

Docket 70-36
Project S-8
July 2, 1963

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UNITED NUCLEAR CORPORATION - DOCKET 70-36, JANUARY 25, AND
JUNE 7, 17, & 27, 1963

SYMBOL: DLR:PHO

We have reviewed the additional information contained in the applicant's TWX of June 27, 1963. Delineated below are our comments and the additional information that we will need to complete our nuclear safety review.

The applicant has stated he will isolate his storage array in pellet plant from other uranium by 7.5 feet. This is not in accordance with our criteria which is specified under Section III of "Information for Renewal", which the applicant already received. We suggest this is pointed out to the applicant, and if he can not isolate the array, he should submit an analysis to demonstrate the nuclear safety of the array.

The applicant should confirm he will adjust the mass limits based on Table XIV, K-1019, Rev. 5, in accordance with the density correction criteria of TID-7016, Rev. 1, p. 13, or demonstrate that container volumes during processing operations insure nuclear safety.

We have been unable to independently check the applicant's safe mass and volume limits based on limited moderation of 50 percent void space. However, we agree that the two liter containers are safe for storage of the subject material. Since the correct use of the density correction criteria is important to carrying out safe operations at the Hematite Plant (ref. application dated March 2, 1960), we recommend the applicant be required to submit a detailed sample calculation demonstrating the use of the criteria.

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