

DOCKET No.

70-90

File Log

ENGELHARD INDUSTRIES, INC.

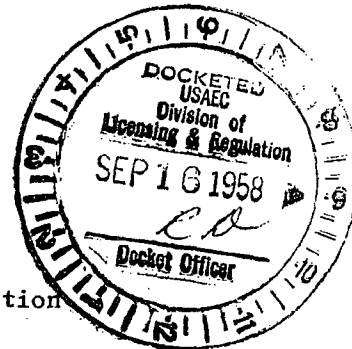
9/17/58  
Classification Review  
Required/CPM

September 12, 1958

EXECUTIVE OFFICES

113 ASTOR STREET  
NEWARK 2, N. J.  
BIGELOW 3-0030

United States Atomic Energy Commission  
Division of Licensing and Regulation  
Licensing Branch  
Washington, D. C.



Attention: Mr. J. C. Delaney, Chief, Materials Section

Gentlemen:

We are herewith submitting additional information concerning quantity and materials to be shipped in the proposed shipping containers submitted for your approval June 24, 1958 as an amendment to license SNM-98.

The shipping container shown on Dwg. B-2931 bears Bureau of Explosives permit number 593. The materials to be shipped in this container will be compounds of uranium,  $U_3O_8$ ,  $UF_4$  or  $UO_2$ , or possibly solutions of uranyl nitrate in water. The uranium will vary in enrichment from less than 10 per cent to (b)(4) per cent. Computations show that the volume of the container is 7.850 liters. This volume will hold 38 kilograms of solid with a packed density of 5. The weight of  $U_3O_8$ ,  $UF_4$  or  $UO_2$  to be shipped will be limited to 15 kilograms for material (b)(4) per cent enriched in  $U^{235}$ .

The shipping weight of lower enrichment materials will be limited to those shown on the accompanying curve, Figure 1. The limits shown on the curve were computed from LA 2063, Nuclear Safety Guide, Table V and figure 6, using 15 Kg as the maximum  $U^{235}$  limit in place of 18.5 Kg. suggested in Table V.

The solution limit for shipping per container will be 7 liters of solution having an H/U ratio  $\geq 20$ .

We await your decision on the use of the proposed shipping container.

Information in this record was deleted  
in accordance with the Freedom of Information  
Act, exemptions 4

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Very truly yours,  
ENGELHARD INDUSTRIES, INC.

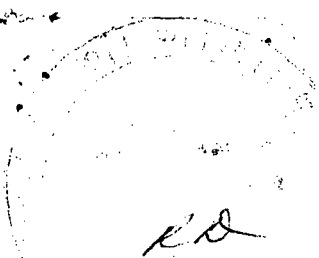
By:

E. F. Rosenblatt

Senior Vice President and  
Director of Research

H/14  
PKM

113409


  
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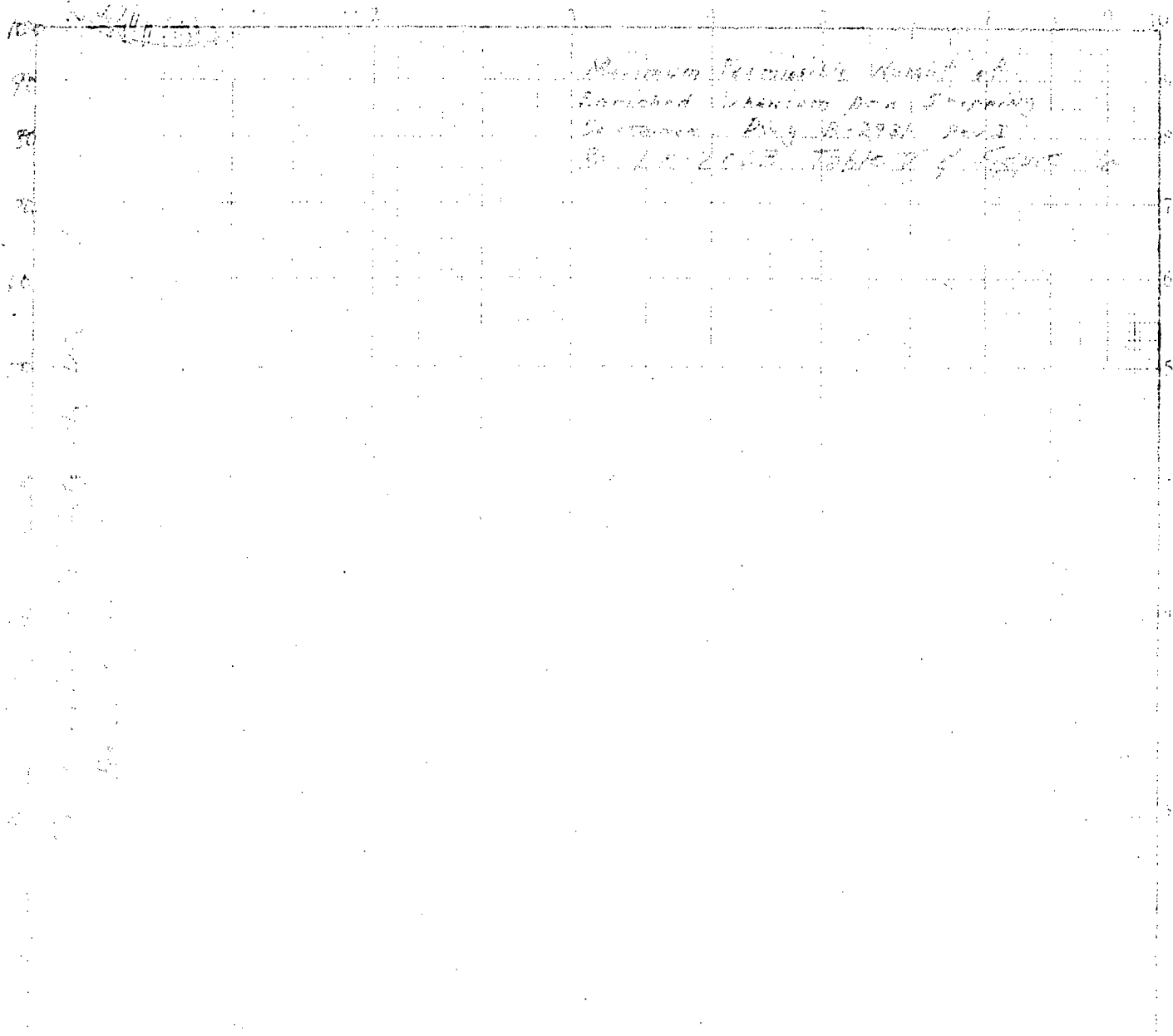


Figure 1