

RI - DNMS Licensee Event Report Disposition

Licensee: General Mills

Event Description: Agreement State Report – Gauges Inadvertently Sent to Scrap Metal Recycler

License No: Docket No: 9449001 MLER-RI: 2011-007

Event Date: 1/19/2011 Report Date: 1/19/2011 HQ Ops Event #:

1. REPORTING REQUIREMENT

<input type="checkbox"/> 10 CFR 20.1906 Package Contamination <input type="checkbox"/> 10 CFR 20.2201 Theft or Loss <input checked="" type="checkbox"/> 10 CFR 20.2203 30 Day Report <input checked="" type="checkbox"/> Other	<input type="checkbox"/> 10 CFR 30.50 Report <input type="checkbox"/> 10 CFR 35.3045 Medical Event <input type="checkbox"/> License Condition <div style="border: 1px solid black; height: 20px; width: 100%;"></div>
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2. REGION I RESPONSE

<input type="checkbox"/> Immediate Site Inspection <input checked="" type="checkbox"/> Special Inspection <input checked="" type="checkbox"/> Telephone Inquiry <input type="checkbox"/> Preliminary Notification/Report <input checked="" type="checkbox"/> Information Entered in RI Log <input type="checkbox"/> Report Referred To:	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 50%;">Inspector/Date</td><td style="width: 50%;"></td></tr> <tr><td>Inspector/Date</td><td><u>Reichard / by 04/30/11</u></td></tr> <tr><td>Inspector/Date</td><td><u>Reichard</u></td></tr> <tr><td>Daily Report</td><td></td></tr> <tr><td>Review at Next Inspection</td><td></td></tr> </table>	Inspector/Date		Inspector/Date	<u>Reichard / by 04/30/11</u>	Inspector/Date	<u>Reichard</u>	Daily Report		Review at Next Inspection	
Inspector/Date											
Inspector/Date	<u>Reichard / by 04/30/11</u>										
Inspector/Date	<u>Reichard</u>										
Daily Report											
Review at Next Inspection											

3. REPORT EVALUATION

<input checked="" type="checkbox"/> Description of Event <input checked="" type="checkbox"/> Levels of RAM Involved <input checked="" type="checkbox"/> Cause of Event	<input checked="" type="checkbox"/> Corrective Actions <input type="checkbox"/> Calculations Adequate <input type="checkbox"/> Additional Information Requested from Licensee
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4. MANAGEMENT DIRECTIVE 8.3 EVALUATION

<input type="checkbox"/> Release w/Exposure > Limits <input type="checkbox"/> Repeated Inadequate Control <input type="checkbox"/> Exposure 5x Limits <input type="checkbox"/> Potential Fatality If any of the above are involved: <input type="checkbox"/> Considered Need for IIT Decision/Made By/Date:	<input type="checkbox"/> Deliberate Misuse w/Exposure > Limits <input type="checkbox"/> Pkging Failure > 10 rads/hr or Contamination > 1000x Limits <input type="checkbox"/> Large# Indivs w/Exp > Limits or Medical Deterministic Effects <input type="checkbox"/> Unique Circumstances or Safeguards Concerns <input type="checkbox"/> Considered Need for AIT
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5. MANAGEMENT DIRECTIVE 8.10 EVALUATION (additional evaluation for medical events only)

<input type="checkbox"/> Timeliness - Inspection Meets Requirements (5 days for overdose / 10 days for underdose) <input type="checkbox"/> Medical Consultant Used-Name of Consultant/Date of Report: _____ <input type="checkbox"/> Medical Consultant Determined Event Directly Contributed to Fatality <input type="checkbox"/> Device Failure with Possible Adverse Generic Implications <input type="checkbox"/> HQ or Contractor Support Required to Evaluate Consequences
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6. SPECIAL INSTRUCTIONS OR COMMENTS

Coordinate w/ NJ any Maryland on inspection findings

Non-Public (un-redacted) A.S. Inspector Signature: Mild C. Reichard Date: 2/15/11
 Public-SUNSI REVIEW COMPLETE Branch Chief Initials: Mace Miller Date: 2/15/11

* * * UPDATE AT 1105 ON 1/21/11 FROM ROB SPADING TO PETE SNYDER * * *

Maintenance has been completed and the TSC is returned to service as of 1005 CST.

Notified R3DO (Bloomer).

TOP

Agreement State	Event Number: 46552
Rep Org: MARYLAND DEPT OF THE ENVIRONMENT Licensee: GENERAL MILLS CORPORATION Region: 1 City: MOONACHIE State: NJ County: License #: GL Agreement: Y Docket: NRC Notified By: ALLEN JACOBSEN HQ OPS Officer: HOWIE CROUCH	Notification Date: 01/19/2011 Notification Time: 10:29 [ET] Event Date: 01/19/2011 Event Time: [EST] Last Update Date: 01/19/2011
Emergency Class: NON EMERGENCY 10 CFR Section: AGREEMENT STATE	Person (Organization): TODD JACKSON (R1DO) GLENDA VILLAMAR (FSME)

Event Text

AGREEMENT STATE REPORT - INDUSTRIAL GAUGES INADVERTENTLY SENT TO SCRAP MATERIAL RECYCLER

General Mills Company in Moonachie, New Jersey notified Terrapin Recycling of Baltimore, Maryland that they inadvertently sent three industrial gauges to Terrapin in a load of scrap material. General Mills has contracted Clym Environmental Services, LLC of Frederick, MD to locate and recover the gauges.

