

Docket No. 040-08724  
License No. SUB-1357

APPLICANT: Chemetron Corporation, Inc.

FACILITY: McGean-Rohco Complex Buildings  
Cuyahoga Heights, Ohio

SUBJECT: SAFETY EVALUATION REPORT (SER), LICENSE AMENDMENT APPLICATION DATED  
MARCH 24, 1994, AND LETTER DATED APRIL 4, 1994, REGARDING  
DECONTAMINATION OF MCGEAN-ROHCO COMPLEX BUILDINGS

## I. BACKGROUND

By the letter of March 24, 1994, Chemetron Corporation, Inc. (Chemetron) requested that NRC amend their license to authorize them to perform the remediation of the Harvard Avenue and Bert Avenue sites in accordance with their remediation plan entitled, "Site Remediation Plan Chemetron Remediation Project Harvard and Bert Avenue Sites Chemetron Corporation, Inc. Newburgh Heights, Ohio," dated October 1, 1993, November 1, 1993, and November 11, 1993. By letter of April 4, 1994, Chemetron requested that the NRC separately review the sections of the remediation plan pertaining to the McGean-Rohco buildings, located at 2910 Harvard Avenue, in Cuyahoga Heights, Ohio. Chemetron indicated that they wished to initiate the remediation of these buildings as quickly as possible.

## II. DISCUSSION

In Appendix D of Chemetron's remediation plan, Chemetron discusses the contamination levels in and the approach to be used for remediating the McGean-Rohco buildings. The contamination is depleted uranium on surfaces of equipment and buildings, and resulted from airborne releases from the previous Chemetron operations and from contaminated equipment used by Chemetron. The contamination is in 13 main buildings and several auxiliary buildings at the 2910 Harvard Avenue location. The contaminated buildings are currently in use by McGean-Rohco, Inc. Activity levels in these buildings range up to 1,070,000 dpm/100 cm<sup>2</sup>. Chemetron is proposing to decontaminate the building surfaces and equipment by the use of vacuuming, scabbling with a needle gun, grinding, using high pressure water or steam, and washing.

Chemetron will utilize the Chemetron "Radiological Control Plan" for ensuring that radioactive exposures to workers and the public meet NRC requirements and will use their "Radiation Worker Handbook and Training Manual" to ensure that workers are properly trained. These documents cover dosimetry, environmental monitoring, the As Low As Reasonably Achievable (ALARA) program, administrative controls applicable to radiological safety, Radiation Work Permits, requirements for working in radiation areas, response to radiological incidents, recordkeeping, and training. These documents implement the revised 10 CFR Part 20 requirements that went into effect on January 1, 1994. The current management organization, including the Radiation Safety Officer, responsible for radiological control will remain in place.

Decontaminated building surfaces and equipment will be surveyed in accordance with "Guidelines for Decontamination of Facilities and Equipment Prior to Release for

Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material," dated August 1987, before being released for unrestricted use.

In Chemetron's remediation plan, Chemetron proposed to dispose of protective clothing, equipment, and roofing wastes, generated in the McGean-Rohco remediation, by disposing them at a licensed low-level radioactive waste disposal site. Contaminated building materials, such as bricks, blocks, and concrete, would be disposed of in the disposal cell being proposed for the Harvard Avenue site. By letter of July 8, 1994, Chemetron proposed to store wastes, generated in the McGean-Rohco Complex remediation, in Building 16. On July 29, 1994, Chemetron proposed to also use Building 14 for waste storage. Buildings 14 and 16 will remain secured and be monitored while wastes are in storage.

### III. CONCLUSIONS

Chemetron has proposed an acceptable program for decontaminating the McGean-Rohco Complex buildings. The radiological controls, including environmental monitoring, administrative controls, the ALARA program, dosimetry, incident response, and radiation training are acceptable to adequately protect workers and the public. The organization responsible for radiological control, including the Radiation Safety Officer, has the appropriate level of training and experience to perform their duties.

### IV. RECOMMENDATION

The NRC staff recommends that the license be amended to authorize Chemetron to perform remediation of the McGean-Rohco Complex buildings in accordance with their remediation plan entitled, "Site Remediation Plan Chemetron Remediation Project Harvard and Bert Avenue Sites Chemetron Corporation, Inc. Newburgh Heights, Ohio," dated October 1, 1993, November 1, 1993, and November 11, 1993, and subsequent correspondence dated February 7, 1994, April 15, 1994, July 8, 1994, and July 27, 1994.

### V. REFERENCES

1. "Site Remediation Plan Chemetron Remediation Project Harvard and Bert Avenue Sites Chemetron Corporation, Inc. Newburgh Heights, Ohio," dated October 1, 1993, November 1, 1993, and November 11, 1993; and related correspondence dated February 7, 1994, April 15, 1994, July 8, 1994, and July 27, 1994.
2. "Radiological Control Plan," Revision 1, December 1993.
3. "Radiation Worker Handbook and Training Manual," Revision 1, January 1994.

4. "Guidelines for Decontamination of Facilities and Equipment Prior to Release for Unrestricted Use or Termination of Licenses for Byproduct, Source, or Special Nuclear Material," dated August 1987.

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