



**U.S. ARMY CORPS OF ENGINEERS
Safety Inspection Checklist for Construction Equipment
(Including Cranes, Derricks, and Hoisting Equipment)**

Project:	Contractor: Environmental Chemical Corporation	Contract No.
Type and Make of Equipment	Model	Serial No.

Before any machinery or mechanized equipment is placed in use it shall be inspected and tested by a competent mechanic and certified to be in good operating condition. Records of tests and inspections shall be maintained as part of the active contract file at Project or Resident Office. Checklist set forth herein requires the application of EM 385-1-1, US Army Corps of Engineers Safety and Health Requirements Manual, September 1996. The appropriate EM paragraph to be applied is listed at the end of each testing requirement.

CHECKLIST	Yes	No	Not Appl.
1. Are adequate and serviceable fire extinguishers provided? (09.E.01 through 09.E.03)			
2. Are all wire rope cables in good condition? (15.B.01 and 15.B.02)			
3. Are wire rope, sockets, splices, thimbles, and clips adequate and properly applied? (15.B.03 through 15.B.08)			
4. Are hooks, safety nooks, shackles, rings, etc., in good condition? (?)			
5. Are necessary platforms, footwalks, etc., provided? (22.A.01 and 22.A.02)			
6. Are access steps, platforms, etc., provided with non-slip surfaces? (21.A.13)			
7. Is operator protected against the elements, falling or flying objects, swinging loads, and similar hazards? (16.B.10, 16.B.11, and 21.A.11)			
8. Are all glasses in operator's compartment safety glass and in good repair? (16.B.10 and 18.A.07)			
9. Is suitable access provided at lubrication points? (16.B.13)			
10. Do all modifications, extensions, replacement parts, and/or repairs to equipment maintain the same factor of safety as original designed equipment? (16.A.18)			
11. Are drums for load lines equipped with at least one positive holding			

CHECKLIST	Yes	No	Not Appl.
device, applied directly to the motor shaft or some part of the train gear?			
12. Is there sufficient cable to allow three full wraps of cable on drums at all working positions? (16.C.10)			
13. Are adequate headlights, taillights, and turn signals provided and are they in proper operating condition (16.A.07 and 18.A.02 through 18.A.04)			
14. Are all approved brakes on wheeled equipment and in good operating condition? (16.A.07, 18.A.02, and 18.A.05)			
15. Do windshields have wipers in proper operating condition? (16.A.07, 18.A.02, and 18.A.06)			
16. Are rear view mirrors provided? (18.A.02 and 18.A.06)			
17. Are operating levers equipped with latch and other devices to prevent accidental starting? (18.A.10)			
18. Is engine equipped with power-operated starting device in operative condition? (18.A.06)			
19. Do all pressure vessels have valid inspection certificates? (20.A.03)			
20. Are reverse signal alarms on equipment? (16.B.01)			
21. Are belts, gears, shafts, electrical contacts, etc., adequately guarded? (16.B.03)			
22. Are all hot pipes and surfaces suitably guarded? (16.B.03)			
23. Are fuel tanks located so that spills or overflows will not come in contact with engine or exhaust? (16.B.04)			
24. Are exhausts and discharges so directed as not to endanger workmen or obstruct view of operator? (16.B.05)			
25. Are guards in place on equipment with drop type skip pans? (16.B.03)			
26. Are adequate seats provided for all riders? (16.A.07 and 18.C.01)			
27. Are tires in serviceable condition? Are testing/inspections documented? (18.A.02)			
28. Are steering linkage and tie rod in good operating condition? Are testing/inspections documented? (18.A.02)			
29. Are dump bodies provided with holding device or other suitable device for locking body in raised position? (18.A.10)			
30. Are tailgate dumping devices so arranged that operator will be in the			

