

DOCKET

NO.

70-139
For Div of Inspection**ENGELHARD INDUSTRIES, INC.****D. E. MAKEPEACE DIVISION**PINE & DUNHAM STREETS
ATTLEBORO, MASS.
ATTLEBORO 1-0090

September 23, 1959

U. S. Atomic Energy Commission
Nuclear Materials Section
Licensing Branch
Division of Licensing and Regulation
Washington 25, D. C.

ATTN: Mr. Charles P. McCallum, Jr.

REF: Docket 70-139, Special SNM-185
Additional Storage Space

Gentlemen:

Further to our letter of July 3rd and your response of July 27th concerning our proposal to store additional 25.6% enriched uranium in our Attleboro Plant, we have investigated the matter further and find that it will not be feasible to utilize such space. Please consider the proposal of our letter of July 3rd to be abandoned and superseded by the following:

D. E. Makepeace Division of Engelhard Industries, Inc., requests an amendment to its SNM License No. 185 to permit the receipt and processing of an additional 300 Kg. U-235 to be used in the fabrication of Power Reactor Development Corporation fuel elements in accordance with feasibility report DEM-6 and subsequent revisions. This material will be received from Davison Chemical Company, Erwin, Tennessee, at a monthly rate of 60 Kg. Each monthly shipment will consist of eight (8) biddages of 25.6% enriched derties and one (1) biddage of analytical samples. A drawing of such a biddage (Exhibit A) is enclosed.

At the present time we are storing these derties (300 Kg. U-235) in cubicles in our enriched vault. These cubicles are filled to capacity with our present supply. We propose, therefore, to store the additional material requested in a locked, caged area adjoining a vault in their original biddages. As soon as vault cubicles become available in the course of production scheduling, the

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derbies in the cage will be transferred to the vault. We estimate from current production planning that eight (8) birdcages will be the maximum amount of derby material outside the vault at any time. However, due to unforeseen future developments, we are requesting that we be allowed to store sixteen (16) birdcages of derby material outside the vault.

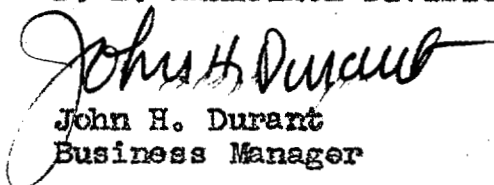
Storage will be in a roped off area of the locked wire cage (see drawing E1104, Exhibit B). The rest of the cage will be used for the in-process storage of PRDC enriched material in birdcages plus a receiving inspection area. Admission to the cage will be restricted to personnel accompanied by the criticality officer or his representative.

The material in this cage would be under the surveillance of plant security guards for 24-hour daily rounds, weekends included. On nights and weekends hourly rounds are made and clocks punched. Presently installed criticality and detector warning systems will, of course, cover this area.

We trust that approval will be granted as soon as possible since we have an October 7th delivery date for the next shipment from Davison. We will be willing to accept collect telephone calls concerning this matter in the interest of expediting this application.

