

## Job Hazards Analysis

| Project Name:  |                                  | Job No:   | Date:  | Scheduled:  |
|--|----------------------------------|---|--|---|
| Location:  |                                  | Customer:   |  | Revised:  |
| Required Personal Protective Equipment:<br><b>Fall protection, Hard Hats, Safety Glasses, Vest, Gloves</b> |                                  |   | Analysis by:   | Date:   |
| Description<br><b>Specialized Rigging</b>  |                                  | A/D Director:<br>Controlling Entity:<br>Site Supervisor:<br>Lift Director:<br>Crane User:                       | Reviewed by:   | Date:   |
| Work Operation: <b>Gantry setup and Lifting of equipment</b>   |                                  |   | Approved by:   | Date:   |
| Date   | Execution Process                | Potential Hazards   | Preventive or Corrective Measures  | Inspection Requirements   |
|  | 1. Offloading trucks, and Layout | <p>Clear path of Travel</p> <p>Storage of Equipment</p> <p>Ground and site conditions</p> <p>Overhead loads</p> | <p>Watch trucks and equipment to offload trucks, make eye contact with operators and have spotters.</p> <p>Pinch points with crib and eye contact with operator</p> <p>Insure all personnel is wearing correct PPE and make note of ground conditions, watching footing, etc.</p> <p>Tag lines on loads and spotters, stay clear</p> | <p>Keep equipment clean and free of slip/trip hazards.</p> <p>Use equipment to move materials in lieu of manual handling.</p> <p>All personnel stay away from pinch points, rigging integrity, and suspended loads.</p> <p>Monitor wind and weather restrictions</p> <p>Site supervision shall ensure;</p> <p>Access roads for loads are appropriately compacted and have adequate space to move equipment.</p> <p>Ground conditions for Gantry to mobilize and setup as well as build out for gantry attachments when necessary.</p> <p>Monitor wind and weather restrictions.</p> <p>Coordinate co-occupation work tasks to ensure other crafts are not in harms way or create hazardous conditions for the tower erection.</p> |

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|  | 2. Gantry Set up                     | <p>Check rigging</p> <p>Follow engineered plans</p> <p>Falling Objects</p> <p>Caught between/Crushing</p> <p>Pinch points</p> <p>Slips Trips and Falls</p> <p>Overhead loads</p>                             | <p>Watch trucks and equipment to offload trucks, make eye contact with operators and have spotters.</p> <p>Pinch points with crib and eye contact with operator</p> <p>Insure all personnel is wearing correct PPE and make note of ground conditions, watching footing, etc.</p> <p>Follow procedure and drawings from engineer to insure proper set up.</p> <p>Watch hand location when setting up equipment, maintain good communication with operators.</p> <p>Tag lines, spotters</p>  | <p>Gantry erection supervisor shall ensure; Rigging inspection and practices/ Fall protection is inspected and used during all fall potentials 6' and higher/ Erection plan is exactly followed and when deviations are required then job shall stop and new requirements effectively communicated with all personnel. Ensure working surfaces are kept free of slippery conditions</p> <p>Site supervision shall ensure; Access roads for loads are appropriately compacted and have adequate space to move equipment. Ground conditions for gantry crane to mobilize and setup as well as build out for attachments when necessary. Coordinate co-occupation work tasks to ensure other crafts are not in harms way or create hazardous conditions for the tower erection.</p> |
|  | 3. Rigging up the piece to be lifted | <p>Check rigging</p> <p>Falling from heights</p> <p>Follow engineered plans</p> <p>Falling Objects</p> <p>Caught between/Crushing</p> <p>Pinch points</p> <p>Slips Trips and Falls</p> <p>Overhead loads</p> | <p>Same as previously mentioned in addition to the following;</p> <p>Ground work will require the use of ladders for elevated work position and tie-off when working higher then 6', careful consideration shall be given to tie off points that do not exceed rip and elongation distance requirements of 11.5 feet with personal fall protection.</p> <p>Be careful when placing slings over trunnions and make sure riggers are in contact with operator of pumps before snugging up.</p> <p>Remove, mud and grease/Hydraulic fluid from working surfaces.</p> | <p>Gantry erection supervisor shall ensure; Rigging inspection and practices/ Fall protection is inspected and used during all fall potentials 6' and higher/ Erection plan is exactly followed and when deviations are required then job shall stop and new requirements effectively communicated with all personnel. Ensure working surfaces are kept free of slippery conditions</p> <p>Site supervision shall ensure; Access roads for loads are appropriately compacted and have adequate space to move equipment. Coordinate co-occupation work tasks to ensure other crafts are not in harms way or create hazardous conditions for the tower erection.</p>   |

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|  | 4. Lifting the Piece | <p>Binding point</p> <p>Plumbness of gantries</p> <p>Speed and operation</p> <p>Path is clear of obstructions and material</p> <p>Pinch points</p> <p>Slips Trips and Falls</p> <p>Overhead loads</p>   | <p>Same as previously mentioned in addition to the following;</p> <p>Operator of jacks pay attention to the load cell.</p> <p>Check all gantry legs that they are still plumb.</p> <p>Low speed will be used at all times when lifting with load, spotters will notify operator of progress</p> <p>Headers are level</p>   | <p>Gantry erection supervisor shall ensure;</p> <p>Rigging inspection and practices/<br/>Fall protection is inspected and used during all fall potentials 6' and higher/<br/>Erection plan is exactly followed and when deviations are required then job shall stop and new requirements effectively communicated with all personnel. Ensure working surfaces are kept free of slippery conditions and mud, grease/Hydraulic fluid is removed.<br/>Site supervision shall ensure;<br/>Access roads for loads are appropriately compacted and have adequate space to move equipment. Coordinate co-occupation work tasks to ensure other crafts are not in harm's way or create hazardous conditions</p> |
|  | 5. Lowering of load  | <p>Rigging failures,</p> <p>Suspended loads,</p> <p>fall exposures when setting piece, pinch points,</p> <p>manual manipulation of piece to fit adjustment,</p> <p>wind/weather restrictions,</p> <p>Work from ladders</p> <p>Other hazards are common to same hazards previously mentioned,</p> <p>slip and trip hazard due to grease.</p> | <p>Same as previously mentioned in addition to the following.</p> <p>Rigging should be visually inspected prior to each lift,</p> <p>personnel shall be warned to evacuate area under suspended load,</p> <p>wind and weather shall be monitored and work stopped when adverse conditions exist.</p> <p>Insure all personnel is aware of surroundings and no one is under load when lowering is taking place.</p> <p>Make sure operator and spotter are in communication when rigging is cut loose to insure proper control of gantry and headers.</p> | <p>Gantry erection supervisor shall ensure;</p> <p>Rigging inspection and practices/<br/>Fall protection is inspected and used during all fall potentials 6' and higher/<br/>Erection plan is exactly followed and when deviations are required then job shall stop and new requirements effectively communicated with all personnel. Ensure working surfaces are kept free of slippery conditions and mud, grease/Hydraulic fluid is removed.<br/>Site supervision shall ensure;<br/>Access roads for loads are appropriately compacted and have adequate space to move equipment. Coordinate co-occupation work tasks to ensure other crafts are not in harm's way or create hazardous conditions</p> |

**Additional Comments (include any additional observations or comments on this job task below)**

**All personnel shall review the job safety analysis prior to work activity and sign below. Perimeter of work area shall have yellow caution or red warning tape installed to prevent any unnecessary jobsite personnel being exposed to these hazards.**

| <b>PRINT</b> | <b>SIGNATURE</b> |
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**Assembly/Disassembly Director:**

**Date:**

SAMPLE