

## SAFETY INSPECTION FOR CONSTRUCTION EQUIPMENT

U.S. Army Engineer District, Detroit

Date of Inspection:

Contractor or Unit	Contract No. Or Activity		
Inspected by (Signature)	Witness (Signature)		
<b>PILE DRIVERS</b>	Yes	No	N/A
NOTE: Safety and Health Requirements Manual (EM385-1-1 - Sep 08) references in parentheses.			
1. Does the maximum allowable list and trim exceed the amount specified by the manufacture and shall not exceed: (16.L.04.b(4)) (a) All deck surfaces of the barge or floating device shall be above water; (b) The entire bottom area of the barge or floating device shall be submerged; and (c) The least of the following; 5° the maximum specified by the crane manufacture or if not specified, the amount specified by the qualified person.			
2. Has the qualified person been identified and their experience and knowledge been accepted? (16.B.01)			
3. Are Guy, outriggers, thrust outs, counter-balances or rail clamps provided to maintain stability of pile-driver rigs? (16.R.02)			
4. Does the swinging (hanging) leads have fixed ladders? (16.R.03.a(1))			
5. Are employee prohibited from remaining on leads or ladders while pile is being driven? (16.R.03.a(2))			
6. Are fixed pile-driver leads provided with decked landings having guard rails, intermediate rails, and toe boards? (16.R.03.b(1))			
7. Are fixed ladders or stairs provided for access to landings and head blocks? (16.R.03.b(1))			
8. Are fixed leads provided with rings or attachment points so that worker exposed to falls > than 6 ft. shall attach their safety harnesses to the leads? (16.R.03.b(2))			
9. Are landings or leads being used for storage of any kind? (16.R.03.b(2)(c))			
10. Is a stop block provided to prevent the hammer from being raised against the head block? (16.R.03.b(2)(d))			
11. Is a blocking device, capable of supporting the weight of the hammer, provided for placement in the leads under the hammer at all times while the employees are working under the hammer? (16.R.03.b(2)(e))			
12. Are leads free from projections or snags to minimize line damage and personnel safety hazards? (16.R.03.b.2(f))			
13. When load is relieved or drum rotated, are procedures in place to eliminate the automatic disengagement of "dogs"? (16.R.04)			
14. Are guards provided across the top of the head block to prevent wire from jumping out of the sheaves? (16.R.05)			
15. Are all hoses connected to pile-driver hammers, pile ejectors, or jet pipes securely attached with an adequate length of at least ¼ in. alloy steel chain, having 3,250 lb (1,500 kg) working load limit, or equal strength wire, to prevent whipping if the joint is broken? (16.R.06)			
16. Are two shutoff valves, one of which shall be a quick-acting lever type within easy reach of the hammer operator, on steam/hydraulic line controls? (16.R.07)			
17. Is the width of the hull of floating pile drivers at least 45% of the height of the leads above water? (16.R.08.a)			
18. Is the operating deck of a floating pile-driver so guarded as to prevent piles that are being hoisted into driving position from swinging in over the deck? (16.R.08.b)			

19. Are all employees clear when piling is being hoisted into the leads? (16.R.09.a)			
20. Is the hoisting of steel piling done by use of closed shackle or other positive attachment to prevent accidental disengagement? (16.R.08.b)			
21. Are taglines used for controlling unguided piles and free hanging (flying) hammers? (16.R.09.c)			
22. Are hammers being lowered to the bottom on the leads while pile drive is being moved? (16.R.09.d)			
23. Are all access pits provided with ladders and bulk headed curbs to prevent material from falling into the pit when driving jacked piles? (16.R.10)			
24. Are pile-driving operations suspended when tops of driven piles are being cut off? (except when cutting operations are located at least twice the length of the longest pile from the driver) (16.R.11)			
25. Is a pile extractor be used when piling cannot be removed without exceeding the load rating of equipment? (16.R.12.a)			
26. Is the crane equipped with LID device when pulling pilings? (the boom cannot be raised more than 60° above horizontal) (16.R.12.b)			
27. Is the crane operator tipping the crane, then releasing the brake, and before settling, catching the load? (16.R.12.c)			
28. Are running lines located within 6'6" of the ground or working level guarded or restricted by physical barriers? (15.A.03)			
29. Is a positive latching device being used to secure loads and rigging when hoisting? (15.A.05)			
30. Are Hooks, shackles, rings, pad eyes, and other fittings which show excessive wear, bent, twisted, or otherwise damaged being removed from service? (15.A.06)			
31. Has wire rope which has been removed from serviced been cut up and marked as defected? (15.D.02)			
32. Does wire rope clips attached with U-bolts have the U-bolts on the unloaded (dead) or short end of the rope? (15.D.03)			
33. If a wedge socket is being used, is the unloaded/short end of the wire rope looped back and secured to itself by a clip or have a separate piece of equal sized wire rope attached by a clip? (15.D.04)			
34. Are safety shackles being used? (01.A)			
35. Has crane and hoisting equipment been inspected, tested, and certified in writing by a competent person in accordance with manufacturer's recommendations? (16.A.02)			
36. Is electronic equipment for entertainment being used by the operator during operations? (16.A.05)			
37. Is mechanized equipment shut down during fueling operations? (16.A.06)			
38. Is the following equipment found in working order on the crane? (16.A.08.a-j) <ul style="list-style-type: none"> <li>a. Operational fuel gage,</li> <li>b. Operational audible warning device (horn),</li> <li>c. Adequate rear view mirror or mirrors,</li> <li>d. Non-slip surfaces on steps,</li> <li>e. power-operated starting device,</li> <li>f. Seats or equal protection for the operator and all personnel required to be in the equipment,</li> <li>g. when visibility conditions warrant, at least two headlights and taillights in operational condition,</li> <li>h. Windshields, windows, and door glass made of safety glass,</li> <li>i. at least one dry chemical or CO<sup>2</sup> fire extinguisher, minimum rating 10B:C installed in the cab,</li> <li>j. an operational backup alarm on self-propelled equipment.</li> </ul>			

39. Are Rollover Protective Structures (ROPS) required by the manufacture in place and maintained? (16.A.09)			
40. Are moving parts, shafts, sprockets, belts, etc., guarded? (16.A.11.a.)			
41. Is insulation or guarding furnished for protection against hot surfaces, pipes, and exhausts? (16.A.11.b)			
42. Are platforms, foot walks, steps, handholds, guardrails, toe boards, and hand grabs designed, constructed, and installed properly to provide safe footing & access ways? (16.A.11.c.-d.)			
43. When the equipment's rotating superstructure poses a risk of striking & injuring an employee or pinch/crush an employee, are barriers and other employee protection provided? (16.A.12)			
44. If compressed air is used to activate hammer, have the air tanks been tested and certified? (20.A.01.a-d)			
45. Is discharge from blow-off valves (steam or air) directed so it does not create a hazard? (20.A.10)			
46. Is an air pressure gage in working condition installed on the unit? (20.A.12)			
47. Are pressurized cylinders, actuating booms, outriggers, etc., equipped with pilot check valves? (20.A.18)			
48. Does the air compressor tank have an accessible drain at its lowest point? (20.B.18)			
49. Are all boilers equipped with approved type water columns, gauge glass, and try cocks? (20.C.05)			
50. Is the boiler equipped with an approved blow-off valve? (20.C.06)			

Remarks: