

Lauterbach

UNITED STATES GOVERNMENT

Memorandum

TO : Donald A. Nussbaumer, Chief
Source & Special Nuclear Materials Branch
Division of Materials Licensing

FROM : Charles D. Luke, Chief *CDL*
Criticality Branch
Division of Materials Licensing

DATE: DEC 15 1965

SUBJECT: MARTIN COMPANY, DOCKET NO. 70-58, APPLICATION DATED DECEMBER 1, 1965

DML:CB:TGM

We have reviewed the subject application for the shipment of MH-1A fuel elements.

Fuel elements have an effective diameter of 7.65 inches and an active material length of 36 inches. An element is comprised of 10⁴ fuel tubes and contains a maximum of 4.27 kg U-235 as U(< 5 w/o U-235) O₂ pellets.

Exclusive use shipments are to be restricted to 18 fuel assemblies with each element separately packaged. The container consists of a 10-inch diameter Schedule 20 pipe welded to a 24 square carbon steel base plate. Containers are to be positioned vertically in two rows of nine containers each, with the containers on 36-inch centers.

The applicant has based the safety of the array on a fixed 36-inch spacing of units. Provided this spacing is maintained, the nuclear safety of the proposed shipment would be assured even though accidental moderation was experienced. However, Chris Beck has informed us that the described tie-downs are inadequate to assure this spacing in the event of an accident. We recommend, therefore, that the subject request be denied.



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