

Summary Report of NMED Events 10 events

Event Date	NMED Item Number	Licensee Involved	License Number	Site of Event
11/03/1998	981105	Community Hospitals of Indiana	13-06009-01	Indianapolis, IN
11/30/1998	990031	Sperry-Sun Drilling Services, Inc.	42-26844-01	Indianapolis, IN
03/29/1999	990239	Arvin Industries, Inc.	GENERAL LICENSE	Greenwood, IN
12/01/1999	020692	Eli Lilly & Co.	13-01133-02	Indianapolis, IN
05/01/2000	000322	Humboldt (of Raliegh, NC)	NC-092-0750-1	Indianapolis, IN
08/29/2001	010965	Community Hospitals of Indiana	13-06009-01	Indianapolis, IN
02/19/2004	040233	Medi+physics, Inc. (of Arlington Heights, IL)	IL-01109-01	Indianapolis, IN
09/15/2004	040819	Indiana University Medical Center	13-02752-03	Indianapolis, IN
10/19/2005	050700	Nehi Royal Crown Bottling	GENERAL LICENSE	Indianapolis, IN
06/23/2006	060421	Dayton's Bluff Neighborhood Services (of Saint Paul, MN)	GENERAL LICENSE	Indianapolis, IN

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NMED Item Number: 981105

Narrative: Last Updated: 03/31/1999

The licensee reported the loss of three 13.9 MBq (376 uCi) I-125 brachytherapy seeds. Eight seeds were held as extra in a sterile steel container on the preparation table in the Operating Room (OR) during a prostate brachytherapy procedure. During the OR clean-up the closed container with the seeds was taken to the OR cleaning room and placed on a table. The OR technician placed the closed container into soapy water in a wash sink, opened it, washed it along with several other pieces of equipment, then drained the sink. The dosimetrist had recorded that there were eight seeds in the container, but he forgot to remove them from the pig prior to its rinsing by the OR technician. Five of the seeds were found in the sink's drain trap, but the other three seeds could not be traced or recovered. It is estimated that the radiation dose to the technician's hands was about 0.33 mGy (33 mrad).

Event Date:

Discovery Date:

Report Date:

11/03/1998 11/04/1998 11/04/1998

Licensee/Reporting Party Information:

License Number: 13-06009-01 Name: COMMUNITY HOSPITALS OF INDIANA

Docket Number: 03001625 City: INDIANAPOLIS, IN

Site of Event:

Site Name: INDIANAPOLIS, IN

NMED Item Number: 990031

Narrative: Last Updated: 11/11/1999

The licensee reported the loss and recovery of an Amersham 74 GBq (2 Ci) Cs-137 sealed well logging source (model CDC.CY13, serial #2299GW). The licensee shipped the source via Federal Express. The package containing the source was picked up in Houston, Texas, and was to be transported to Anchorage, Alaska. On 12/8/98, the licensee contacted Federal Express to determine the location of the package, as it had not been received. On 12/15/98, Federal Express contacted the licensee and reported that the package could not be found. Federal Express stated that the package was tracked to the Federal Express hub in Indianapolis, Indiana, but that no further tracking information was available. Federal Express determined that the source was not at their Indianapolis hub. The source was recovered in Oakland, California on 2/19/99.

Event Date:

Discovery Date:

Report Date:

11/30/1998 12/15/1998 12/16/1998

Licensee/Reporting Party Information:

License Number: 42-26844-01 Name: SPERRY-SUN DRILLING SERVICES, INC.

Docket Number: 03029470 City: HOUSTON, TX

Site of Event:

Site Name: OAKLAND, CA

NMED Item Number: 990239

Narrative: Last Updated: 03/20/2003

The licensee reported the theft of a Loral Control Systems Xact Ray thickness gauge (model 5310, serial #48761-1), containing a 37 GBq (1 Ci) Am-241 sealed source (serial #2786LX). The gauge was properly labeled, secured to a pallet, and stored in an area designated for equipment being transferred to the licensee's Central Tubing Facility in Columbus, Indiana. However, when the truck carrying equipment to the Central Tubing Facility arrived, the gauge was not present. It appears that the gauge was inadvertently placed on a truck that was transporting material to a local scrap metal dealer (Kroot Salvage in Columbus, Indiana). However, when the truck arrived at the scrap yard, the gauge could not be found. The licensee has searched the local scrap yard with negative results. The licensee also searched the Kelpner Brothers scrap yard in Louisville, Kentucky, with negative results. The licensee contacted all other Arvin Exhaust facilities in North America and several outside purchasers of surplus process equipment with negative results. The licensee believes the gauge was stolen for its scrap value and contacted the Payne Firm for consultation concerning the device. The NRC concurred that the gauge was deliberately taken, although no specific person or organization could be identified as having taken the gauge. The gauge weighed approximately 200 pounds and was used to measure the thickness of rolled steel.

