

Report Date: 25 Apr 2014

Summary Report for Individual Task

441-096-1185

Perform Preventive Maintenance Checks and Services (PMCS) on a Utility Shelter Transport (UST) with a 35kw

Generator Set

Status: Approved

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

DESTRUCTION NOTICE: None

Condition: You are in a field environment. The system is emplaced and your supervisor directs you to perform before-, during-, or after-operation PMCS on the KW-35 generator set. Some iterations of this task should be performed in MOPP 4.

Standard: Perform the before-, during-, or after-operation PMCS on the KW-35 generator, per DA PAM 750-8, without causing injury to self or other personnel, with no damage to equipment, with minimal damage to the environment, and within the time prescribed by local command directives.

Special Condition: None

Safety Level: Low

MOPP: Sometimes

Task Statements

Cue: You are directed to Perform Preventive Maintenance Checks and Services (PMCS) on a Utility Shelter Transport (UST) with a 35kw Generator Set.

DANGER
None

WARNING
None

CAUTION
None

Remarks: None

Notes: All required Air Defense specific references and technical manuals will be provided by the local Air Defense Command.

Performance Steps

1. Perform before operation PMCS.
 - a. Visually inspect the generator set for leaks.
 - b. Check for proper ground connections.
 - c. Inspect batteries for serviceability.
 - d. Check coolant level.
 - e. Check engine oil level.
 - f. Check all panels for proper sealing.
 - g. Check surge brake operation.
 - h. Check air cleaner.
 - i. Inspect the trailer.
 - (1) Check for loose bolts, nuts, or screws.
 - (2) Inspect for gaps in welds.
 - (3) Inspect for wiring harness insulation.
 - (4) Inspect tires.
 - (5) Inspect drawbar coupler.
 - (6) Inspect intervehicular cable.
 - (7) Inspect safety chains.
 - (8) Check tailgate assembly for damage.
 - (9) Check front support leg.
 - (10) Check front rack assembly.
 - (11) Inspect for unserviceable bow assemblies.
 - (12) Inspect side rack assembly.
 - (13) Inspect canvas cover assembly.
 - (14) Operate towing vehicle light switch through all settings.
 - (15) Listen for any unusual noise while towing trailer.

(16) Inspect brake system.

j. Check taillights for proper operation.

2. Perform during operation PMCS.

a. Monitor cooling system.

b. Monitor engine oil level.

c. Monitor panels for proper sealing.

d. Ensure control panel indications are within specified limits:

(1) Ensure frequency meter is at 60 Hz.

(2) Ensure kilowatt meter does not exceed 100 percent.

(3) Ensure AC ammeter does not exceed 100 percent.

(4) Ensure AC voltmeter is indicating 208 volts.

(5) Ensure battery charging ammeter indicates 0 to +20 amps, depending on the battery charging rate (should indicate in green portion of scale during normal operation.)

(6) Ensure fault indicator panel lights are off.

(7) Ensure engine oil pressure gage indication is between 20 to 55 psi.

(8) Ensure coolant temperature gauge indication is between 170 to 200 degrees.

(9) Ensure fuel level gauge indicates quantity of fuel in main tank.

3. Perform after operation PMCS.

a. Fill fuel tank at completion of operation.

b. Check proper parking brake operation.

c. Check fuel filter.

4. Perform the following steps after 250 Hours of operation.

a. Service fire extinguisher.

b. Service battery.

c. Change engine oil and filter.

d. Check belt tension.

5. Troubleshoot the Utility Shelter Transport (UST) with Generator Set.

a. Perform the following steps if engine is hard to start or will not start.

- (1) Review starting procedure.
- (2) Verify fuel is in tank.
- (3) Ensure viscosity of oil is correct.
- (4) Ensure proper type of fuel is being used.

b. Perform the following steps if engine knocks.

- (1) Check engine oil level.
- (2) Check thermostat.
- (3) Perform step 9.

c. Perform the following steps if engine runs irregularly or stalls frequently.

- (1) Check thermostat.
- (2) Replace fuel filter.

d. Perform the following steps if there is a lack of power.

- (1) Verify engine is not overloaded.
- (2) Clean air cleaner.
- (3) Replace fuel filter.
- (4) Check for proper fuel.
- (5) Check thermostat.

e. Perform the following steps if there is low oil pressure.

- (1) Check oil level.
- (2) Check viscosity of oil.

f. Perform the following steps if there is high oil consumption.

- (1) Check oil viscosity.
- (2) Check for oil leaks.

g. Perform the following steps if engine emits white smoke.

(1) Check for proper fuel.

(2) Ensure engine is at normal operating temperature.

h. Perform the following steps if engine emits black smoke.

(1) Check for proper fuel.

(2) Clean air cleaner.

(3) Reduce load.

i. Perform the following steps if engine overheats.

(1) Reduce engine load.

(2) Check cooling system.

(3) Check belt tension.

(4) Flush cooling system.

(5) Check thermostat.

(6) Check grade of fuel.

j. Perform the following steps if there is high fuel consumption.

(1) Use proper fuel.

(2) Clean air cleaner.

(3) Reduce load.

k. Check thermostat if below normal engine temperature is shown.

(Asterisks indicates a leader performance step.)

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

Evaluation Preparation: Setup: Ensure that all information, references, and equipment required to perform the task are available. Use the performance measures and the references to score the Soldier's performance. Brief the Soldier. Tell the Soldier what he is required to do IAW the task conditions and standards.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Performed before operation PMCS.			
2. Performed during operation PMCS.			
3. Performed after operation PMCS.			
4. Performed the required steps after 250 Hours of operation.			
5. Troubleshooted the Utility Shelter Transport (UST) with Generator Set.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	AR 200-1	ENVIRONMENTAL PROTECTION AND ENHANCEMENT	No	No
	DA FORM 2404	EQUIPMENT INSPECTION AND MAINTENANCE WORKSHEET	Yes	No
	DA FORM 5988-E	Equipment Inspection Maintenance Worksheet	Yes	No
	DSH MANUAL 95115-00	Operations and Maintenance Manual for the UST HP2-C Trailer System.	No	No
	PAM 750-8	The Army Maintenance Management System (TAMMS) Users Manual.	No	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. 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.

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. Everyone is responsible for safety. A thorough risk assessment must be completed prior to every mission or operation.

Prerequisite Individual Tasks : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None

ICTL Data :

ICTL Title	Personnel Type	MOS Data
MOS 14G - Air Defense (AD) Battle Management System Operator - SL1	Enlisted	MOS: 14G, Skill Level: SL1, Duty Pos: DQG