



UNION CARBIDE CORPORATION

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1978 MAY 11 AM 10 30

CORPORATE RESEARCH LABORATORY

U.S. NUCLEAR REG. COMMISSION

May 3, 1978 NMSS MAIL SECTION

OFFICE OF THE SECRETARY  
1978 MAY 24 AM 9 52

U. S. Nuclear Regulatory Commission  
Division of Fuel Cycle & Material Safety  
Washington, D. C. 20555

Att: Mr. J. A. Power

Ref: (a) UCC Ltr. 12/28/78<sup>7</sup> Application To Amend SNM-639.

Dear Sir:

Our letter of application (Ref. (a)) is hereby changed in accordance with discussions held between UCC & USNRC regarding assurance of criticality safety.

It is proposed that the wording of paragraph (a) of the referenced letter be changed to:

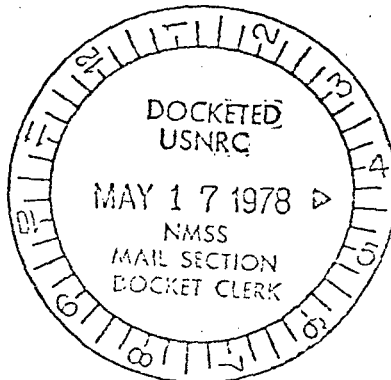
(a) The limits of U-235 in the hot cells shall be:

I. Waste Storage Hot Cell

- 1. 200 gms U-235 per aluminum waste container.
- 2. 2000 gms total U-235 per hot cell.

II. Isotope Processing Hot Cell

- 1. 150 gms U-235 per 300 ml boro-silicate glass bottle.
- 2. 650 gms total U-235 per hot cell.



FEE EXEMPT

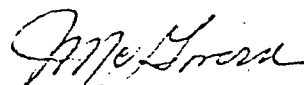
add'l info for 12-28-77  
03343

Provided:

1. Each waste container is a right cylinder of aluminum metal, 5.25" OD x 0.125" wall (minimum) (I.D. < 5.0"). There is no restriction on height but each cylinder will typically be < 18" high.
2. Aluminum waste containers will be stored in a linear array within the waste storage hot cells which are not used for storage of boro-silicate glass bottles containing U-235. A diagram of a typical aluminum waste container storage is shown on the enclosed drawing.
3. Aluminum waste containers, one at a time, will be filled in an isotope processing cell and will be moved to a hot cell which is equipped with a rack for storage of the aluminum containers. For disposal, the aluminum waste containers will be placed in 55 gallon 17H steel drums (2 per drum, 300 gms U-235 max.). Arrangement of drums will be as shown in the enclosed drawing.

Thank you for your consideration.

