

Report Date: 25 Mar 2014

Summary Report for Individual Task
551-88H-2607
Supervise RT875 Rough Terrain Container Crane Operations
Status: Approved

DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

Condition: Assigned as a Senior Crane operator in an operational environment, during day or night, in normal weather conditions, given a completed risk assessment, an operation order/plan, a signalman, operator's manual, tag lines with handlers, operator and assistant operator, safety clothing, a 40-ton Rough Terrain Container Crane (RTCC), containers to load/off-load, a designated off-load area, TM 5-3810-306-10, and Grove Manufacturers Manuals 1-187-000004-1 and 7-187-000004-2. This task should not be trained in MOPP 4.

Standard: Direct the operations of a Rough Terrain Container Crane (RTCC) without injury to personnel or damage to equipment.

Special Condition: None

Safety Level: Medium

MOPP: Never

Task Statements

Cue: You are assigned as a Senior Crane Operator tasked with supervising the operation of a 40-Ton Rough Terrain Container Crane.

DANGER

Adhere to all DANGER statements listed in the vehicle technical operator's manual applicable to this procedure. Failure to comply may result in injury to personnel or damage to the equipment.

WARNING

Adhere to all WARNING statements listed in the vehicle technical operator's manual applicable to this procedure. Failure to comply may result in injury to personnel or damage to the equipment.

CAUTION

Adhere to all CAUTION statements listed in the vehicle technical operator's manual applicable to this procedure. Failure to comply may result in injury to personnel or damage to the equipment.

Remarks: None

Notes: None

Performance Steps

1. Direct signalman using standard hand signals by ensuring signalman does the following:
 - a. Checks to see that the swing of the crane will not bring the boom tip within 10 feet of power lines.
 - b. Checks to see that the boom and the counterweight are clear of all obstructions and people before signaling the operator to swing the boom.
 - c. Checks to see that all people are clear of the under carriage and the path of the crane if the crane's location is to be changed.
 - d. Checks to see that the boom is clear of overhead obstructions before signaling operator to raise the boom.
 - e. Checks to see that the cargo handlers are aware of his intentions and that the load is slung correctly before signaling the operator to raise the hook.
 - f. Checks to see that there is no one underneath the hook or load who would be endangered before signaling operator to lower the hook.
 - g. Informs the operator, whenever possible, of the weight of heavy lifts when going from light to heavy lifts.
 - h. Coordinates with the crane operator to find a safe working capacity of the crane at the radius being used.
 - i. Positions themselves so they are visible to the operator while giving all signals.
 - j. Tells the operator to secure the crane when there will be lengthy delays, such as lunch breaks or cargo securing operations.
 - k. Signals the operator to stop immediately upon observing any safety hazards.
 - l. Informs the hatch foreman immediately if any safety hazards arise.
 - m. Uses the correct signals to accomplish steps a through l (see figure 3-146).



