

Safety Inspection of Load Handling Equipment (LHE)
USACE, Galveston District

Safety and Health Requirements Manual (EM 385-1-1 30 Nov 2014)

Contract No.	Date of Inspection:
Prime contractor Name:	
Make:	Model:
Serial #:	
Contractor SSHO:	Name of competent person:
Signature of CP/QP:	USACE QA:
Inspector Name/signature:	

Yes No N/A

Are all workers fluent in English or is an interpreter present (01.A.06)			
Certification of Compliance (COC) in the cab (16.A.02)			
COC accepted by the GDA (16.A.02)			
Standard Lift Plan available (SLP) (16.A.03) (16.L.20)			
Operator manual available in the cab (16.A.04) (16.G.01.a)			
Equipment Requirements, as applicable to the type of equipment (16.A.09)			
(a)- Fuel gage			
(b)- Audible warning device (horn)			
(c)- Adequate rearview mirrors			
(d)- Non-slip surface on steps			
(e)- Power operator starting device			
(f)- A seat for the operator and all personnel required to be in/on equipment			
(g)- When visibility conditions warrant additional light, equipment must have minimum two head lights and two taillights			
(h)- Safety glass in windshields, windows, and doors. Cracked or broken glass shall be replaced.			
(i)- A dry chemical or CO2 fire extinguisher with minimum 10B:C rating in cab or machinery housing.			
(j)- Self-propelled LHE, equipped with a back-up alarm (see also section 18.B.01)			
Rollover protective structures (ROPS) as required by the manufacturer (16.A.10)			
Operator manuals for hydraulic equipment and attachments (16.A.11)			
Guarding and safety devices in place, e.g. rotating or moving parts, hot surfaces, walking platforms (16.A.12.a-c)			
Work area control, employees are protected from rotating superstructure (16.A.13)			

Running lines located within 6'6" of the ground or working level shall be guarded or restricted by physical barriers. (16.A.14)			
Activity Hazard Analysis and provided to the GDA (16.B.02)			
Operator certification, qualification, and employer designation to operate the equipment (16.B.03)			
Operator physical examination signed by an MD or DO (16.B.05)			
Documentation of signal person qualification (16.B.06)			
Records of all LHE tests and inspections maintained on site (16.D.02)			
Record of monthly inspection available (16.D.05 (note))			
Shift inspection documentation. Results, name and signature of CP conducting inspection, and date. On site for 12 months (16.D.06)			
Annual inspection available (16.D.07)			
Running and standing wire rope inspection for each shift. (16.D.10)			
Safety Devices (16.E.01a-g)			
(a)- Crane level indicator. Does not apply to derricks, floating cranes/derricks and crane/derricks on barges pontoons, vessels or other means of flotation. (16.E.01(a)(2))			
(b)- Boom stops, except for derricks and hydraulic booms			
(c)- Jib stops (if jibs are attached), except for derricks			
(d)- Foot pedal breaks shall have locks, except for portal and floating cranes			
(e)- Hydraulic outrigger jacks shall have an integral holding device (check valve)			
NOTE: Operations should not begin unless the safety devices listed above are in proper working order. Alternative measures are not permitted to be used.			
Operational Aids (16.E.03(c&d))			
(c)(1)- Boom hoist limiting device.			
(2)- Luffing jib limiting device. If equipped.			
(3)- Anti two-blocking device (A2B). Installed at all points of two-blocking.			
(4)- Wind speed indicating device.			
(d)(1)- Boom angle or radius indicator			
(2)- Jib angle indicator (if equipment has luffing jib; does not apply to articulating cranes)			
(3)- Boom length indicator (does not apply to articulating cranes) if crane has telescopic boom.			
(4)- Load weighing and similar devices			

(5)- Hoist drum rotation indicator if the drum is not visible from the operators station			
(6)- Outrigger position sensor/monitor			
Written reports of tests, showing procedures and confirming adequacy of repairs or alterations i.e. log book (16.F.01)			
Operational testing conducted and documented (16.F.02)			
All LHE shall have the following documents available in the cab (16.G.01(a-e))			
(a)- A copy if the operating manual from the manufacturer for the specific make and model of equipment			
(b)- Copy of the load-rating chart, includes LHE make and model, serial number, and year of manufacturer, load ratings for all operating configurations, reeving for hoist line, operating limits for windy or cold weather			
(c)- Durable load chart with legible letters and figures			
(d)- Log book includes operating hours and all crane inspections, test, maintenance, and repair.			
Communications system identified e.g. hand, radio, etc. (16.G.05)			
Power line clearance established (min 20ft) (16.G.09 and Table 16-1)			
Crane mats used and adequately maintained (16.G.14)			
Critical Lift plan submitted and accepted 16.H			
Manufacturer's floating service load chart provided and available in the cab (16.L.03)			
Floating service Naval Architectural Analysis (NAA) provided (16.L.05)			
Safety Devices and Operational Aids for Floating platforms (16.L.16(a-f))			
(a)- Machine heel and trim indicating device			
(b)- Boom angle indicator within clear view of operators station			
(c)- Floating platform list and trim indicating device, as a means for the operator to visually determine the heel and trim of the platform as opposed to the crane			
(d)- Draft Marks as a means for monitoring both draft and freeboard			
(e)- Wind speed and direction indicator within clear view of the operator			
(f)- Anti two-block device (see 16.E.03)			
Attachments:			
AHA for crane set-up and set down: 01.A.14			
Has the CP/QP sign the document accepting that he is: 01.A.14.b.3			
Is the AHA been accepted by the GDA and discussed: 01.A.14.c			
(For Airfield Operation follow, section 32 of the EM 385-1-1)			
Report of Crane Test:			

Government Owned:					
Contractor Owned/Rented:		If Rented who Owned:			
Length of boom:					
Manufacturer Rate Capacity: Drag Line N/A					
Max Work Load Anticipated:	Tons :	Radius Ft:	Duty Cycle		
Position # 1	Load:	Radius:			
Position # 2	Load:	Radius:			
Position # 3	Load:	Radius:			
Position # 4	Load:	Radius:			

Note: Performance load test shall be conducted in accordance with the manufacturer's recommendations. Load test shall not exceed 100% of the manufacturer's load rating capacity chart at the configuration of the test. The test shall consist of lifting, lowering, swinging and braking the test load through all positions and operations normally performed to demonstrated the equipment's ability to safety maneuver the load.

Written reports of the rated load test, showing test procedures and confirming the adequacy of repairs or alterations, shall be maintained with the crane, derrick or at the on-site project office.

Remarks:

List all dents, scratches or damage that do not interfere with the safe operation of the equipment.

- 1-
- 2-
- 3-
- 4-
- 5-
- 6-

Corrections of Deficiencies and date corrected:

Note: Crane shall not be utilized until all deficiencies have been corrected. If at anytime the crane or derrick is removed from and subsequently returned to the project it shall be re-inspected and re-certified prior to use.

Name and Signatures: _____
Prime Contractor Superintendent: _____
Prime Contractor Quality Control Rep: _____
Crane Operator: _____

QA/PE : _____