The gauges are Peco Controls Corporation Industrial gauges and each of them contain 100 mCi of Am-241.

The State of Maryland has notified the State of New Jersey.

TOP

Power Reactor	Event Number: 46557
Facility: MCGUIRE Region: 2 State: NC Unit: [1] [2] [] RX Type: [1] W-4-LP,[2] W-4-LP NRC Notified By: TERESA PUTNAM HQ OPS Officer: JOHN SHOEMAKER	Notification Date: 01/20/2011 Notification Time: 12:46 [ET] Event Date: 01/20/2011 Event Time: 11:10 [EST] Last Update Date: 01/21/2011
Emergency Class: NON EMERGENCY 10 CFR Section: 50.72(b)(2)(i) - PLANT S/D REQD BY TS	Person (Organization): MARVIN SYKES (R2DO) JOHN THORP (NRR) WILLIAM GOTT (IRD)

Unit	SCRAM Code	RX CRIT	Initial PWR	Initial RX Mode	Current PWR	Current RX Mode
1	N	Y	100	Power Operation	90	Power Operation
2	N	Y	100	Power Operation	100	Power Operation

Event Text



GENERAL MILLS

11 February 2011

2011 FEB 14 AM 10:30
RECEIVED
REGION 1

NJDEP
Radiation Protection and Release Prevention Element
PO BOX 415
Trenton, NJ
08625-0415

Re: PECO Devices (Serial # G004858939, G005309018 and G030090450; Source # 0407AR, 8126LV and 8921LV)

To whom it may concern:

Enclosed is a written report from General Mills relating to three PECO devices, each containing 100 millicuries of Americium-241. During the period comprising September 15, 2010 through January 17, 2011, all three devices remained out of the possession of General Mills. On or about January 17, 2011, two such devices were recovered. One device remains outstanding. At this time, we are unaware of any exposure of radioactive material to individuals. However, with one source still unaccounted for, it is possible, although unlikely, that an exposure could occur.

On January 13, 2011, it became apparent that three PECO devices were unaccounted for at the General Mills plant located in Vineland, New Jersey. Each PECO device contains a source of Americium-241, which is enclosed in the shutter assembly of a GAMMA -101P PECO unit. The Americium-241 is in powder form and encased in ceramic balls. Both the Americium-241 and ceramic are sealed within a welded tungsten casing with shutter assembly, which is further enclosed inside of a stainless steel exterior case.

After it was discovered that the PECO devices were missing, an immediate investigation was launched. The information enclosed below describes the events that have taken place to date, our findings relating to the PECO devices and subsequent corrective measures.

January 13, 2011:

- General Mills became aware of the missing PECO devices.

January 14, 2011:

- Based on General Mills shipping documents, it was discovered that the units had been shipped to Applied Industrial Tech, located in New Castle, DE, on September 15, 2010.
- General Mills contacted Applied and was informed that the units were shipped to Radwell Industries, located in Lumberton, NJ. Applied could not provide a date for this transfer.
- General Mills contacted Radwell. Radwell indicated that it had informed Applied that Radwell was not properly licensed to perform work on the PECO devices. Therefore, Radwell returned the units to Applied on October 7, 2010.

January 15, 2011:

- During a site visit to Applied's facility, General Mills determined that the units were not on-site.
- An Applied representative informed General Mills that the units were placed in a location where metal items are typically picked up by individuals looking for scrap metal.
- At this time, Applied informed us that it was not aware of a specific recipient of the PECO devices.

- General Mills completed its search of its own plant and accounted for all other PECO devices in its control.

January 16, 2011:

- General Mills re-engaged Applied. An Applied representative indicated that the units were given to an individual [REDACTED] a resident of Hartley, Delaware.
- General Mills contacted [REDACTED] and a discussion revealed that the units were sold to Terrapin Recycling, located in Dover, DE. It was later understood that this transfer occurred on November 18, 2010.
- General Mills discovered that Terrapin Dover transferred the units, along with other scrap metal, from its Dover facility to its Baltimore facility. It was later understood that this transfer occurred on December 3, 2010.

January 17, 2011

- General Mills visited Terrapin Baltimore. General Mills and Terrapin Baltimore identified and isolated all scrap received from Terrapin Dover that was present on-site.
- General Mills inspected the Terrapin Baltimore facility both visually and with Terrapin's radiation detection units.
- General Mills isolated 3 metal bales that visibly contained material from PECO devices. Two such bales also demonstrated a radioactive signature.
- Terrapin Baltimore indicated the possibility that four bales may have been transferred to Industrial Services of America (ISA), located in Louisville, Kentucky.
- ISA was notified and isolated all metal potentially sourced from Terrapin Baltimore.

