MASTER DIRECTIVE FILE

UNITED STATES MARINE CORPS
MARINE CORPS BASE
CAMP LEJEUNE, NORTH CAROLINA 28542

BO 11262.1 w/Ch 1
LOG/RTD/bwj
8 Sept 1982

BASE ORDER 11262.1 w/Ch 1

From: Commanding General
To: Distribution List

Subj: Inspection and Load-Testing of Marine Corps Owned Commercial and Tactical Load-Lifting Equipment

Ref: (a) MCO 11262.2
(b) OSHA Instruction 29-CFR

Encl: (1) Inspection and Load-Testing Procedures

1. Purpose. To establish procedures in accordance with references (a) and (b) for the inspection and load-testing of Marine Corps commercial and tactical load-lifting equipment located within the Quad-Command at Marine Corps Base, Camp Lejeune, the enclosure is promulgated.

2. Background

a. Reference (a) establishes the requirements for all units owning or using Marine Corps load-lifting equipment to ensure that inspections and annual load-testings are conducted. This Order provides the standard procedures to be utilized in the load-testing and inspection of Marine Corps owned commercial and tactical load-lifting equipment in use by Marine Corps units located at Camp Lejeune.

b. Commercial and tactical load-lifting equipment includes cranes, wreckers, forklifts, retrievers, "A" frames, chain hoists, winches, used to lift loads vertically; overhead industrial cranes in permanent facilities and maintenance shops. Hydraulic jacks and jack stands do not require load-testing, but they must be permanently marked with the rated load capacity.

3. Action

a. Commanding Officers and Officers in Charge shall ensure that inspections and load-testings are conducted in accordance with this Order and applicable technical manuals.

b. Commanding Officers and Officers in Charge will ensure that weight capacity and test data are properly stenciled on the equipment and that equipment records are properly annotated before placing load-lifting equipment into service.

c. Commanding Officers shall ensure that inspection and load-testing programs are implemented in accordance with this Order.

4. Applicability. The Commanding Generals, 2d Marine Division, FMF, and 2d Marine Aircraft Wing, FMF; and the Commanding Officers, 2d Force Service Support Group (Rein), FMF Lant and MCAS(H), New River, concur in the application of this Order.

J. R. FRIDELL
Chief of Staff

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UNITED STATES MARINE CORPS
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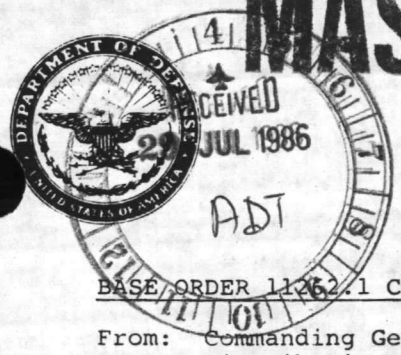

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BASE ORDER 11262.1 Ch 1

From: Commanding General
To: Distribution List

Subj: Inspection and Load-Testing of Marine Corps Owned Commercial and Tactical Load-Lifting Equipment

1. Purpose. To direct pen changes to the basic Order.

2. Action

a. In the basic Order, Enclosure (1), page 1, paragraph 1e, under NOTE, change the words "tactical forklifts" to "commercial/tactical forklifts"; line 1, delete "test" and on line 2, change the word "Department" to "Division".

b. In Enclosure (1), page 4, paragraph 4b, line 1, change the words "will" to "are to" and "Maintenance Department" to "Motor Transport Division".

3. Filing Instructions. This change transmittal will be filed immediately following the signature page of the basic Order.

