

MAY 7 1971

Aerojet Nuclear Systems Company
ATTN: Mr. Barry Breindel
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Distribution:
Docket File
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RLStevenson, DML
F. Rinaldi, DML (2)

Gentlemen:

This is in reference to your petition dated February 18, 1971 to the Department of Transportation (DOT) for a special permit for the shipment of the URIPS-8 radioisotope thermoelectric generator. As requested by DOT, we have reviewed this generator against the applicable requirements of 10 CFR 71.

As discussed during the telephone conversation between F. Rinaldi and B. Breindel, we need the following in order to complete our review of the structural aspects of your application:

1. Determination of the maximum stress imposed on the bolts that retain the top cover, during the hypothetical accident conditions.
2. The use of test data from ORNL casks, as used in your report, should be properly substantiated by comparing the design features of the experimental and actual cask.
3. Engineering calculations showing the adequacy of the bottom plates on the legs in withstanding the stresses developed under the tensile force of 27.3 kips for the tie-down condition.
4. Investigation of the effect of the 27.3 kips force on the welds connecting each leg to the shell.

Sincerely,

Original Signed by
Donald A. Nussbaumer

Donald A. Nussbaumer, Chief
Fuel Fabrication and
Transportation Branch
Division of Materials Licensing

cc: Mr. Alfred W. Grella
Department of Transportation

DML

DML

DML

F. Rinaldi/vh RLStevenson DANussbaumer

bcc: R. H. Odegaarden, DML5/7/71 5/ 7/1 5/ 7/1