

Dr. Luke

Project: S-8
Docket: 70-35

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FEB 8 1962

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We have reviewed the subject application and recommend approval insofar as criticality hazard is concerned. The following considerations apply to this shipment of UO_2 for Japan:

- a. Unit quantities are based on optimum moderation and applied a safety factor of 2.5.
- b. The inner container is a 15-gallon drum held within an enclosed $42" \times 42" \times 44"$ angle iron birdcage (we understand Mr. Christian Beck is evaluating the integrity of the packages).
- c. Two rows of eleven birdcages each will be placed in planar array on the truck, substantially covering the floor of the truck.
- d. We agree with United Nuclear's solid angle calculations (1.09 versus an allowable 2.6 steradians).
- e. This will be an "exclusive use of vehicle" shipment.

DL&R:FL:CEB

C. DLuke/vj

2/8/62

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