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| **Job Hazard Analysis**  |   | **Date:**  |
| **Contract:** SCRM 8356921 |   | **Phase:** Horizontal slab on deck formwork |
| **Contractor:** Formwork | **Location:** La Jolla, CA | **Completed By:**  |
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| **Activity Operation** | **Unsafe Condition, Action, or Other Hazard** | **Preventative or Corrective Action That Will be Taken (Applicable Site - Specific MSDS should be listed.)** |
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| Installing Shoring Tower | Struck By Material Hoisting | All Equipment flown into work area should have appropriate number of tag lines. Tower Crane shall signal when load is arriving overhead. Ensure you are clear of loading zones when equipment is being flown onto deck/slab. All rigging should have appropriate tags identifying lifting capacities. Rigging shall be inspect for damage prior to picking any loads. |
|   | Struck By Material Storage | All equipment should be stacked and organized with routes of travel left clear & open. Stacked material should be secure from falling or tipping hazards. When landing material ensure your body is not in between load and solid structure. |
|   | Struck By Forklift | Ensure forklift back up alarm is working. Make eye contact with lift operator when working in proximity. Area where forklift is working should be cautioned off to ensure only deck crew is working in area. All personnel in area are required to have safety vests. Ensure forks are down when moving forklift and parking brake is on if operator leaves the lift. Lift operator must wear seat belt during lift operation. |
|   | Falling Shoring Tower | When working above 6' for shoring tower installation setup working platform three scaffold planks wide with no gaps. Use only OSHA grade scaffold planks. Climb scaffold tower as a ladder using three points of contact at all times. Once safely on the scaffold use lanyard to tie off to shoring tower. Ensure all frames have been securely attached and fully braced. Utilize cleats on the bottom of all scaffold planking to ensure the planking stays in the desired location. Remain aware of all special planking conditions which may cause cantilever unsupported planked sections. Only members of the deck crew are allowed to access shoring towers. Ensure all other personnel stay out of decking zones. Utilize caution tape as necessary to secure all work zones. |
|   | Struck by Shoring Towers | Ensure all towers and posts are installed 100% prior to leaving area. Install all required tower bracing as shown on formwork drawings. If any towers seem unstable contact Forman prior to leaving area. Ensure all pins are locked in place and all safety devices have been correctly installed. |
|   | Strains  | Work as a team to spread decking towers. Use proper lifting techniques. |
| Setting Stringers and Beams | Struck by deck material | Ensure area below installation has been cautioned off. Ensure all hand tools are securely located in tool bags. If unaware workers come into decking area notify them that they are in a controlled zone and that they must leave area until decking operation is complete. Carefully land all material loads to ensure they will not fall over. Keep in mind wind gusts when landing materials and ensure materials are placed in a manner that they cannot be blown off building. |
|   | Strains  | Work as a team to spread large deck beams. Use proper lifting techniques. |
| Installing Deck Material | Cutting Injuries | All deck material should be cut utilizing cutting tables allowing for correct use of Skil saw. Gloves shall be worn when using cutting devices. All power tools should be inspected prior to use to ensure all guards are working properly. |
|   | Electrocution | All power tools should have all appropriate grounds attached or be double insulated. Inline GFCI shall be used when using generator as power source. If you are using a spider box check box to ensure it has had its monthly inspection. If Spider box has not had a inspection within prior month report immediately to Forman or Superintendent. |
|   | Struck By Hand Tools | Utilize gloves to protect hands when using hammers and all similar hand tools. Inspect personal hand tools on a daily basis to ensure tools are in good working condition. |
|   | Tripping & Slipping | Deck area shall be kept tidy and organized. Construction trash should be picked up and dumped on a daily basis or as needed. Materials shall remained neatly stacked and paths of travel shall remain free from obstructions. |
| Placing Deck | Collapsing deck material | Follow decking drawings to ensure all supports are installed as necessary. Review deck with Atlas and HP Superintendent prior to placement. Review cantilever sections which require specific loading requirements. Review necessary deck placement pattern with placement crew prior to pour. Monitor decking and placement crew to ensure deck is loaded evenly during concrete placement and formwork maintains its intended shape. Utilize pre-established grade check points to see how deck is reacting under load. Ensure adequate lighting is available to utilize tools and equipment necessary for operations. Have additional shoring available as necessary for added support prior to pour. Forman documentation of deck review process is mandatory. |
| General | Horizontal Life Line | Check horizontal life line for abrasion prior to installation. Insure unprotected parts of the line are not allowed to come in contact with reinforcing causing damage to life line. Ensure that all SRL's are attached to the rings supplied in the HLL kit. Ensure the SRL you are attached to is near your work area and you are not exposing your self to a swing fall hazard. As you are shifting your work area you must be shifting your SRL attachment point. |
|   | Air Tools Safety | Ensure all air tools are inspected prior to use. Ensure all retaining pins are in place and whip checks are installed on all air hose connection points. |
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| **Equipment To Be Used** | **Inspection Requirements** | **Training Requirements** |
|  Tower Crane |  |  |
|  Scissor Lift |  |  |
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| **Designated Competent Person** | **Activity** |
|  Peter Shruggs | Fall Protection |
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