

Project: 6-8
Docket: 70-36
MAY 17 1962

Donald A. Muckbauer, Chief
Source & Special Nuclear Materials Branch

Charles D. Luke, Chief
Criticality Evaluation Branch

UNITED NUCLEAR CORPORATION LETTER DATED MAY 10, 1962
RE FUEL ROD SHIPPING CONTAINERS - DOCKET 70-36

Ref: DLR:VED

In response to your memorandum of May 15, 1962, we have reviewed the subject request for adequacy of the applicant's procedures to avoid a condition of accidental criticality.

We see no objection to the shipping container limit of 1.2 kgs U-235 for 2.4% enriched UO_2 . This limit which corresponds to 57 kgs UO_2 is acceptable as a safe mass which includes a full safety factor of 2.3, in lieu of previously proposed 96 kgs UO_2 per container (application dated 12/23/61).

Since certification will be obtained to guarantee the shipment will not be unloaded from the original vehicle and no other uranium shipments will be loaded on the vehicle, protection against commingling is evident in the case of LTL shipments.

In conclusion, we recommend approval of the proposed fuel rod shipping container for UO_2 with a maximum enrichment limited to 5% and mass limit determined from Figure 13, TID-7016, Rev. 1, which contains the appropriate 2.3 safety factor. We see no objection to LTL shipments where certification is obtained to guarantee against commingling.

Attachments:

1. Application dtd 5/10/62
2. Docket 70-36, 2 of 2

DLR:FL:CEB	DLR:FL:CEB
FKDurkan/vj	CDLuke
5/17/62	5/17/62

B-95