



DEPARTMENT OF THE ARMY  
US ARMY TACOM LIFE CYCLE MANAGEMENT COMMAND  
6501 EAST 11 MILE ROAD  
WARREN, MICHIGAN 48397-5000

REPLY TO  
ATTENTION OF:

October 29, 2015

U.S. Nuclear Regulatory Commission Region III  
Materials Licensing Branch  
2443 Warrenville Rd., Suite 210  
Lisle, IL 60532-4352

SUBJECT: Loss of Density Moisture Tester (DMT) (NSN 6635-01-604-1875) under NRC License 21-32838-02 (Event Number 51434)

Dear Administrator,

The US Army TACOM LCMC initiated a phone call on September 30, 2015 to report a loss of a DMT under NRC License 21-32838-02, which resulted in event number 51434. The report being made in accordance with 10 CFR 20.2201(a).

This letter with attachment is the required 30 day report from the initiated report.

The POC for further information or correspondence is Mrs. Karen Lapajenko McGuire, TACOM LCMC Radiation Safety Program Manager/NRC License RSO, commercial 586-282-7635, e-mail: [Karen.l.mcguire4.civ@mail.mil](mailto:Karen.l.mcguire4.civ@mail.mil).

*For Karen McGuire*

PATRICK J. KELLEY  
Director, TACOM LCMC  
Materiel Systems Organization  
Safety Engineering Office

## Event Report 51434 Details

As indicated in the initial report, a Density Moisture Tester (DMT) with the serial number of 68419 was shipped on September 25, 2015 from the Detroit Arsenal located in Warren, MI via FEDEX, for delivery on September 28, 2015 to a military engineer unit in Methuen, MA. The DMT was shipped at the same time as another DMT to the same location. The other DMT arrived on September 29, 2015. On September 30, 2015, we became aware of the missing DMT and of the other DMT arriving on September 29, 2015. This awareness resulted from contacting the unit that was suppose to receive the DMTs.

The Shipping department and the Chief of Transportation Division at the Detroit Arsenal located in Warren, MI, contacted FEDEX upon being notified of the DMT not arriving. The FEDEX tracking system indicated that the DMT was in transit. Upon contacting FEDEX, we were informed verbally that FEDEX could not account for the DMT and was investigating. We then called the NRC Operations Center to report the missing DMT.

To assist in finding the DMT, FEDEX was provided the tracking or waybill number, a picture of the item with identifying information to include the serial number, and the location it was to be sent too. The Transportation Division then cited FEDEX for the missed delivery date and issued a letter of warning (see attachment 1). FEDEX responded with attachment 2. We were again verbally told that they were investigating.

On October 1, 2015, the military engineer unit indicated that the DMT arrived undamaged and with the required documentation. We then called on October 1, 2015 the NRC Operations Center, to inform the center of the found DMT.

On October 15, 2015, FEDEX confirmed the receipt of the letter of warning and indicated that they believe the FEDEX tracking label came off while the package was in transit, which resulted in the delay.

The DMT contains 8 mCi of Cesium 137 and 40 mCi of Americium 241. The DMT is licensed under NRC License 21-32838-02, which is held by TACOM LCMC. TACOM LCMC is located at the Detroit Arsenal in Warren, MI. The license cover's Army Engineer units

organizations for their possession, storage and maintenance of the MDT.

**Department of the Army  
U.S. Army Sustainment Command - Detroit Arsenal  
6501 East 11 Mile Road  
Warren, Michigan 48397-5000**

ITO - Detroit Arsenal

October 01, 2015

Kirstin Knott  
Federal Express Corporation  
900 7th St NW Ste 550  
Washington, DC 20001

Dear Kirstin Knott,

This Letter of Warning is to advise you of the service failure(s) described below and express our dissatisfaction with the service your company has provided this installation. You are reminded that we may place TSPs in non-use status from transporting Department of Defense (DOD) cargo from this installation for the following service failures:

| <b>Incident ID</b> | <b>Incident Date</b> | <b>Reference ID</b> | <b>Incident Type Description</b> |
|--------------------|----------------------|---------------------|----------------------------------|
| 1801372            | October 01, 2015     | 805020434461        | TSP failed to meet DDD/RDD       |

Federal Express Corporation, FDE is requested to provide a written explanation for the service failure(s) described above and correction actions you have taken to prevent a recurrence of similar problems within 15 days of the date of this letter. Additional service failure(s) or failure to satisfactorily respond to this letter when combined with the incident(s) described above may result in non-use action against your company.

Please contact Ralph Dunton (586) 282-6944 if you should have any questions regarding this action.

Sincerely,

Patrick Adomako-Twum  
Chief, Transportation Division  
Installation Transportation Officer (ITO)  
Logistics Readiness Center (LRC)  
ASC - Detroit Arsenal  
ASCE-LDR-T  
CM: 586-282-5123/ DSN: 786  
BB: 586-216-9226  
Email: patrick.adomakotwum@us.army.mil

cc: AMSSD-SBD-QA

Attach 1



**VIA UNITED STATES POSTAL SERVICE**

October 7, 2015

Mr. Patrick Adomako-Twum  
US Army Sustainment  
Department of the Army  
6501 E. 11<sup>th</sup> Mile, MS 401  
Warren, MI 48397-0001

Dear Mr. Adomako-Twum

The problem encountered with your shipment to Methuen, MA, which traveled under package tracking number 805020434461, has been brought to my attention.

Please allow me to extend our apologies to you, your recipient and all concerned parties for any inconvenience caused by this incident, as we are certainly aware that our customers expect only the best possible service. We are concerned that we are unable to provide proof of delivery or verify the status of this package.

Our records reflect that this package was tendered to FedEx on September 25 with the expectation of delivery by 10:30 A.M. on September 28. These records note that this arrived at our central sorting facility in Memphis on the evening of September 25 and was at our dangerous goods office there on September 28; however, we are unable to verify its status past that point.

Searches were conducted at the facilities involved, including our Package Research Area; regrettably, these efforts have proven unsuccessful. I am hopeful that this letter will prevent any negative reflection upon your on-time efforts.

We value the trust our customers place in us to handle their express shipping needs. I hope that you have found our efforts in the past to be satisfactory in every other respect.

Respectfully,

  
Steve Stephens  
Customer Correspondent  
Executive Services Group

ss/620727

Attach 2

## Kulzer, Edward

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**From:** McGuire, Karen L CIV USARMY TACOM (US) <karen.l.mcguire4.civ@mail.mil>  
**Sent:** Thursday, October 29, 2015 4:44 PM  
**To:** Kulzer, Edward  
**Subject:** [External\_Sender] TACOM LCMC 30 Day Report on Missing DMT  
**Attachments:** TACOM LCMC 30 Day Report to the NRC on Missing DMT.pdf  
**Signed By:** karen.l.mcguire4.civ@mail.mil

**Importance:** High

Hi Ed,

Please see the attached report. Let me know if anything else is needed.

Thanks,  
Karen

Karen Lapajenko McGuire  
TACOM LCMC Radiation Safety Program Manager  
DSN 786-7635/Comm. 586-282-7635  
Blackberry Comm. 586-306-3768  
Fax DSN 786-5277/Comm. 586-282-5277  
E-Mail: Karen.L.McGuire4.civ@mail.mil