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L&R:CFM

AUG 12 1958

Engelhard Industries, Inc.  
113 Astor Street  
Newark 2, New Jersey

Attention: Mr. Lawrence C. Burman

Gentlemen:

This refers to your request of May 19, 1958, as supplemented July 8, 1958, for amendment to your license SM-98, as amended.

Before we may continue our review of the referenced request you should submit to us additional information in evidence of the adequacy of your procedures to avoid a condition of accidental criticality. This information should include:

1. The reasons for believing use of a five inch geometry and a three kilogram mass are adequate as a criticality control. This should include the data upon which these reasons are based and why you consider such a combination of limits as adequate control over all materials.

2. Your administrative and/or procedural methods of preventing errors in charging operations, such as double batching, and miscalculating the amount of uranium already in the dissolver as solution or as heel material, thus violating your three (3) kilogram mass safety limit. This is considered important in view of your proposed concurrent use of more than one dissolvers.

The revision of the dissolver design, as shown in the new drawing submitted, eliminates our concern over the escape of material into the dissolver steam jacket.

The review of your request will be continued upon receipt of this additional information.

Very truly yours,

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Br. & Div. rf's.

J. C. Delaney  
Chief, Materials Section  
Licensing Branch

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