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78-36

SNA-33, Amendment No. 2

Attention: Mr. L. J. Swallow
Quality Control Manager

gentle on:

Based on the supplemental information submitted in your telegrams dated June 10 and June 14, 1955, concerning floor storage of special nuclear materials in areas described in Sections 304 and 401 of your license application, Item 8 of Special Nuclear Material License No. SNM-33 is hereby amended to read as specified below and Condition 12 is hereby deleted.

"6. For use in accordance with the procedures described in the licensee's application filed July 15, 1963, insofar as it pertains to the Emergency Plan, and applications filed January 22, January 25, May 21, June 10 and June 14, 1965."

In order to maintain this application in its consolidated form, please submit within thirty (30) days from the date of this amendment, a revised page 42 of 44, Section 304, Paragraph 2 and a revised page 4 of 13, Section 401, Subparagraph 401.1.7 incorporating the supplemental information covering moderation control and administrative procedures for floor storage of special nuclear material as described in your applications dated June 10 and June 14, 1965.

H. J. McAlister, 9700

D. George. 221

N. Jenkins, NL

C. Luke. 34

State Senator, New York State Chief of

Source and Special Nuclear Materials Branch
Division of Materials Licensing

sent CO. III
- 6/18/65

G-8

ABC 6-1-11

THIS IS UNITED NUCLEAR CORP. HEMATITE, MO. 1955 JUN 10 PM 2 16

DONALD NUSSBAUMER

U.S. ATOMIC ENERGY COMM.
TWX UNIT

USAEC - DIVISION OF MATERIALS LICENSING

WASHINGTON, D. C.

SUBJECT\ SNM-33

BOOKET NO. 70-36
For Div of Compliance

U.S. ATOMIC ENERGY COMM.
REGULATORY
MAIL SECTION

1955 JUN 10 PM 3 30

RECEIVED

REFERENCE\ TELECON 6/9/65 -- YOUR LETTER 6/7/65

IT IS REQUESTED THAT CONDITION 12 OF SNM-33 BE DELETED IN ITS ENTIRETY
BASED ON THE FOLLOWING\

1. PARAGRAPH 401.1.7 OF "GENERAL INFORMATION AND PROCEDURES APPLICABLE TO THE HANDLING OF SPECIAL NUCLEAR MATERIAL" DEFINES MATERIAL AND SPACING REQUIREMENTS INVOLVED IN PROCESS STORAGE. THIS MATERIAL IS DRY UNMODERATED URANIUM COMPOUNDS WITH EXCEPTION OF "AGGLOMERATED PRESS FEED" PREPARED AS DESCRIBED IN PARAGRAPH 401.1.1.
2. "AGGOMERATED PRESS FEED" CONTAINS HYDROGENEOUS BINDERS AND DIE LUBRICANTS. SUCH BINDERS AND LUBRICANTS CONSTITUTE FOUR WEIGHT PERCENT OF THE MATERIAL.

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copy sent CO: III
6-14-65 ABC-rt

RBC 6-16-65

- (e) (S)
3. H/U235 RATIO AND CORRESPONDING SAFE MASS AND LUBRICANT EQUIVALENT TO WATER IS\

2

ENRICHMENT	H	SAFE MASS	MAXIMUM KG
PCT	-----	KG, UO2	UO2 PER DRUM
	U-235		
-----	-----	-----	-----
1	125	7950	114
2	62	455	114
3	41	233	46
4	31	176	27
5	25	141	18.5
6	20	114	14
6.5	19	104	12

4. SAFE MASS LISTED IN ABOVE TABLE IS DETERMINED FROM FIGURE 1 AND 21 OF TID-7016, REV. 1. KG UO2 PER DRUM IS SAFE MASS LIMIT FOR OPTIMUM MODERATION ALREADY AUTHORIZED BY SNM-33.

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5. MOVEMENT OF DRUMS IN THE PROCESS AREA IS DONE BY HAND CART.

EACH DRUM IS HEAVY ENOUGH SUCH THAT IF HAND CART SHOULD INADVERTENTLY STRIKE DRUM IN STORAGE ON FLOOR IT COULD NOT PUSH MORE THAN ONE OR TWO DRUMS TOGETHER.

6. COMPARING MAXIMUM WEIGHT PER DRUM WITH SAFE MASS DETERMINED FOR THE LIMITED MODERATION RESULTING FROM BINDERS AND LUBRICANTS, 4 TO 8 DRUMS \RESPECTIVELY AS ENRICHMENT INCREASES FROM 2 TO 6.5 PCT\ WOULD HAVE TO BE PUSHED TOGETHER BEFORE THEIR CONTENTS WOULD EQUAL THE SAFE MASS.

7. IF FORK TRUCK OR OTHER POWERED VEHICLE IS REQUIRED FOR MAINTENANCE PURPOSES, ANY DRUMS IN STORAGE ARE REMOVED PRIOR TO ENTRY OF THE VEHICLE.

8. FLOOR STORAGE AS DESCRIBED IN SECTION 401 OF THE MANUAL WAS PREVIOUSLY APPROVED BY YOUR LETTER OF APRIL 15, 1964.

L. J. SWALLOW

UNC HEMATITE

TIME 1\20 P.M.