J. B. AIROLA
Chief of Staff
Acting

DISTRIBUTION: A

INSPECTION AND LOAD-TESTING PROCEDURES

1. General Information

a. Inspection. When required in technical directives as a scheduled maintenance check (preventive maintenance (PM)) owning/using units shall conduct the inspection concurrently with the PM. When no general inspection is specified as part of PM services, or when inspection requirements are not adequately covered, they will be conducted as set forth herein.

b. Receipt of Equipment. Upon receipt of load-lifting equipment, the owning/using unit shall determine if the annual load test requirement has been met. When this cannot be verified by equipment records and/or by test data stenciled on the equipment, load test shall be conducted as part of the equipment acceptance check.

c. Operator's Daily Check. Operators of cranes, wreckers, and retrievers shall perform a daily inspection of their assigned equipment. The crane/wrecker operator's daily checklist (Appendix A) will be produced locally and used for this purpose. This form shall be filed with the trip ticket. Operators of retrievers shall record daily inspections in the tracked vehicle daily log (NAVMC 10393) as set forth in the applicable technical manuals.

d. Annual Condition Inspection and Load-Test. It is the purpose of the annual condition inspection to ensure that the overall structural, mechanical, and electrical components of the equipment have been maintained in a safe and serviceable condition and are functioning properly. It is the purpose of the load test to ensure that the equipment is capable of safely lifting and moving the rated load through all operational modes. The load test shall be performed on a level, hard surface utilizing a BALDWIN SR4 load cell or equivalent (provided by the Base Maintenance Department), between the lifting hook and the weight (provided by the Base Maintenance Department), or by direct use of calibrated weights (provided by the Base Maintenance Department).

e. Certification. The certifying officer is a representative of the owning/using command and is responsible for ensuring the safety and reliability of all weight-handling equipment. The certifying officer shall be designated in writing. The certifying officer shall designate the authorized test directors, inspection, and test personnel. Certification shall be based on the condition inspection and load test prescribed in paragraph 1d, preceding. Certification of load test and condition inspection shall be signed by the test director, inspection and test personnel; and the certifying officer.

NOTE: In all load ~~test~~ involving other than commercial/tactical forklifts ~~tactical forklifts~~ and tactical hoists the test director and test personnel shall be provided by the Base Maintenance ~~Department.~~ DIVISION

f. Condition Inspection, Load Test, and Certification Frequency. Each unit of weight-handling equipment shall be condition-inspected, load-tested, and certified at least once annually as prescribed herein.

g. Waivers. Waivers may be granted to Fleet Marine Forces, in some instances however, approval must be requested from the Commanding General, Fleet Marine Force, Atlantic in accordance with the reference.

h. Marking. Load-lifting equipment shall be stenciled, in a position clearly visible to the operator but in an area where the marking will not be worn off through normal use of the equipment, with test data indicating the test status.

(1) Tested Equipment. Example: CAP. 3000 lb Tested 7/11/82.

(2) Nontested Equipment. Example: CAP. 3000 lb CAUTION NOT TESTED.

2. Mobile Cranes, Wreckers, and Recovery Vehicles.

a. General Instructions

(1) Test Inspector and Testing Personnel. The Base Maintenance Department shall provide the test inspector and testing personnel, (one individual may be both), for performance of load-testing equipment in this paragraph.

(2) Testing Sequence. The sequence of testing will be at the option of the test inspector, except that no load test will be performed first. Where the crane has more than one hoist, the main hoist will be tested first. The normal test load shall be 125 percent of rated capacity, unless otherwise limited by manufactures specifications (it is the responsibility of the owning/using unit to inform the test director of manufacturers specifications which conflict with this Order), except for test of mobile cranes which will be load tested at 110 percent of rated capacity.

(3) Recording Test Results. All load-test results will be entered on the certification of load test and condition inspection forms (Appendix B) and filed in the equipment record jacket by the owning/using unit. After completion of each load test and condition inspection, replace the previous certifications with the recent certification. Test results for tracked vehicle retrievers will be entered on the tracked vehicle preventive maintenance record (form NAVMC 10395) by the owning/using unit. The results of the test will be certified by the test director in the prescribed space.