Event Date:

Discovery Date:

Report Date:

03/29/1999 04/09/1999 04/12/1999

Licensee/Reporting Party Information:

License Number: GENERAL LICENS Name: ARVIN INDUSTRIES, INC.

Docket Number: NA City: GREENWOOD, IN

Site of Event:

Site Name: GREENWOOD, IN

NMED Item Number: 000322

Narrative: Last Updated: 09/13/2000

The licensee reported the loss and recovery of a Humboldt moisture/density gauge (model 5001C, serial #1966) containing 1.48 GBq (40 mCi) of Am-Be and 0.37 GBq (10 mCi) of Cs-137. The gauge was shipped from the licensee's facility in Raleigh, North Carolina, to a facility in Coplay, Pennsylvania, via their carrier (Roadway Express). After five days, the customer notified the licensee that they had not received the gauge. The licensee then contacted the carrier and found out that the gauge was missing in transit. A trace was put out by the carrier for the gauge and they believed it may have been transferred to the wrong truck in Winston-Salem, North Carolina, which was scheduled to go to Indianapolis, Indiana. The suspected truck was located in Indiana and was taken back to the carrier's hub in Indianapolis to unload. The gauge was recovered in Indianapolis at 2244 EDT on 5/12/2000 and was redirected to the original customer.

Event Date:

Discovery Date:

Report Date:

05/01/2000 05/05/2000 05/12/2000

Licensee/Reporting Party Information:
License Number: NC-092-0750-1 Name: HUMBOLDT
Docket Number: NA City: RALEIGH, NC

Site of Event:
Site Name: INDIANAPOLIS, IN

NMED Item Number: 010965

Narrative: Last Updated: 12/18/2002

The licensee reported the loss of a seed source containing 12.1 MBq (0.327 mCi) of I-125. The licensee ordered 107 seeds, four seeds more than required for the planned implant procedure. The seeds were ordered from Mentor. Upon receipt of the seeds, no count was made to determine the actual number of seeds received. Upon completion of the implant procedure, only three of the four extra seeds were present. The licensee conducted a thorough search for the missing seed, but could not locate the seed. Mentor was contacted to see if they might have shipped one seed less than ordered, but their seed inventory showed no discrepancies. To prevent recurrence, the licensee modified their procedures for verifying and handling seeds.

Event Date:

Discovery Date:

Report Date:

08/29/2001 08/29/2001 08/29/2001

Licensee/Reporting Party Information:
License Number: 13-06009-01 Name: COMMUNITY HOSPITALS OF INDIANA
Docket Number: 03001625 City: INDIANAPOLIS, IN

Site of Event:
Site Name: INDIANAPOLIS, IN

NMED Item Number: 020692

Narrative: Last Updated: 05/24/2006

The licensee reported that an annual audit revealed the loss of 348 MBq (9.4 mCi) of C-14. The material consisted of 167 mg of a research compound in dry powder form contained in a small vial (less than 20 ml in volume). The material was used for basic metabolic research purposes. The last accounting of the material was in December 1999. Despite a detailed search, the material could not be located. The licensee believes that the material was incinerated along with other radioactive waste, which would result in a maximum off-site dose of 0.27 uSv (0.027 mrem). To prevent recurrence, the licensee retrained department personnel, will perform more frequent inventories, and developed a standardized radioactive material tracking procedure.

Event Date:

Discovery Date:

Report Date:

12/01/1999 06/20/2002 07/19/2002

Licensee/Reporting Party Information:

License Number: 13-01133-02 Name: ELI LILLY & CO.
Docket Number: 03004330 City: INDIANAPOLIS, IN

Site of Event:
Site Name: INDIANAPOLIS, IN

NMED Item Number: 040233

Narrative: Last Updated: 04/04/2005

The licensee reported a missing package containing 13.62 MBq (368 uCi) of P-32. The package was being sent to the University of Illinois and the carrier was Federal Express (airway bill #646415995989). When the package did not arrive at the University by the expected date of 2/20/2004, the licensee requested a package trace. At that time, Federal Express indicated that the package was in Indianapolis, Indiana. An independent trace by the RSO of the Airway Bill was consistent with the information provided in that the package arrived at the Indianapolis Sort Facility on 2/20/2004. Federal Express searched their Indianapolis and Chicago, Illinois, sorting facilities with no positive results. As of 3/31/2004, the package remains unaccounted for. The activity level of the P-32 is now below exempt quantity.

Event Date:

Discovery Date:

Report Date:

02/19/2004 02/20/2004 03/04/2004

Licensee/Reporting Party Information:

License Number: IL-01109-01 Name: MEDI+PHYSICS, INC.

