

50-39-200  
~~70-195 case~~

FOLLOWING TELEGRAM FROM CURTISS-WRIGHT CORPORATION AS READ OVER TELEPHONE BY DR. ROBERTS.

JANUARY 31, 1958

U S ATOMIC ENERGY COMMISSION  
DIVISION OF LICENSING AND REGULATION  
WASHINGTON, D. C.

ATTENTION: LYALL JOHNSON, LICENSING BRANCH

APPLICATION IS HEREBY MADE BY RESEARCH DIVISION CURTISS WRIGHT CORPORATION TO RECEIVE AND STORE 4.5 KILOGRAMS OF U-235 CONTAINED IN 32 MODIFIED MTR TYPE FUEL ELEMENTS. MAXIMUM U-235 CONTENT PER TEN-PLATE ELEMENT IS 170 GRAMS. FUEL ELEMENTS HAVE BEEN FABRICATED BY SYLVANIA-CORNING NUCLEAR CORPORATION FROM HIGHLY ENRICHED URANIUM ALLOCATED TO CURTISS WRIGHT CORPORATION UNDER CPRR-11 DATED MAY 29, 1957. SHIPMENT VIA CURTISS WRIGHT TRUCK. ELEMENTS SHIPPED AND STORED IN SIX STANDARD SYLOR CONTAINERS, FIVE OR SIX ELEMENTS PER CONTAINER. CONTAINER OUTSIDE DIMENSION 15 1/2" x 19 1/2" x 66 1/2" HEAVY STEEL CONSTRUCTION AND SECURED BY FOUR KEYED PADLOCKS. ELEMENTS HELD IN TWO BY THREE ARRAYS IN CENTER OF CONTAINER. MINIMUM SEPARATION OF ARRAYS OF SIX IN STACKED CONTAINERS IS 12" SIDE BY SIDE 30" END TO END AND 8" TOP TO BOTTOM. ELEMENTS STORED IN LOCKED CONTAINERS IN UNUSED ROOM AT CURTISS WRIGHT RADIOACTIVE MATERIALS LABORATORY, QUEHANNA, PA. ONLY DOOR TO ROOM IS NORMALLY KEPT PADLOCKED. ONLY KEY TO CONTAINERS AND ONLY KEY TO ROOM IN POSSESSION OF M. T. BEAM OF THIS ORGANIZATION. WHEN BUILDING IS UNOCCUPIED ALL OUTSIDE DOORS AND GATE THROUGH SECURITY FENCE ARE LOCKED. THESE KEYS CONTROLLED BY CURTISS WRIGHT SECURITY FORCE. APPLICATION IS ALSO MADE TO PERFORM A SINGLE PARTIAL LOADING OF CURTISS WRIGHT RESEARCH REACTOR IN DRY POOL ON FEBRUARY 3 OR 4. PROCESS TO BE PHOTOGRAPHED FOR INCLUSION IN AEC SPONSORED FILM "RESEARCH REACTORS -- USA" FOR GENEVA CONFERENCE. OPERATION UNDER DIRECTION OF DR. D. GLEN BOYER USAEC DIVISION OF REACTOR DEVELOPMENT.

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PROPOSE TO LOAD 1.26 KILOGRAMS U-235 IN THIRTEEN ELEMENTS. THIS CONSTITUTES LESS THAN 50% OF MINIMUM COLD CLEAN CRITICAL MASS WITH WATER MODERATOR U-235 CONTENT IN GRAMS PER ELEMENT AS FOLLOWS: TWO EACH 34 GRAMS, TWO EACH 68 GRAMS, SIX EACH 102 GRAMS TWO EACH 136 GRAMS, ONE 170 GRAMS. BOTH WATER INLET VALVES TO POOL WILL BE PADLOCKED IN CLOSED POSITION WHILE ELEMENTS ARE IN POOL. FUEL ELEMENT ARRAY TO BE SURROUNDED BY HOLLOW ALUMINUM CANS TO SIMULATE GRAPHITE REFLECTOR ELEMENTS CANNED IN ALUMINUM. FULL DETAILS TO FOLLOW IN NOTARIZED LETTER IN QUADRUPLICATE.

CURTISS WRIGHT CORPORATION

HS 2/3/58