ENCLOSURE (1)

(4) Condition Inspection. Condition Inspections will be performed before, during, and after the load test. This function is the responsibility of the owning/using unit, and will be performed in the presence of the test director. The results of these inspections will be recorded on the crane condition inspection record (appendix C). The inspection will, in general, be by sight, sound, and touch with the depth and detail being limited to that necessary to verify the overall condition required by paragraph ld preceding. Each item on the crane condition inspection report will be marked as either satisfactory or unsatisfactory. A description of unsatisfactory conditions will be noted in the "remarks" portion of the format. If a load-bearing or load-controlling part is involved, a load test will be repeated to test only the component(s) corrected.

(5) Inspection and Testing of Hooks

(a) General Inspections. Owning/using units will inspect all hooks annually for wear in swivels and pins, other wear, cracks or gouges and proper operation and condition of safety latches, where installed. Owning/using units will correct hook deficiencies in accordance with paragraph 2(4)(a) of reference (a).

(b) Hook Throat Spread. The Base Maintenance Department test director will measure for hook throat spread before and after each load test. A throat dimension base measurement will be established by installing two tram points and measuring the distance between the tram points (1 1/64 inch). This base dimension will be retained in the "remarks" section of the record jacket (NAVMC 6961) or the tracked vehicle preventive maintenance record (NAVMC 10395) for the life of the hook. Owning/using units will replace all hooks showing an increase of the throat opening of more than 5%.

(c) Hook Disassembly, Inspection, and Nondestructive Test. The hook, retaining nut, and bearings will be disassembled from the block and thoroughly inspected by the owning/using unit annually prior to the load test in the presence of the Base Maintenance Department test director. The hook and retaining nut shall be visually examined for thread wear and corrosion damage. The block bearing plate shall be visually inspected for cracks, wear, or other damage. Bearings shall be inspected for unusual wear and free rotation. All components will be lubricated, as required, during reassembly the hook and retaining nut assembly will be nondestructively tested for structural defects. The nondestructive test of general-purpose service crane hooks is valid for five certification periods. The effective date of hook inspection and nondestructive test shall be the crane certification date. Nondestructive test methods and acceptance criteria will be approved by the Base Maintenance Departments' test director prior to performance of load testing.

(6) Inspection of Wire Rope, Fastenings, and Terminal Hardware. The owning/using unit is responsible for performing an inspection on all wire rope, fastenings and terminal hardware in accordance with paragraph 2.a.(5) of enclosure (1) to reference (a) prior to the annual load test. The Base Maintenance Departments' test director may decline to perform a load test for safety reasons. The reason for declining to perform the load test will be recorded on the appropriate inspection record by the test director. Every effort will be attempted to correct the safety defect by the owning organization to the test director decling to provide the test service.

(7) Prerequisites to Load-testing

(a) A safe test area will be selected, and all traffic and unauthorized personnel and equipment will be cleared from the test area.

(b) All rigging used in crane load-testing will have been previously tested to at least 150 percent of the rated working load.

(8) Precaution During Load-testing

(a) Prescribed tests are overload tests, and extreme caution will be observed at all times. Personnel will watch the outrigger(s) opposite the boom for any indication of the outriggers leaving the ground. This condition indicates that the crane is approaching a tip-over condition, and testing will be immediately terminated.

(b) Personnel will remain clear of suspended load and areas where they could be struck in the event of a boom failure.

(c) The test load will be raised only to a height sufficient to perform the test.

(d) Marine Corps Equipment will not be used as load testing weights.

b. Preoperation. Select a test course that is level and free of ground obstructions. As much as possible, all testing, especially during maximum test loading, will be conducted on a hard surface, such as concrete. For truck and cruiser cranes, extend outriggers and raise the crane carrier off the ground to completely unload tires or wheels. Level the crane as required by the manufacturer's load chart. Rotate the boom 90 degrees from the longitudinal axis of the crane carrier, and position the boom at the minimum working radius. CAUTION: Cribbing will be placed under the counterweight to prevent overturning in the event of wire rope of mechanical failure.

c. No-Load Test

(1) The no-load test will be performed either by the Base Maintenance Department test director or in the absence thereof, presence by operators furnished by the owning/using unit.

