

RI - DNMS Licensee Event Report Disposition

Licensee: Columbia St Joseph's Healthcare
 Event Description: _____
 License No: 4711709-01 Docket No: 03003394 MLER-RI: 2005-059
 Event Date: 8/5/05 Report Date: 8/5/05 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 type="checkbox"/> 10 CFR 20.2203 30 Day Report <input 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
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2. REGION I RESPONSE

<input type="checkbox"/> Immediate Site Inspection <input type="checkbox"/> Special Inspection <input type="checkbox"/> Telephone Inquiry <input checked="" 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%; height: 100%;"> <tr><td style="text-align: center;">Inspector/Date</td></tr> <tr><td style="text-align: center;">Inspector/Date</td></tr> <tr><td style="text-align: center;">Inspector/Date</td></tr> <tr><td style="text-align: center;">Daily Report</td></tr> <tr><td style="text-align: center;">Review at Next Inspection</td></tr> </table>	Inspector/Date	Inspector/Date	Inspector/Date	Daily Report	Review at Next Inspection
Inspector/Date						
Inspector/Date						
Inspector/Date						
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 <input type="checkbox"/> 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 Decision/Made By/Date: <u>NA</u>
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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: <u>NA</u> <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

Review of next inspection

Non-Public Inspector Signature: [Signature] Date: 9/26/05
 Public-SISP REVIEW COMPLETE Branch Chief Initials: [Signature] Date: 11/3/05



RECEIVED
REGION 1

RECEIVED
REGION 1

STATE OF WEST VIRGINIA
DEPARTMENT OF HEALTH AND HUMAN RESOURCES
BUREAU FOR PUBLIC HEALTH
OFFICE OF ENVIRONMENTAL HEALTH SERVICES

2005 AUG 12 AM 11:26

Joe Manchin III
Governor

August 8, 2005

Martha Yeager Walker
Secretary

Mr. Chuck Lynch
Northwestern Landfill
Waste Management, Inc.
Route 9, Box 376
Parkersburg, WV 26101

License No. 47-16709-01
Docket No. 030-03394

RE: Survey on 8/5/2005

Dear Mr. Lynch:

According to your telephone notification received on August 5, 2005, the Bureau for Public Health, Office of Environmental Health Services, Radiological Health Program (RHP) was requested to perform a radiation survey on August 5, 2005 of a potential source of radiation or contamination in item(s) which you have reported properly and in a timely fashion. A copy of the report is attached to identify technetium (^{99m}Tc) - a short half-life medical isotope in a roll-off container from St. Joseph's Hospital received at Northwest Landfill in Parkersburg, WV on August 5, 2005. The radioactive material in the contaminated plastic tubing is considered to be regulated by a license issued by the U.S. Nuclear Regulatory Commission. The contaminated item(s) were packaged for safe transport and returned to St. Joseph's Hospital for decay-in-storage. Thank you for your timely notification.

Your company is invoiced with the attached statement for completion of two (2) hours labor at the rate of \$100 per hour according the Fees for Services Rule, as amended. Please contact my office at the address below if you have any questions. Thank you.

Sincerely,

Dan Hill, Chief
Radiological Health Program

Enclosure

cc: J. Webster, WM Env. Compliance Mgr.
U.S. NRC Region I NMSS ✓

**Radiological Health Program
Office of Environmental Health Services
Bureau for Public Health
1 Davis Square, Suite 200
Charleston, WV 25301-1798**

**Phone 304.558.6772
Fax 304.558.0524**

RADIOACTIVE MATERIAL INCIDENT RESPONSE

August 8, 2005

RE: Inspection and survey report for Waste Management (WM) Northwest Landfill, Parkersburg, WV

DATE OF INCIDENT: August 5, 2005
TIME OF INCIDENT: Reported to Rad. Health Program (RHP) at 8:30 AM
LOCATION OF INCIDENT: Dry Run Road, Rt. 50 east of Parkersburg, WV
MEDICAL WASTE DISPOSITION: contaminated item in roll-off container from St. Joseph's Hospital
RESPONSE SURVEY DATE/TIME: August 5, 2005 11:00 AM
PERSON REPORTING INCIDENT: Dan Hill, WV Radiological Health Program (RHP)

NOTIFICATIONS and CHRONOLOGY:

At 8:30 AM on August 5, 2005 the WV Radiological Health Program received a phone call from Mr. Chuck Lynch (on-site supervisor at Northwest Landfill) concerning a roll-off container from St. Joseph's Hospital received prior to 8:00 AM on August 5th that caused an alarm of the radiation monitor at the entry scales. A portable micro-R radiation meter indicated a dose rate of approximately ~1000 micro-Rem per hour on the side of the roll-off container.

