TWX INCOMING

Fuel
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THIS IS UNC NEW HAVEN CALLING 4-2-65

1965 APR 2 AM 10 55

U.S. ATOMIC ENERGY COMM.
TWX UNIT

TO DONALD A NUSSBAUMER CHIEF

SOURCE & SPECIAL NUCLEAR MATERIALS BRANCH

DIVISION OF MATERIALS LICENSING

U.S. ATOMIC ENERGY COMMISSION

WASHINGTON D C

DOCKET NO. 70-820

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ATTN MR ROBERT LAYFIELD

DOCKETED
USAEC
APR 2 1965
REGULATORY
MAIL SECTION
DOCKET CLERK

REFERENCE AMENDMENT TO SNM 777 \NLS-123\

THE PROBLEM OF POSSIBLE EXPLOSIONS HAS BEEN CONSIDERED, AND THE FOLLOWING OBSERVATIONS INDICATE THAT AN EXPLOSION WOULD BE IMPROBABLE.

THE SOLID MATERIAL FEED MECHANISM IS INTERLOCKED TO THE VENT SYSTEM-FAIL-SAFE IF PLANT AIR FEEDING EDUCTORS FAILS. THE ENTIRE SYSTEM RUNS AT NEGATIVE OR ATMOSPHERIC PRESSURES. THESE EDUCTORS ARE INSTALLED AT EXIT FROM ABSOLUTE FILTERS TO MAINTAIN A FLOW OF AIR THROUGH THE VENT SYSTEM AND DISCHARGED THROUGH THE STACK.

THE RATE OF INTRODUCTION OF OXYGEN INTO THE SYTEM IS ORDINARILY AT 2 CFM WITH A MAX. OF 6 CFM. THE OXYGEN FED TO THE TOWER IS 200\ OVER THE STOICHEMETRIC AMOUNT. SAMPLES OF OFF-GAS TO DETERMINE RATIO OF CO, CO2, AND O2 WILL DETERMINE THIS FEED RATE.

C-100

TEMPERATURE OF REACTION ZONE IS 2R1 IS CONROLLED BY AUTOMATIC ADDITION OF NITROGEN WHEN SET-POINT OF CONTROLLER IS EXCEEDED. FAIL SAFE DEVICES INCORPORATED ALSO PROVIDE AUTOMATIC PURGING BY NITROGEN IF CONTROLLER FAILS. ALL METAL COATINGS ARE REMOVED FROM POTENTIAL FEED MATERIAL AS DESCRIBED IN APPLICATION, SECTION 302.8.1 PRIOR TO CRUSHING AND BURNING BECAUSE OF QUALITY CONTROL REQUIREMENTS IN REGARD TO REFRACTORY METALS IN THE FINAL PRODUCT.

COOLING OF OFF-GASES BY 5 FOOT LONG CROSSOVER PIPE AND 8 FOOT LONG, 200 MESH MONEL WIRE FILTERS, AS CHECKED BY THERMOCOUPLE MEASUREMENTS IS AT ROOM TEMPERATURE AT THE BASE OF THE METAL FILTER HOUSING 2F1\ BURNOUT OF ABSOLUTE FILTER HAS BEEN SHOWN TO BE IMPROBABLE.

PLEASE REPLY BY TELEGRAM IF THIS AMENDMENT IS APPROVED. REVISED PAGE 24F OF SECTION 300 WILL BE FORWARDED.

Like
Compl. (2)
PDR
4/6/65
RRL

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DIR OF LICENSING
UNC NEW HAVEN
TIME 10\45 AM
END PLS ACK
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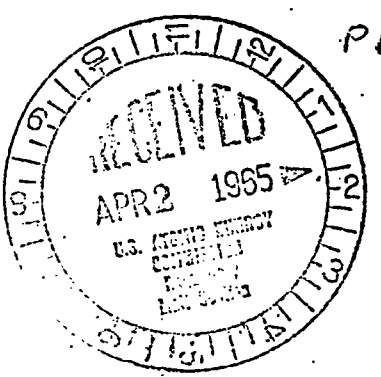

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