(2) Hoist and Boom

(a) Raise and lower the hook through the full working distance of hook level.

(b) Run the hoist block into the upper limit switch. (where installed)

(c) Raise the boom past the boom upper limit switch. (where installed)

(d) Test the lower limit switch (where installed) by the same procedure prescribed for testing the upper limit switch.

(e) Extend and retract the telescoping boom section the full distance of travel.

(f) Check the radius indicator by measuring the radius at the minimum and maximum boom angle.

(g) Other motions, including swing, shall be operated through one cycle (one full revolution of major components).

d. Load Test. The load test consists of basically two parts: a maximum load test and a stability test. The test sequence listed in the following paragraphs is time and cost effective. The sequence may be varied at the direction of the Base Maintenance Department's test director.

(1) Maximum Load Test for the Crane Main Hoist

(a) Static Test. Raise the test load with boom at minimum radius to clear the ground and hold for ten (10) minutes without boom and load hoist pawls (dog) engaged. Observe any lowering that may occur which may indicate a malfunction of boom or hoisting components brakes, or outriggers. For hydraulic cranes, the test will be performed with the boom fully retracted and fully extended. CAUTION: This operation will require two different loads.

(b) Dynamic Test. Raise and lower the test load at normal operating speeds. Lower the test load to the ground until the hoist lines are slack. Wait five (5) minutes, hoist the testload, and continue to the hoist brake test.

(c) Hoist Brake Test. Test the ability of the brake to control and stop the load. Test the ability of the brake to hold and lower the test load with the friction clutch disengaged, if applicable.

(d) Boom Operation. Operate the boom from minimum radius to maximum radius for the load applied. CAUTION: This will require two different loads.

(e) Hydraulic Crane Slippage. Lift the test load at maximum radius and allow time for the fluid and component temperatures to stabilize. Hold the load for ten (10) minutes without use of controls by the operator. There will be no significant lowering of the load, boom, or outrigger beams due to components or systems malfunctions or failure during the test. The significance of any lowering shall be evaluated by the certifying officer, depending on operating requirements and safety.

(2) Maximum Load Test at Maximum Radius of Crane (Stability Test)

(a) Boom Operation. Raise and lower the boom through the full working range. Visually observe for smooth operations. Test the boom brake for proper operation. For hydraulic cranes, the test will be performed with the boom fully retracted, and fully extended. CAUTION: This will require two different loads.

(b) Rotation. Rotate the left and right maximum degrees allowed by the manufacturer at slow speed. Apply the brake periodically during rotation. The brake should demonstrate its ability to stop the rotating motion in a smooth, positive manner. (NOTE: Where brakes are designed for holding only operate the controls to stop rotation; then, apply the brake). The test shall be performed with the boom fully retracted and fully extended. This will require two different loads.

(c) Hydraulic Crane Slippage. Lift the test load at maximum radius and allow for time for the fluid and component temperatures to stabilize. Hold the load for ten (10) minutes without use of the controls by the operator. There will be no significant lowering of the load, boom, or outrigger beams due to components or systems malfunction or failure during the test. The significance of any lowering shall be evaluated by the certifying officer, depending on operating requirements and safety.

(3) Auxiliary and Jib Hoist. The test load shall be the maximum load for the hoist.

(a) Static Test. Raise the test load to clear the ground and hold for ten (10) minutes. Observe any lowering that may occur which may indicate a malfunction of hoisting components or brakes.

(b) Dynamic Test. Raise and lower the test load at normal operating speeds. Lower the test load to the ground until the hoist lines are slack. Wait five (5) minutes, hoist the test load, and continue to the hoist brake test.

(c) Hoist Brake. Test the ability of the brake to control and stop the load. Test the ability of the brake to hold and lower the test load with friction clutch disengaged, if applicable.

