bar or custom rigging