Docket Number: NA City: ARLINGTON HEIGHTS, IL

Site of Event:
Site Name: INDIANAPOLIS, IN

NMED Item Number: 040819

Narrative: Last Updated: 05/16/2006

The licensee reported the loss of four Amersham I-125 seeds (model 6711), each containing an activity of 12.2 MBq (0.33 mCi). A patient was implanted with 20 seeds at the base of the tongue. Orthogonal radiographs confirmed proper placement of 14 of the 20 seeds. Additional radiographs indicated the presence of two additional seeds, one in the patient's throat and another in his abdomen. The other four seeds could not be accounted for. A medical physicist returned to the operating room and performed another survey; however, the operating room had been thoroughly cleaned since the procedure. Surveys were performed in the corridor leading to the recovery room and in the patient's room. Additional surveys were performed in the simulator room and adjacent hallway in radiation oncology, the isolation room in surgery recovery, the patient's room, dirty linens, and the trash in the 3-South wing. The four seeds were not located. The licensee believes that the seeds were dislodged, digested, and excreted to the sewage system, or dislodged by coughing/sneezing and expelled from the patient in the operating or recovery room. The licensee is reviewing both the implant and survey procedures to determine if any changes are warranted.

Event Date:

Discovery Date:

Report Date:

09/15/2004 09/15/2004 10/13/2004

Licensee/Reporting Party Information:

License Number: 13-02752-03 Name: INDIANA UNIVERSITY MEDICAL CENTER

Docket Number: 03001609 City: INDIANAPOLIS, IN

Site of Event:

Site Name: INDIANAPOLIS, IN

NMED Item Number: 050700

Narrative: Last Updated: 12/05/2005

The Indiana State Department of Health was notified by a scrap yard that a load of waste triggered their radiation monitor alarms. A Health Physicist was dispatched to the scrap yard and discovered a 518 MBq (14 mCi) Cs-137 source (serial #4699931). The source was not leaking and caused no injury to personnel. It was determined that the source belonged to Nehi Royal Crown Bottling, a generally licensed company that is no longer in operation. This source is one of two similar sources owned by the company. The other source was not located. The U.S. EPA was notified, took over jurisdiction, and found a contractor to dispose of the located source. The contractor (ADCO Services) took possession of the source on 11/18/2005 and made arrangements for disposal.

Event Date:

Discovery Date:

Report Date:

10/19/2005 10/19/2005 10/20/2005

Licensee/Reporting Party Information:

License Number: GENERAL LICENS Name: NEHI ROYAL CROWN BOTTLING

Docket Number: NA City: INDIANAPOLIS, IN

Site of Event:

Site Name: INDIANAPOLIS, IN

NMED Item Number: 060421

Narrative: Last Updated: 09/25/2006

The licensee reported the loss and recovery of a Niton x-ray fluorescence paint analyzer (model XL-300, serial #U2618) containing a Cd-109 source with an activity of 111 MBq (3 mCi). The analyzer was being shipped via Federal Express to Thermo Electron Corporation for source replenishment. The package arrived empty. The Federal Express RSO was notified and it was determined that the analyzer must have come out of the package at some point during shipment. The analyzer was recovered on 6/26/2006 at the Indianapolis, Indiana, Federal Express facility. The analyzer was shipped to Thermo Electron Corporation on 6/27/2006. Federal Express stated that there was no damage to the analyzer.

Event Date:

Discovery Date:

Report Date:

06/23/2006 06/26/2006 06/26/2006

Licensee/Reporting Party Information:

License Number: GENERAL LICENS Name: DAYTON'S BLUFF NEIGHBORHOOD
SERVICES

Docket Number: NA City: SAINT PAUL, MN

Site of Event:

Site Name: INDIANAPOLIS, IN

**APPENDIX B
RECORDS BEING RELEASED IN THEIR ENTIRETY**

<u>NO.</u>	<u>DATE</u>	<u>DESCRIPTION/(PAGE COUNT)</u>
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NMED Item Number 981105 - Community Hospital

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|----|------------|---|
| 1. | 11/04/1998 | NMED Event Report, NMED Item Number: 081105, Community Hospital, License No. 13-06009-01, 2 pages |
| 2. | 11/04/1998 | NRR Event Notification Report, Event Number 34996, Community Hospital, License No. 13-06009-01, 1 page |
| 3. | 11/04/1998 | Conversation Record with Andrea Browne, Community Hospital, License No. 13-06009-01, 1 page |
| 4. | 11/04/1998 | Preliminary Notification of Event or Unusual Occurrence, PNO-III-98-053, Community Hospital, License No. 13-06009-01, 1 page |
| 5. | 11/04/1998 | Conversation Record with Andrea Browne, Community Hospital, License No. 13-06009-01, 1 page |
| 6. | 11/19/1998 | Letter from Andrea Browne, Community Hospital to NRC, RE: Written report concerning loss of licensed material, 1 page |
| 7. | 12/10/1998 | Conversation Record with Andrea Browne, Community Hospital, License No. 13-06009-01, 1 page |
| 8. | 01/04/1999 | Conversation Record with Andrea Browne, Community Hospital, License No. 13-06009-01, 1 page |
| 9. | 01/06/1999 | NRC Inspection Report and Notice of Violation, Community Hospital, License No. 13-06009-01 (including Appendix A and B), 20 pages |

NMED Item Number 990031 - Sperry-Sun Drilling Services, Inc.