Very truly yours,

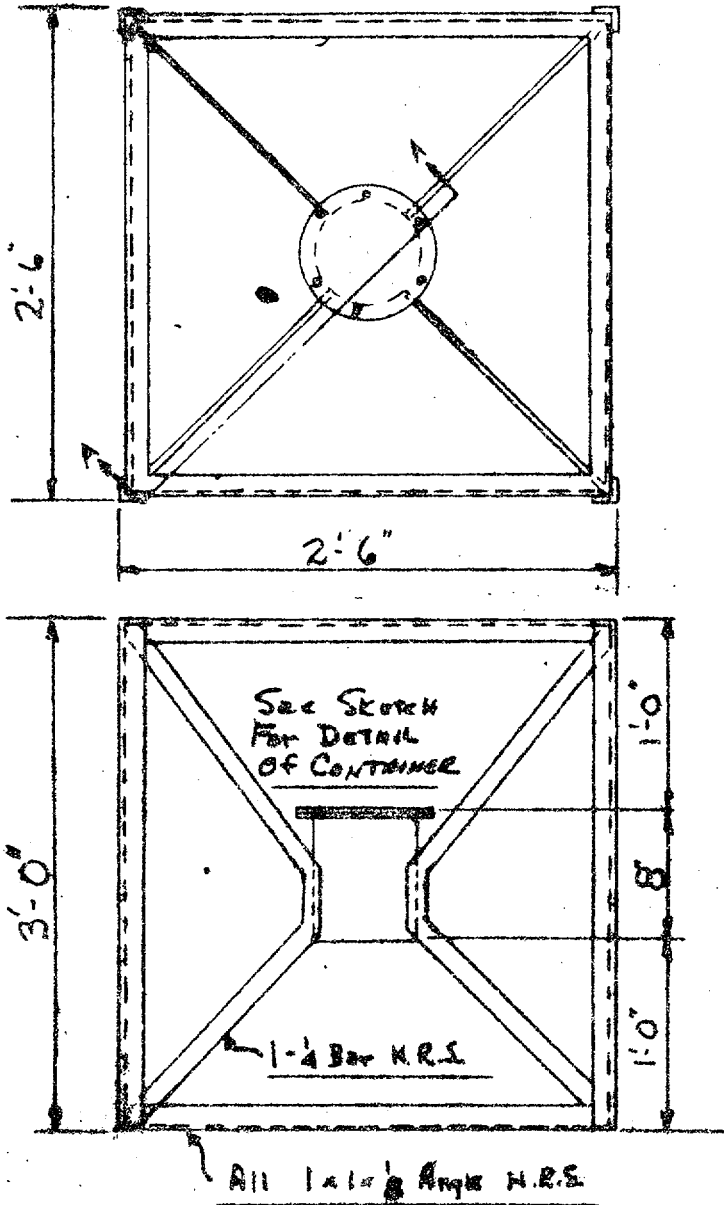
D. E. MAKEPEACE DIVISION


John H. Durant
Business Manager

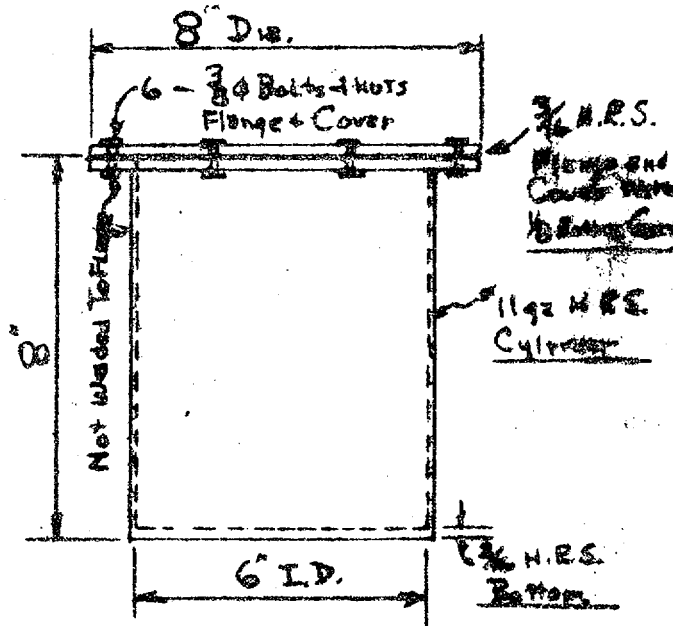
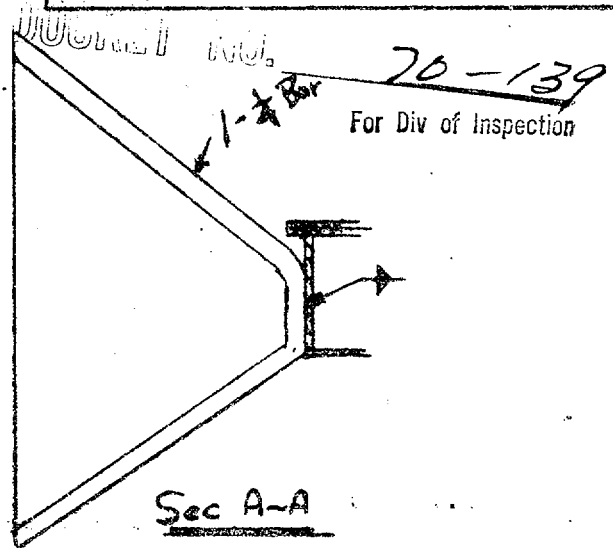
JHD/bs
encls:
via: AIR MAIL

Tower Iron Works

PROVIDENCE, RHODE ISLAND



STORAGE CONTAINER
WELDED CONSTRUCTION



DETAIL OF CYLINDER
WELDED WATERTIGHT

EXHIBIT A

STORAGE CONTAINERS
FOR
D. E. MAKEPEACE DIV. ENGLEHARD IND.
J.E. - 7-1-59