|  |  |
| --- | --- |
| Lift plans for Fixed or Mobile Cranes |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **Name:** |  | **Date:** |  |
| **Job Description:** |  | **Location:** |  |

# Performance Metrics

|  |  |  |  |
| --- | --- | --- | --- |
|  | ✓ | 🗶 | • |
| Documented Lift Plans prepared for crane lifts where damage would result in serious economic, safety or health impacts e.g. Lifts over operating plant or critical equipment. |  |  |  |
| Lift plan prepared after inspection of load to be lifted by Engineers, lift supervisor, riggers or dogman and crane operator for:   1. mass, including mass of lifting equipment, 2. characterisation of load dimensions, 3. mass centre of gravity, 4. contents 5. lifting points |  |  |  |
| Lift plan to be approved by the Area Manager and Engineer or competent Civil / Structural Engineer. |  |  |  |
| Lifts over buildings which are occupied are not permitted. The building is vacated during the lift. |  |  |  |
| Lift Plan prepared following site inspection by Engineers, lift supervisor, and crane operator to identify:   1. collision hazards (structures, trees) in the vicinity), 2. ground conditions, 3. presence of overhead or underground services, 4. crane location and load placement points during the lift, 5. safety exclusion zone |  |  |  |
| Lift plan prepared by Engineers, lift supervisor which is based on:   1. Workplace conditions (slopes, ground conditions, wind speed, space to operate), 2. Weight and dimensions of load, 3. Location of load relative to crane, 4. Lift height and lift radii for the crane, 5. Lift capacity charts for the crane, 6. Requirement for crane to move carrying load |  |  |  |
| Lift plan prepared based on following information:   1. Reactions under crane outrigger pads for lift calculated by crane supplier or Civil / Structural Engineer. 2. Civil/ Structural Engineer confirms applied ground pressures do not exceed ground bearing capacities. 3. Civil/ Structural Engineer confirms underground services not damaged by applied outrigger loads. |  |  |  |
| Lift is supervised / managed by responsible professional engineer that prepared lift plan. |  |  |  |

# Supervisor Task Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| Arrange lift site inspection with Engineers, lift supervisor and crane operator |  |  |  |
| Prepare Lift Plan. Ensure all required information provided and assessed. |  |  |  |
| Arrange lift plan approval with Engineer. |  |  |  |
| Supervise lift and monitor conditions to identify any changes that may generate a requirement to reassess the plan. |  |  |  |
| Ensure Civil/ Structural Engineer confirms applied ground pressures do not exceed ground bearing capacities. |  |  |  |
| Ensure Civil/ Structural Engineer confirms underground services are not damaged by applied loads. |  |  |  |
| Confirm load working radius range within cranes capacity. |  |  |  |

# Operator / Maintainer Requirements

|  |  |  |  |
| --- | --- | --- | --- |
| Follow the lift plan. |  |  |  |
| Stop the lift if unplanned changes to the lifting operation have occurred. |  |  |  |
| Stop the lift if conditions are not safe due to problems with ground conditions, weather, personnel, procedures or equipment. |  |  |  |
| Carry out critical lifts only if authorised and approved. |  |  |  |
| Check gross load does not exceed crane load chart rating at maximum required lift radii. |  |  |  |
| Check required boom angle does not exceed safe limits for crane. |  |  |  |

# Comments/Actions