HOIST

LOWER

USE MAIN HOIST



USE WHIP LINE

RAISE BOOM

LOWER BOOM



MOVE SLOWLY

**RAISE THE BOOM
AND LOWER LOAD**

**LOWER THE BOOM
AND RAISE LOAD**



TRAVEL

DOG EVERYTHING

EMERGENCY STOP

Figure 3-146 (continued)
Standard Crane Hand Signals

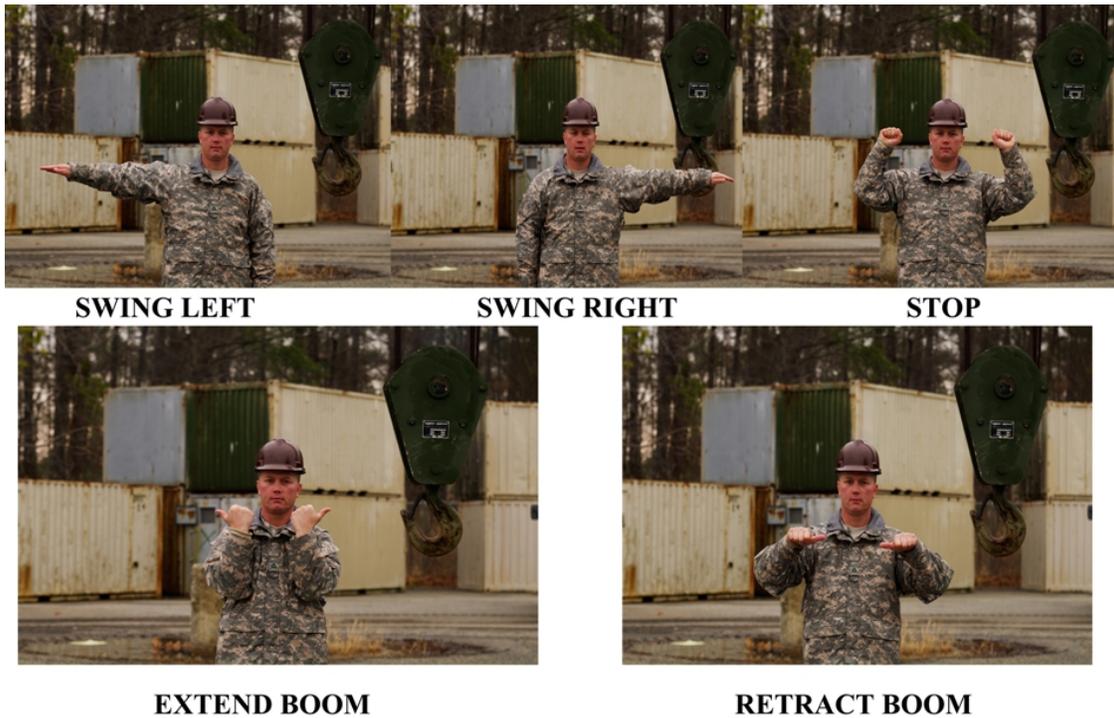


Figure 3-146
Standard Crane Hand Signals

2. Direct operator lifting a container with a 40-ton Rough Terrain Container Crane by ensuring operator does the following:

Note: Ensure operator uses slow, even pressure when working the control levers.

a. Positions RTCC parallel to the container by:

(1) Driving up to and parking parallel to the container.

(2) Setting up the crane on outriggers.

(3) Checking weight of container added to the lifting devices and checking load chart to ensure container can be safely lifted.

(4) Raising spreader to a position higher than the top of the container.

b. Swings the spreader directly over the corner fittings of the container.

c. Lowers the spreader so that the four (4) twist locks are inserted into the four (4) corner fittings of the container.

d. Lifts container by:

(1) Pulling main hoist lever until container is lifted 4 or 5 inches from the ground.

(2) Slowly releasing lift lever.

(3) Checking that hoist brake is holding properly and then continues to make lift until obstacles are cleared.

e. Swings container to the front of the crane and lowers container to the ground.

f. Engages swing lock control.

g. Engages swing brake selector control.

3. Direct operator driving a Rough Terrain Container Crane with a load (pick and carry) by ensuring operator:

a. Approaches the side of the container in the pick and carry mode, with spreader bar attached with boom locked in over the front.

b. Stops crane 1 to 3 feet from container.

c. Lowers spreader bar onto container and ensures twist locks have been engaged.

d. Checks weight of container; adds to spreader bar and slings.

e. Checks on rubber capacity load chart, pick and carry mode to ensure load does not surpass rated capacity.

f. Confirms tag lines are attached and tag line handlers are in position.

g. Confirms signalman is in a visible position.

h. Lifts container 18 to 36 inches off the ground.

i. Moves crane to off load area at creeper speed not to exceed 2.5 miles per hour.

j. Lowers container to the ground.

Note: If container must be swung over the side, notify operators to check on rubber load chart (stationary capacity 360 degree arc). It may be necessary to place crane on outriggers.

4. Direct Rough Terrain Container Crane operator shutdown procedures by ensuring operator:

a. Anchors the hook and hook blocks to the securing eye in front of the crane.

b. Removes slack from the hoist line.

c. Confirms the swing lock control lever is in locked position (handle pushed down).

d. Confirms the swing brake is engaged (pushed).

e. Sets the parking brake.

f. Operates engine at fast idle speed for approximately five (5) minutes to avoid high internal heat rise and heat dissipation.

g. Shuts down the engine by switching the ignition toggle switch to the OFF position.

h. Closes and locks all doors on the crane.

i. Places chock under wheels.

j. Drains air tanks.

k. Drains the sump of the fuel-water separator.

(Asterisks indicates a leader performance step.)

Evaluation Guidance: Score the Soldier GO if all performance steps are passed (P). Score the Soldier NO-GO if any performance step is failed (F). If the Soldier fails any step, show what was done wrong and how to do it correctly.

