

C O L L E C T
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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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DATE ▶	8/12/64	8/12/64	8/12/64			