UNITED STATES GOVERNMENT

Memorandum

TO : Donald A. Nussbaumer, Chief   DATE: August 9, 1963
Source & Special Nuclear Materials Branch, DLR

FROM : Charles D. Luke, Chief
Criticality Evaluation Branch, DLR

SUBJECT: MARTIN COMPANY, DOCKET NO. 70-58, LETTER DATED JULY 30, 1963

SYMBOL: DLR:TGM

We have reviewed the subject letter and attachment thereto
and have determined that the letter from REA Express is not
adequate evidence of compliance with the provisions of sub-
paragraph 71.66(a)(3).

We would, however, re-evaluate the proposed LCL shipment pro-
vided that Martin Company obtain and submit for our review a
written certificate from REA Express describing the general
route to be followed and specifying that:

> "The Martin Company shipment will not be placed in any
> vehicle containing other special nuclear material, or
> flammable or explosive cargo, nor at any time during
> loading, transhipment or delivery closer than 20 feet
> from such material."

The written certificate from REA Express should include the
administrative procedures to insure that the requirements are
communicated to and understood by the personnel involved on
all carriers and at all terminals, and that there will be a
person on every carrier and at every terminal responsible for
assuring that the shipment is controlled in accordance with
the above certificate.

Martin Company proposes that each shipment comprise a maximum
of six packages, each 22.5 inches diameter x 90 inches long
and containing 14 fuel elements. We have determined that the
six packages would be safe in any arrangement under accident
conditions (10% reduction in any edge-to-edge spacing of the
inner containers).

We believe the solid angle calculations of Martin Company are
in error because of the improper equation on p. B 3. Conse-
quently, we request that Martin Company recompute the maximum
number of damaged containers in an array. We will be pleased
to assist the applicant in this determination.