SURVEY RESULTS (max. exposure rates):

Contact with side of roll-off container	2.4 milli-Rem per hour
1 cm from plastic tubing and i.v. dextrose bag	8.0 milli-Rem per hour
Field Spectrometer Isotope identification (140-150 keV):	Technetium 99m

SURVEYOR: Dan Hill

SURVEY INSTRUMENTS:

- 1) Bicron MicroAnalyst
- 2) Exploranium GR130M
- 3) Ludlum 2241-3 (NaI)

FOLLOW-UP ACTIONS:

The contaminated items were photographed for reference. The items were returned to St. Josephs Hospital for identification and root cause investigation.

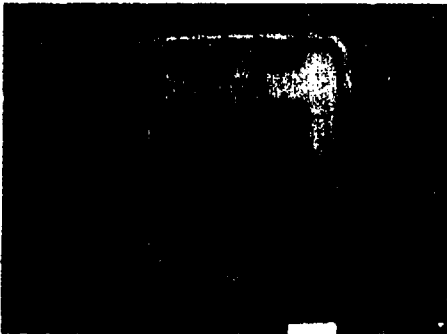
Enclosures: photos



8-05-2005



Roll-off container from St. Josephs Hospital



U.S. NUCLEAR REGULATORY COMMISSION		Date: 08/05/05
TELEPHONE CONVERSATION RECORD		Time: 14:45 & 15:15
Mail Control or Report No(s).	N/A	License No(s). 47-11709-01
		Docket No(s). 03003394
Name of Licensee:	Columbia St. Joseph's Healthcare System d/b/a St. Joseph's Hospital, 1824 Murdock Avenue, PO Box 327, Parkersburg, WV 26102-0327.	
Name of Participant(s):	1 st Phone Call: Dan Hill, Chief, Radiation Health Program, State of WV 2 nd Phone Call: Ann Anderson, Nuclear Medicine, Chief Technologist, St. Joseph's Hospital	
Telephone No.	Dan Hill: 304-558-6772; DANHILL@WVDHHR.ORG Ann Anderson: 304-424-4111	
Subject: (NOTE: This will be used as the Documents Title in ADAMS)	Telecon: St. Joseph's Hospital - Improper disposal of Tc-99m	

Summary:

Received a telephone notification from Dan Hill, Chief Radiation Health Program, West Virginia, that an NRC licensee had improperly disposed of Tc-99m in ordinary hospital waste. Mr. Hill reported that at about 8:15 on 8/5/05, he received a call from Waste Management, Dry Run Road & Route 50 E, Parkersburg, West Virginia, (304) 428-9332, and was notified that Waste Management discovered a dumpster, originating from St. Joseph's Hospital, alarmed their radiation monitors. Mr. Hill was dispatched to the waste facility, segregated the trash, and discovered IV tubing and a bag of dextrose. Mr. Hill used portable gamma spectroscopy equipment to determine that the material was Tc-99m. The outside of the tubing read approximately 8 mR/h. Mr. Hill transported the material to St. Joseph's hospital where it was received and placed into storage for decay.

I contacted Ann Anderson, Chief Technologist, St. Joseph Hospital and received the following information:

The material did originate from St. Joseph's Hospital. On 8/3/05 30 millicuries of Tc-99m was used in a stress test, located in an areas that is separate from the Nuclear Medicine Lab. Apparently, a new but trained NMT left the tubing in the stress lab where it was inadvertently discarded into non-radioactive hospital waste. Ms. Anderson estimated that less than 10 percent of the material could have been left in the tubing. Ms. Anderson stated that the individual would be trained/counseled, and that the issue would be brought evaluated by the Radiation Safety Committee.

The inspector noted that the quantity released was likely less than 3 millicuries which is less than 10 times the 10 CFR 20, Appendix C quantity of 1000 microcuries for Tc-99m. Accordingly, NRC was not required by 10 CFR 20.2201 to be notified. However, the release represents a Violation of 10 CFR 20.2001.

Action Required:

This telecon will be placed in ADAMS and a copy will be e-mailed to the NRC Region I State Agreements Officer (Robert Bores).

Document Availability:	<input type="checkbox"/> Publicly Available	<input checked="" type="checkbox"/> Non-Publicly Available	
<input type="checkbox"/> Non-Sensitive	<input type="checkbox"/> Non-Sensitive Copyright	<input checked="" type="checkbox"/> Sensitive	<input type="checkbox"/> Sensitive Copyright
<input type="checkbox"/> Immediate Release	<input type="checkbox"/> Normal Release	<input type="checkbox"/> Delay Release Date	
Prepared & SISP Review Completed By:	<i> / RA /</i> R. Ragland	Date:	8/5/05