
FORT CAMPBELL ENVIRONMENTAL HANDBOOK
Guidance and Instructions
FUEL TANK AND TANKER PURGING
APPENDIX A

SUBJECT: Proper Procedures for Purging Petroleum Vehicles
(Checklist should be followed)

EQUIPMENT NEEDED: by the unit for proper tank purging and cleaning.

1. Drip pans (55-Gallon drums cut length wise.)
2. Oclan Sorb/absorbent material, and spill pads.
3. Good 55-Gallon drums.
4. Mop with handle. (Use clean mop heads only).
- 5.. Access to ample water supply.
6. Vehicle to be purged with all hoses, reducers, nozzles and essential equipment for operation of the vehicle.

STEP 1. VEHICLE PREPARATION:

1. Notify Environmental Quality Officer of purging need. (Bldg 2182 Phone 9633/9601)Contact PWBC Environmental Division if purging requests are needed.(Request may be copied from EQO Environmental Handbook)
2. Chock the wheels of the vehicle.
3. Remove all sources of ignition (lighters, matches etc.)
4. Remove all loose items from pockets (pencils, pens, keys etc.).
5. Ground petroleum tank vehicle.
6. Drain all petroleum product from fuel compartments into approved containers.
7. Drain all petroleum product from filter separator into approved containers for reuse or recycle.
8. Remove filter elements (*)and go/no go fuses from separator.
9. Drain all petroleum product from retail hoses.
10. Drain all petroleum product from manifold and compartment piping.
11. Drain all petroleum product from filter separator's water sump.

* NOTE: When draining filter separator utilize a drip pan. Do not have a soldier hold a hose under vehicle and try to catch the fuel. This is unsafe and should never be done.

* NOTE: Dispose of filter elements In accordance with Environmental Officers hand book.

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STEP 2. FILLING VEHICLE WITH WATER:

1. Close all valves on petroleum vehicle.
2. Replace gasket/o-ring on filter separator.
3. Tighten down filter separator cover.
4. *Fill fuel compartments with water using the table below.
5. Check filter separator and all hose connections for leaks.

*"NOTE" If utilizing a water hose do not stick nozzle or end of hose into the water as the tank is filling up. This could cause possible contamination of the water source.

	<u>1st PURGE</u>	<u>2nd RINSE</u>	<u>3rd RINSE</u>
HEMTT	2,000 gal.	1,500 gal.	1,000 gal.
5,000 gal tanker	4,000 gal.	3,000 gal.	2,000 gal.
600 gal. pod	500 gal.	400 gal.	250 gal.

STEP 3. RINSING OF PETROLEUM VEHICLE COMPARTMENTS WITH WATER:

1. Ensure all compartment manhole covers are closed and secured.
2. Verify all valves and hose connections are closed and secured.
3. Unground vehicle.
4. Unchock the vehicle wheels.
5. Drive or have prime mover pull fuel tanker around for approximately five to ten miles, this will enable water to rinse the entire inside of the fuel compartments.

STEP 4. DRAINING WATER FROM FUEL TANKER (Conducted by PWBC-Environmental Bldg 2182 Phone 9633/9601)

1. Obtain EQO, Unit Commander or Directorate signature on purging request.
2. Bring vehicle to be purged to the PWBC Environmental office, along with purging request.
3. PWBC Environmental personnel will check vehicle to be purged and ensure steps 1-3 have been followed by reviewing the petroleum vehicle purging checklist on the back of the Purging Request Form.
4. PWBC personnel will accompany unit to the proper purging facility.
5. Position petroleum vehicle at authorized purging facility.
6. Chock vehicle wheels.

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7. Ground petroleum vehicle.
 8. Open all fuel compartment manhole covers.
 9. Connect all hoses.
 10. Place drip pans under separator and all hose connections.
 11. Open all fuel compartment valves.
 12. If petroleum tank vehicle is equipped with an onboard recirculation system or an onboard pump, run the water and fuel mixture back through the manifold, filter separator, all hose connections and reel hoses. Recirculate between 2,000 and 2,500 gallons of water. On all HEMTT's be sure to use the retail hose reel with D-1 nozzle attached.
 13. Drain all water from petroleum tank vehicle compartments, hoses, separator, and manifold system, into the purging facility.
- NOTE: (Ensure that drip pans are utilized during all phases of operation and all spills are cleaned up immediately).
14. Using an Explosive meter, take a vapor reading from each fuel compartment, hose connection, and filter separator. A vapor reading of 0 percent should be obtained. (Note: If the vapor reading is more than 0 percent, Step 5 should be used.)
 15. Mop out any remaining water residue from fuel compartments.

STEP 5. Additional Rinses:

If the vapor reading in step 14 is more than 0 percent, Step 2 through 4 should be repeated. After all water has been drained from the fuel compartments, hoses, filter separator, and manifold system, use step 2 for the rinse water quantities requirements for additional rinses.

Note: if any of the recipients of this handout have questions, suggestions, deletions or additions to these steps as written, please contact Mr. Gary Sewell, PWBC Environmental Division, telephone 9588/9586.