January 18, 2011

- General Mills engaged Clean Venture (and CLYM Environmental) of Baltimore to assist in inspection and break-down of the identified bales. It was determined that Clean Venture would notify Maryland DOE and New Jersey DEP.
- General Mills continued to narrow the number of bales that potentially contained PECO units at both Terrapin locations.

January 19, 2011

- Clean Venture informed General Mills it contacted Maryland DOE and NJDEP.
- Maryland DOE notified the NRC. Maryland DOE also notified NJDEP.
- A meeting between Maryland DOE, General Mills, and Clean Venture was conducted at the Terrapin Baltimore facility to determine next steps.
- Maryland DOE determined that a swab test must occur prior to stripping the identified bales. A swab test was initiated.
- General Mills travelled to ISA's facility to assist in the inspection of potentially contaminated bales.
- All General Mills employees at the Vineland plant were given basic information and training relating to the handling of PECO devices.

January 20, 2011

- ISA and General Mills began inspecting potentially implicated bales using both visual examination and radiation detection units.
- Swab tests results indicated that stripping of the bales at Terrapin Baltimore could proceed.
- Maryland DOE approved the work plan for the stripping of the bales at Terrapin Baltimore.

January 21, 2011

- MD DOE and NJDEP were provided with a chronological report of the incident as requested by MD DOE.
- The stripping of the bales began at Terrapin Baltimore.
- Two units were located among the bales and the search for the sole remaining PECO device continued at both Terrapin Baltimore and ISA.
- One source number was confirmed.
- The second unit source number has yet to be discerned pending approval from MD DOE to pull such metal bale apart.
- Both devices remain at Terrapin Baltimore awaiting clearance from MD DOE for shipment back to PECO for refurbishment.

January 22, 2011

- After concluding the search at Terrapin Baltimore, General Mills continued its search for the 3rd device at ISA.

January 24, 2011

- General Mills informed Kentucky DEP of the possibility that a PECO device could be present at ISA in Louisville.
- General Mills requested further guidance from NRC for next steps. NRC confirmed that General Mills was taking all reasonable and required measures.

January 26, 2011

- General Mills conducted further awareness training at the Vineland plant.
- General Mills' security representatives continued to interview individuals who were in the chain of custody of the PECO devices.

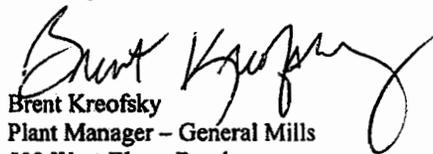
The following efforts represent measures that are intended to continue on an ongoing basis going forward:

- Monthly inspections of each PECO device to be conducted by plant maintenance.
- Quarterly inspections of each PECO device to be conducted by Plant Environmental Manager.
- Re-configured plant maintenance scheduling system to ensure that every work order relating to any PECO device prompts an automatic notice that the Plant Environmental Manager must be contacted before any PECO device may be removed from service.

- Each PECO unit will be labeled to prompt notification of the Plant Environmental Manager prior to the removal of any PECO unit.
- A lockable storage cabinet will be used for the storage of any unit not in operation.
- The Plant Environmental Manager will receive Radiation Safety Officer training on March 29th, 2011. After training is received, the Environmental Manager will finalize additional and appropriate radiation management plans for facility.
- The radiation management plan is intended to include training for all personnel who may be asked to work with PECO devices, as well as those who may be involved in the shipping, receiving, or purchasing of any radioactive unit. Annual basic awareness training will be provided for all employees and for all new hires.
- An evaluation of job positions will be performed to determine the pool of employees that require in-depth training in radiation safety.

As new information becomes available, supplemental reports will be provided. If there are any questions, please contact me at (856) 213-9141. In addition, a contact list of all relevant parties is enclosed for your convenience.

Sincerely,



Brent Kreofsky
Plant Manager – General Mills
500 West Elmer Road
Vineland, NJ
08360

CC:
MD DOE
NRC ✓

Contact List

Company/Agency	Name	Number
Nuclear Regulatory Comm	Mike Reichard	(610) 337-6945
NJ-DEP	Ed Truskowski	(609) 984-5542
NJ-DEP	Jenny Goodman	(609) 984-5400
MD-DOE	Alan Jacobson	(410) 537-3300
MD-DOE	Bob Nelson	(410) 537-3300
KY-Cabinet for Health Services	Matt McKinley	(502) 564-3700
Terrapin Recycling, MD	Greg Rochlin - President	
Terrapin Recycling, DE	Joel DeHaven -	
ISA	Terry Hancock - General Manager	
ISA	Ted Wells - Quality & Safety Dir.	
Radwell	Craig Scott	
Applied Industrial	Dave Metz - Sales	
Applied Industrial	Ted Burns - Area Manager	
Applied Industrial	Steward Blankenhorn - Reg. Mgr.	
Scrap person		
Clean Venture	Dave Roesler	
CLYM Environmental	Charles Watts	(888) 289-2324