

TWX 109 TIME 3:00 PM

DATE 10/24/72

TWX INCOMING

Regulatory

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UNITED STATES ATOMIC ENERGY COMMISSION

WASHINGTON, D.C. 20545

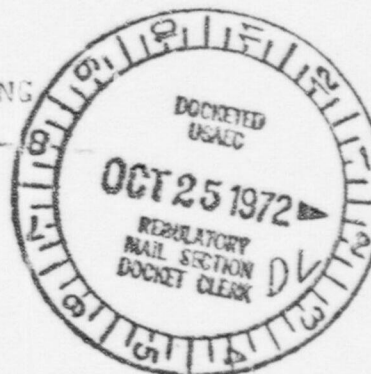
1972 OCT 25 AM 10 06

REFERENCE LICENSE NO. DPR-3 \DOCKET NO. ^{U.S. ATOMIC ENERGY COMM.} ~~158-288~~

PROPOSED CHANGE NO. 102

ATTENTION \ DIRECTORATE OF LICENSING

DEAR SIR \



THE FOUR ZIRCALOY CLAD FUEL RODS, ORIGINALLY ENRICHED TO 4.0 W/O SHALL BE REMOVED FROM FUEL ASSEMBLY NO B-436 LOCATED IN CORE X POSITION J-7. THE FOUR FUEL RODS SHALL BE REMOVED FROM CORNERS OF THE FUEL ASSEMBLY NOT LOCATED ADJACENT TO CONTROL RODS. ALTHOUGH THE FUEL ASSEMBLY WAS PRIMARILY CONSTRUCTED WITH UNPRESSURIZED FUEL RODS, TWO OF THE REMOVABLE FUEL RODS WERE PRE-PRESSURIZED AND ONE UNPRESSURIZED HAVE A BURNUP OF APPROXIMATELY 3200 MWD/MTU AND TWO FUELS RODS, ONE PRESSURIZED AND ONE UNPRESSURIZED HAVE A BURNUP OF APPROXIMATELY 4155 MWD/MTU. THE FOUR FUEL RODS TO BE REMOVED WILL BE REPLACED WITH FOUR MECHANICALLY INON

THIS DOCUMENT CONTAINS
PGQR QUALITY PAGES

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ICAL

ZIRCALOY CLAD FUEL RODS TWO PRESSURIZED AND TWO UNPRESSURIZED WITH AN ENRICHMENT OF 3.5 W/O. THIS ENRICHMENT IS APPROXIMATELY EQUAL TO THE ENRICHMENT OF THE FUEL RODS, AT THIS BURNUP, TO BE REMOVED. THE NUCLEAR ANALYSIS, TO SHOW THE EFFECT OF REPLACING THE FOUR FUEL RODS, WAS PERFORMED USING TWO DIMENSIONAL PDQ CALCULATIONS. THIS ANALYSIS SHOWED THAT THE PEAK FUEL ROD, IN THE VICINITY OF THE REPLACEMENT RODS, INCREASED 1 TO 2% HOWEVER, THIS PEAK WAS APPROXIMATELY 27% BELOW THE PEAK FUEL ROD IN THE ASSEMBLY. THE PEAK FUEL ROD IN THE ASSEMBLY CORRESPONDS TO THE PREDICTED VALUE GIVEN IN TABLE 102-2 OF PROPOSED CHANGE NO. 97. INSERTION OF THE FOUR 3.5 W/O ZIRCALOY CLAD FUEL RODS DID NOT AFFECT THE PEAK FUEL ROD IN THE ASSEMBLY. THUS, ALL INPUTS TO TRANSIENT AND ACCIDENT ANALYSIS WOULD NOT CHANGE.

WE TRUST THIS INFORMATION IS SATISFACTORY AND AIDS
IN THE APPROVAL OF PROPOSED CHANGE NO. 102.

VERY TRULY YOURS

L. E. MINNICK

YANKEE ATOMIC ELECTRIC COMPANY

PS. CORRECTION - 10TH LINE AFTER MECHANICALLY IS IDENTICAL

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AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 5803

FILE

FROM: Yankee Elec. Company Westboro, Mass. 01581 L.E. Minnick	DATE OF DOC: 10-25-72	DATE REC'D 10-25-72	LTR	MEMO	RPT	OTHER TWX
TO:	ORIG 1	CC	OTHER	SENT AEC PDR SENT LOCAL PDR		
AEC CLASS: U PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-29			

DESCRIPTION: TWX furnishing addl info in re to Proposed Change No. 102 & furnishing correction that should read.....

ENCLOSURES:

PLANT NAMES: YAEC

DO NOT REMOVE

FOR ACTION/INFORMATION

DL 10-25-72

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✓ UNITIZING/STAFF	MACCARY	GAMMILL	SMILEY	G. WILLIAMS	E
CASE	LANGE	KASTNER	NUSSBAUMER	E. GOULBOURNE	L
GIAMBUSSO	PAWLICKI	BALLARD		A/T IND	
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DEYOUNG-L(PWR)	KNUTH		SERVICE L	SALTZMAN	
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	✓ M. JINKS	REGAN	LEE L		

EXTERNAL DISTRIBUTION

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✓ 1-NSIC(BUCHANAN)	1-R. CATLIN, A-170-GT	BROOKHAVEN NAT. LAB
1-ASLB-YORE/SAYRE	1-CONSULANT'S	1-AGMED(WALTER KOESTER
✓ WOODWARD/H. ST.	NEWARK/BLUME/AGABIAN	Rm C-427, GT)
✓ 16-CYS ACRS		1-RD...MULLER...F-309C
SENT TO LIC. ASST. S. TEETS ON 10-25-72		