

C O L L E C T  
X

AUG 12 1964

USAEC, GERMANTOWN, MARYLAND  
DONALD A. NUSSBAUMER, CHIEF  
SOURCE & SPECIAL NUCLEAR MATERIALS BRANCH  
DIVISION OF MATERIALS LICENSING

MARTIN COMPANY  
NUCLEAR DIVISION  
BALTIMORE, MARYLAND 21203

ATTENTION: MR. C. W. KELLER  
NUCLEAR MATERIALS MANAGER

THIS REFERS TO YOUR TELEGRAM DATED JULY 20, 1964 SUPPLYING ADDITIONAL  
INFORMATION REGARDING YOUR REQUEST TO AMEND LICENSE SNM-53 TO INCLUDE  
URANIUM PARTICLE COATING, TUBE EXTRUSION AND HYDROSTATIC PRESSING.

WE CAN NOT AGREE WITH YOUR STATEMENT THAT URANIUM PARTICLE COATING  
BE TERMED AS A "DRY" OPERATION IN THAT YOU ARE INTENTIONALLY INTRODUCING  
HYDROGENOUS MATERIALS DURING THE OPERATION. IN FACT, IT APPEARS THAT  
THERE MAY BE SUFFICIENT HYDROGENOUS MATERIAL PRESENT TO ACT AS AN OPTIMUM  
MODERATOR SHOULD THE HEAT LAMPS FAIL TO PERFORM THEIR FUNCTION. THEREFORE,  
WE REQUEST THAT YOU EITHER: (1) LIMIT THE MAXIMUM URANIUM-235 WITHIN THE  
COATING OPERATION TO THE ALWAYS SAFE MASS OF 350 GRAMS: OR (2) PROVIDE A  
DETAILED NUCLEAR SAFETY ANALYSIS DEMONSTRATING THE SAFETY OF THE PROPOSED  
OPERATIONS WHILE CONSIDERING THE URANIUM IN OPTIMUM GEOMETRY OBTAINABLE  
WITHIN THE PROCESS AND WHILE OPTIMUMLY MODERATED. REFERENCE DML:KEL 70-58

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OFFICE ▶	DML	DML	CB			
SURNAME ▶	<i>X.S.L.</i> KLauterbach:jb	<i>DN</i> DNussbaumer	<i>Dem</i> <i>ES 2</i>			
DATE ▶	8/12/64	8/12/64	8/12/64			