



RIGGING & MATERIAL HANDLING

Integrated Water Services, Inc.
(the Company)



Purpose

The purpose of this program is to ensure safe and incident free lifting operations by Company employees.

Scope

This procedure applies to integrated Water Services employees and shall be applied to all lifting and rigging work performed by the Company.

When work is performed by a subcontractor on a company site, the contractor's written safety program shall take precedence for their employees. However, subcontractors may adopt this procedure for their use.

Key Responsibilities

Superintendent

- Superintendents are required to ensure the requirements of this program are practiced when lifting and rigging operations are conducted in their respective area of responsibility.
- The Superintendent shall verify that their employees have the proper training before being involved in rigging operations.

Employees

- Only qualified and trained personnel are allowed to attach or detach lifting equipment to loads or lifting loads.

Procedure

General

Only "qualified riggers" are allowed to attach any loads to a lifting hook and only qualified operators are allowed to operate a crane while engaged in lifting operations.

Material Handling

- Rigging equipment shall be inspected to ensure it is safe. Rigging equipment for material handling shall be inspected prior to use and on each shift and as necessary during its use to ensure that equipment is safe.
- Defective rigging shall be removed from service. Defective equipment shall not be used and removed from service immediately.
- Rigging equipment shall not be loaded in excess of its recommended safe working load. Rigging equipment shall not be loaded beyond its recommended safe working load and load identification shall be attached to the rigging.
- Rigging equipment, when not in use, shall be removed from the immediate work area. Rigging equipment not in use shall be removed from the immediate work area so as not to present a hazard to employees.
- Tag lines shall be used unless their use creates an unsafe condition.
- Latches will be in place on all hooks, eliminating the hook throat opening. Hooks on overhaul ball assemblies, lower load blocks, or other attachment assemblies shall be a type that can be closed and



locked, eliminating the hook throat opening. Alternatively, an alloy anchor type shackle with a bolt, nut and retaining pin may be used.

- All employees shall be kept clear of loads about to be lifted and of suspended loads. No employee shall be allowed under a suspended load.

Training and Education

Integrated Water Services employees shall display their competency in the following topics:

- The selection of proper hardware (eye bolts, shackles, hooks, wire rope products, synthetic slings, chain slings, etc.) for the correct application (weight, hitches, angles, temperatures, center of gravity, etc.).
- The inspection of the selected hardware before, during and after the lift.
- The proper methods of securing the load, attaching the load to the hook, lifting the load, handling of the load during the movement of the load and lowering and placement of load.
- The proper storage of the rigging equipment.
- All employees shall receive refresher training on this subject on an annual basis.