

## **Bradbury Stamm Construction – Safety Directive**

**Safety Directive # 017-04**

**Original Issue Date: 02/11/2003**

**Revision Date: 08/31/2023**

### **CRITICAL LIFTS**

#### **Purpose**

To prevent structural failure of and the tipping-over of cranes and hoisting equipment on Bradbury Stamm Construction jobsites.

#### **Hazard**

Modern cranes, boom trucks, and telescoping forklifts are high performance hoisting machines engineered with ever decreasing safety margins. These machines will lift the rated weights only within a specific configuration, dead level, on a solid surface with no wind and precise load centering. Obviously, this is not the practice on construction sites.

Several states, provinces, local governments, and the construction industry in general consider any lift exceeding 75% of the load charts capacity for a particular configuration to be a CRITICAL LIFT.

A Critical Lift is a lift that is close to the structural limitations of the crane or may cause the crane to turn over.

#### **Policy**

Whenever a crane, boom truck or other hoisting equipment is used on a Bradbury Stamm Construction jobsite the BSC Superintendents and Foremen are required to check that the equipment will not be used for a critical lift.

If the hoisting equipment is to be used in a critical lift the BSC Superintendent is directed to require a written lift plan from the subcontractor, crane operator and riggers. The superintendent is to review the lift plan with the actual crane set-up and rigging before the lift proceeds to ensure the plan has not been compromised. These plans are to be saved with the project log.

During the required Pre-Installation meetings inform the subcontractors of these requirements.

If assistance is needed in developing or reviewing a lift plan call BSC Safety Director.