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OHIO STATE UNIVERSITY

Office of Environmental
Health and Safety

1314 Kinnear Road, Room 210
Columbus, OH 43212-1168
Phone 614-292-1284
FAX 614-292-6404

IRM 14th
10CFR 20.2201(b)

March 24, 1997

Administrator
U.S. Nuclear Regulatory Commission, Region III
801 Warrenville Road
Lisle, Illinois 60532-4351

Ohio State University License Number: 34-00293-02 - 03002640

Subject: Written Report of Lost/Missing Licensed Material

Administrator:

Enclosed is a written report of lost/missing licensed material that occurred at Ohio State University. This report is furnish to in accordance of Title 10 CFR Part 20.2201(b). If you have questions please call me at (614) 292-1284.
Thank you.

Sincerely,

Robert E. Peterson Jr.

Robert E. Peterson, Jr.
University Radiation Safety Officer

cc Roy Caniano, Acting Director, Division of Nuclear Materials Safety, Region III
John Madera, Chief, Materials Inspection, Region III
Wayne Slawinski, Senior Inspector, Materials Inspection, Region III
Cecil R. Smith, Dr.P.H., Assistant Vice President, Environmental Health and Safety

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DESCRIPTION OF LOST/MISSING LICENSED MATERIAL

Radionuclide	Quantity	Physical Form	Chemical Form
Phosphorus-32	250 uCi	Liquid	αdATP

DESCRIPTION OF CIRCUMSTANCES

A package containing limited quantity of radioactive material (250 uCi of phosphorus-32 labeled αdATP) was delivered to The Ohio State University Shipping and Receiving Department (2650 Kenny Road) on the morning of February 26, 1997. Several RAM and non-RAM packages were delivered by Federal express at that time. Once the associated paperwork is generated for each package by the Receiving Department personnel, the packages are delivered by University personnel to the various locations on campus. At the end of the day, the delivery person noticed there was no signature of receipt for this particular RAM package, and the RAM package was not on the truck. The RAM package was not delivered to the laboratory as indicated on the paperwork carried by the delivery personnel.

POSSIBLE EFFECTIVE DOSE EQUIVALENT

Since the RAM package was a limited quantity, the possible external dose equivalent to any persons would be extremely low. An estimated dose to an individual or individuals would be less than 100 millirems.

STATEMENT OF DISPOSITION OR PROBABLE DISPOSITION

There is the possibility of several scenarios of the disposition of the lost/missing RAM package.

1. The RAM package was not delivered to the University.
2. The RAM package was delivered to location other than its intended location.
3. The RAM package may have been disposed as normal trash. All trash from the University is shipped to a sanitary landfill.

ACTIONS THAT HAVE BEEN TAKEN OR WILL BE TAKEN TO LOCATE RAM PACKAGE

Chronological Order of Events/Actions Taken

1. RAM package delivered to University via Federal Express on the morning of **February 26, 1997**.
2. At the end of the working day of the **26th**, the delivery person possessed paperwork that a RAM package was not delivered to the laboratory.
3. Receiving Department personnel looked for the package on the **26th**.
4. Radiation Safety was notified by the Receiving Department of the lost/missing RAM package on the afternoon of **March 3, 1997**.
5. Radiation Safety Technician conducted an immediate search of the RAM package in the Receiving Department.
6. Radiation Safety Technician notified the University Radiation Safety Officer of the lost/missing RAM package on the afternoon of **March 3, 1997**.
7. **March 3, 1997** -University Radiation Safety Officer instructed Radiation Safety Technician to search the laboratory of the Approved Supervisor who ordered the material and other laboratories in that building.
8. Radiation Safety requested a list of deliveries that were made on **February 26** by that particular delivery person.
9. Radiation Safety personnel conducted a search of RAM package at all delivery stops.
10. **March 6, 1997** - University Radiation Safety Officer notified US Nuclear Regulatory Commission Region III of the lost/missing RAM package.
11. University Radiation Safety Officer performed physical inventory of RAM at specific laboratories on **March 10 and 11**.
12. **March 13, 1997** - Radiation Safety issued an e-mail message to all Approved Supervisors about the lost/missing RAM package. Radiation Safety requested all Approved Supervisors to inspect their laboratories for this package.
13. **March 14, 1997** - Radiation Safety expanded the search of the RAM package to all deliveries on **February 26 and 27**.
14. **March 14, 1997** - Radiation Safety performed an inspection of the trash dumpster at the Receiving Department. (Please note this dumpster was not emptied for several weeks.)

All of the above actions have resulted in not finding the lost/missing RAM package. Radiation Safety will continue the search of the lost/missing RAM package until the above actions have been exhausted.

PROCEDURES TO ENSURE AGAINST RECURRENCE

In order to prevent this incident from occurring in the future, the following steps will be taken:

1. The University's Shipping and Receiving Department was instructed to immediately notify Radiation Safety if a RAM package is lost/missing. Shipping and Receiving Department received annual training on March 11, 1997.

2. In the next Radiation Safety Newsletter there will be an article to instruct Approved Supervisors to notify Radiation Safety immediately if an expected RAM package has not been delivered by the end of the day. This instruction will be included in the next monthly Radiation Safety Short Course and the monthly Radiation Safety Refresher Course.