Evaluation Preparation: Ensure that all materials required to perform the task are available. Tell the Soldier that he/she will be evaluated on supervising RT875 Rough Terrain Container Crane operations.

| PERFORMANCE MEASURES | GO | NO-GO | N/A |
|--|----|-------|-----|
| 1. Directed signalman using standard hand signals. | | | |
| 2. Directed operator lifting a container with a 40-ton Rough Terrain Container Crane. | | | |
| 3. Directed operator driving a Rough Terrain Container Crane with a load (pick and carry). | | | |
| 4. Directed Rough Terrain Container Crane operator shutdown procedures. | | | |

Supporting Reference(s):

| Step Number | Reference ID | Reference Name | Required | Primary |
|-------------|-------------------------|---|----------|---------|
| | GROVE MM 1-187-000004-1 | Grove 40-ton Operator Manual | Yes | No |
| | GROVE MM 7-157-000004-2 | Grove 40-ton Training Manual | Yes | No |
| | TM 5-3810-306-10 | OPERATORS MANUAL FOR CONTAINER CRANE, 40-TON, ROUGH TERRAIN, MODEL RT875CC (NSN 3810-01-205-2716) | Yes | No |

Environment: Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT.

AR 200-1 delineates TRADOC responsibilities to integrate environmental requirements across DOTMLPF and ensures all training procedures, training manuals, and training doctrine includes sound environmental practices and considerations. The Army's environmental vision is to be a national leader in environmental and natural resource stewardship for present and future generations as an integral part of all Army missions. Environmental protection is never completed. Continuously be alert to ways to protect our environment and reduce waste.

Leaders must ensure that their unit has an active and strong environmental program. They must understand the laws and know what actions to take. Leaders bring focus, direction, and commitment to environmental protection. They should ensure the following environmental programs are in place and are being maintained:

- Hazardous materials program.
- Hazardous waste program.
- Hazardous communications program.
- Pollution prevention and hazardous waste minimization recycling program.
- Spill prevention and response plan program.

Safety: In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination.

All Soldiers and leaders must maintain a proactive posture towards safety in day-to-day operations. The need for total

commitment to safety should be evident to commanders, senior Soldiers, and their subordinates. The importance of safety is intensified for personnel conducting Rough Terrain Container Crane (RTCC) operations. Safety awareness is most effective at three levels: command, leader, and individual. Observe all Warnings and Cautions and remain aware of the following:

- Hearing protection requirements.
- Danger of suspended loads.

All operations will be performed to protect and preserve Army personnel and property against accidental loss. Procedures will provide for public safety incidental to Army operations and activities and safe and healthful workplaces, procedures, and equipment. Observe all safety and/or environment precautions regarding electricity, cable, and lines. Provide ventilation for exhaust fumes during equipment operation and use hearing protection when required IAW AR 385-10, the Clean Air Act (CAA) and the CAA amendments, and the OSHA Hazard Communication standard.

Accidents are an unacceptable impediment to Army missions, readiness, morale, and resources. Decision makers at every level will employ risk management approaches to effectively preclude unacceptable risk to the safety of personnel and property affiliated with this task.

- (a) Take personal responsibility.
- (b) Practice safe operations.
- (c) Recognize unsafe acts and conditions.
- (d) Take action to prevent accidents.
- (e) Report unsafe acts and conditions.
- (f) Work as a team.

Prerequisite Individual Tasks : None

Supporting Individual Tasks :

| Task Number | Title | Proponent | Status |
|--------------|---|-----------------------------------|--------------------|
| 551-88H-1425 | Perform Emergency Load Lowering Procedures on the RT875 Rough Terrain Container Crane | 551 - Transportation (Individual) | Analysis Completed |
| 551-88H-1401 | Perform Preventive Maintenance Checks and Services on Material Handling Equipment | 551 - Transportation (Individual) | Analysis Completed |
| 551-88H-1424 | Perform Emergency Boom Operating Procedures on the RT 875 Rough Terrain Container Crane | 551 - Transportation (Individual) | Analysis Completed |
| 551-88H-1527 | Communicate with Hand and Arm Signals During MHE Operations | 551 - Transportation (Individual) | Analysis Completed |
| 551-88H-1606 | Operate RT 875 Rough Terrain Container Crane Without a Load | 551 - Transportation (Individual) | Analysis Completed |
| 551-88H-1602 | Prepare RT 875 Rough Terrain Container Crane for Operations | 551 - Transportation (Individual) | Analysis Completed |

Supported Individual Tasks :

| Task Number | Title | Proponent | Status |
|--------------|--|-----------------------------------|----------|
| 551-88H-3510 | Supervise Material Handling Equipment (MHE) Operations | 551 - Transportation (Individual) | Approved |

Supported Collective Tasks :

| Task Number | Title | Proponent | Status |
|-------------|------------------------------|----------------------------------|----------|
| 55-5-0029 | Conduct Container Operations | 55 - Transportation (Collective) | Approved |

ICTL Data :

| ICTL Title | Personnel Type | MOS Data |
|--------------------------------|----------------|---|
| MOS 88H - CARGO SPECIALIST SL2 | Enlisted | MOS: 88H, Skill Level: SL2, Duty Pos: ABW |