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Project SNM-8
Eocket 70-36

Memo L J
From OCB

Subject: Mullinckrodt Chemical Works

We have reviewed the letter of December 10, 1958, from Mullinckrodt Chemical Works, requesting amendment of ~~the~~ License No SNM-33 to permit pelleting operations on uranium enriched to 5% U-235 in a new facility at Hematite, Missouri.

→ Limited safe masses as specified in Report K-1019, Part 4 (deleted). Batch sizes throughout the operations will not exceed

Neither the diameter ^{or} capacity of the storage hopper ^{located above} the feed hopper of the pelleting press is given. Either the diameter should be not over the limited safe dimension - or positive means should be in effect to insure against more than a limited safe mass in the hopper at any time.

Evidently accumulations are permitted at several points in the process. After drying, drums, ^{each} containing a limited safe quantity of material are stored in racks which provide a 2' edge to edge spacing and a vertical spacing of 2' top to bottom. We believe this geometry will satisfy interaction criteria.

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Under emergency conditions

~~At the furnace,~~ more than limited safe amounts of material may be accumulated, ^{at the furnace area,} in 2" layers spaced 2' apart. Also, material discharged from the high temperature sintering furnaces is placed on a transfer cart ^{in unspecified amounts and spacing.} We request that where more than one limited safe batch are being accumulated, interaction criteria such as those presented in K-1019 should be satisfied.

