

TELEPHONE CONVERSATION RECORD

Persons Contacted:

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Caller:

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Licensee: Rose-Hulman Institute of Technology
5500 Wabash Avenue
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License No.: 13-17582-02
Docket No.: 030-30904
Mail Control No.: 315253 (amendment request)
Program Code: 22120 (Plutonium sealed sources <200g)

Dates of calls: March 14, 2006 (Syed, Ph.D.)
April 21, 2006 (Syed, Ph.D.)
April 26 and April 27, 2006 (Howard)

**SUBJECT: AMENDMENT REQUEST TO RELEASE FORMER STORAGE SHED
AND REMOVE CESIUM 137 FROM LICENSE**

As part of this review the following documents were reviewed.

- A. Rose-Hulman Institute of Technology, February 14, 2006, letter requesting an amendment to License No. 13-17582-02.
- B. RAM Services, Inc. "Final Status Survey of the Radioactive Source Storage Building at the Rose-Hulman Institute of Technology," dated September 27, 2005.
- C. Rose-Hulman Institute of Technology, March 1, 1983, license renewal request for NRC License No. 13-17582-01.
- D. Rose-Hulman Institute of Technology, September 9, 2005, License No. 13-17582-02, amendment request.
- E. Rose-Hulman Institute of Technology, November 19, 2001, License No. 13-17582-02, amendment request.

- F. U.S. Nuclear Regulatory Commission, memorandum dated February 6, 2002, "Additional Information," Mail Control No. 309890, for License No. 13-17582-02, amendment request.

Discussion: The licensee's Radiation Safety Officer and the licensee's Environmental Health and Safety Manager were contacted on the above indicated dates. The following was discussed:

1. The performance of a confirmatory close-out survey of the storage building was discussed. The week of May 8, 2006, was tentatively set for the inspection. The date was changed during the April 26, 2006, discussion to the week of May 29, 2006.

Additionally, we discussed the possibility of the NRC surveying other areas where unsealed materials may have been used, such as classrooms and laboratories. These other surveys would be done while inspectors are on-site to survey the storage building. The RSO indicated concern regarding students and conflict with their classes. The RSO was advised that we would work around classroom schedules. The RSO indicated that these materials were used many years prior to his assignment as Radiation Safety Officer. The RSO was requested to, as much as possible to identify classrooms, laboratories and associated safety radiation surveys for those areas where unsealed materials were used. The RSO was informed that NRC staff could not find any such surveys in the NRC files. Also, the RSO was informed that a 1983 license renewal of the -01 license indicated that there may have been a spill associated to the use of cesium 137. The licensee review of material use locations and close-out surveys should deal with the use of unsealed quantities of cesium 137 and strontium 90 used within the Institute's buildings.

2. The Radiation Safety Officer indicated that the Institute has ceased the use of all unsealed materials, and that they possess only a sealed americium 241 source which is stored in the Institute's Physics building. Thus, any area where materials (laboratory and materials storage areas) if they haven't been, must be surveyed and the licensee must determine if they meet our unrestricted release criteria. The RSO should, as much as possible do a historical assessment and find and or perform close out surveys of former use areas.
3. It is not clear if the decontamination work was done under the Institute's license or RAM Services. The licensee needs to discuss responsibility and over-sight of this work. The Manager of Environmental Safety, to the best of his recollection, indicated that the work was done primarily under the authority of the Service contractors license. The licensee should possess records and make them available during our onsite visit, regarding this work as follows:
 - A. The procedure(s) used for remediation activities. Who reviewed and approved these procedures? A copy of this record should be available

during the NRC's visit.

- B. What was done to monitor possible exposures, direct and inhalation. What evaluation of such monitoring was done. These records should be on site for review by the NRC.
 - C. The licensee will need to discuss how licensee control was maintained while the Service contractor was onsite, and how responsibility for the building was transferred to the Service contractor, and what over-sight the Institute maintained while remediation activities were performed.
- 4. It was agreed to e-mail this conversation record to Dr. Syed and Mr. Howard for their review. Mr. Howard was requested that either he or Dr. Syed should contact Mr. McCann if there is any further questions or clarification needed regarding this action.
 - 5. Both Dr. Syed and Mr. Howard were advised that we are voiding their license amendment without prejudice until we have completed our surveys, and the Institute has address the former use areas, surveys and the use of the contractor. Once these activities have been completed we will reactivate their amendment request.

End of Call Record