



DEPARTMENT OF THE ARMY  
UNITED STATES ARMY MATERIEL COMMAND  
US ARMY PETROLEUM CENTER  
8725 JOHN J. KINGMAN RD. STOP 6241  
FORT BELVOIR, VA 22060-6241

REPLY TO  
ATTENTION OF

AMXPC-O

12 Dec 11

MEMORANDUM FOR SEE DISTRIBUTION

SUBJECT: Fuels Technical Letter (FTL) 11-02, Filter Effectiveness Program – Millipore Use

1. PURPOSE: Effective immediately, all units with MTOE authorized Millipore sampling equipment, shall comply with monthly filter effectiveness (FE) testing by using the Millipore Test Kit vice submitting one-gallon samples to the supporting fuels lab. One-gallon samples are authorized on an exception basis only if millipore equipment is not an authorized MTOE item and/or the millipore sampling device is inoperable and in the process of being repaired/replaced. However, installations/units that do not have MTOE authorization for Millipore equipment are encouraged to obtain the test kit through normal supply channels – NSN 6665-00-496-9623. Deviations from these procedures shall be coordinated through the U.S. Army Petroleum Center (USAPC) help desk email address. All questions, concerns, or deviations related to this document shall be forwarded to USAPC at DSN 427-0661/0659 or [APC.HELPDESK@mail.mil](mailto:APC.HELPDESK@mail.mil) (use [APC.HELPDESK@conus.army.mil](mailto:APC.HELPDESK@conus.army.mil) for undeliverable to mail.mil address).

2. APPLICATION: This FTL is approved by USAPC, in coordination with HQDA G-4 and meets current requirements outlined in DA PAM 710-2-1. This update will remain in effect until amended, rescinded, or superseded. The guidelines in this FTL will be implemented upon receipt.

3. REFERENCES.

a. Publications:

- (1) AR 710-2, Supply Policy Below the National Level, 28 Mar 08
- (2) DA PAM 710-2-1, Using Unit Supply System: Manuel Procedures, 30 Sep 98
- (3) FM 10-67-1, Concepts and Equipment of Petroleum Operations, 2 Apr 98
- (4) TM 10-6630-223-13&P, Technical Manual for Test Kit, Petroleum, 16 Feb 10

b. Army Messages:

- (1) Fuels Technical Letter (FTL) 11-01, Standard Practice for Establishing Fuel Infrastructure and Support for Aviation Gasoline (AVGAS) Weapon Systems, 1 Mar 11
- (2) Technical Advisory Message 07-002, Filter Separator Coalescing/Filter Element Service Life has Been Extended to Three Years, 6 Dec 06

c. Forms:

(1) DD Form 2927, Petroleum Sample Tag

4. BACKGROUND: Published policy establishes the requirement to check performance of all in service filter separators every 30 days through the submission of samples to a certified laboratory for FE testing (for info on certified lab locations contact USAPC at the e-mail address identified in paragraph 1 of this FTL). FE is a key element of the Army bulk fuel quality surveillance program to ensure clean fuel is dispensed into end use aircraft, vehicles and other equipment.

5. FUNCTION AND RESPONSIBILITY:

a. USAPC is responsible for establishing quality surveillance requirements for bulk petroleum products under Army operational control. USAPC provides guidance for fuel quality issues and provides technical guidance on equipment, infrastructure, and quality control to assist units in managing fuels operations. The USAPC Quality Team provides units with support involving bulk petroleum contamination and specification requirements.

b. Army Installations and units receiving and storing petroleum products, will develop a quality control plan that meets the minimum FE requirements outlined below.

6. MONTHLY FILTER EFFECTIVENESS REQUIREMENTS AND PROCEDURES:

a. Reference a(2) provides FE sampling procedures including the preferred sample method using the Millipore sampling device. This is the most efficient and cost effective way to perform the FE which involves passing one gallon of fuel through a matched weight monitor downstream of the filter separator under flow conditions.

b. Reference a(4) provides instruction on use of the quick connect adapter device to obtain a millipore sample to meet FE monthly requirements.

c. One-gallon samples are far more expensive to package and ship than monitors. They are also more labor intensive and costly to test in the laboratory and result in a significant volume of hazardous waste stream at the laboratory. Overall costs of one-gallon samples can exceed 100%-400% of comparative costs of millipore submissions to the lab:

(1) A single millipore monitor costs approximately \$7.35 while a one-gallon sample can cost \$31.00 - \$38.00.

