

*DL Luke*  
11-20-59

Iyall Johnson, Chief  
Licensing Branch

Project SNM-8  
Docket 70-36

Clifford K. Beck, Chief  
Hazards Evaluation Branch

MALLINCKRODT NUCLEAR CORPORATION

At the verbal request of Mr. Charles McCallum we have reviewed the November 13 telegram from Mallinckrodt, requesting an additional Ninety-day extension of temporary approval of shipping procedures for low enriched (approx. 4%) oxide.

In my memorandum to you dated December 30, 1958, we approved a single transfer of twelve drums of 4.2 enriched oxide from St. Louis to Lynchburg, Va., and stated "In the meantime, for future such shipments, we suggest that the applicant justify transportation procedures on the basis of accepted references, with which the company is undoubtedly familiar."

Subsequently you have granted additional extensions of temporary permission, on the basis of requests from Mallinckrodt as follows:

<u>Request date (TWX)</u>	<u>Extension</u>	<u>Your Approval (TWX)</u>
Feb. 11, 1959	30 days	Feb. 13, 1959
May 14, 1959	90 days	May 18, 1959
August 6, 1959	90 days	August 12, 1959

We cannot approve the November 13 request of Mallinckrodt, for two reasons. First, Mallinckrodt has not submitted shipping procedures which are consistent with acceptable criteria - the company has never replied to the request outlined in some detail in my memorandum to you dated April 27, 1959. Second, the Mallinckrodt proposal is for LCL or FCT shipments, and while the applicant's shipments are for a maximum of twelve drums, there is no assurance that the carrier will not load other special nuclear material on the same vehicle, or assemble the shipment with other material at points of transshipment or delivery.

*12 drums x L.S. Mac = 1.2  
= 14.4 kg U-235 Tot.*

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