CHECKLIST	Yes	No	Not Appl.
clear while dumping loads? (18.A.10)			
31. Are trip handles provided on tailgates to facilitate handling? (18.A.10)			
32. Is the air hose free from leaks or defects? (? 20.B.03)			
33. Are safety lashing for quick make-up type connections provided? (20.A.16)			
34. Is an acceptable spark arrestor installed and working? (?)			
35. Do heating devices comply with references? (?)			
36. Does welding equipment comply with code requirements? (10.A.10 and 10.E.01)			
37. Is equipment adequately grounded? (10.E.04 and 10.E.07)			
38. Do electrical components comply with code? (10.E.01)			
39. Are required pressure, temperature, or relief gages and valves installed and operable? (20.A.10 through 20.A.13 and 20.B.02)			
40. Are approved seat belts and roll-over protection provided? (16.B.08, 16.B.12, and 18.B.02)			
41. Is recommended preventive maintenance being followed? (16.A.08 and 18.A.02)			
42. Do helicopter cranes meet construction requirements (16.J.01)			
43. Does hydraulic equipment meet special safety conditions (? 11.H.08, 11.H.09, and 13.A.09)			
44. Is concrete equipment fitted with adequate safety devices? (27.A.04)			
45. Are elevating and rotating work platforms in conformance with ANSI A92.2? (22.K.01)			
46. Do conveyors, cableways, and related equipment conform to ANSI 320.01? (?)			
47. Are pile drivers equipped with all appropriate safety devices? (16.L)			
48. Do material hoists conform to ANSI A10.5? (16.K.01)			
49. Do passenger elevators conform to ANSI A10.4? Do temporary hoists conform to ANSI A10.22: (21.H)			
50. Do hand and power tools comply with applicable ANSI standards (13.A through 13.G)			

CHECKLIST	Yes	No	Not Appl.
51. Is high voltage sign posted? (?)			
52. Is equipment fitted with positive stops for rotation when near power lines? (11.E and 16.D.06)			
53. Is there any visible evidence of damage to boom? (16.C.12 and Appendix H)			
54. Is the boom position indicator operating and visible to operator? (16.D.01 and 16.D.04)			
55. Have all operators had a current physical examination? (1.C and 16.C.04)			
56. Is braking equipment capable of effectively braking, lowering, and safely holding a load of at least the full rated load as required? (?)			
Remarks:			
<p data-bbox="203 1018 1421 1081">Certification: I hereby certify that this item of equipment is in good operating condition and that it meets all above requirements except as noted in the remarks.</p> <div data-bbox="1104 1165 1372 1228" style="text-align: right;">Signature of Competent Mechanic</div> <div data-bbox="1201 1291 1258 1323" style="text-align: right;">Date</div> <div data-bbox="1104 1417 1364 1501" style="text-align: right;">Signature of Superintendent/Quality Control Engineer</div> <div data-bbox="1201 1533 1258 1564" style="text-align: right;">Date</div>			

ENVIRONMENTAL CHEMICAL CORPORATION

STANDARD OPERATING PROCEDURES FOR HEAVY EQUIPMENT USE U.S. ARMY CORPS OF ENGINEERS PROJECTS

- All standards as stated in Section 16 of EM 385-1-1 pertaining to this project shall be met or exceeded.
- All equipment used on this project shall be inspected by a competent person and deemed safe for uses before it is released for work.
- Safety meetings will be held daily. Tool box safety meetings shall be held prior to each work shift. All safety meetings shall be documented and recorded as to attendance and subject matter.
- All traffic regulations shall conform to ECC operations and safety requirements. All posted signs designating right-of-ways, stops, and yields will be observed on haul roads and access roads.
- Speed limit on site will be 15 MPH or as posted or directed by the SSHO due to conditions.
- All light and heavy duty vehicles will have on board first aid kits and fire extinguishers.
- All procedures and standards for excavations as stated in EM 385-1- Section 25 shall be met or exceeded.
- Dust control measures shall be taken when it is apparent that airborne particulates (dust) have become a health or safety hazard.
- All requirements for signs, barricades, and signals shall meet or exceed USACE standards as stated in EM 385-1-1.
- All ground personnel must don highly visible clothing and orange vests while directing traffic or working in excavation zones.
- Minimum personal protective equipment required for all personnel on site shall include:
 - Safety hard hat;

- Steel-toed shoes or boots;
- Safety glasses as required to conform with ANSI Z-87 standards;
- Hearing protection when required; and
- Work gloves as required by task.