
TOWER ERECTION, CLIMBING AND DISMANTLING

Not a routine operator shift. Qualified supervisor. Notice of Project. 14.73.2.

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PURPOSE

Stop treating jumping a tower like running a shift. If this is the work, it is planned as this work.

SCOPE

Tower-crane erection, climbing (increasing height), repositioning and dismantling. Not climbing the ladder to the cab to operate. Not a how-to for jumping a crane.

This document is the method - the steps. Hazards and residual risk for the same work are in the JHA library. A procedure is not a hazard analysis.

PROCEDURE

01 CONFIRM THE WORK

The work is erection, climbing or dismantling - said in writing. A tower operator shift is not this work.

02 SUPERVISOR AND NOP

Qualified supervisor named. Notice of Project to WorkSafeBC on the timeline 14.73.3 names. If either is missing, the work does not start.

03 MANUAL AND CONFIGURATION

This serial, this tower system, this climbing frame, this tie-in. The manufacturer's sequence is the sequence.

04 ZONE AND WEATHER

Exclusion under the work. Wind and weather as the manufacturer and the plan. People off the ground under the frame.

05 ISOLATE WHEN REQUIRED

Lockout / isolation when anyone is in the machine for this work. PROVEN-SWP-026.

06 STOP

Any step that is not in the manual, any missing pin, any unplanned person in the zone - stop. Rewrite. Do not improvise a jump.

RESPONSIBILITIES

THIS PROGRAM

The published method for the work. Stop-work is named in it. It does not own the site.

SUPERVISOR

Confirms the plan, the crew, the zone and the stop criteria. Owns whether the hook moves.

CRANE OPERATOR

Runs only the machine they are competent on, to the chart, after inspection. Stops on an unclear signal or a broken plan.

RIGGER

Selects, inspects and applies the hitch. Does not guess weight, centre of gravity or angle.

SIGNALPERSON

One set of hands on the crane. Holds the zone. STOP means stop.

WORKER

Works to this program and to site rules - whichever is stricter. Uses the three rights. Reports damaged gear.

REQUIRED COMPETENCY

Work under a qualified supervisor as 14.73.2 and 14.73.3 require. A tower ticket alone does not assign an operator to jump a crane.

EQUIPMENT

This crane's erection / climbing manual
The climbing frame for this serial
PROVEN-SWP-026

PPE

Hard hat
CSA-grade footwear
High-visibility clothing
Eye protection
Task-rated gloves
Hearing protection where required
Fall protection where the work exposes a fall

PROHIBITED PRACTICES

An operator jumping a crane as a favour
Skipping the NOP because the pour is tomorrow
Using a different manufacturer's climbing notes

EMERGENCY RESPONSE

Stop the lift. Make people safe. Land or hold the load if it can be done without a second incident. First aid. Notify the site and the employer. Hold the scene.

DOCUMENTATION

NOP-TC
Site binder checklist
Qualified supervisor named
Manufacturer erection / climbing procedure for this serial

REFERENCES

Workers Compensation Act s. 21 - known or reasonably foreseeable hazards; instruction and supervision
OHS Regulation (B.C. Reg. 296/97, in force 15 Apr 1998) Part 3 - OHS program, instruction, inspections
OHS Regulation Part 4 s. 4.13 - risk assessment where rescue or evacuation may arise
OHS Regulation Part 8 - PPE; headwear CSA Z94.1-05 or Z94.1-15
OHS Regulation Part 11 - fall protection
OHS Regulation Part 14 - Cranes and Hoists
14.2(5) - CSA Z150-1998, or ASME B30.5-2004, or ASME B30.22-2005 (articulating boom)
14.2(6) - CSA Z248-2004 for tower, hammerhead and self-erecting tower cranes
14.35 pre-use inspection 14.36 load weight 14.42.1 critical lift 14.44 loads over work areas 14.45 unattended loads
14.47-14.49 signals
OHS Regulation Part 15 - Rigging
Manufacturer load chart, manual and configuration limits
Site lift plan, FLHA and site rules where stricter