

Construction Tower Crane Worksheet / Annual Certificate of Operation

A completed copy of this worksheet must be posted in the operator's cab or with the operator's manual, along with one being emailed within 10 days to LniCranes@Lni.wa.gov.

Owner Name	Crane Sticker Number C
Certifier Name	Certifier Number
Date of Inspection	Inspection Due Date
Owner Mailing Address	City State Zip Code
Owner Email Address	Is crane leased? ☐ No ☐ If yes, name:
Crane Type: ☐ Hammerhead ☐ Luffing ☐ Self Erecting ☐ Other:	
Owner ID Number	Crane Manufacturer
Crane Model Number	Crane Serial Number
Maximum Boom Length	Maximum Rate Capacity (in pounds)
Number of Tower Sections at Time of Inspection	Hook Reach Distance
Height under Hook	Capacity at Maximum Radius
Non-Standard Base? ☐ Yes ☐ No	If "Yes", is it approved by independent RPSE? ☐ Yes ☐ No

The rope must receive a complete inspection of the working range plus 3 additional wraps on the drum.

Ropes	Number of Parts	Diameter	Number of Strands	Wires per Strand	Breaking Strength	Attached Mfg. Cert. of Rope
Main Hoist						☐ Yes ☐ No
Trolley						☐ Yes ☐ No
Boom						☐ Yes ☐ No
Boom Pendants						☐ Yes ☐ No

When tower cranes are erected they must be tested for operation and be within the manufacturer's specification prior to placing the crane in operation. Functional motion tests made after climbing or telescoping may be performed without load. Order for functional motion tests:

1. Motion test without rated load.
2. Functional motion test with load.
3. Functional motion test must be at crane manufacturer's rated load.

Each test must include:

Load hoisting and lowering	Jib (boom) hoisting & lowering, or trolley travel	Slewing Motion
Travel motion if rail mounted	Limit locking & safety devices	Brakes & clutches

During function motion tests, the crane's base structural support or foundation system must be visually checked by the accredited crane certifier. Is the support/foundation system acceptable? ☐ Yes ☐ No

Proof Load Conducted Using (select one)		Radius in feet	Proof Load Weight in Pounds	Rated Capacity Weight in Pounds	Remarks
☐	Freely suspended certified weights				
☐	Scaled weights using a certified scale with a current certificate of calibration				

The following items must be inspected where applicable (if not applicable, check NA).

		Acceptable	NA
1.	Crane maintenance records of critical components	☐	☐
2.	Shift inspections for the past 3 months/last annual	☐	☐
3.	Order of immediate restraint currently issued Safety Devices WAC 296-155-53410	☐	☐
4.	Crane level indicator	☐	☐
5.	Boom stops	☐	☐
6.	Jib stops	☐	☐
7.	Foot pedal brakes have locks	☐	☐
8.	Outrigger jacks & stabilizer jacks holding valve	☐	☐
9.	Horn Operational Aids WAC 296-155-53412	☐	☐
10.	Boom hoist limiting device	☐	☐
11.	Luffing jib limiting device	☐	☐
12.	Anti two-blocking device	☐	☐
13.	Boom angle or radius indicator	☐	☐
14.	Jib angle indicator if crane has a luffing jib	☐	☐
15.	Boom length indicator	☐	☐
16.	Load weighing and similar devices	☐	☐
17.	Outrigger/stabilizer position sensor/monitor	☐	☐
18.	Hoist drum rotation indicator if drum not visible	☐	☐
29.	Hydraulic and pneumatic pumps and motors	☐	☐
30.	Hydraulic and pneumatic cylinders	☐	☐
31.	Electrical components and wiring	☐	☐
32.	Manufacturer's recommended grounding of structure and power supply	☐	☐
33.	Safety latches on hooks	☐	☐
34.	Hooks for deformation, cracks, wear, or damage	☐	☐
35.	Wedges and supports of climbing cranes for looseness or dislocation	☐	☐
36.	Braces or guys supporting cranes' masts (towers) and anchor bolt base connections	☐	☐
37.	Equipment structure condition (welds, bolts, etc.)	☐	☐
38.	Crane boom condition	☐	☐
39.	Crane counter jib boom condition	☐	☐
40.	Pins, bearings, shafts, gears, rollers, locking devices	☐	☐
41.	Brake and clutch system parts	☐	☐
42.	Load, wind, and other indicators within manufacturer tolerances	☐	☐
43.	Travel mechanisms for damage	☐	☐
44.	Legible and applicable operator's manual & Load chart	☐	☐
45.	Crane cleanliness and housekeeping	☐	☐
46.	Fire extinguisher with minimum 10 BC rating	☐	☐

Continued below.

	Acceptable	NA
19. Configuration of crane	☐	☐
20. Sheaves grooves free from surface defects	☐	☐
21. Sheave guards in place	☐	☐
22. Rigging gear inspected by a qualified person	☐	☐
23. All control and drive mechanisms	☐	☐
24. Motion limiting devices proper operation with crane unloaded	☐	☐
25. Load limiting devices for proper operation	☐	☐
26. Air, hydraulic, and other pressurized lines	☐	☐
27. Hydraulic system for proper fluid level	☐	☐
28. Hydraulic and pneumatic pumps and motors	☐	☐

	Acceptable	NA
47. Tower tie-in collars, struts, and connections to building structure are structurally sound, free of damage	☐	☐
48. Ballast blocks in place and secured per manufacturer's recommendations;	☐	☐
49. Raising mechanism within the manufacturer's specifications for telescoping cranes	☐	☐
50. Cranes that top climb, the climbing frame operates within the manufacturer's specifications	☐	☐
51. Means to prevent traveling tower cranes running into stops	☐	☐
52. A functional audible warning alarm that automatically sounds whenever the traveling tower crane travels	☐	☐
53. Rope reeving in compliance with manufacturer	☐	☐
54. Legible warning labels and decals as required	☐	☐
55. Steps, ladders, handrails, and guards	☐	☐
56. Hoist load limits set	☐	☐

☐ I hereby certify that the above inspection and tests have been conducted in accordance with the Washington State Safety Standards for Construction Operations ([WAC 296-155](#) Part L).

Accredited Certifier Name

Accredited Certifier Signature

Date