

AUG 12 1969

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40-2038

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R. H. Kennedy, RM

Mr. F. B. Shay
Group Vice President - Operations
Foote Mineral Company
Route 100
Exton, Pennsylvania 19341

Dear Mr. Shay:

Mr. Rafford L. Faulkner, in his letter to you of August 7, 1969, advised you that we would contact you concerning the requirements for termination of AEC Source Material License No. SUA-789.

In order to consider an application for termination of License No. SUA-789, we will need a report indicating that all residues, sludges and tailings which may be stored on the Shiprock site, contain less than 0.05 percent source material as defined by the enclosed 10 CFR 40. The report should also contain survey results indicating that the contamination limits in the enclosure hereto entitled, "Radioactivity Limits for Unrestricted Release of Facilities and Equipment Contaminated with Source and/or Special Nuclear Material", have been met.

Please let me know if you have any questions concerning the above.

Sincerely,

Original Signed by
Donald A. Nussbaumer
Donald A. Nussbaumer, Chief
Source & Special Nuclear
Materials Branch
Division of Materials Licensing

Enclosures:

1. 10 CFR 40
2. "Radioactivity Limits..."

cc: Mr. Page Edwards
General Manager
Western Operations
Foote Mineral Company
P. O. Box 757

Shiprock, New Mexico 87420

OFFICE		DML	DML	
SURNAME		DEHarmon:sr	DANussbaumer	
DATE		8/11/69	8/12/69	

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RADIOACTIVITY LIMITS FOR UNRESTRICTED RELEASE OF
FACILITIES AND EQUIPMENT CONTAMINATED WITH
SOURCE AND/OR SPECIAL NUCLEAR MATERIAL

1. The maximum amount of fixed alpha radioactivity in disintegrations per minute per 100 square centimeters on buildings or equipment should not exceed 25,000.
2. The average amount of fixed alpha radioactivity in disintegrations per minute per 100 square centimeters on buildings or equipment should not exceed 5,000.
3. The maximum amount of removable (capable of being removed by wiping the surface with a filter paper or soft absorbent paper) alpha radioactivity in disintegrations per minute per 100 square centimeters on buildings or equipment should not exceed 1,000.
4. (a) The maximum level at one centimeter from the most highly contaminated surface of a building or piece of equipment measured with an open-window beta-gamma survey meter through a tissue equivalent absorber of not more than seven milligrams per square centimeter should not exceed one millirad per hour.

(b) The average radiation level at one centimeter from the contaminated surface of the building or equipment measured in the same manner should not exceed 0.2 millirad per hour.
5. The contamination limits for abandonment of facilities involving U-233 or plutonium should not exceed 1/10 of the limits in items 1, 2 and 3 above.

NOTES: A. A reasonable effort should be made to minimize the contamination present.

B. Surfaces of premises, equipment or scrap likely to be contaminated, and of such size, construction, or location as to make the surface inaccessible for purposes of measurement, shall be presumed to be contaminated in excess of the levels specified above.

C. Premises, equipment or scrap having contaminated surfaces which have been covered by painting, metal plating or other covering material should be presumed to be contaminated in excess of the levels specified above, unless it can be established that the contamination was below the above levels prior to applying the covering.