



# Environmental Services

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August 12, 2008

Charles Miller, Director  
Office of Federal and State Materials  
and Environmental Management Programs  
U.S. Nuclear Regulatory Commission  
One White Flint North  
11545 Rockville Pike  
Rockville, MD 20852

Subject: Supplemental Report of Damaged Tritium Exit Sign

Dear Dr. Miller:

On July 1, 2008, consistent with 10 CFR § 31.5(c)(5), Wal-Mart Stores, Inc. ("Wal-Mart") provided the U.S. Nuclear Regulatory Commission ("NRC") with a supplemental report regarding one damaged tritium exit sign ("TES") that it discovered at store #1431, located in Keokuk, Iowa. In that report, Wal-Mart committed to provide a supplemental report regarding as-left contamination levels. That supplemental report is provided herein as Attachment A.

Information on the damaged TES is provided below:

<u>Serial #</u>	<u>Curies</u>	<u>Damage Date</u>	<u>Store Location</u>
unknown	20.0	12/2007 (est.)	300 North Park Dr., Keokuk, IA

Please contact me at (479) 204-9914, if you have any questions regarding this letter or the attached report.

Sincerely,

Richard Dailey

Radiation Safety Officer  
Wal-Mart Stores, Inc.

cc: Angela Washington, Wal-Mart Stores, Inc.  
Thomas Poindexter, Morgan Lewis & Bockius LLP

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"PUBLICALLY AVAILABLE"*

*08/18/2008*

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## Attachment A

### A. Actions Taken

As reported on July 1, 2008, Wal-Mart representatives and a Certified Health Physicist (“CHP”) from Dade Moeller & Associates (“Dade Moeller”) visited store #1431 in Keokuk, Iowa on June 26, 2008, to conduct radiological surveys, package the tritium exit sign (“TES”) for disposal, and decontaminate the area to ALARA levels, as necessary. Interviews with store managers and associates provided no additional information as to when or how the TES was damaged. The CHP removed and packaged the TES for transfer according to protocols established by Isolite, a specific licensee authorized to receive TES for disposal.

The CHP, after cleaning the mounting location, conducted swipe surveys of the areas around deemed likely to have become contaminated by wiping a 100 cm<sup>2</sup> area (approximately 4 X 4 inches) with a paper disk. The disks were then placed in 7 ml vials and shipped to Dade Moeller’s certified laboratory. The results appear in Table 1. The CHP also removed the plywood header at the TES mounting location as a precaution. The plywood was packaged in a lined, ORM-D box, sealed, marked as potential TES waste, and stored in the store claims area to await the results of surveys to determine whether it was contaminated.

**Table 1.** Removable Contamination Monitoring (100 cm<sup>2</sup> swipe samples).

Description, Location	Results (dpm/100 cm <sup>2</sup> )*
Field Blank	8
Above TES – plywood (prior to removal)	2300
Left of TES – plywood (prior to removal)	4020
Right of TES – plywood (prior to removal)	9750
Below TES – plywood (prior to removal)	547,000
Floor / hall area	121
Floor / stock aisle	7
Floor below TES	19
Floor below TES	36
Field Blank	7
Sample supply kit	-1
Exterior of box with TES	5
Exterior of ORMD box containing TES	7
Exterior of sample vials	0
Exterior of supply kit	-3
Field Blank	3

\*MDA=22 dpm

The only areas with significantly elevated activity were on the plywood header at the TES mounting location. Because of the elevated activity detected at that mounting location, a waste broker will be contacted to pick up and ship the box containing the removed plywood to a low-

level waste depository for disposal. After cleaning and plywood removal, all results are ALARA. The CHP concluded that no other follow-up action is needed.

B. Shipping Details

Wal-Mart transferred the damaged TES frame to a specific licensee authorized to receive the damaged TES on June 26, 2008. Wal-Mart sent a report of that transfer to the NRC on July 25, 2008.