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| 10. | 12/16/1998 | NMED Event Report, NMED Item Number 990031, Sperry-Sun Drilling Services, Inc., License No. 42-26844-01, 2 pages |
| 11. | 01/11/1999 | NRR Event Notification Report, Event Number 35239, Sperry-Sun Drilling Services, Inc., License No. 42-26844-01, 1 page |

NMED Item Number 000322 - Humboldt

- 12. 05/12/2000 NMED Event Report, NMED Item Number 000322, Humboldt, Agreement State License No. NC-092-0750-01, 2 pages
- 13. 05/12/2000 NRR Event Notification Report, Event Number 36997, Humboldt, Agreement State License No. NC-092-0750-01, 2 pages

NMED Item Number 010965 - Community Hospitals of Indianapolis

- 14. 08/29/2001 NMED Event Report, NMED Item Number 010965, Community Hospitals of Indianapolis, License No. 13-06009-01, 2 pages
- 15. 08/30/2001 Letter from Phuong Chau, North American Scientific, to Carl Warner, Community Hospital, RE: Discrepancy in number of I-125 seeds for order number 1016989, 1 page
- 16. 09/04/2001 Memorandum from Carl Warner, Community Hospital to Andrea Browne, Community Hospital, RE: CHS I-125 seed implant on 8/29/2001 - final seed count off by one seed, 2 pages
- 17. 09/11/2001 Memorandum to CHS Nuclear Medicine Files from Carl Warner, Community Hospital, 1 page
- 18. 09/25/2001 Letter from Andrea Browne, Community Hospital, License No. 13-06009-01, RE: Event Report of possible loss of radioactive material, 1 page
- 19. 02/22/2002 NRC Inspection Report No. 03001625/2002-001(DNMS) and Notice of Violation - Community Hospitals of Indiana, 18 pages
- 20. 03/12/2002 Reply to a Notice of Violation, from Andrea Browne, Community Hospitals of Indianapolis, 1 page
- 21. 03/28/2002 NRC acknowledgment letter from Gary Shear to Mark Moore, Community Hospitals of Indiana, Inc., RE: Notice of Violation Dated February 22, 2002, 1 page

NMED Item Number 020692 - Eli Lilly & Co.

- 22. 07/19/2002 NMED Event Report, NMED Item Number 020692, Eli Lilly & Co., License No. 13-01133-02, 2 pages
- 23. 07/19/2002 NRR Event Notification Report, Event Number 39075, Eli Lilly & Co., License No. 13-01133-02, 1 page
- 24. 08/15/2002 Eli Lilly and Company, RE: Written report required by 10 CFR Part 20.2201, Report of theft or loss of licensed material, 3 pages

NMED Item Number 040233 - Medi-Physics, Inc.

25. 03/04/2004 NMED Event Report, NMED Item Number 040233, Medi-Physics, Inc., Agreement State License No. IL-01109-01, 2 pages

NMED Item Number 040819 - Indiana University Medical Center

26. 10/13/2004 NMED Event Report, NMED Item Number 040819, Indiana University Medical Center, License No. 13-02752-03, 2 pages
27. 10/13/2004 Letter from Mack Richard, Indiana University, RE: Report of lost material - NRC License No. 13-02752-03, 5 pages
28. 11/03/2004 NRC acknowledgment letter to Mack Richard, Indiana University School of Medicine, 1 page

NMED Item Number 050700 - Nehi Royal Crown Bottling

29. 10/20/2005 NMED Event Report, NMED Item Number 050700, Nehi Royal Crown Bottling, General License, 2 pages
30. 10/20/2005 NRR Event Notification Report, Event Number 42065, Nehi Royal Crown Bottling, General License, 2 pages

NMED Item Number 060421 - Dayton's Bluff Neighborhood Services

31. 06/26/2006 NMED Event Report, NMED Item Number 060421, Dayton's Bluff Neighborhood Services, Agreement State General License, 2 pages
32. 06/26/2007 NRR Event Notification Report, Event Number 42667, Dayton's Bluff Neighborhood Services, Agreement State General License, 2 pages

NMED Item Number 990239 - Arvin Industries, Inc

33. 03/22/2000 Ltr. From Cynthia Pederson, RIII to David Main, Arvin Industries, Inc. Subject: Report of missing americium fixed gauge (4 pages)