



DEPARTMENT OF THE ARMY
U.S. ARMY RESEARCH, DEVELOPMENT AND ENGINEERING COMMAND
ARMY RESEARCH LABORATORY
2800 POWDER MILL ROAD
ADELPHI MD 20783-1138

REPLY TO
ATTENTION OF

RDRL-LO

MEMORANDUM FOR Director, Office of Nuclear Materials Safety and Safeguards,
ATTN: Document Control Desk/GLTS, US Nuclear Regulatory Commission
Washington, DC 20555-0001

SUBJECT: Report to NRC of transfer of generally licensed Radioactive Sources

As reported to Mr. Hector Rodriguez of your agency on 19 April 2016, we recently became aware of the requirement to report lost, missing, or transferred generally licensed items. To ensure full compliance with your regulations, we therefore went through our records dating back to 1981 to identify what generally licensed items we transferred or shipped or disposed from our Adelphi, Maryland location. Since 1981, our records indicate that only a few generally licensed items were transferred, and in each case, they were transferred for disposal. Disposal occurs through transfer to an Army rad waste broker under contract to the Army Radioactive Waste Disposal Office located at Rock Island Arsenal, Rock Island, Illinois. Our present Radiation Safety Officer, Mr. Michael Borisky, has been present at Adelphi since 1981, so locating and understanding the records was relatively easy. In fact, Mr. Borisky remembers all of the transfers.

On June 7, 1990, we transferred to Chem-Nuclear Systems Inc., DoD Consolidation Facility, P.O. Box 828, Two Osborn Rd, Snelling, S.C. 29812, six sources used for measuring thickness. The rad waste manifest number was US 81-88-399. The sources were as follows: Betascope source Pb-210, sn F203, 20 uCi; Betascope source Pm-147, sn C4302, 600 uCi; Betascope TI-204, sn 3542, 30 uCi; Microderm source Pm-147, model HH3, sn 45085, 75 uCi; Microderm source Sr-90, model TH1, sn 19755, 10 uCi; and Microderm source TI-204, model HH3, sn 27119.

On Jan 27, 2011, we transferred two electron capture detectors to Toxco MMC, 109 Flint Road, Oak Ridge, Tennessee, 37830 under rad waste manifest USA 2008-093-TOXCO. The sources were as follows: Hewlett Packard electron capture detector F4536, and Hewlett Packard electron capture detector U0284, 15 mCi Ni-63 each. These detectors were originally mounted in two Hewlett Packard gas chromatographs: model 5890 (serial number A5935), and model 6890 (serial number US00011059).

On April 5, 2012, we transferred nine sealed glass vials containing Pm-147 to EMC, 3106 S Faith Home Road, Turlock, California, 95380 under waste manifest USA2011-071/077. Each vial contained 30 uCi of Pm-147. Seven were Siemens surge voltage protector tubes, and two were Varian VDX items. Unfortunately, this is all the identification information we have for these items. We are not certain, but these items may have been exempt from general licensing per 10CFR31.15, which permits up to 30 uCi Pm-147 in each tube without general licensing.

On July 25, 2012, we transferred three General Electric (GE) products each containing radioactive material to EMC, 3106 South Faith Home Road, Turlock, California, 95380 under waste manifest USA-2012-071. These sources were as follows: from GE Itemizer 3, sn 0500449010329, 10 mCi Ni-63; from GE Vapor Tracer 2, sn 08034938099, 10 mCi Ni-63, and from another GE Vapor Tracer 2, sn 01034936805, 10 mCi Ni-63. Most recently, on Jan 28, 2015, we transferred to the Aberdeen Proving Ground Rad Waste Holding Facility, building 5111, Aberdeen Proving Ground, Maryland 21005 na SRB Technologies (Canada) model BX, serial number 0082018 exit sign containing 21.6 Curies of H-3 gas. This item is still awaiting transfer to an Army rad waste broker.

If you have any additional questions, please contact my Radiation Safety Officer, Mr. Michael Borisky, at 301-394-6310.

A handwritten signature in black ink, appearing to read 'Teresa Kines', with a long horizontal line extending to the right.

Teresa Kines
Director for Laboratory Operations