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June 25, 1962

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UNITED NUCLEAR'S (MALLINCKRODT) APPLICATION FOR AMENDMENT TO
LICENSE 384-33, REQUESTING ONE-TIME-ONLY PERMIT TO PROCESS
93% ENRICHED AND 6.1% ENRICHED UO₂ INTO PELLETS - JUNE 7, 1962 -
DOCKET 70-36

Ref: DLR:FKD

In response to your memorandum of June 22, 1962, we have reviewed the subject request.

One-time-only approval is sought to permit processing 93% enriched and 6.1% enriched UO₂ into pellets in the pellet plant at Hanford, W., which is currently licensed for enrichments up to 5%.

Nuclear safety will be based on mass control. The total quantity of material involved for each enrichment, as confirmed by telecon of June 22, 1962, will not exceed the following:

- (1) 350 grams U-235 for UO₂ enriched to 93% U-235.
- (2) 733 grams U-235 for UO₂ enriched to 6.1% U-235.

Due to the staggered receipt dates of the subject materials, the possibility of mixing the two orders is eliminated. The applicant states that at the time each order is processed no other material will be in process in the pellet plant.

In view of the above considerations, we recommend approval to process the subject material on a one-time-only basis as proposed. However, it should be noted that to our knowledge receipt and storage of the subject material has not been authorized.

Attachment:
Ltr to United Nuclear dtd 6/7/62

DLR:FL:CEB DLR:FL:CEB
FKDurkan/vj CDLuke
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