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File 4

January 13, 1958

Manager
U. S. Atomic Energy Commission
Schenectady Operations Office
P. O. Box 1069
Schenectady, New York

Attention Mr. V. V. Hendrix
Director
Reactor Eng. & Technical Services Division

Gentlemen:

On October 25, 1957, I sent you a letter requesting an opinion on raising the allowable storage capacity of our vault to six hundred kilograms of U235.

Attached is a sheet containing a sketch of our vault storage area and calculations regarding the maximum quantities of U235 which can be stored in the various storage devices to be used. For consistency with a figure submitted to the Licensing Branch, we are revising our maximum limit to 500 kilograms of contained U235.

I trust that the data presented will enable you to respond to our inquiry.

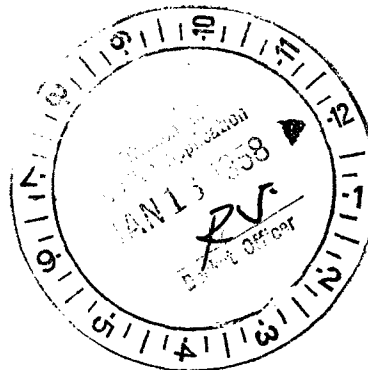
Very truly yours,

THE MARTIN COMPANY

C. A. Wendel

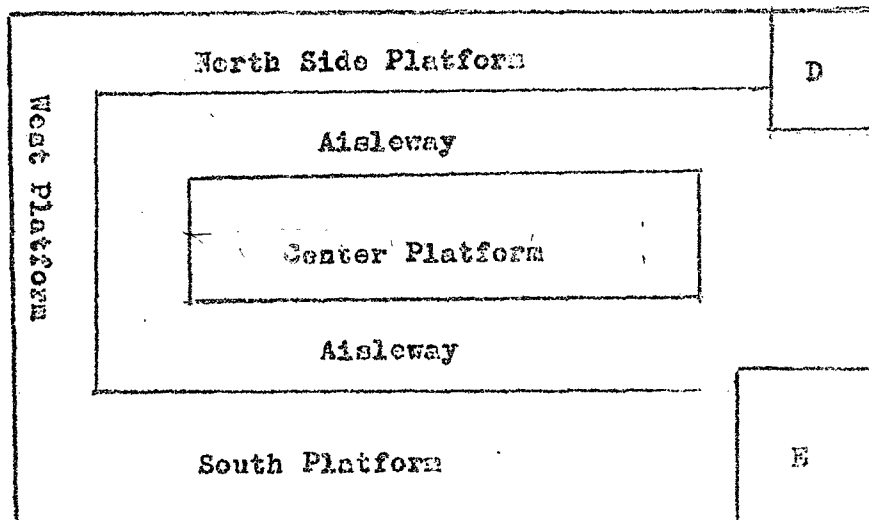
C. A. Wendel
Licensing Officer
Nuclear Division

CAW/bw



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CALCULATIONS OF STORAGE SPACE IN
MARTIN "D" BUILDING STORAGE VAULT, WORK AREA 1 (a)



Volume of Storage Devices

<u>Symbol</u>	<u>Type</u>	<u>Approx. Dimensions</u>	<u>Volume</u>
A	Powder Birdcage	16 5/8" x 16 5/8" x 21 3/8"	3.44 cu. ft.
B	Work Box Carrier	12" x 12" x 42"	3.5 cu. ft.
C	Fuel Storage Box	12" x 12" x 3'8"	2.8 cu. ft.
D	Supplier Birdcage	3'9" x 3'7" x 3'8"	9.14 cu. ft.
E	Ingot Box	12" x 12" x 12"	0.51 cu. ft.

Available Storage Volume

<u>Area</u>	<u>Approx. Dimensions</u>	<u>Volume</u>	<u>No. Of Devices</u>	<u>Maximum Quantity U235</u>
Vault	13'9" x 22'8" x 11'	3428 cu. ft.		
Aisleways	30" x 47'4" x 11'	1269 cu. ft.		
Center Storage	3'6" x 13'6" x 9.5'	470 cu. ft.	C- 117	117 kg
Wall Storage (N&W)	25" x 30' x 9.5'	570 cu. ft.	A- 110	110 kg
D & E	25' x 9'7" x 9.5'	219 cu. ft.	D- 4	20 kg
Wall Storage (South)	42" x 18' x 9.5'	600 cu. ft.	B- 162	162 kg
Under Platform		123 cu. ft.	E- 100	200 kg
			Total	609 kg