END PLS ACK

REC ONE TKS DA

2026

1964 APR 15 10 10 AM
DA

DOCKET NO. 70-36

THIS IS UNITED NUCLEAR CORP HEMATITE, MO

1965 JUN 9

For Dir of Comp
JUN 10 09

TO\ DONALD A. NUSSBAUMER

USAEC,

DIVISION OF MATERIALS LICENSING

WASHINGTON, D.C.

U.S. ATOMIC ENERGY COMM.
TWX UNIT

U.S. ATOMIC ENERGY COMM.
REGULATORY
MAIL SECTION

1965 JUN 14 PM 11 50

RECEIVED

SUBJECT\ SNM-33

REFERENCE\ OUR TWX 6/10/65 DELETION OF CONDITION 12 OF SNM-33.

PLEASE ADD THE FOLLOWING TO THE REFERENCED TWX\

1. THE REFERENCED TWX APPLIES TO THE BLENDING ROOM DESCRIBED IN SECTION 4304 AS WELL AS THE PELLET PLANT DESCRIBED IN SECTION 401 OF "GENERAL INFORMATION AND PROCEDURES APPLICABLE TO THE HANDLING OF SPECIAL NUCLEAR MATERIAL".
2. THE DRUM LIDS REMAIN ON THE DRUMS AT ALL TIMES WHILE IN STORAGE.
3. APPROVED STORAGE POSITIONS ARE IDENTIFIED BY PAINTED YELLOW SPOTS ON THE FLOOR.

L. J. SWALLOW

UNC HEMATITE

CORRECTION UNDER 1. LINE 2 SECTION 304

TIME 9-10-AM END

copy sent 6/16/65 ABC-ht

**UNITED NUCLEAR
CORPORATION**

JULY 16, 1965

U.S. ATOMIC ENERGY COMM.
REGULATORY
MAIL SECTION

1965 JUL 15 PM 11 05

RECEIVED

MR. DONALD A. NUSSBAUMER
U. S. ATOMIC ENERGY COMMISSION
DIVISION OF LICENSING AND REGULATION
ST. ELMO AND NORFOLK STREETS
BETHESDA, MARYLAND

SUBJECT: SNM-33

REFERENCE: YOUR LETTERS OF JUNE 16, 1965, DML:RLL 70-36, SNM-33, AMENDMENT
No. 2 AND JUNE 7, 1965, DML:RLL 70-36, SNM-33, AMENDMENT No. 1

For Div of Compliance

GENTLEMEN:

THIS IS TO ACKNOWLEDGE YOUR REFERENCED LETTERS AND PROVIDE THE INFORMATION
REQUESTED THEREIN. ACCORDINGLY, PLEASE FIND ENCLOSED SEVEN COPIES EACH OF
THE FOLLOWING:

1. PAGE 42 OF SECTION 300 AS REVISED JULY 16, 1965. THIS INCORPORATES
REQUESTED REVISIONS TO SECTION 304, PARAGRAPH 2.
2. PAGE 4 OF SECTION 500 AS REVISED JULY 16, 1965. THIS INCORPORATES
REQUESTED REVISIONS TO PARAGRAPH 502.4.
3. PAGE 6 AND 6A OF SECTION 401 AS REVISED JULY 16, 1965. THIS INCORPORATES
REQUESTED REVISIONS TO PARAGRAPH 401.1.8. PLEASE NOTE THAT THESE REVISIONS
WERE INCORPORATED INTO PARAGRAPH 401.1.8 RATHER THAN 401.1.7 IN ORDER TO
MAINTAIN A CONSISTENT FORMAT.
4. TITLE PAGE TO THE MANUAL "GENERAL INFORMATION AND PROCEDURES APPLICABLE TO
THE HANDLING OF SPECIAL NUCLEAR MATERIAL". THIS REFLECTS THE ABOVE LISTED
REVISIONS.

PLEASE INSERT THESE PAGES IN MANUAL "GENERAL INFORMATION AND PROCEDURES APPLICABLE
TO THE HANDLING OF SPECIAL NUCLEAR MATERIAL".

RESPECTFULLY YOURS,

L. J. Swallow

L. J. SWALLOW,
OPERATIONS CONTROL MANAGER

LJS:JB
AEC: 7

cc: MR. D. F. CRONIN
UNITED NUCLEAR CORPORATION - NEW HAVEN

copy sent
CO-III 7-22-65
RBC:pt

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COLLECT
XX

JUN 16 1965

USARC, GERMANTOWN, MARYLAND
DONALD A. HUSZBAUER, CHIEF
SOURCE AND SPECIAL NUCLEAR MATERIALS BRANCH
DIVISION OF MATERIALS LICENSING

UNITED NUCLEAR CORPORATION
CHEMICALS DIVISION
ROUTE 214
HEMATITE, MISSOURI

ATTENTION: MR. L. J. SMALLER
QUALITY CONTROL MANAGER

SPECIAL NUCLEAR MATERIAL LICENSE NO. 55N-35 AMENDED EFFECTIVE THIS DATE,
JUNE 16, 1965, TO DELETE CONDITION 12.

DEL:RL:70-38

DISTRIBUTION:

Doc. Rm.

Br. & Div. rfs

Compliance (2) ~~WORKS~~

Suppl.

H. J. McAlister, ORGO

D. George, ORGO

N. Douglas, HL

R. Layfield, ML

C. Luko, HL

State Health

Layfield/jc

cc: 111

1457

Copy sent CO: 111
RBC 202 6/18/65

RBC 6-18-65