

Mobile Crane On-Site Safety Inspection

Feb 2011

Company Name: _____ Project Name & # _____

Site Conditions	<u>Sat</u>	<u>Unsat</u>	<u>N/A</u>	<u>Comments</u>
Proper Crane Site Access:	_____	_____	_____	_____
Ground Conditions Firm Stable:	_____	_____	_____	_____
Underground Hazards Verified:	_____	_____	_____	_____

Visual Inspection/Verification	<u>Sat</u>	<u>Unsat</u>	<u>N/A</u>	<u>Comments</u>
1) Lift & Qualification Plan	_____	_____	_____	_____
2) Operator's Manual	_____	_____	_____	_____
3) Load Chart	_____	_____	_____	_____
4) Boom (Jib/Attachments)	_____	_____	_____	_____
5) Boom Angle Indicator	_____	_____	_____	_____
6) Anti-Two Block	_____	_____	_____	_____
7) Outrigger Float Pads	_____	_____	_____	_____
8) Cribbing	_____	_____	_____	_____
9) Rigging	_____	_____	_____	_____
10) Hoist Line	_____	_____	_____	_____
11) Specialty Lifting (PE Stamp)	_____	_____	_____	_____
12) Hydraulic Leaks	_____	_____	_____	_____
13) Block/Hook/Sheaves/Latch	_____	_____	_____	_____
14) Yearly Crane Insp. Sticker	_____	_____	_____	_____
15) Warning Labels	_____	_____	_____	_____
16) Fire Extinguisher	_____	_____	_____	_____
17) Barricade Swing Radius	_____	_____	_____	_____
18) Pedestrian/Vehicle Hazards	_____	_____	_____	_____

Any Unsatisfactory remarks on this form represent a no-lift situation

- Critical Lift Determination:**
- | | |
|--|---|
| <ul style="list-style-type: none"> -75% of the rated capacity of the crane load chart -Lift where the center of gravity could change -Lifting with more than one crane (tandem lift) -Multiple lift rigging (steel erection only) -Lifts using more than one hoist on the same crane -Lifts involving non-routine or difficult rigging arrangements. -Crane operations where the load is placed or removed underwater -Lifts the operator believes should be considered critical | <ul style="list-style-type: none"> -Barge mounted crane lifts -Lift involving hazardous material/explosives -Hoisting personnel -Lifts without use of outriggers (on tire chart) -*Lifts out of the operator's view (see note) |
|--|---|

If any of these conditions exist please use "Critical Lift Addendum" with this form.

Lift Review (General Contractor)
Name: _____ **Signature:** _____ **Date:** _____

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On-Site Safety Inspection

Site Conditions: are responsible for providing adequate site conditions such as site access ~~and~~, stable and level ground conditions.

Visual Inspection/Verification:

- 1) Verify that a lift and qualification has been completed, submitted and approved by the PSO and SSR. Verify that the same crane and personnel are present.
- 2) The crane's operator's manual is present and legible.
- 3) The crane's load chart is available for review and within site of the operator.
- 4) The boom, jib and attachments are in adequate condition and operational.
- 5) The boom angle indicator is present and operational.
- 6) The anti-two block device is present and operational.
- 7) Outrigger float pads and used and adequate dimensions.
- 8) Cribbing is used on all lifts and the proper dimensions for the crane.
- 9) The rigging is in good condition, has capacity tags, configured correctly as to not impose unacceptable sling stresses.
- 10) Inspect hoist line for damage, corrosion and lifting capacity.
- 11) If specialty lifting equipment is used (spreader bar etc.) a PE must approve the equipment.
- 12) Inspect hydraulic units for damage and leaks.
- 13) Inspect the block, hook, latch and sheaves for damage, distortion, corrosion and capacity.
- 14) Locate the annual crane inspection sticker (on the crane itself).
- 15) Locate warning labels on the crane (power lines, keep clear etc.) and ensure that they are present.
- 16) At least one dry chemical or CO fire extinguisher with a minimum rating of 10 B:C is installed in the cab or at the machinery housing.
- 17) Barricades must be erected to protect personnel from the swing radius of the crane and pinch points.
- 18) Personnel and vehicles should be kept clear of the area of operation during crane lifts.

Critical Lift Determination

*Note for "Lift outside of operators view": If hand signals via a qualified signalperson in view of the operator or radio communication are available and in use, load does not exceed two tons and is determined to be routine lift by the Assembly/Disassembly director then the lift may be deemed as non-critical.

Cribbing Guide

Crane Capacity divided by 5 = Sq Feet of cribbing per pad

Example: 30 Ton Crane (30/5) = 6 Sq Feet per pad

*Note: Cribbing may have to be stepped; increase each pad by only 200%

Critical Lift Form Addendum

Feb 2011

Type of Critical lift

- 75% of the rated capacity of the crane load chart
- Lift where the center of gravity could change
- Lift with more than one crane (tandem lift)
- Barge mounted crane lifts (If crane traveling while lifting load)
- Lift involving hazardous materials or explosives
- Hoisting personnel
- Multiple lift rigging (steel erection only)
- Crane operations where the load is placed or removed underwater
- Lift without the use of outriggers using rubber tire load chart
- Lift involving non-routine or technically difficult rigging arrangements
- Lift using more than one hoist on the same crane
- Lift out of the operator's view*
- Lift that crane operator believes is critical

Critical Lift Plan Requirements (All Lifts)

-Significant portion of plan is on the Mobile Crane Lift Qualification and Lift Plan Form (MCLQLP)

-Load & Rigging cannot be estimated; verify load & rigging on MCLQLP

Provide: Height_____ Length_____ Width_____

Environmental Conditions-(Verify that none are present and/or sufficient)

- *Wind
- Lighting
- Ice
- Visibility
- Lightning
- Storm Warning

*Work must cease at 20 MPH Winds (or crane manufactures recommendation) for work reevaluation. Must have wind measuring device on site.

Provide site drawing of Crane Placement, Adjacent Equipment and Facilities

Floating Crane

- Naval Architectural Analysis-Load Chart & Lift Parameters
- Plan describing operating base/platform condition and any potential list or trim
- Wind speed and direction in clear view of operator
- Inspection of host vessel (barge/pontoon) is required by a competent person

Multiple Lift Rigging

- Only structural steel can be used
- Multiple Lift Rigging (Certified) must be used
- Maximum of 5 members per lift

Personnel Lifts

- Requires CSM interaction and approval

Reviewed by:

PSO_____ SSR:_____ Date:_____