

2 pgs

Docket 70-36
Project S-8

Donald A. Nussbaumer, Chief
Source & Special Nuclear Materials Branch, DLR

January 30, 1964

Charles D. Luke, Chief
Criticality Evaluation Branch, DLR

UNITED NUCLEAR CORPORATION, CHEMICALS DIVISION - AMENDMENT TO
MANUFACTURE AND STORE 6.5 KG URANIUM BILLETS - DOCKET NO. 70-36
JANUARY 28, 1964

Reference: Ltr, UNC, dtd 12/4/63
Memo, Luke to Nussbaumer, dtd 1/28/64

SYMBOL: DLR:RHO

United Nuclear Corporation has satisfactorily resolved the questions raised in our memorandum of January 28, 1964. We recommend approval of the applicant's letters of December 4, 1963, and January 28, 1964, to manufacture up to 6.5 kg uranium biscuits and storage in arrays numbered 1, 2, 3, and 5 (excluding array numbered 4), as shown in Figure 20 of the applicant's letter dated July 15, 1963. However, it should be made clear to the applicant that this approval does not authorize any change in his currently approved shipping containers or procedures.

DLR DLR

Odegaarden:bar CDLuke

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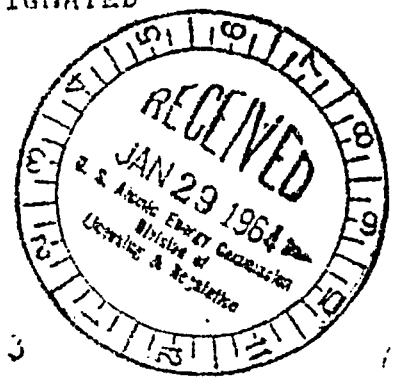
1964 JAN 28 PM 4 33

WFO05 416 EST JAN 28 64 SPOAG17 3A157 U.S. ATOMIC ENERGY COMM.
S LLS15 PD WIK CT LG IS MO 23 244P COT TWX UNIT

DONALD HURSTADDER, CARE ASAC DIV OF LICENSING & REGULATION

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SUBJECT; SHM-33. REFERENCE: (1) OUR APPLICATION 12/4/64, LARGER
URANIUM METAL BISCUITS (2) TELEPHONE CONVERSATION 1/27/64,
L. SWALLOW, R. ODEGAARDEN. THE FOLLOWING IS AN ANSWER TO MR
ODEGAARDEN'S QUESTIONS OF THE 1/27/64 TELECON; (1) METAL STORAGE
CONTAINER MASS LIMIT. METAL STORAGE WILL BE LIMITED TO A MAXIMUM
OF 10 KGS U-235 PER CONTAINER. (2) NO WATER LINES TO GLOVE
BOX 240-2-23 (BOMB UNLOADING). AIR EXHAUST DUCT FROM GLOVE
BOX TIES IN WITH AIR EXHAUST DUCT FROM BOMB FURNACE 240-2-15.
240-2-15 IS LOWER THAN 240-2-23; ANY WATER ENTERING EXHAUST
SYSTEM WILL DRAIN TO 240-2-15 AND THENCE TO FLOOR BEFORE ENTERING
240-2-23. SLAG DRUMS WILL BE LIMITED TO MAXIMUM OF 280 GRAMS
U-235. THE DRUMS WILL BE STORED IN THE OUTSIDE AREAS DESIGNATED



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1. "LIMITS OF SPECIAL NUCLEAR MATERIALS". A 2-FOOT SURFACE TO SURFACE SPACING WILL BE MAINTAINED IN A SINGLE LAYER ARRAY. (3) METAL STORAGE WILL BE LIMITED TO SHELVES NOS. 1,2,3,5 AS PER FIGURE 20, INTERACTION OF OVERHEAD STORAGE TANKS 240-2-1 THROUGH 240-2-6 TO BOTTLE ON TOP SHELF IS 0.15 STEARADIANS. "AKIND". TOTAL SOLID ANGLE FOR BOTTLE ON SHELF NO. 3 IS THEREFORE 2.27 STEARADIANS. THIS INCLUDES THE SOLID ANGLE CONTRIBUTED BY FURNACES 240-2-31, 240-2-31A, COOLER 240-2-32 AND MUFFLE TUBE IN TRANSFER CART. (4) SHIPPING CONTAINER LICENSE WILL BE DISCUSSED AT A LATER DATE

UNITED NUCLEAR CORP L SWALLOW

SIM-33 1 12/4/64 2 1/27/64 1/27/64 1 10 U-235 2 240-2-23 240-2-15

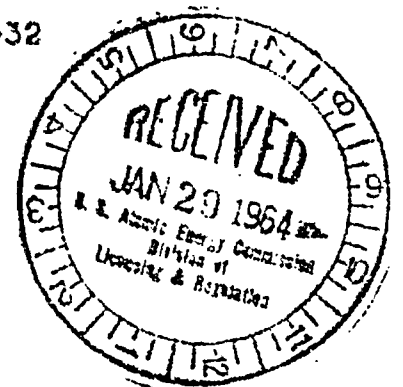
240-2-15 240-2-23 240-2-15 240-2-23 280 U-235 502.4 2 3 1,2,3,5

20 240-2-1 240-2-6 0.15 3 2.27 240-2-31 240-2-31A 240-2-32

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(07).

INCOMING TELEGRAM



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