

MEMORANDUM TO: License File  
Rose-Hulman Institute of Technology  
Terre Haute, IN

LICENSE NO.: 13-17582-02  
13-17582-01 (retired)

DOCKET NO.: 030-30904

FROM: George M. McCann, Senior Health Physicist  
NRC Region III, Division of Nuclear Material Safety  
Decommissioning Branch

SUBJECT: REQUEST TO PERMANENTLY RELEASE FORMER RADIOACTIVE  
MATERIAL STORAGE BUILDING CONTAINED IN LETTER DATED JULY 17,  
2006 (MAIL CONTROL NO.: 315574)

The licensee originally requested approval to remove cesium 137 from its license and to release its former radioactive materials storage building in a letter dated February 14, 2006 (Mail Control No. 315253) ML060520463)). On July 19, 1977, the NRC issued License No. 13-17582-01, which was superseded on February 2, 1989, by NRC License No. 13-17582-02. These licenses authorized the licensee to use low millicurie quantities of byproduct materials in sealed and unsealed form for training and teaching students in nuclear and radiation physics. The storage building, was described in the licensee's 2004 renewal application as: ... a cinder block building of 100 – 150 square feet located about 60 feet northwest of the north end of Moench Hall (the Institute's main class-room building). This outbuilding formerly contained a lead storage vault and was used to store licensable sources (Plutonium 239/Beryllium neutron sources, and a americium 241 source) when not in use in student laboratories. The licensee's request was voided on April 27, 2006, due to the need for additional information and the need of the NRC to conduct a confirmatory survey.

Attached to the licensee's February 14, 2006, letter was a "Final Status Survey of the Radioactive Source Storage Building, at the Rose-Hulman Institute of Technology dated September 27, 2005, ADAMS Accession No: ML060520463. The report had been prepared for by the Institute's contractor ,RAM Services, Inc., 510 County Highway V, Two Rivers, WI 54241, NRC License No. 48-26638-01, Docket No. 030-33812. The licensee's final status survey was used as a reference during a NRC confirmatory inspection conducted on July 13, 2006 (NRC Inspection Report No. 030-30904/06-001 (DNMS)).

The NRC inspectors determined that the contractor's final status survey findings were consistent with unrestricted release criteria specified in NUREG 1757, "Consolidated NMSS Decommissioning Guidance, Decommissioning Process for Material Licensees." The NRC's unrestricted release criteria specified in NUREG 1757, "Table B.1 Acceptable License Termination Screening Values of Common Radionuclides for Building-Surface Contamination," is 28,000 disintegrations per minute (dpm/100 <sup>cm2</sup>). Additionally, the NRC confirmatory survey did not identify any residual radiological materials or contamination in the storage building significantly different than the ambient radiological background. Thus, the NRC approval for unrestricted release of the licensee's building is consistent with the provisions of Title 10, Code of Federal Regulations, Part 20, "Standards for Protection Against Radiation, Subpart E, "Radiological Criteria for License Termination," Section 20.1402, Radiological Criteria for

Unrestricted Use."

An NRC Environmental Assessment (EA) and Finding of No Significant Impact (FONSI) (MLXXXXXX) were completed and supported the issuance of NRC License Amendment No. 5, which authorized the unrestricted release of the former storage building.

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