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SEP 03 1993

MEMORANDUM FOR: John Greeves, Director, Division of Low-Level Waste Management and Decommissioning (LLWM)

FROM: Charles E. Norelius, Director, Division of Radiation Safety and Safeguards

SUBJECT: CLEVITE CORPORATION (NEIGHBORHOOD PROGRESS, INC.), CLEVELAND, OHIO, TRANSFER OF PROGRAM MANAGEMENT

This refers to a July 27, 1993 conference call with Richard Bangart and your staff regarding NRC program management responsibility for the above former AEC Licensee. During this call it was agreed that NMSS/LLWM would assume primary oversight, due to unique legal questions regarding prior ownership responsibilities.

Review of the criteria for adding a site to the SDMP indicates that this facility meets criterion a., c. and d. (i.e., the responsible organization may not be financially viable, long-term presence of contamination and the license was previously terminated, but residual contamination exceeds NRC release criteria). Based upon our review, we have prepared a "DRAFT" SDMP write up, attached.

Please advise us when a Project Manager has been assigned. We will then transfer all relevant documentation, including docket files. If there are any questions regarding this facility, please contact G. M. McCann, Chief, Fuel Facilities and Decommissioning Section (708) 790-5785.

ORIGINAL SIGNED BY CHARLES E. NORELIUS

Charles E. Norelius, Director
Division of Radiation Safety and Safeguards

090057

Attachment: SDMP sheet

cc w/attachement:
P. Goldberg, NMSS
T. Johnson, LLWM

RIII *JW*
Wiedeman/sd
09/7/93

RIII
GMC, 10
per McCann
09/10/93

Globe

yes
RSS
Norelius
9/13/93

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CLEVITE CORPORATION, (NEIGHBORHOOD PROGRESS, INC.)

1. Site Identification

Clevite Research Center
Division of Clevite Corporation
540 E. 105th Street
Cleveland, Ohio

License No. SNM-183, C-3790, C-3692 and 34-000653-01/02 (terminated)
Docket No. 040-000133 (terminated)
License Status: Terminated by AEC in September 1962
Project Manager: _____, LLWM

2. Site and Operations

License No. SNM-183 was issued to Clevite Research Center, Division of Clevite Corporation on March 10, 1958 for use and possession of enriched uranium-235 at their facility located at 540 East 105th Street, Cleveland, Ohio. The authorized activities included melting, alloying, forging, rolling, welding, pickling, chemical and metallographic analyses, machining, stamping and the sintering of enriched uranium powder and ceramic materials for the production and fabrication of fuel elements for nuclear reactors. Initially the license authorized 9,010 grams of 90% enriched uranium-235. Subsequent amendments to the license authorized 55,800 grams of enriched uranium-235. A special area located on the 1st floor of the building (near the rear of the building) was reserved for fabrication of fuel elements. During the period that special nuclear materials were used the licensee maintained approximately 20 operational criticality areas. In 1962 Clevite Corporation elected to not renew their license and prepare for the decontamination and decommissioning of their facility. In a letter dated August 14, 1962 Clevite Corporation submitted their final radiation survey results. A review of this radiation survey indicates that the maximum radiation level over the surface of the working area was 140 microroentgen/hour ($\mu\text{R/h}$) {36 nC/kg/h} measured at 1.0 cm from the surface and the average radiation level was 30 $\mu\text{R/h}$ {7.7 nC/kg/h} measured at that same distance. The Atomic Energy Commission (AEC) conducted an inspection on August 30, 1962 to confirm the licensee's survey results and based upon the results of smear tests for removable contamination the license was terminated in September 1962.

Other licensed activities at this facility were conducted under license No. 34-00653-01 and 34-00653-02. The 01 license authorized millicurie amounts of phosphorus-32, sodium-24, potassium-42 and chlorine-36 for use in irradiation and research on crystalline compounds. The 02 license authorized sealed sources of cobalt-60 for use in irradiation and radiography. Source Material Licenses No. C-3790 and 3692 authorized 90 kg of natural uranium and 5 grams of thorium sulfide for research. It appears that work under the 01 and 02 licenses were being conducted on the second floor of the building.

During a review of the terminated license file by Oak Ridge National Laboratories (ORNL), an NRC contractor, it was noted that disposal of contaminated waste materials were made in an onsite incinerator. They also concluded that due to the way radioactive material was used, a potential for contamination off-site and contaminated on-site buildings may exist. NRC region III conducted an onsite inspection on May 27, 1993 and identified low levels of fixed uranium contamination on the floor of the former manufacturing building. The contamination levels were in excess of current NRC release criteria.

3. Radioactive Wastes

The site is approximately 180,000 ft² {16,727 m²} and the building is approximately 160,000 ft²{14,864 m²}. The former fabrication and manufacturing areas where contamination was found is approximately 7,000 ft² {650 m²}. The contaminated areas are occupied by a tenant known as Grid Seal Corporation. The property owner, Neighborhood Progress, Inc., has discussed the contamination issue with Clevite's legal counsel regarding financial responsibility for characterization and remediation of the contamination.

4. Description of Radiological Hazard

The site is access controlled and poses no immediate threat to the public health and safety. The only identified contamination, is fixed uranium in the floor of one room. The area with the highest amount of contamination was shielded with a metal sheet. Radiation surveys by the NRC found no radiation levels above natural background outside the building and surrounding property.

5. Financial Assurance/Viable Responsible Organization

At the time of the May 27, 1993 inspection, it was the inspector's understanding that prior to 1969 the original building owner was Cleveland Graphite Bronze/ Clevite. Clevite became a sole subsidiary until 1969, when Clevite merged with Gould, Inc. In September 1981, the building was purchased by Imperial Clevite, Inc. In 1986 the building reverted back to Clevite, Inc. In 1987, the Pullman Company purchased some Clevite assets which included this building. Neighborhood Progress, Inc. purchased the building in December 1991 from The Pullman Co. There is no financial assurance in place to cover the costs of decontamination and decommissioning.

6. Status of Decommissioning Activities

None

7. Other Involved Parties

The Pullman Company and Gould, Inc. legal counsel were provided copies of the official docket files. They are currently discussing legal responsibility for characterization and decommissioning costs.

8. NRC/Licensee Actions and Schedule

- Issuance of NRC inspection report (99990003/93011(DRSS)- July 13,1993
- Determine further action based upon response to inspection report.