

DOCKET NO. 70-123
File by

CLEVITE RESEARCH CENTER

DIVISION OF CLEVITE CORPORATION

540 EAST 105TH STREET

CLEVELAND 8, OHIO



November 14, 1958

TELEPHONE - ULSTER 1-6500
CABLE ADDRESS - CLESEARCH

U. S. Atomic Energy Commission
Division of Licensing and Regulation
Washington 25, D. C.

Attention: Mr. J. C. Delaney

Reference: Special Nuclear Materials License No. SNM 183 as
amended September 25, 1958

Gentlemen:

We wish to request an amendment to the subject license for a change in the shipping procedure of the finished product as described in our standard procedure, No. CR 17-A. Instead of shipping a maximum of 36 fuel elements, 6 to a box, in 6 boxes as described in this procedure we plan to ship a total of 41 fuel elements in 7 boxes in a single shipment. The shipping boxes to be used are shown in the enclosed print, D-346. These boxes provide for a positive separation of 3 inches between each fuel element in a single box or those in adjacent boxes. Prior to being placed in the box each fuel element is placed in a polyethylene bag which is then heat sealed.

The maximum amount of U-235 to be shipped in a single shipment is 5453 grams contained in 41 elements with a maximum of 133 grams of U-235 per element.

With the spacing arrangements provided in these containers, the calculated average U-235 density over the 23.5 inch actual fuel length is less than 9 grams per 1000 cubic centimeters.

Under these circumstances, we believe that the shipment can be made safely since it would require an accidental situation which would cause both the elements to be assembled into a more compact arrangement and to be flooded with a moderator before criticality would occur.

As stated in our original procedure, we plan to ship these elements via Railway Express, Armed Surveillance Service.

We hope that the information provided above is sufficient for you to evaluate and grant our request for the revised shipping procedure.

Very truly yours,

D. J. Berger

D. J. Berger
Executive Assistant
Mechanical Research Div.

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