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Source & Special Nuclear Materials Br.

June 25, 1962

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Criticality Evaluation Br.

UNITED NUCLEAR'S (HALLINCKHOUT) APPLICATION FOR AMENDMENT TO  
LICENSE SM-33, REQUESTING ONE-TIME-ONLY PERMIT TO PROCESS  
93% ENRICHED AND 6.1% ENRICHED  $UO_2$  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  $UO_2$  into pellets in the pellet  
plant at Hanford, Mo., 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  $UO_2$  enriched to 93% U-235.
- (2) 733 grams U-235 for  $UO_2$  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
6/25/62	6/25/62

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