

August 04, 2011

To: U.S. Nuclear Regulatory Commission, Region III
2443 Warrenville Road, Suite 210
Lisle, IL. 60532-4352
Attention: Nuclear Materials/Licensing

From: Christopher Moore, RSO
Nuclear Medicine Department
Liberty Hospital
2525 Glenn Hendren Drive
Liberty, MO. 64069-1002

Dear Sirs,

Enclosed is a written report of an event per 10 CFR 20.2201. This event was called in to the national hotline on August 01, 2011. If there is any additional information needed regarding this event or if there are any questions, feel free to call me at 816-415-7791.

Sincerely,

A handwritten signature in black ink that reads "Christopher Moore, RSO". The signature is written in a cursive style with a large initial "C" and a long horizontal stroke at the end.

Christopher Moore, RSO

RECEIVED AUG 09 2011

Notification of an event per 10 CFR 20.2201, report of theft or loss of licensed material.

License holder: Liberty Hospital. Liberty, MO. NRC License number 24-16178-01.

This event was called to the NRC Operations Center and assigned event number 47113.

Date of event: July 29, 2011.

Description:

A 91 year old inpatient was prescribed to have an Iodine 131 hyperthyroid treatment on July 28, 2011. The patient was administered a 28.3 mCi Iodine 131 capsule at 11:40 am on July 28, 2011. A Written Directive, Quality Management form and Consent form were all obtained. An explanation of the procedure and precautions were conveyed to the patient and the exam was completed.

Event occurrence:

During that same day, the patient became incontinent and adult diapers were given to the patient. These diapers were changed as needed for patient comfort and the used diapers were placed in the trash. The hospital waste was taken to the Sugar Creek landfill. A radioactive survey meter alarm was activated at the landfill. The contamination was discovered to be in two plastic bags. The hospital was notified of these contaminated bags and requested that they be picked up and returned to the hospital.

Individual exposure:

At this time, it is believed that there was no significant radioactive exposure to any individuals involved.

Disposition of material:

Each of the contaminated bags was placed in several plastic bags and then they were placed in plastic waste containers with secure lids. These containers were returned to the hospital. Upon arrival to the hospital, the containers were taken to long-term radioactive decay room, labeled and secured.

Radiation readings:

The Sugar Creek landfill reported a reading of 535 counts/minute, their trigger levels are set at 120 counts/minute. Upon receipt of the containers to the hospital, a reading of 15 to 20 mR/hour at 1 meter was observed using a GM meter.

Actions to prevent:

We are updating our current Hyperthyroid Treatment policy to accommodate inpatients. This will include, but not limited to a specific room to admit the patients to and monitoring of all waste generated by these patients. We also plan on installing a survey meter with alarm at the hospital trash removal area. This will insure that no radioactive waste leaves our facility.


LIBERTY HOSPITAL
A Regional Medical Center
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CERTIFIED MAIL™



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