

FEB 24 1994

Aluminum Company of America
ATTN: Mark A. Gradert
Environmental/Industrial
Hygiene Specialist
1600 Harvard Avenue
Cleveland, Ohio 44105

Dear Mr. Gradert:

SUBJECT: INSPECTION REPORT NO. 999-90003/93-034 (DRSS)

This refers to our December 30, 1993 letter, transmitting Inspection Report No. 999-90003/93-034(DRSS). In our letter, we stated that the presence of radium-226, thorium-232, and uranium-238 were below the unrestricted use criteria in NRC's Branch Technical Position "Disposal or Onsite Storage of Thorium or Uranium Wastes From Past Operations," Federal Register, October 23, 1981.

While the uranium-238 concentration was below NRC's unrestricted use criteria of 35 picocuries per gram (pCi/g) (1.3 becquerels per gram (Bq/g)), the total depleted uranium concentration (uranium-234 and uranium-238) in two samples collected from Grid A,0 were in excess of the unrestricted use criteria. These samples measured 35.1 and 38.9 pCi/g (1.3 and 1.4 Bq/g).

Since the activity, was less than three times the unrestricted use criteria, an area weighted average for the grid can be determined by using the formula in NUREG/CR 5849 "Manual for Conducting Radiological Surveys in Support of License Termination". Using the formula, the average activity in Grid A,0 was determined to be 29.3 pCi/g (1.1 Bq/g), less than the unrestricted use criteria.

In accordance with 10 CFR 2.790 of the Commission's regulations, a copy of this letter will be placed in the NRC Public Document Room.

We will gladly discuss any questions you have concerning this inspection.

Sincerely,

Original signed by George M. McCann for

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REG3 GA999 EMVALCOA
99990003 PDR

Gary L. Shear, Chief
Fuel Cycle and Decommissioning Branch

bcc: T. Johnson, LLDR
PUBLIC (IE 07)

RIII *res*
fmh
Lambert/djp
02/21/94

RIII *VC*
AMK
McCann
4/24/94

RIII *Shear*
Shear *for*
3/24/94

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