

CRANE SAFETY INSPECTION CHECKLIST

CRAWLER-, TRUCK- AND WHEEL-MOUNTED CRANES (EM 385-1-1, 3 NOV 04)

PROJECT:			
PRIME CONTRACTOR:		CONTRACT NO:	
CRANE FURNISHED AND OPERATED BY:			
MAKE OF CRANE:	MODEL NO.:	CAPACITY RATING:	
DATE OF ANNUAL INSPECTION:		DATE OF THIS INSPECTION:	
NAME, TITLE OF QUALIFIED PERSON PERFORMING THIS INSPECTION:			
EMPLOYER OF QUALIFIED PERSON:			
ON-SITE CRANE SAFETY INSPECTION	YES	NO	N.A.
1. Operating manual in crane? (16.C.02.a)			
2. Load rating chart adequate and in cab? (16.C.02.b)			
3. Log book in crane and up to date? (16.C.01.d)			
4. Written proof of operator qualification for crane? (16.C.04.a)			
5. Written proof of biennial physical examination of operator? (16.C.05.b)			
6. Manufacturer's maintenance procedures followed? (16.C.07)			
7. Activity Hazard Analysis developed for set-up and set-down? (16.C.08)			
8. Accessible swing radius areas barricaded? (16.C.09.c.2)			
9. Wire rope in good condition? (Appendix H, Section 3.q)			
10. Sufficient cable for 3 wraps around drum? (16.C.10.b)			
11. Drum end of hoisting rope anchored to drum? (16.C.10.c)			
12. Inspection proves compliance with Appendix H? (16.C.12)			
13. Before use, proof of crane inspection in checklist or log? (16.C.12.c.2.b)			
14. Performance test, load test report(s) meet Appendix I? (16.C.13)			
15. Documented critical lift plan? (16.C.18, see Appendix Q, page C-19)			
16. Maintenance, repairs meet manufacturer's requirements? (16.C.20)			
17. Boom angle indicator and load indicating device, or LMI? (16.D.01)			
18. Indicator for leveling crane? (16.D.02)			
19. Drum rotation indicator? (16.D.03)			
20. Anti-two block (upper limit) devices? (16.D.05)			
21. Boom stops (mobile cranes with cable-supported booms? (16.D.06)			
22. Boom stop, hoist-disengaging device field-tested before performance and load tests? (16.D.06.a.2)			
23. Automatic boom hoist power disengaging device? (16.D.06.c)			
24. Crane foundation (ground conditions, static and dynamic loads, operating quadrants) evaluated for stability? (16.D.07)			

**CRANE OPERATIONAL PERFORMANCE AND LOAD PERFORMANCE TEST
(APPENDIX I OF EM 385-1-1, 3 NOV 04)**

Note: Section 16.C.13 requires operational performance testing and load performance testing. Operational performance testing is required: (1) before initial use of a crane in which a load bearing (excluding the rope) or load controlling part or component, brake, travel component or clutch have been altered, replaced, or repaired; (2) every time a crane is reconfigured or reassembled after disassembly (to include booms); (3) every time a crane is brought onto a USACE project; and (4) every year. Load performance testing is required as in (1) and (2) above, and every 4 years. Lattice boom cranes that are reconfigured or reassembled, and other cranes to which additional sections or jibs are added will always be load tested. Telescoping boom or non-telescoping boom hydraulic cranes (mobile or truck-mounted) will be load tested if there is not a written record on-site that shows that the load test performed within the last 4 years met all the requirements of the load testing required by Table I-2 of Appendix I.

Date of Load Test: _____ Name of Person Conducting Test: _____

Was operational performance test conducted prior to load performance test? Yes No

Maximum Lift Anticipated: _____ Ton(s) Performance Test Load: _____ Ton(s)

Boom Angle: _____ Degrees Length of Boom for Test: _____ Feet

Description of Test Operation:

Signature of Contractor Representative Confirming Crane Passed All Tests:

Signature of Corps of Engineers Representative (if present):

Note: The following sequence and limitation shall be complied with when conducting performance tests: (1) Test rigging first; (2) Conduct the operational performance test before the load performance test; (3) Test the main hoist before testing the auxiliary or whip hoists; and (4) Test loads shall only be raised to a height sufficient to perform the test.

Note: Table I-1 (no-load performance test) includes: X1 (Load hoist operation and limit switch test), X2 (Boom hoist operation and limit switch test, fixed boom, and X2t, if telescopic boom), and X10 (other motions test). Refer to Appendix I, pages I-1 through I-5 for a complete description of these tests.

Note: Table I-2 (at-load performance test) includes: L2(2) (Load and boom hoist static test, appropriate hoist(s), L3(2) (Load hoist dynamic test, appropriate hoists(s), L4(2) (Test of wire rope during either the static or dynamic test), L5 (Boom hoist operating test), L6(2) (Hoist foot brake test, hydraulic or mechanical brake, if applicable, and L6b, hoist load brake test), L7 (Boom foot brake test), L11 (Rotation test), L17 (Hydraulic crane slippage, if applicable), and L18 (Free-rated load test). Refer to Appendix I, pages I-6 through I-17, for a complete description of these tests.