(4) Test After Change or Repair of Tires. Cranes that do not require use of outrigger for lifting operations will be tested with the maximum free rated test load over any tire that has been changed or repaired. Raise and hold the test load for ten (10) minutes while observing the tire that has been changed or repaired.

(5) When Used for Other Than Lift Crane Service. Locomotive, crawler, truck, and cruiser cranes which are used for clamshell, dragline, magnet, pile driving, or other nonlift crane work will be tested at the maximum safe working load permitted for the size wire rope being used. This test will be performed in all working motions except travel. Buckets, magnets, etc., may be removed for testing wire rope. No test is required after reassembly. Retesting is not required when the end attachment is changed from the original connection during the certification period.

3. Hoists

a. General Information. Hoists and A-frames shall be inspected in the same manner as cranes.

(1) Tactical hoists and A-frames will be inspected and load tested by the owning/using units.

(2) Commercial/Fixed hoists and A-frames will be inspected by the Base Maintenance Department.

b. Preoperation. The operator will perform a preoperation check as prescribed in the appropriate technical manuals. For equipment where such a checklist is not included in the technical manual, the following inspection will be conducted as a minimum requirement.

(1) Inspect all control mechanisms for maladjustment which could interfere with proper operation.

(2) Inspect all control mechanisms for excessive wear of components and contamination by lubricants or other foreign matter.

(3) Inspect all safety and locking devices for malfunction.

c. Condition Inspection. Before, during, and after each load test or calibration, inspect for the following, as applicable:

(1) General Information

(a) Check for proper marking.

(b) Check for evidence of mishandling and/or damage.

(c) Check for excessive wear on brake and clutch system linings, pawls, and ratchets.

(d) Check for rope reeving for nonconformance with manufacturer's specifications.

(2) Frames. Check for bends, distorted sections, broken welds, excessive corrosion, and loose bolts and rivets.

(3) Hooks. Hooks which have become bent to an increase of 15 percent or more in throat opening or twisted 10 degrees or more out of plane shall be removed from service. Swivelling-type hooks should rotate freely. Repair of hooks by welding or reshaping is not authorized.

d. No-load Test. The no-load test will constitute a rehearsal of the load test. Therefore, the events specified for the load test will be completed without a load prior to conducting the load test.

e. Load Test. Test loads for hoists and A-frames will be 110 percent of the rated capacity. The test will be conducted at the minimum working height, maximum working weight, and at least three intermediate points. The tests will be conducted in the same manner as those for cranes (see paragraph 2d preceding).

4. Trucks, Forklifts. Forklifts and those items of equipment capable of being adapted to use as forklifts will be tested as follows:

a. All tactical forklifts will be load tested by the owing/using command's personnel.

b. All commercial forklifts ~~will~~ are to be load tested by the ~~Base Maintenance Department's~~ MOTOR TRANSPORT DIVISION personnel.

c. Preoperations. The operator will perform a preoperation inspection as prescribed in the appropriate technical manual. For equipment where no inspection checklist is included in the manual, the following will be conducted as a minimum requirement:

(1) Select a test site which is level and free of ground obstructions.

(2) Inspect for proper markings.

(3) Carefully inspect all safety devices, including all specialized features for forklift trucks officially approved for handling explosives and ammunition.

d. Load Test. Position a test load of 100 percent of the manufacturer's rated capacity on the forks. The test shall consist of lifting, lowering (the drift should not exceed 1 inch in a 2 minute period with the test load in the hold position), holding, and maneuvering the test load.

5. Truck, Serial Service Platform (Cherry Picker).

a. General Information. The Base Maintenance Department will perform the inspection on this equipment in the following sequence; condition inspection, no-load test, and load test.

b. Preoperation. The operator will perform a preoperation inspection as prescribed in the appropriate technical manuals. For equipment where such an inspection checklist is not included in the manual, the following will be conducted as a minimum requirement:

(1) Select a test site which is level and free of ground obstructions.

(2) Inspect for proper markings.