(2) Shipping a single monitor through standard commercial; e.g., Federal Express (FEDEX), ground transport (in-transit time 3 to 5 days) costs \$8.50 - \$10.50; a one-gallon can costs \$15.00 - \$45.00.

(3) Shipping a monitor through commercial overnight/next day/2nd day air runs \$20.00 - \$55.00, a one-gallon can costs \$50.00 - \$110.00.

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(4) Shipping a monitor in a United States Postal Service (USPS) bubble-lite envelop or priority mail box costs \$1.50 – \$4.95. One-gallon cans cannot be shipped through USPS.

(5) Multiple millipore monitors can be shipped in the same packaging further reducing the overall cost per sample.

(6) Unit level attention to managing sample submission cycles also allows for cost savings by reducing the need for next day or air shipment to a supporting laboratory to meet the 30 day testing requirement.

d. Activities that use the Army Petroleum Lab (APL), New Cumberland, must contact Ms. Elaine Paulus, [elaine.paulus@us.army.mil](mailto:elaine.paulus@us.army.mil), 717-770-6886, DSN 771-6886 to set up an account prior to submission of samples. This applies only to those activities that do not have a current activity code assigned by the APL.

e. USAPC is tasked to establish and monitor Army quality surveillance requirements. The USAPC will monitor compliance to this FTL via oversight of Army base level and tactical laboratory operations.

AUTHORITY LINE:

Encl



PHILLIP VONHOLTZ  
COL, LG  
Commanding

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Appendix A

Sample Tag Example



Product and Type JP8		Date Received
Installation Ft. Lee		Sample Number 11-095
Product and Type JP8, Turbin Fuel, Aviation <input checked="" type="checkbox"/>		Lab Number
Specification Number MIL-T-83133	NSN 9130-01-031-5816	
Product Contract Number	Batch/Lot/Emission Number	
Manufacturer/Supplier DLA Energy		
Quantity Represented 2300	Sample Source A-103	FIR/Delivery/DOM Date
Local Sample Number 11-210	Sampled By John Doe	
Date Sampled 12/07/2011	Time Sampled 1300	
Organization, Address, Telephone, Fax Number and Email of Submitter/POC  PWD MIF Ft. Lee, VA 804-734-1234 804-734-4321 John.doe@us.army.mil		
Test Series <input checked="" type="checkbox"/> A Test <input type="checkbox"/> E-2 Test <input type="checkbox"/> B 1 Test <input type="checkbox"/> C Test <input type="checkbox"/> Special (see back)		
Sample Priority <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Urgent <input type="checkbox"/> Special		
Sample Information <input checked="" type="checkbox"/> Filter Effectiveness <input type="checkbox"/> Procurement <input type="checkbox"/> Packaged <input type="checkbox"/> In-Plane <input type="checkbox"/> Corrosion Samples (see back) <input type="checkbox"/> Storage Surveillance <input type="checkbox"/> Special/Additional Information on back		
Sample Type <input type="checkbox"/> Upper <input type="checkbox"/> Middle <input type="checkbox"/> Lower <input type="checkbox"/> Bottom <input type="checkbox"/> Composite <input type="checkbox"/> All Level <input type="checkbox"/> In-Line <input type="checkbox"/> Other (specify)		
DD FORM 2037 (JUL 2007) S/N 41021F 1187460		

Appendix A

**Sample Tag Example**



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**Correlation Information**  
**Submitting Activity Results and Method:**

Particulates \_\_\_\_\_ by \_\_\_\_\_  
FSH \_\_\_\_\_ by \_\_\_\_\_  
Flash Point \_\_\_\_\_ by \_\_\_\_\_  
Time Filtration \_\_\_\_\_ by \_\_\_\_\_

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**For Area or Regional Laboratory Use Only**