

FIELD AUDIT CHECKLIST
MOBILE CRANE/LIFTING ACTIVITIES

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FIELD AUDIT CHECKLIST

MOBILE CRANE /LIFTING ACTIVITIES

Date: _____ Location: _____

Crane: Make _____ Model _____ Capacity _____ ID _____

Operator: _____

I. CRANE SET-UP

Yes

No

- | | | |
|-------|-------|--|
| _____ | _____ | Is crane level? |
| _____ | _____ | Are outriggers fully extended? |
| _____ | _____ | If outriggers are not fully extended, is there a load chart for the intermediate position? |
| _____ | _____ | Is adequate blocking used beneath each outrigger pad? |
| _____ | _____ | Is each pad level? |
| _____ | _____ | Is crane set up near an excavation or near the top of a retaining wall? |
| _____ | _____ | Are the tires completely off the ground if on outriggers? (If not request proof that no significant load is on the tires.) |
| _____ | _____ | Is there any blocking under the outrigger beams or crane body? |
| _____ | _____ | Is the lift zone barricaded? |
| _____ | _____ | Is the tail swing zone barricaded? |
| _____ | _____ | Has the crane been improperly counterweighted to increase capacity? |
| _____ | _____ | Are there any hydraulic fluid leaks, especially at outrigger cylinders? |
| _____ | _____ | |

Comments: _____

II. CRANE FEATURES

<u>Yes</u>	<u>No</u>	
___	___	Are windows clean, free of cracks and unobstructed by posters, curtains, shades, etc?
___	___	Is there a properly inspected and fully charged fire extinguisher on the crane?
___	___	Does the crane have a hoist limiting (anti two-block or A2B) device?
___	___	Does the hoist limiting device work properly? Ask for demonstration that it works. If this safety feature is absent or is not functional, it is recommended that the crane be taken out of service immediately.
___	___	Are there boom limit switches? Ask for demonstration that they work.
___	___	Is there evidence of damage to any boom sections?
___	___	Are any chords or lattice (lacing) members bent?
___	___	Is there a tape measure in the cab and is it used?
___	___	Does the crane have some type of load indicating system? If this safety feature is absent or not functional, recommend the crane be taken out of service immediately.
___	___	Has the load indicating system been calibrated in the last six months?
___	___	If equipped with an on-board computer, has the computer been programmed with the correct counterweight?
___	___	Is the rope wound on the drums properly?
___	___	Is the appropriate lift chart in the cab?
___	___	Is the appropriate operator's manual in the cab?
___	___	

Comments: _____

III. CRANE OPERATIONS

Yes No

___ ___ Is the operator out of the cab while a load is on the hook?

___ ___ Does the crane luff and slew smoothly?

___ ___ Does the hoist line start and stop smoothly and slowly?

A. TRAVELING A CRANE

___ ___ If warning signals are available, are they used when approaching workmen, blind corners, etc.?

___ ___ Is the (lattice) boom as low as safely practicable?

___ ___ Has telescopic boom been lowered to the traveling position?

___ ___ Is the swing lock engaged and the swing brake set?

___ ___ Is the empty hook snubbed or otherwise restrained from swinging?

___ ___ Is anyone riding on the crane?

___ ___ Does crawler crane have the boom pointed uphill when traveling up or down a slope?

___ ___ Is there a designated person responsible for safety who determines boom position, route of travel, speed, etc.?

___ ___

___ ___

___ ___

Comments: _____

B. PICK AND CARRY

1. CRAWLER MOUNTED CRANES

<u>Yes</u>	<u>No</u>	
___	___	Does the operator have all the required permits?
___	___	Is the ground level and smooth?
___	___	Is any soil strength improvement necessary?
___	___	If there are underground facilities in the travel path, has their strength been evaluated?
___	___	Have sudden starts and stops been avoided?
___	___	Is the boom as short as possible?
___	___	Is the boom pointed in the direction of travel?
___	___	If not, does the crane need to be de-rated?
___	___	Have all the relevant braking and locking devices been set?
___	___	Is the load as close to the ground as possible?
___	___	Does the operator know the manufacturer's recommended speed of travel? How is the travel speed being measured / monitored?
___	___	Are tag lines in place to control swinging of the load?
___	___	Is a signal person available to walk with the crane and assist the operator?
___	___	
___	___	
___	___	

Comments: _____

B. PICK AND CARRY (Cont'd)

2. RUBBER TIRE MOUNTED CRANES

<u>Yes</u>	<u>No</u>	
___	___	Does the operator have all the required permits?
___	___	Are the recommended tire inflation pressures known to the operator?
___	___	Are the tires inflated per the manufacturer's recommendations?
___	___	Has the strength of underground facilities in the travel path been considered?
___	___	Is the recommended travel speed known to the operator?
___	___	How is the travel speed being monitored / measured?
___	___	Have sudden starts and stops been avoided?
___	___	Is the boom as short as possible?
___	___	Is the boom pointed in the direction of travel?
___	___	Are all relevant braking and locking devices set?
___	___	Is the load as close to the ground as possible?
___	___	Are tag lines in place to control swinging of the load?
___	___	
___	___	
___	___	
___	___	
Comments: _____		

IV. CRANE OPERATOR

<u>Yes</u>	<u>No</u>	
___	___	Can the operator tell you the maximum capacity of the crane in its present configuration?
___	___	Can the operator tell you the size and capacity of the load line?
___	___	Does the operator know at what minimum boom angle the crane can be safely operated?
___	___	Do all people involved know and understands the hand signals being used?
___	___	Is there more than one signal person?
___	___	Does the operator know the capacity of the block in use?
___	___	Has the operator had the site safety indoctrination?
___	___	
___	___	
___	___	

Comments: _____

V. RIGGING

<u>Yes</u>	<u>No</u>	
___	___	Are all slings equipped with legible tags showing the safe working load?
___	___	Check the condition of the hoist line at several locations. Are there any broken strands visible?
___	___	If broken strands exit, should the line be taken out of service?
___	___	Is there a system to identify equipment (slings, etc.) not suitable for service?
___	___	Are there any cable clips on the live line at wedge sockets?
___	___	Are cable clips installed properly?
___	___	Are any sling eyes formed with cable clips?
___	___	Are wire rope slings in good condition? Check for storage conditions, broken strands, condition of sleeves, kinks, etc.
___	___	Are synthetic slings in good condition? Check for rips, cuts, tears, melted fibers etc.
___	___	Do all lifting hooks have safety clips?
___	___	Is there significant wear evident on shackles, master links, hooks, etc.?
___	___	Are the hoist lines twisted?
___	___	Does the block spin when hoisting?
___	___	
___	___	
___	___	

Comments: _____

VI. OTHER

Yes

No

Are tag lines used to control loads being lifted?

Is anybody ever touching the load before it is landed?

Are there overhead power lines in the area?

If yes, are adequate precautions being taken?

Does everyone know who is in charge of the lift?

Is a crane permit system in use?

Comments: _____