(3) Carefully inspect all safety devices, including all specialized features.

c. Condition Inspection. This inspection will be conducted in accordance with the instruction contained in paragraph 2a(4), preceding.

d. Load Test (Stability and Range of Movement). The load test will be conducted with the truck resting on level ground, not fastened to any artifical base, and the outriggers in place. All tests will be conducted using the ground level controls. At no time will personnel be permitted to ride on the platform (basket). The platform will be loaded with an evenly distributed load equal to twice the rated working load and exercised through the full range of horizontal and vertical positions, to include at least the following:

(1) The upper and lower arms are moved to a horizontal or their most horizontal plane and extended to a maximum reach.

(2) The lower arm is moved to a horizontal or near horizontal position over the side of the vehicle, and the upper arm is moved to the most vertical position possible.

(3) With the lower arm at the maximum travel from the towed position and the upper arm both horizontal and 45 degrees to the side of the vehicle, or over the four corners of the vehicle, rotate the turntable both clockwise and counterclockwise with the test load through 360 degrees for a minimum of fifteen (15) minutes.

APPENDIX A

OPERATOR'S DAILY CHECKLIST

CRANE NO	TYPE/CAP	LOCATION/ASSIGN	SHIFT 1 2 3	HOURS METER START	HOURS METER STOP	HRS OPERATED	DATE

OPERATORS NAME	OILERS NAME	INSTRUCTION-Check all items indicated. Inspect and indicate as satisfactory=S, unsatisfactory=U, or not applicable=NA

	1 WALK AROUND INSPECTION	S	U		2 MACHINERY HOUSE INSPECTION	S	U		3 OPERATOR CAB INSPECTION	S	U		4 OPERATION INSPECTION	S	U
a	Safety Guards & Plates			a	Housekeeping			a	Gauges			a	Area Safety		
b	Carrier Frame/Rotate Base *			b	Engine/Compressor			b	Warning/Indicator Lights			b	Unusual Noises		
c	General Hardware			c	Leaks Fuel/Lube/Oil/Water			c	Controls/Brakes			c	Control Action		
d	Wire Rope *			d	Lubrication			d	Visibility			d	Brakes/Boom/Load/ Rotate		
e	Reeving *			e	Battery			e	Load Rating Charts			e	Crane Stability		
f	Block *			f	Lights			f	Safety Devices			f	No Load Test		
g	Hook *			g	Glass			g	Emergency Stops			g	Fleeting Sheave		
h	Sheaves *			h	Clutch/Brake Linings			h	List/Trim Indicators			h	Limit Switches		
i	Boom/Jib *			i	Electric Motors			i	Boom Angle/Radius Indicator						
j	Gantry/Pendants/ Broom Stops *			j	Warning Tags										
k	Walks/Ladders/ Handrails			k	Fire Extinguisher(s)										
l	Windlocks/Chocks/ Stops														
m	Tires/Wheels/Tracks														
n	Leaks, Fuel/Lub/Oil/ Water														
o	Radius Indicator														
p	Outrigger/Locking Device *														

INSTRUCTIONS-Inspect all applicable items indicated, each shift. Suspend all operations immediately when observing an unsatisfactory condition of any item indicated above with an asterisk thus (*). In addition, suspend operation when any unsafe condition is observed and immediately notify supervisor. Other conditions not affecting safety shall be noted under "Remarks" and reported to supervisor.

OPERATORS SIGNATURE

DATE

REMARKS

SUPERVISOR SIGNATURE

DATE

CRANE OPERATORS DAILY CHECKLIST

APPENDIX B

CERTIFICATION OF LOAD TEST AND CONDITION INSPECTION

Crane No.	Type	Rated Cap lbs. _____ feet	Boom Length	Location	Test Date

Reason for Test

Category Group (1) Cranes

Hoist	Test Load %	Minimum Radius		Maximum Radius	
		Pounds	Feet	Pounds	Feet
Main					
Aux					
Whip					

Hook Throat Opening	Before Test	After Test
Main Hook		
Aux Hook		
Whip Hook		

Category Group (2) Cranes

Remarks:

Certification

This is to certify that inspections and tests have been conducted in accordance with the crane test procedures set forth in BO 11262.1.

