

INCOMING TELEGRAM

C-233

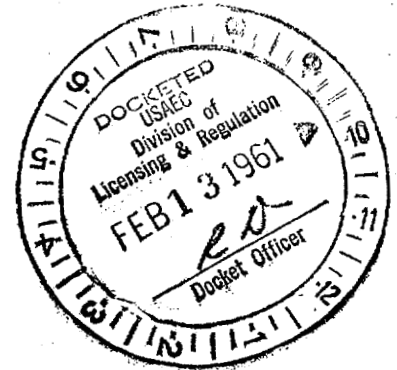
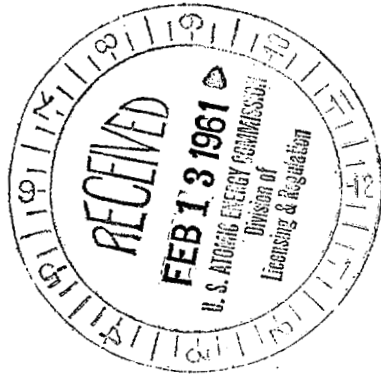
U.S. ATOMIC ENERGY COMM.

DOCKET NO.

70-139

File 4

1961 FEB 10 PM 6 19



ACA009 617P EST FEB 10 61 PB328 BE560

B ALA154 LONG PD WUX PLAINVILLE MASS 10 513P EST

JOHN LANE U S ATOMIC ENERGY COMM

DIV OF LICENSING AND REGULATIONS GERMANTOWN MD

REF: DOCKET 70-139 SNM-185 WITH REFERENCE TO YOUR TELEPHONE CALL OF 2/10/61. THE FOLLOWING ADDITIONAL INFORMATION SHOULD BE INCORPORATED INTO OUR REQUEST FOR LICENSE AMENDMENT DATED 12/23/60: CHARGE WEIGHT OF 4.6 KG. U-235 FALLS WELL UNDER SAFE MASS LIMIT OF 11 KG U-235 (REF TID-7016, TABLE 1, PAGE 7) FOR THICK WATER REFLECTOR THIS WOULD ASSURE A SAFE CONDITION IN THE VENT OF A COOLING COIL RUPTURE IN THE MELTING FURNACE HOTE ROLLED PLATES WILL BE SEPARATED BY 12" EDGE-EDGE FURING ALL SUBSEQUENT OPERATIONS OR STORAGE PRIOR TO VACUUM ANNEALING (REF TID-7016, PAGE 13, RULES FOR INTERACTING UNITS, PAR 3) THE VACUUM ANNEALING OPERATION WILL BE OMITTED FROM THE PROCESS ALONG WITH THE FLASH PICKLING OPERATION AFTER THE SHEARING

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OPERATION, PLATES WILL BE DIVIDED INTO LOTS OF 6 PLATES MAXIMUM
(1320 GMS U-235) WHICH WILL BE SEPARATED BY AT LEAST 12" EDGE-EDGE
FROM EACH OTHER WHEN IN STORAGE OR TRANSIT, PLATES IN EACH
LOT WILL BE STACKED TO FORM A SLAB WHICH IS 342" THICK, TO
CONFORM WITH THE SAFE SLAB THICKNESS OF 0.7" FOR THICK WATER
REFLECTION (REF TID-7016 TABLE 4 PAGE 8) IN-PROCESS STORAGE
IS DONE IN A LOCKED, CAGED AREA UNDER CRITICALITY SUPERVISION
ROUTE CARDS AND PROCESS SHEETS WHICH TRAVEL WITH THE MATERIAL
SPECIFY THE CRITICALITY CONTROL LIMITS APPLICABLE TO EACH OPERATION
THE RESPONSIBILITY FOR ADHERING TO THESE LIMITS RESTS WITH
THE AREA SUPERVISOR WHO IN TURN IS MONITORED BY CRITICALITY
CONTROL PERSONNEL. THE DIMENSIONS OF THE TANK TO BE USED FOR
PICKLING OF THE HOT ROTLED PLATES ARE 12" WIDE BY 84" LONG
BY 12" HIGH THE VOLUME OF SOLUTION TO BE USED IS 9 GALLONS

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SHIPMENT OF FINISHED PIECES TO M&C NUCLEAR CORPORATION WILL
BE MADE IN THE SAME CONTAINER WHICH IS TO BE USED FOR FINAL
SHIPMENT. A DRAWING OF THE CONTAINER WILL BE SENT UNDER SEPARATE
COVER. THERE WILL BE NO COMMINGLING OF URANIUM DURING SHIPMENT
TO AND FROM M&C NUCLEAR. A LETTER WILL BE SENT CONFIRMING THE
ABOVE STATEMENTS WE WOULD APPRECIATE YOUR PROMPT ATTENTION
TO THIS MATTER

ENGELHARD INDUSTRIES D E MAKEPEACE DIVN N M WEISS

70-139 SNM-185 2/10/61 12/23/60 4.6 U-235 11 U-235 TID-7016
1 7 12" TID-7016 13 3 6 1320 U-235 12" 342" 0 7" TID-7016 4
8 12" 84" 12" 9.

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