



Environmental Services

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Dr. 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 Signs

Dear Dr. Miller:

On July 25, 2008, consistent with 10 CFR § 31.5(c)(5), Wal-Mart Stores, Inc. ("Wal-Mart") provided the U.S. Nuclear Regulatory Commission ("NRC") a report of two damaged tritium exit signs ("TES") that it discovered at store #1356, located in Martinsville, Indiana. In that report, Wal-Mart committed to provide a supplemental report regarding a visit by a Health Physicist from Dade Moeller & Associates to that store. 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>
312136	20.0	Prior to 02/2008 (est.)	410 Grand Valley Blvd., Martinsville, IN
unknown	unknown	Prior to 03/2008 (est.)	410 Grand Valley Blvd., Martinsville, IN

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.

FSME - CODE 10 - SPANSE REVIEW COMPLETE

"PUBLICALLY AVAILABLE"

09/04/2008

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

FSME10

Attachment A

A. Actions Taken

On July 24, 2008, a Health Physicist (“HP”) from Dade Moeller & Associates (“Dade Moeller”) visited Wal-Mart store #1356 in Martinsville, Indiana to conduct radiological surveys, package the tritium exit signs (“TES”) for disposal, and decontaminate the areas to ALARA levels, as necessary. As reported on July 29, 2008, the HP removed and packaged the TES for transfer according to protocols established by Isolite, a specific licensee authorized to receive TES for disposal. Interviews with the store managers and associates indicated that the TES with an unknown serial number was likely damaged over four months ago. No other information was provided regarding how either TES was damaged.

The HP, after removing the TES, cleaned the mounting locations and conducted swipe surveys of the areas deemed likely to have become contaminated by wiping a 100 cm² 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 and Table 2 for TES Serial #312136 and the TES with an unknown serial number, respectively.

Table 1. Removable contamination surveys for TES Serial #312136

Description, Location	Results (dpm/100 cm ²) ^a
Field Blank	-0.7
Left/TES Mounting Area before cleaning	4,300
Floor before cleaning	19
Top TES Area after cleaning	8
Right TES Area after cleaning	19
TES Mounting Area after cleaning	1600
Left/Behind TES Area after cleaning	34
Floor after cleaning	25
Floor after cleaning	30
Floor after cleaning	29

^a Net results; average background = 17.7 dpm H-3.

Table 2. Removable contamination surveys for TES with an unknown serial number

Swipe No.	Description, Location	Results (dpm/100 cm ²) ^a
51	Floor under missing TES	1
52	Area in Missing TES Location	4
Other Surveys		
53	TES Package	-6
54	Sample Package	3

^a Net results; average background = 17.7 dpm H-3.

The results show one area at the mounting location of TES Serial #312136 with significantly elevated levels of contamination. Accordingly, an HP will return to the store to decontaminate the area to ALARA levels. The most highly contaminated areas are not easily accessible to employees or members of the public (e.g., on an overhead header) and therefore, the area is

naturally restricted. Wal-Mart anticipates providing the NRC with an additional supplemental report within 30 days after the date of that return visit.

B. Shipping Details

Wal-Mart transferred the damaged TES to a specific licensee authorized to receive damaged TES on July 24, 2008. Wal-Mart sent the NRC a report of that transfer on August 22, 2008.