Crane Test Procedures Paragraph Numbers

Crane Condition Inspection Record Item Numbers

Check (✓) Items Inspected

1	6	11	16	21	26	31	36
2	7	12	17	22	27	32	37
3	8	13	18	23	28	33	38
4	9	14	19	24	29	34	39
5	10	15	20	25	30	35	40

It is further certified that the crane identified above is satisfactory to lift its rated capacity at its rated radii.

Test Director (Signature) Date

Inspector (Signature) Date

Certifying Official (Signature) Date

APPENDIX C

CRANE CONDITION INSPECTION RECORD

(Front)

Crane No.	Type	Location	Operator Names	Operator License Nos.
Purpose of Inspection:			Date Started	Date Completed

Item No.	Item Description	B	D	A	Insp/ Init.
1	Bent, cracked, or corroded structural members.				
2	Cracked or corroded welds.				
3	Loose, broken, missing, or deteriorated rivets or bolts.				
4	Inspect all wire rope for wear, broken wires, corrosion, kinks, damaged strands, crushed or flattened sections, condition of sockets, and dead end connections. Check for proper lubrication and evidence of proper inspection of idler sheaves and saddles. See appendixes A and B for detailed inspection requirements and rejection criteria.				
5	Inspection hooks for cracks, sharp edges, and distortion. Verify disassembly, inspection, and NDT, as applicable.				
6	Inspect all brakes and clutches for proper operation. Spot check components for proper adjustment and acceptable wear.				
7	Check all controls for proper condition and operation.				
8	Check all control components for proper condition and operation.				
9	Inspect all limit switches for condition and proper operation.				
10	Ensure each drum has minimum of two complete wraps of wire rope at lowest working level.				
11	Check load indicators for condition and working accuracy.				
12	Inspect all mechanical equipment which is reasonably accessible for wear, cracks and alinement.				
13	Inspect, where practical, for worn, defective, or misalined bearings, bushing, shafts, pins, and gears.				
14	Check components for excessive heat, vibration, noise, and oil leaks.				
15	Inspect sheaves for wear, roughness, free-turning, and alinement. Gauge sheave groove, where possible.				
16	Inspect for excessive wear of wheels, tires, rollers, and roller paths or rails.				
17	Inspect for excessive wear of chains and sprockets. Measure chain stretch of load chains.				
18	Verify that correct certified capacity charts or hook load rating data is in view of operator and/or rigging personnel.				
19	Inspect operator's cab for cleanliness and operation of all equipment.				
20	Check machinery house for cleanliness, proper safety guards, warning signs, and storage of tools and equipment.				
21	Check operation of all indicators, warning devices, and lights.				
22	Check for proper type and condition of all fire protection equipment.				
23	Check condition and function of outriggers, pads, boxes, wedges, and cylinder mountings. Check level indicators.				
24	Check center pin nut and steadiment by observing operational behavior during load test.				
25	Check travel, steering, braking, and locking devices for condition and proper operation.				
26	Check radius indicator for accuracy by measuring actual radius in at least two boom positions.				
27	Check pawls, ratchets, and spuds for proper engagement and operation of interlocks.				
28	Inspect tanks, lines, valves, drains, filters, and other components of air systems for leakage and proper operation.				
29	Inspect reservoirs, pumps, motors, valves, lines, cylinders, and other components of hydraulic systems for leakage and proper operation.				
30	Check engines and engine generator sets for proper performance, safety, and system leakage.				
31	Inspect for bent, cracked, corroded, or dented boom members.				
32	Check condition of counterweights, ballast, and securing fasteners.				
33	Check all compartments (voids) for water tightness.				
34	Check accuracy of list and trim indicators against design data or previous test data.				

(Reverse)

Remarks:
LEGEND B--before D--during A--after
Inspector Signature/Date | Test Director Signature/Date