

July 1/1963  
L. J. Field

UNITED STATES GOVERNMENT

# Memorandum

TO : Donald A. Nussbaumer, Chief  
Source & Special Nuclear Materials Branch, DLR  
DATE: July 2, 1963

FROM : *T. G. McCreless, Jr.*  
T. G. McCreless, Jr., Acting Chief  
Criticality Evaluation Branch, DLR

SUBJECT: MARTIN COMPANY, DOCKET 70-58, APPLICATION DATED JUNE 24, 1963

We have reviewed the subject application requesting use of shipping containers intended for the shipment of Pathfinder fuel elements. No more than 6 containers will be in any one shipment. Each container is designed to hold a maximum of 14 Pathfinder superheater fuel elements. Each element contains approximately 120 grams of U-235.

The applicant has stated that shipments will be made by railway express or exclusive van. We can not conclude that the use of railway express will prevent commingling with other special nuclear material unless written certification as described in Section 71.66(a)(3) is obtained from a responsible agent acting for the Railway Express Agency.

The applicant has, however, demonstrated through interaction calculations that 12 such containers in a planar array are safe. We agree and recommend approval of the proposed procedures subject to our above comments on the use of railway express and the adequacy of the structural integrity.

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Donald A. Mussbaumer, Chief  
Source & Special Nuclear Materials Branch, DLR

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OFFICE ▶	DLR:CEB					
SURNAME ▶	<i>T. G. McCreless</i> McCreless:bar					
DATE ▶	7/2/63					