

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 6238

FILE:

FROM: Niagare Mohawk Power Corp. Syracuse, N. Y. 13202 R. R. Schneider			DATE OF DOC 8-14-73	DATE REC'D 8-15-73	LTR x	MEMO	RPT	OTHER
TO: Dennis L. Ziemann			ORIG 1 signed	CC	OTHER	SENT AEC PDR x SENT LOCAL PDR x		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D 40		DOCKET NO: 50-220		
	x							

DESCRIPTION:

Ltr re our 7-16-73 ltr....furnishing info regarding NEDM-10735, Supplement 6, "Fuel Densification Effects in General Electric BWR Fuel," dtd August 1973.

PLANT NAME: Nine Mile Point 1

ENCLOSURES:

ACKNOWLEDGED

DO NOT REMOVE

FOR ACTION/INFORMATION 8-16-73 LB

✓ BUTLER(L)	SCHWENCER(L)	✓ ZIEMANN(L)	REGAN(E)
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INTERNAL DISTRIBUTION

<u>REG FILE</u>	<u>TECH REVIEW</u>	DENTON	<u>LIC ASST</u>	<u>A/T IND</u>
✓ AEC PDR	HENDRIE	GRIMES	BROWN (E)	BRAITMAN
OGC, ROOM P-506A	SCHROEDER	GAMMILL	✓ DIGGS (L)	SALTZMAN
MUNTZING/STAFF	MACCARY	KASTNER	GEARIN (L)	
CASE	KNIGHT	BALLARD	GOULBOURNE (L)	<u>PLANS</u>
GIAMBUSO	PAWLICKI	SPANGLER	LEE (L)	MCDONALD
BOYD	SHAO		MAIGRET (L)	DUBE
MOORE (L)(BWR)	✓ STELLO	<u>ENVIRO</u>	SERVICE (L)	
DEYOUNG(L)(PWR)	HOUSTON	MULLER	SHEPPARD (E)	<u>INFO</u>
✓ SKOVHOLT (L)	✓ NOVAK(G)	DICKER	SMITH (L)	C. MILES
P. COLLINS	✓ ROSS	KNIGHTON	TEETS (L)	✓ RUBENSTEIN
	IPPOLITO	YOUNGBLOOD	WADE (E)	✓ V. ROONEY
<u>REG OPR</u>	TEDESCO	REGAN	WILLIAMS (E)	✓ CRUTCHFIELD
✓ FILE & REGION(3)	LONG	PROJECT LDR	WILSON (L)	✓ VARGA
MORRIS	LAINAS			✓ SCHIERLING
STEELE	BENAROYA	<u>HARLESS</u>		
	VOLLMER			

EXTERNAL DISTRIBUTION

✓ 1 - LOCAL PDR Oswego, N. Y.	(1)(2)(9)-NATIONAL LAB'S	1-PDR-SAN/LA/NY
✓ 1 - DTIE(ABERNATHY)	1-R.Schoonmaker, OC, GT, D-323	1-GERALD LELLOUCHE
✓ 1 - NSIC(BUCHANAN)	1-R. CATLIN, E-256-GT	BROOKHAVEN NAT. LAB
1 - ASLB(YORE/SAYRE/	1-CONSULTANT'S	1-AGMED(WALTER KOESTER
WOODARD/"H" ST.	NEWMARK/BLUME/AGBABIAN	RM-C-427-GT
✓ 16 - CYS ACRS XXXXXXXX SENT TO LIC ASST.	1-GERALD ULRICKSON...ORNL	1-RD..MULLER...F-309-GT
2. DIGGS 8-16-73		

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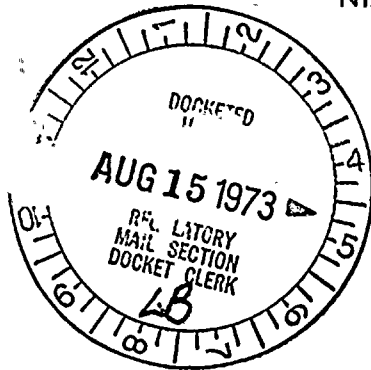
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NIAGARA MOHAWK POWER CORPORATION

NIAGARA  MOHAWK300 ERIE BOULEVARD WEST
SYRACUSE, N. Y. 13202

August 14, 1973



Mr. Dennis L. Ziemann, Chief
Operating Reactors Branch #2
Directorate of Licensing
U. S. Atomic Energy Commission
Washington, D. C. 20545

Dear Mr. Ziemann:

Ré: Nine Mile Point Unit 1
Docket No. 50-220

Your letter of July 16, 1973, requested analyses and other relevant data for determining the consequences of densification using the guidance provided in the enclosure to your letter. This includes the effects on normal operation, anticipated transients and accidents, including the postulated loss-of-coolant accident. This letter also requested that changes to design or operating conditions be submitted if the analyses indicate that changes are necessary to maintain required margins.

The requested analyses and other relevant data for determining the consequences of densification have been submitted to the Commission in a comprehensive generic report NEDM-10735, Supplement 6, "Fuel Densification Effects in General Electric BWR Fuel," dated August, 1973. In this report, Nine Mile Point Unit 1 is identified as reactor B.

This General Electric report also defines operating limitations which result from application of the modifications to the models as specified in the enclosure to your letter of July 16, 1973. Analyses show the most limiting case to be the postulated loss-of-coolant accident. Limitations on the maximum average lineal heat generation rate at any axial cross section of each fuel bundle will assure compliance with the interim acceptance criteria for emergency core cooling systems. Specific limits on fuel segment powers are set forth in Section 4 of NEDM-10735, Supplement 6.



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August 14, 1973

The Nine Mile Point Unit 1 can continue to operate in accordance with the Interim Acceptance Criteria without any specific changes in design or operating conditions. However, until such time as the differences between the densification models of General Electric and the AEC Staff are resolved, Niagara Mohawk proposes to implement operating restrictions on maximum average planar lineal heat generation rate. This proposed restriction will consist of maintaining the average lineal heat generation rate at any axial cross section of any fuel bundle in the core at a level which is at least limited to values prescribed by the curve labeled beta (β) on Figures 4.9.B of the General Electric report, NEDM-10735, Supplement 6.

Very truly yours,



R. R. Schneider

Vice President - Electric Operations

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