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DONALD A. NUSSBAUMER, CHIEF
FUEL FABRICATION AND TRANSPORTATION BR.
DIVISION OF MATERIALS LICENSING
USAEC, WASHINGTON, D. C. 20545

Original Signed by
Leland C. Rouse *for DARR*

UNITED NUCLEAR CORPORATION
CHEMICAL PRODUCTS DIVISION
ROUTE 21A
HEMATITE, MISSOURI 63047

ATTENTION: MR. DAVID G. DARR
ACTING MANAGER
NUCLEAR AND INDUSTRIAL SAFETY DEPARTMENT

PURSUANT TO SECTION 20.302 OF 10 CFR 20, SPECIAL NUCLEAR MATERIAL LICENSE
NO. SNM-33, DATED APRIL 21, 1965, IS HEREBY AMENDED TO AUTHORIZE THE INCINERATION
OF COMBUSTIBLE WASTES CONTAMINATED WITH HIGHLY ENRICHED URANIUM IN THE SWOPP
RECYCLE AREA IN ACCORDANCE WITH THE STATEMENTS, REPRESENTATIONS AND PROCEDURES
SPECIFIED IN YOUR APPLICATION DATED MAY 5, 1970, AND TELEGRAM RECEIVED MAY 18,
1970.

THIS AMENDMENT EXPIRES MAY 31, 1970.

ALL OTHER CONDITIONS OF THIS LICENSE SHALL REMAIN THE SAME.

REFERENCE: DML:RJD; 70-36; SNM-33, AMENDMENT NO. 58

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MAY 21 1970

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DONALD A. MUSSBAUMER

U.S. ATOMIC ENERGY COMMISSION DIVISION OF MATERIAL LICENSING

4915 ST. ELMO PL. BETHESDA MD

SUBJECT: SNM33 DOCKET 7036 REQUEST FOR TEMPORARY APPROVAL OF
HIGH ENRICHED INCENERATOR SUPPLEMENTARY INFORMATION REFERENCE
LETTER MAY 5 1970 TO D A MUSBAUMER NIS-86D-70-84

GENTLEMEN, INFORMATION SUPPLEMENTARY TO THE REFERENCE APPLICATION
IS SUBMITTED AS FOLLOWS:

1. INCENERATOR. THIS UNIT IS PROVIDED WITH A POSITIVE DISPLACEMENT EXHAUST BLOWER AND A BAROMETRIC DAMPER WHICH NORMALLY PROVIDES DILUTION AIR WHEN THE DOOR OF THE INCENERATOR IS OPEN. THE DOOR CLOSES AND EXHAUST AIR IS DRAWN THROUGH THE INCENERATOR. FACE VELOCITY AT THIS OPENING APPROACHES OR EXCEEDS 300 FEET PER MINUTE AFTER BURNING. AIRBORNE CONCENTRATION FOUND DURING INCENERATOR OPERATION WITH LOW ENRICHED AVERAGE 4.3 TIMES 10^{-12} TO THE MINUS 12 MICROCURIES PER CC.
2. CONSOLIDATION HOOD WITH FACE VELOCITY OF THIS HOOD AVERAGES IN EXCESS OF 200 FEET PER MINUTE. THE ACTUAL OPEN FACE AREA MEASURES 5.5 SQUARE FEET. WHEN THE FACE VELOCITY DROPS TO 150 FEET PER MINUTE FILTER CHANGES REQUIRED AIRBORNE CONCENTRATION DURING CONSOLIDATION OF LOW ENRICHED ASH IS 2.1 TIMES 10^{-12} TO THE MINUS 12 MICROCURIES PER CC.
3. SAMPLING FOR AIRBORN ACTIVITY OF THE PROPOSED OPERATION WILL BE CONDUCTED IN ACCORD WITH HEALTH REQUIREMENTS OF SNM33. IN ADDITION LAPEL SAMPLERS WILL BE USED DAILY TO ASSURE ADEQUATE CONTROLS. SHOULD CONCENTRATION BE FOUND WHICH EXCEEDS 10 CFR 20. APPENDIX B LIMITS APPROPRIATE CORRECTIVE MEASURES WILL BE INSTITUTED OR HIGH ENRICHMENT INCENERATOR TERMINATED. PLEASE CONTACT