1p82

S-8

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

June 1, 1964

Robert L. Stevenson, Acting Chief
Criticality Branch, DML

UNITED NUCLEAR CORPORATION - SHIPPING DILUTE SOLUTIONS - DOCKET NOS. 70-36, 70-371, AND 70-620, TELEGRAMS DATED MAY 26 & 27, 1964

SYMBOL: DML:RHO

UNC has requested a license amendment for all of its facilities to ship unlimited quantities of dilute solutions in 55-gallon drums (ICC 6J). The solution will not exceed 5 g U-235/l and total mass in each container will not exceed 800 g U-235.

In order to continue our review of this license amendment application, we recommend the following be sent to the applicant:

> "Please confirm that each container will independently be determined not to exceed the concentration and mass limits of your TWX dated May 26, 1964. A composite sample taken from six 55-gallon containers will not identify maximum concentrations and mass limits for individual containers."

DML
Odegaarden:bar
6/1/64

DML
CDLuke
6/ /64

B-199

THIS IS UNITED NUCLEAR [illegible] MAY 27, 1954

MR. DONALD A. [illegible], CHIEF

SOURCE & SPECIAL NUCLEAR MATERIALS BRANCH

DIVISION OF [illegible]

UNITED STATES ATOMIC ENERGY COMMISSION

WASHINGTON, D. C.

EXTRA

RE MY TWX OF MAY 25, 1954 - SHIPMENT OF URANIUM-BEARING SOLUTIONS

CORRECT FOURTH LINE OF ITEM NO. 6 TO READ AS FOLLOWS. . . OF NOT MORE THAN 2 GRAMS U-235 PER LITER OR 350 GRAMS PER CONTAINER. . .

HERBERT S. KALISH

COMMERICAL FUEL MANAGER

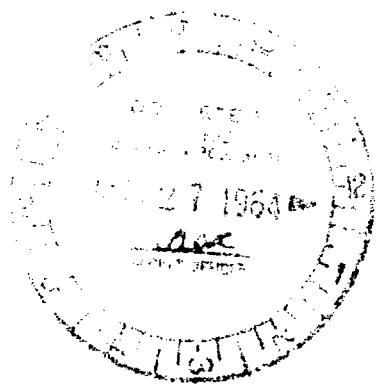
FUELS DIVISION

UNITED NUCLEAR CORPORATION

NEW HAVEN, CONN.

TIME L 9-50 AMO

RCD AT 27/1350Z DE HQS WASHDC TNT



TWX INCOMING DOCKET NO. 70-36, -371 & -820

1964 MAY [illegible] 504

EXTRA

U.S. ATOMIC ENERGY COMM.
TWX UNIT

THIS IS UNITED NUCLEAR CALLING MAY 26, 1964

MR. DONALD A. NUSSBAUMER, CHIEF
SOURCE & SPECIAL NUCLEAR MATERIALS BRANCH
DIVISION OF LIECENSING & REGULATION
UNITED STATES ATOMIC ENERGY COMMISSION
WASHINGTON, D. C.

UNITED NUCLEAR CORPORATION REQUESTS EXTENSION OF ITS LICENSES SNM-33, SNM-368 AND SNM-777 FOR ITS PLANTS AT HEMATITE, MISSOURI, NEW HAVEN, CONNECTICUT AND CHARLESTOWN, RHODE ISLAND, TO PERMIT SHIPMENT OF URANIUM-BEARING SOLUTIONS UNDER THE FOLLWOING CONDITIONS. . .

1. THE SOLUTIONS WILL INCLUDE PICKLE LIQUORS, ELUTRIATION SOLUTIONS, LABORATORY WASTES AND OTHER SOLUTIONS WITH U-235 CONCENTRATIONS LESS THAN 5 GRAMS PER LITER /H/X LESS THAN 5200/ PER 10 CFR, PART 71, PARAGRAPH 71.41 /B/ AND TOTAL CONTENT LESS THAN 800 GRAMS U-235 PER DRUM.

2. THE URANIUM CONTENT WILL BE DETERMINED BY TAKING A COMPOSITE CHEMICAL SAMPLE OF SIX 55-GALLONG CONTAINERS.

3. THE SOLUTIONS WILL BE PACKAGED FOR SHIPMENT AND STORAGE IN 55-GALLON POLYETHYLENE DRUMS INSERTED INTO 55-GALLONG CAPACITY METAL DRUMS. THE POLYETHYLENE DRUM IS AN ICC 2S CONTAINER AND THE METAL DRUM IS AN ICC 6J CONTAINER. BUREAU OF EXPLOSIVES PERMIT NO. BA-93 IS CURRENTLY IN FORCE FOR THIS TYPE SHIPMENT.

3. [illegible]

4. [illegible]

5. SINCE PRACTICALLY ALL [illegible] DUE TO THE VARIOUS REQUIRED [illegible] IN PROCESS THIS TYPE OF SOLUTION WILL BE LIMITED TO A CONCENTRATION OF NOT MORE THAN 2 GRAMS U-235 PER LITER [illegible] WHICHEVER IS LESS. IN ADDITION, 1 GRAM OF [illegible] WILL BE ADDED PER GRAM OF U-235 BY THE LABORATORY BASED [illegible]

6. LICENSE AMENDMENT IS REQUESTED TO COVER UNLIMITED QUANTITY [illegible] MENTS OF THE ABOVE BASIS.

HERBERT S. KRLISH

COMMERCIAL FUEL MANAGER

FUELS DIVISION

UNITED NUCLEAR CORPORATION

NEW HAVEN, CONN

[illegible] 5:05 PM

CORRECTION FIRST PARA FIRST LINE [illegible]