

Lauterbach

UNITED STATES GOVERNMENT

Memorandum

TO : Donald A. Nussbaumer, Chief, Source and
Special Nuclear Materials Branch, DML

FROM : Charles D. Luke, Chief
Criticality Branch, DML

SUBJECT: MARTIN COMPANY, DOCKET NO. 70-58,
APPLICATIONS DATED DECEMBER 1 AND 3, 1965

DATE: December 16, 1965

DML:CB:TGM

The subject applications supplement their renewal application. These submissions satisfactorily resolve the questions that we raised in our memoranda of September 20 and October 18, 1965.

The storage of contaminated air filters will be restricted to isolated batches of 350 g of contained U-235. (Uranium-235 values are established by dry weight differential and by uranium assay of material in the particular system).

The use of the evaporator for the concentration of liquid radioactive waste has been deleted.

The nuclear safety control limit for UO₂ powder as used in fuel preparation has been reduced to 350 g U-235/batch. For uranium oxide-metal oxide component fabrication the control limits have been established as 350 g U-235 for operations involving powder and for intentionally wet operations and as 1 kg U-235 with an imposed geometry control for normally dry operations.

Adequate controls have been established to assure that accidental criticality will not occur during Process K-acid cleaning operations for low enriched tubular fuel elements.

The Martin Company has provided an additional specification on the maximum fuel concentration per unit length for material within an in-process storage box and has provided augmenting information to establish the validity of their value of k_{eff} .

We have no further objection to the request for license renewal as amended and, therefore, recommend approval.

AL/208

