



Aluminum Company of America

ALCOA RESEARCH LABORATORIES

POST OFFICE BOX 772

KENT R. VAN HORN
DIRECTOR OF RESEARCH

New Kensington, Pa.

August 29, 1961

U. S. Atomic Energy Commission
Division of Licensing and Regulation
Washington 25, D. C.

Attention: Mr. E. R. Price
Assistant Director

Dear Mr. Price:

Reference: LR:RH

In reply to your letter dated August 1, 1961 informing us of the items of non-compliance with the provisions of 10 CFR, Part 20 noted during the inspection of our facilities on January 18, 1961, we are submitting for your approval a listing of the remedial measures to be instituted to fully comply with the regulations.

The violations cited in your letter are considered individually as follows:

1. "Authorized place of use" of Sr-90 Beta Gauge

Application was made on August 23, 1961 to have our license amended to reflect the change in location of the gauge from Alcoa Research Laboratories to the Foil Mill, Fabricating Works, 12th Street and 2nd Avenue, New Kensington, Pennsylvania.

2. Distribution of Copies of Administrative Procedures

Copies of written administrative procedures have been distributed to plant personnel connected with the operation and supervision of the beta thickness gauge in the Foil Mill.

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3. Surveys to Evaluate Hazards Incident to The
Evaporation of Liquid Wastes

Liquid wastes have not been concentrated by evaporation since the first of the year. Liquid wastes have been processed by removing active materials via precipitation or converting the liquid to solid form by the addition of plaster of Paris.

We are awaiting receipt of air sampling equipment which has been ordered from the Gelman Instrument Company. The equipment has a sampling capacity of 4 cfm and will be used to monitor effluents in the vicinity of the exhaust hood and in the exhaust stack. Liquid waste processing by evaporation will not be resumed until this equipment is received.

4. Instruction of Personnel Operating Nuclear
Gauging Equipment in Foil Mill

Arrangements are being made for the writer to present a lecture on the fundamentals of radioactivity and radiation protection to the personnel engaged in operating the equipment. Copies of NBS Handbook No. 66 "Safe Design and Use of Industrial Beta-Ray Sources" and 10 CFR, Part 20 will be made available to these people as supplemental information. A tentative date of September 8 has been set for the lecture.

5. Posting of Notices and Availability of Documents

Copies of Form AEC-3, our byproduct material license, 10 CFR, Parts 20 and 30 and our written administrative procedures have been posted on the bulletin board on the outside wall of the mill foreman's office. Interested parties have been informed of the availability of these documents. A copy of written administrative procedures has been included in the machine operating instructions manual which is kept at the machine equipped with the beta-ray gauge.

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6. Records of Surveys Conducted on Sr-90 Thickness Gauge

Film badges have been attached to various parts of the foil rolling machine to monitor radiation dosage. Records of the exposure registered on the badges, as interpreted by St. John's X-Ray Laboratory, are being maintained. Records of periodic radiation surveys are likewise being maintained.

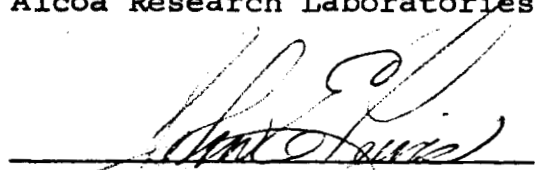
7. Caution Signs, Labels and Signals

The radiation areas in the radioisotope storage room in the Radiochemical Laboratory and near the beta gauge in the Foil Mill have been posted with 4" x 4" signs reading "Caution - Radiation Area."

We trust that the described corrective measures, which should be fully in effect by October 1, 1961, will constitute complete compliance with the provisions of Part 20, 10 CFR. Please be assured that we shall endeavor to prevent a reoccurrence of the violations cited.

Very truly yours,

ALUMINUM COMPANY OF AMERICA
Alcoa Research Laboratories



John E. Lewis
Physical Chemistry Division

JEL:jg