



Environmental Services

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November 18, 2008

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

Subject: Supplemental Report of Damaged Tritium Exit Signs

Dear Dr. Miller:

On October 6, 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 report regarding two damaged tritium exit signs ("TES") that it discovered at store #5319, located in MacArthur, West Virginia. 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, including information regarding a third damaged TES subsequently found at this location, TES Serial #314125, is provided below:

<u>Serial #</u>	<u>Curies</u>	<u>Date of Damage</u>	<u>Store Location</u>
314103	11.5	08/2008 (est.)	1881 Robert C. Byrd Dr., MacArthur, WV
314096	11.5	unknown	1881 Robert C. Byrd Dr., MacArthur, WV
314125	11.5	unknown	1881 Robert C. Byrd Dr., MacArthur, WV

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 - SUNSET REVIEW COMPLETE
PUBLICALLY AVAILABLE
2008/12/08

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

FSME10

Attachment A

A. Actions Taken

On October 6, 2008, a Health Physicist ("HP") from Dade Moeller & Associates ("Dade Moeller") visited store #5319 in MacArthur, West Virginia to conduct radiological surveys, package the tritium exit signs ("TES") for disposal, and decontaminate the areas to ALARA levels, as necessary. During the visit, the HP discovered a third damaged TES, TES Serial #314125, with only its backing remaining. This TES was installed in the tire and lube area of the store. The HP removed and packaged all three damaged TES for transfer according to protocols established by Isolite, a specific licensee authorized to receive TES for disposal.

Interviews with store managers and associates provided no information as to when or how TES Serial #314096 or TES Serial #314125 was damaged. The individuals interviewed indicated that TES Serial #314103 was damaged in mid-August, 2008, when an employee drilled into the TES mounting location in an attempt to install a surveillance camera in the hallway. That employee was offered a bioassay. The bioassay result was below minimal detectable activity ("MDA").

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.

Table 1. Removable Contamination Surveys

Description, Location	Results (dpm/100 cm ²)
TES Serial #314103 TES Mounting Location, Pre Cleaning	1100
Floor Directly Below TES Mounting Location, Pre Cleaning	120
Plywood Above TES Mounting Location, Post Cleaning	190
Plywood Left of TES Mounting Location, Post Cleaning	-8
Plywood Right of TES Mounting Location, Post Cleaning	-13
TES Mounting Location, Post Cleaning	6
Floor Left of TES Mounting Location, Post Cleaning	9
Floor Directly Below TES Mounting Location, Post Cleaning	-0.7
Floor Right of TES Mounting Location, Post Cleaning	-0.7
TES Serial #314096 TES Mounting Location, Pre Cleaning	-9
Floor Directly below TES Mounting Location, Pre Cleaning	3
Right of TES Mounting Location, Post Cleaning	-3
Left of TES Mounting Location, Post Cleaning	-2
TES Mounting Location, Post Cleaning	0.3
Floor Left	7
Panic Bar	-3
Floor Right	-3
TES Serial #314125 TES Mounting Location, Pre Cleaning	2
Floor Pre Cleaning	9
Right of TES Mounting Location, Post Cleaning	0.3
TES Mounting Location, Post Cleaning	-0.7
Left of TES Mounting Location, Post Cleaning	-6
Floor Left of TES Mounting Location, Post Cleaning	1
Floor Directly Below TES Mounting Location, Post Cleaning	-4
Floor Right of TES Mounting Location, Post Cleaning	18
Inner Shipping Box	5
Outer Shipping Box	6
Field Blank	22
Field blank	7

After cleaning, the results do not reveal any areas with significantly elevated levels of removable contamination. Because the area is safe for unrestricted use, the HP concluded that no additional action is necessary.

B. Shipping Details

Wal-Mart transferred the damaged TES to a specific licensee authorized to receive damaged TES on October 6, 2008. Wal-Mart sent the NRC a report of that transfer on November 3, 2008.