

1717 H Street, NW

JUL 9 1958

BLA:RBP

National Lead Company
Instrumentation Department
St. Louis Smelting and
Refining Division
Fredericktown, Missouri

Attention: Mr. E. E. McNeill

Gentlemen:

This refers to the inspection conducted on April 21, 1958, of your activities licensed under AEC Byproduct Material License No. 24-3888-1.

It appears that certain of your activities were not conducted in full compliance with a condition of your license and the requirements of the AEC's "Standards for Protection Against Radiation," Part 20, Title 10, Code of Federal Regulations, in that:

1. The byproduct material inventory at the time of the inspection indicated 14 Cesium 137 sealed sources totaling 557 milllicuries. This was 7 sources and 112 milllicuries of Cesium 137 in excess of the quantity authorized by license condition No. 8, Maximum amount of radioactivity.
2. The quantities of radiation in the unenclosed areas near the lead storage shields containing Cesium 137 sources were more than an individual could receive a radiation dose in excess of two millirems in any one hour or 100 millirems in any one week. These quantities of radiation are much greater than specified in Section 20.110(a), Permissible limits of radiation in unenclosed areas.
3. Instructions located in the lower part of the lead shield building, in which the Cesium 137 sealed sources are used, were not labeled as required by Section 20.203(f)(1), Caution signs, labels and signals.

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4. The Cobalt 60 sources stored in an unrestricted area were not secured against unauthorized removal as required by Section 20.207, Storage of licensed material.
5. Results of surveys made in the Clave Bay of the Process Building where the sources are used, and in storage areas were not maintained as required by Section 20.401(a), Records of surveys, radiation monitoring and disposal.

Amendment No. 1 to License No. 24-3090-1 was issued on May 13, 1958, to cover possession of the Cobalt 60 sources in your possession. With regard to items 2 through 5, you are requested to notify this office, pursuant to the provisions of Section 2.201(a) of the AEC's "Rules of Practice," Part 2, Title 10, Code of Federal Regulations, within thirty days of your receipt of this notice, of the corrective steps taken or to be instituted to achieve correction of the above-described violations and the date when such correction has been or will be achieved.

We have enclosed a sample sign containing the coloring, wording and symbol which meets the requirements of Section 20.220(f)(1). A sign more suitable for labeling might be available from your radiotelephone supplier or a commercial sign company.

Very truly yours,

cc: Inspection Division, Wash.
Inspection Division, OROO
Public Document Room

James R. Hume, Chief
Isotopes Branch
Division of Licensing & Regulation

Enclosures

1. 10 CFR Part 20
2. 10 CFR Part 2
3. Sign "Section 20.220(f)(1)"

OFFICE	SLR	SLR	SLR			
SUMMARY	RECEIVED	RECEIVED	RECEIVED			
DATE	7-7-58	7-7-58	7-7-58			