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Mallinckrodt Inc.

March 25, 2010

Mr. Mark Satorius
U.S. Nuclear Regulatory Commission - Region III
2443 Warrenville Road, Suite 210
Lisle, Illinois 60532-4352

RE: NRC License 24-04206-01
Docket Numbers: 030-00001
NRC Event No. 45735

Dear Mr. Satorius:

Mallinckrodt is providing this letter to the Nuclear Regulatory Commission (NRC) in accordance with 10 CFR 20.2201(b). Specifically, Mallinckrodt reported a loss of licensed material to the NRC Operations Center on March 1, 2010. Subsequently, on March 3, 2010, the package was located in our contract air carrier's warehouse area. At that time the NRC Operations Center was again notified to provide the updated information.

The radioactive material involved was a packaged 3 Ci Mo-99/Tc-99m generator prepared for shipment in an approved DOT Type 7A package. The missing package was destined for a customer located at a hospital in the country of Bermuda. At the time of shipment, the package exhibited a maximum contact dose rate of 40 mrem/hr and the transport index was 2.5.

A chronology of events leading to the report of the missing package is provided below.

On Feb 12, 2010, the affected package was shipped via ground from our Maryland Heights, MO location to Delta Airlines in Atlanta, Georgia. On February 15, 2010, the customer contacted Mallinckrodt, indicating that the generator had not been received. Upon contacting the airline, Mallinckrodt was informed that the package missed its February 14th flight and was then booked for the next flight to Bermuda, which was to depart on February 18th. It was later learned, via communication with Delta, that the package also missed the February 18th flight. On February 19th the customer decided to cancel the order due to the delay and the associated decay of the product. On that same date Mallinckrodt contacted Delta in Atlanta and advised them of the shipment termination. Delta was also notified that the package would be picked up by Associated Couriers, Inc. for return to the Maryland Heights plant.

2703 Wagner Place
Maryland Heights, MO
63043

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On February 23, 2010, Delta notified Mallinckrodt that they were unable to locate the package, but had not completed their search of the cargo handling facilities in both Atlanta, GA and Bermuda. The airline subsequently expanded their search; however, as of March 1, 2010, the airline was unable to locate the package. On that same date, Mallinckrodt confirmed the package had not been delivered to the affected customer. Upon confirmation that the package was not in the possession of the customer, Mallinckrodt notified the NRC Emergency Operations Center to notify them of the apparent loss of material.

On March 3, 2010, Mallinckrodt was informed by Delta that they had located the package in their Bermuda warehouse.

Based on the information provided above, we believe that any exposure to a member of the public was negligible.

In response to this incident, Mallinckrodt has decided to discontinue the use of Delta Airlines for transportation of its radioactive products. If it becomes necessary to utilize this carrier in the future, Mallinckrodt will coordinate closely with the carrier and establish individual points of contact in regard to tracking of Mallinckrodt radioactive material freight.

If you have any questions related to this matter, please feel free to contact me at 314-654-7695 or Dan Hoffman at 314-654-7906.

Sincerely,

Mitzi Pennington

Mitzi Pennington
Site Director

cc: Pat Duft – Mallinckrodt
Jim Schuh – Mallinckrodt
Dan Hoffman – Mallinckrodt
Kay Yoder – Mallinckrodt
Robert G. Gattone – U.S. NRC Region III

FedEx Express

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ORIGIN ID: ZSVA (800) 525-3689
SHIPPING DEPT.
MALLINCKRODT MEDICAL INC
2703 WAGNER PLACE

MARYLAND HEIGHTS, MO 63043
UNITED STATES US

SHIP DATE: 25MAR10
ACTWGT: 0.2 LB
CAD: 0052080/CAFE2450

BILL SENDER

TO ATTN: MR.MARK SATORIUS
US NRC REGION III
2443 WARRENVILLE RD. STE 210

LISLE IL 605324523

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