### U.S. NUCLEAR REGULATORY COMMISSION

#### REGION III

leport No. 999-90003/93041(DRSS)-Supplement

License No. SNM-183 (terminated) Docket No. 070-00133 (terminated) License No. 34-00653-01(terminated) License No. 34-00653-02(terminated) License No. C-3790 (terminated) License No. C-3692 (terminated)

Licensee: Clevite Research Center Division of Clevite Corporation 540 East 105th Street Cleveland, Ohio

Inspection At: Neighborhood Progress, Inc. (a former Clevite Corp. facility) 540 East 105th Street Cleveland, Ohio 44108

Inspection Conducted: December 6 and 8, 1993

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Inspectors:

G. Wiedeman Senior Health Physicist

L. Glinski

Rediation/Specialist inne

Approved by:

G( M. McCann, Chief Fuel Facilities and Decommissioning Section

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## Inspection Summary

Inspection on December 6 and 8, 1993 (Ceport No. 999-90003/93041(DRSS)-Supplement)

Areas Inspected: This report is a supplement to Report No. 999-90003/93041(DRSS) issued December 30, 1993. A sample of contaminated concrete taken from the floor of the former manufacturing area and smear tests from six 1-meter grids were collected December 6 & 8, 1993.

Results: The NRC Region III laboratory analyses confirmed that the radioactive material is predominately a fixed beta emitter and uranium. After review of this data, it was confirmed that the level of fixed contamination within five of the six 1-meter grids exceed the NRC release criteria and the remaining grid approaches the NRC limit.

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# DETAILS

1. Persons Contacted

#\*Raymond J. Pierce, Facilities Manager, Neighborhood Progress, Inc.
(NPI)

\*Attended the exit meeting conducted on December 8, 1993. #Telephone conversation conducted on January 7, 1994 regarding the results of the laboratory sample analyses.

2. Laboratory Results

Smear Number	Location	disintegrations per minute * dpm/100 cm <sup>2</sup> averaged over 1-meter <sup>2</sup>	<pre>@ Removable Activity</pre>	
			alpha	beta
Grid 1	Floor machine shop	7,733	$1.0 \pm 0.5$	5.3 ± 1.1
Grid 2	Floor machine shop	9,200	4.5 ± 1.2	37.3 ± 3.4
Grid 3	Floor machine shop	8,800	0.9 ± 0.5	4.7 ± 1.0
Grid 4	Floor machine shop	6,533	$1.1 \pm 0.5$	4.7 ± 1.0
4 5	Floor machine shop	9,400	1.4 ± 0.6	7.8 ± 1.4
d 6	Floor hallway		0.1 ± 0.1	3.2 ± 0.8

Direct Radiation Smean Measurements

Smear Test Results

\* NRC limit is 5,000 dpm\100 cm<sup>2</sup> averaged over 1 square meter. Readings were converted from counts/minute (cpm) to disintegrations/minute (dpm) using a conversion factor of 750 cpm = ≈5,000 dpm/100 cm<sup>2</sup> averaged over 1 square meter.

@ NRC limit is 1,000 dpm {alpha}/100 cm<sup>2</sup> and 1,000 dpm (beta}/100 cm<sup>2</sup>

Laboratory analysis of  $\approx 5$  grams of chipped concrete taken from 6 id 3 indicated uranium.

# 3. Conclusion

All smear tests for removable contamination were below the NRC release criteria. Five of the six 1-meter grid areas of fixed contamination found on the floor exceed the NRC release limit of 5,000 dpm/100 cm<sup>2</sup> (averaged over 1-meter) and four individual areas exceeded the NRC maximum limit of 15,000 dpm/100 cm<sup>2</sup>. These areas are described in Report No. 999-90003/93041(DRSS).