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777-5361

February 22, 1965

NLS-108

Mr. Donald A. Nussbaumer, Chief
Source & Special Nuclear Materials Branch
Division of Materials Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

Subject: Additional Outside Storage at Fuels Recovery Plant
Amendment 5 to SNM 777

Dear Mr. Nussbaumer:

Please amend SNM 777 to allow for the use of an area 48' X 198' south of the Fuels Recovery Plant within the present fenced-in area as a storage area for uranium or uranium-bearing material in solid form. Procedures currently approved will be used for receipt and verification. These non-liquid materials will be packaged as safe mass units up to 350 grams of U-235 in 6" diameter or smaller pipe, centered in a 55 gallon drum. Drums will be stored lying on their sides one high, end-to-end. The spacing between central pipes will be as provided by the 55-gallon drum outer container. A conservative value for k effective of 0.72 (Reference Figure 4, K-1317, "Self Consistent Criteria for Evaluation of Neutron Interaction") will be used for interaction calculations. The solid angle subtended by any one pipe would thus be 1.33 steradians with an allowed value of 1.8 steradians.

This area will be set apart and designated as a special storage area through the use of rope barriers and appropriate signs. A clear space of at least 10 feet around any emergency exit from the building will be maintained and escape routes from building to fence exit will not be blocked.

An additional radiation monitor to be designated as RM-7 will be installed outside of the building wall, southeast corner of the building next to the utility room. This monitor will be the same as those now in use and approved under our present license.

Very truly yours,

D. F. Cronin

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D. F. Cronin
Director of Licensing

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ACKNOWLEDGED

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