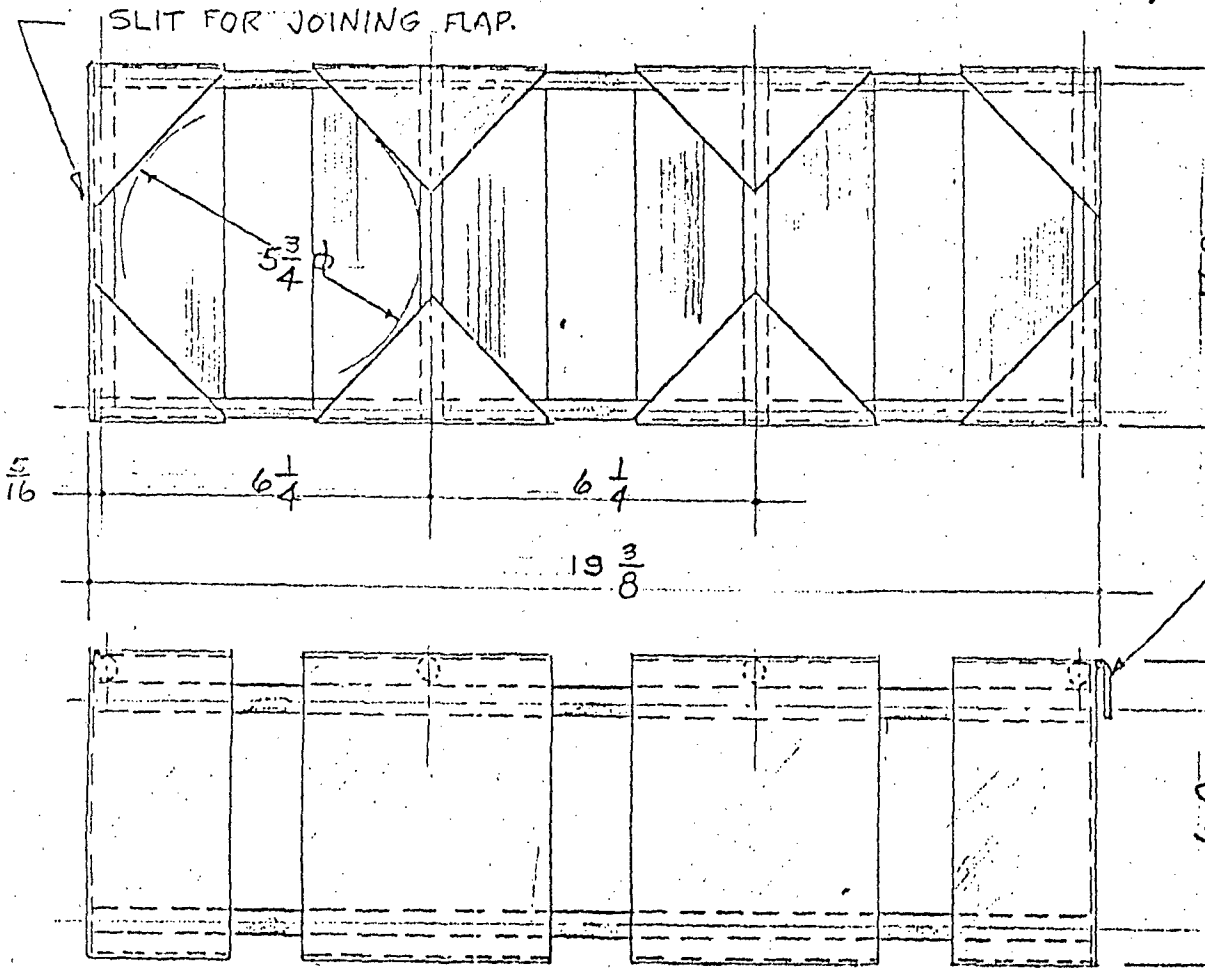
Very truly yours,



James J. McGovern  
Manager  
Radiochemical Production

JJMcG:js  
Enclosures

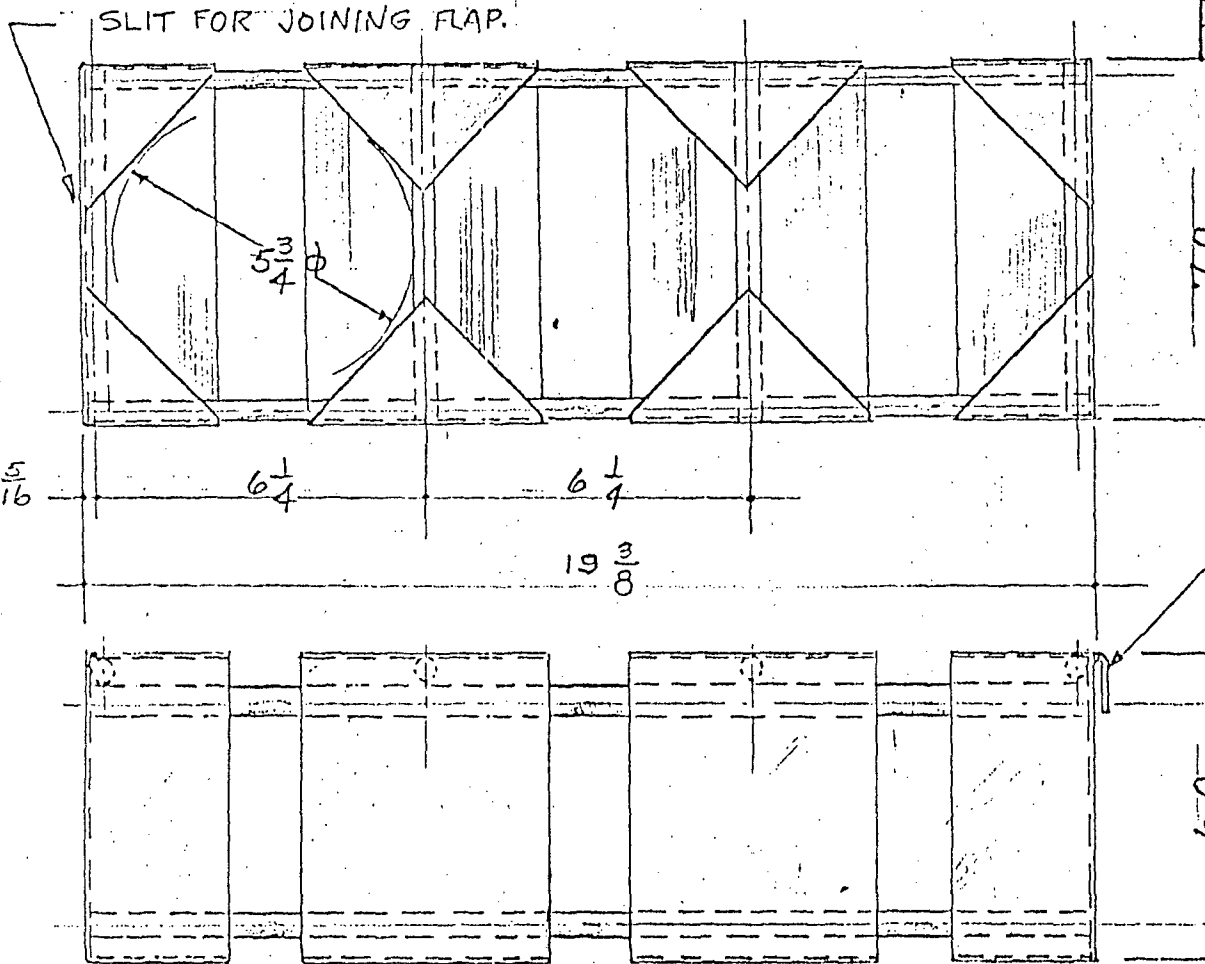
cc: Mr. Joseph Delaney (NRC)



REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED

MAT'L: ALUM.  
 WELDED CONSTRUCTION

TOLERANCES ±	UNION CARBIDE CORPORATION CORPORATE RESEARCH LABORATORY TUXEDO, NEW YORK		
DRAWN W.R. 5 MAY '78	STORAGE RACK		
CHECKED:	SCALE: 1" = 1/4"	SIZE: A	DRAWING NO.: 101349
DATE:			



REVISIONS			
LTR	DESCRIPTION	DATE	APPROVED

MAT'L: ALUM.  
 WELDED CONSTRUCTION

TOLERANCES ±	UNION CARBIDE CORPORATION CORPORATE RESEARCH LABORATORY TUXEDO, NEW YORK		
DRAWN M.R. SMAY '78	STORAGE RACK		
CHECKED:	SCALE: 1" = 1/4"	SIZE: A	DRAWING NO.: 101349
DATE:			