

U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No. 040-00861

License Nos. C-3496 (Terminated)  
27229 (Terminated)  
34-1947-1 (Terminated)

Licensee: Horizons, Incorporated (Former)

Facility: Lamotite Corporation  
Facility now occupied by  
Cleveland Laminating Corporation

Location: 2909 East 79th St  
Cleveland, Ohio

Dates: December 18, 1996

Inspector: J. E. House Senior Radiation Specialist

Approved By: B. L. Jorgensen, Chief  
Decommissioning Branch

## EXECUTIVE SUMMARY

### Horizons Corporation

#### NRC Inspection Report No. 040-00861/96002(DNMS)

This was a routine inspection to review the status of the former Horizons facility. The facility is currently owned by the parent company of Lamotite Corporation (prior occupant) but has been leased to a new company, Cleveland Laminating Corporation (CLC), which is unrelated to Lamotite and which now occupies the site. The inspectors toured the site in order to prepare for the decommissioning plan review. A limited radiological survey of Buildings B and C was conducted emphasizing areas of known contamination.

Posted contaminated areas in Building C (currently occupied) were surveyed along with adjacent areas that had not been identified as being contaminated. One small contaminated area was found outside of the posted areas in Building C. This was a locked exterior "court yard". No other contamination was identified. Contaminated areas were adequately posted. Rooms where contamination existed were used mainly for storage, and occupancy was minimal.

Building B was locked and had not been occupied by CLC personnel. Surveys in Building B indicated that the drain system is contaminated; however smears taken from the concrete floor did not indicate any significant removable contamination. No violations of NRC regulations were identified.

## DETAILS

### 1. Background

License No. C-3496 was issued to Horizons, Inc. (Horizons) on April 30, 1957 for use and possession of up to 100 lbs. of uranium and 10,000 lbs. of thorium at their facility located at 2909 East 79th Street, Cleveland, Ohio. The authorized activities included refining source material for anyone licensed by the AEC and to recover uranium and thorium using an electrolytic process. This license expired on May 31, 1959. AEC Byproduct Material License No. 27229 was in effect in 1955 and authorized 20 millicuries (740 MBq) of silver-110 (Ag-110). This license was terminated (superseded) when License No. 34-1947-1 was issued on February 1, 1957. In a letter from the licensee dated November 4, 1958, the licensee stated that all materials on hand were shipped back to Oak Ridge National Laboratories on October 31, 1958, and on December 9, 1958, the byproduct material license was terminated. The AEC docket files did not contain a close-out radiation survey by the licensee or confirmatory radiological survey by the AEC for either license.

### 2. Facility Description

During the 1940's to the late 1950's, two buildings at the Horizons facility (Buildings B and C) were used for the production of granular thorium and uranium metal using an electrolytic process. Building C was originally used for receiving and processing radioactive materials. Building B was used for bulk storage and final processing of the radioactive materials. Details of the site history are contained in NRC Inspection Report 99990003/93015(DRSS). During that inspection, contamination was identified in Buildings B and C. In response to the NRC findings, the property owner contracted for an extensive radiological survey. The contractor identified and posted areas where contamination was found.

### 3. Current Status

On March 11, 1996, Lamotite sold its business interests, including manufacturing equipment and its product line, to the Cleveland Laminating Corporation (CLC), a new company which was not related to Lamotite. This sale did not include the property, which CLC leases from Rexam, the parent company of Lamotite. The Operations Manager for CLC stated that he was aware that low levels of radioactive contamination existed at the site.

As a result of negotiations with Horizons, the Department of Energy (DOE) has agreed to provide funding for the site cleanup. A contract was issued to a remediation contractor; however, the site Characterization/Remediation/Final Survey Plan has not been submitted to the NRC and no work has been done at the site. Negotiations are in progress between Horizons and the current property owner for the environmental contractor to have site access. The inspectors toured and performed a limited radiological survey of Buildings B and C. The

survey was not intended to be quantitative or to provide data for comparisons with release guidelines. The purpose of the survey was to provide an overview of contaminated areas which will be useful in evaluating the decommissioning plan. Contaminated areas in Building C were roped off and adequately posted. These areas along with adjacent areas were surveyed. In general, contamination was limited to the posted areas; however, some fixed activity was found along a window ledge in a small locked "court yard" area surrounded by exterior building walls. This is an outside area, that can be accessed through one locked inside door. This area was not occupied and was adequately secured. No removable activity was found in this area.

Building B, the metal building, was locked and had not been used by CLC. The entrance did not appear to be contaminated. A limited radiological survey of the concrete floor and drains indicated that contamination may be widespread in this building, especially in the drain system. No significant removable contamination was found on smears taken from the concrete floor. Although a large quantity of old equipment was stored in this building, surveys of items selected at random did not identify any contamination. Security and postings were adequate and the building did not pose an immediate health or safety hazard for workers.

4. Exit Meeting

At the conclusion of the inspection on December 18, 1996, the inspectors met with the Operations Manager of CLC and to discuss the preliminary results of the inspection. No proprietary information was identified.

5. Person Contacted

F. Bitting, Operations Manager, Cleveland Laminating Corporation

6. Survey Instruments

<u>Instrument/Model</u>	<u>Serial Number</u>	<u>Calibration Date</u>
Ludlum 2241-2 Scaler/Ratemeter	131418	7/23/96
Ludlum 44-9 G-M Probe used with 2241-2	PR110199	7/23/96
Ludlum 43-5 Alpha Probe used with 2241-2	PR110313	7/23/96
Ludlum 19 Micro-R Meter	016339	5/22/96

These instruments are calibrated annually.