



Brieser
CONSTRUCTION

JOB SAFETY ANALYSIS

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|--|---|--|--|-------------------------|
| COMPANY/ PROJECT NAME or ID/ LOCATION (City, State) | | DATE Rev. 9/13/12 | <input checked="" type="checkbox"/> NEW <input type="checkbox"/> REVISED | PAGE 1 of 2 |
| WORK ACTIVITY (Description): MOBILE CRANES (6 INCH PIPE REMOVAL & INSTALLATION) | | | | |
| DEVELOPMENT TEAM | | POSITION / TITLE | REVIEWED BY: | POSITION / TITLE |
| Dave Ruzich | | Safety Coordinator | | |
| MINIMUM REQUIRED PERSONAL PROTECTIVE EQUIPMENT (SEE CRITICAL ACTIONS FOR TASK-SPECIFIC REQUIREMENTS) | | | | |
| <input checked="" type="checkbox"/> REFLECTIVE VEST <input checked="" type="checkbox"/> HARD HAT <input type="checkbox"/> LIFELINE / HARNESS <input checked="" type="checkbox"/> SAFETY GLASSES | <input type="checkbox"/> GOGGLES <input type="checkbox"/> FACE SHIELD <input checked="" type="checkbox"/> HEARING PROTECTION <input checked="" type="checkbox"/> Steel Toed/Composite Safety Shoes with Defined Heels | <input type="checkbox"/> AIR PURIFYING RESPIRATOR <input type="checkbox"/> SUPPLIED RESPIRATOR <input type="checkbox"/> PPE CLOTHING | <input checked="" type="checkbox"/> GLOVES Leather-Rigging & Material Handling <input type="checkbox"/> OTHER | |
| ¹JOB STEPS | ²POTENTIAL HAZARDS | ³CRITICAL ACTIONS TO MITIGATE HAZARDS | | |
| <u>Mobilize& De-Mobilize Crane onsite:</u> Manitex (2801 C Series) 28 Ton Boom Truck Crane will be escorted & moved into place (designated area) by the P/M (Traffic & Pick Plan). | <ul style="list-style-type: none"> • Risk of injury to Automotive or Pedestrian traffic. • Not having required signage needed for construction projects • Not notifying the owner of work to be performed in the area • Not being properly trained in lifting and handling materials • The Area is not de-marcated off from the non-work area using warning signs and hazard tape. | <ul style="list-style-type: none"> • All personnel to attend daily site safety meeting and review site safety plan • Use of safety glasses ,hard hats, steel toed boots and leather or canvass gloves for this task • Work area should be delineated & proper signage stating Un-Authorized personnel & signs posted clearing the set up area the night before. • Use pilot cars to get crane and trucks to work-site. If during transit there is a reasonable possibility of getting near an overhead hazard, a designated signalman shall be assigned to observe the clearance and give warning as crane approaches the minimum required clearance. • When planning transit and exit of the crane, the effect of speed and terrain on the boom and crane movement shall be considered. • Proper traffic control for pedestrians when pulling the crane onsite (flaggers, cones, signage closing area down including sidewalks and roads) • Verify TCP to ensure all areas in the plan are secure & free of un-authorized personnel. • Ensure proper PPE for all adjacent personnel. • Mark off swing patch with caution tape where live load & turret will be swinging. | | |



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| <p><u>Inspections:</u> Imperial Crane Operator License Annual/ Pre-Shift Crane Inspection Rigging Equipment Inspection</p> | <ul style="list-style-type: none"> • Risk of injury from equipment failure or operator error. | <ul style="list-style-type: none"> • Inspection of Operators / Oilers certification (to ensure current). • Inspection of Crane certs. & other crane safety equipment. • Verify the correct crane with what was submitted. • Verify ground condition lay out proper ground protection and review plan with on all site personnel involved. • Inspection or Rigging equipment. |
| <p><u>Crane set up:</u> Lay down outrigger pads & extend outriggers</p> | <ul style="list-style-type: none"> • Risk of injury due to unstable ground • Ground condition not suitable or identify and potential hazards that might be counterweight swing area. • Area not clear • Not enough room for crane and trucking | <ul style="list-style-type: none"> • Verify ground condition lay out proper ground protection and review plan with on all site personnel involved. • Ensure pads are stable for outriggers. • Discuss Dailey traffic control plan (TCP) at safety meetings. • Make sure all personnel and public are clear and everyone is in communication. • All pinch points (Swing Radius) are determined and clear of any personnel or public.(When crane is in operation, maintain a minimum of 30 inches of clearance |



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| <p>Hoisting Material: Picking material, tools or equipment from rigging area to the unloading zone.</p> <p>Please identify the material or equipment being lifted</p> <p>1. Steel piping</p> | <p>Risk of injury from falling objects</p> <ul style="list-style-type: none"> • Loads overhead • Obstructions in path of swing radius • Not being properly rigged • Not having a tag line on each load • Manual Handling of Heavy objects • Handling of Heavy objects not being coordinated by team | <ul style="list-style-type: none"> • Be aware of overhead obstructions & your surrounding at all times. • Keep visual or audio contact with rigger (pick up & landing points) at all times. • Certified Riggers/Competent Person shall properly setting up each crane hoist of equipment and materials with a tag line on each load. • Mark off swing path with caution tape where live load will be swinging • Once load is picked and swing is started Air Horn will be blown at the time of swing • Clear work area of swing radius and 20 feet passed in all directions • Certified Rigger/Competent Person to check slings for damage before lifting, if damaged cut up & dispose of in debris box if necessary. • Warn everyone onsite that lift is taking place and clear area • Manual Handling of Heavy objects will be coordinated by team |
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¹ Each Job or Operation consists of a set of steps. Be sure to list all the steps in the sequence that they are performed. Specify the equipment or other details to set the basis for the associated hazards in Column 2

² A hazard is a potential danger. What can go wrong? How can someone get hurt? Consider, but do not limit, the analysis to: **Contact** - victim is struck by or strikes an object; **Caught** - victim is caught on, caught in or caught between objects; **Fall** - victim falls to ground or lower level (includes slips and trips); **Exertion** - excessive strain or stress / ergonomics / lifting techniques; **Exposure** - inhalation/skin hazards. Specify the hazards and do not limit the description to a single word such as "Caught"

³ Aligning with the first two columns, describe what actions or procedures are necessary to eliminate or minimize the hazards. Be clear, concise and specific. Use objective, observable and quantified terms. Avoid subjective general statements such as, "be careful" or "use as appropriate".