REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:8102090243 DOC.DATE: 81/02/02 NOTARIZED: NO DOCKET #
FACIL:50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moha 05000410
AUTH.NAME AUTHOR AFFILIATION
RHODE,G.K. Niagara Mohawk Power Corp.
RECIP.NAME RECIPIENT AFFILIATION
CARLSON,R.T. Region 1, Philadelphia, Office of the Director

SUBJECT: Interim deficiency rept re possible future movement of radwaste bldg geologic feature.Corrections to 791204 initial rept encl.Forwards "Geologic Investigation:Radwaste Thrust Structure." Rept available in Central Files only.

DISTRIBUTION CODE: B019S COPIES RECEIVED:LTR 1 ENCL 1 SIZE: 2+750
TITLE: Construction Deficiency Report: (10CFR50.55E)

NOTES:

	RECIPIENT ID CODE/NAME		COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME		COPIES LTTR	COPIES ENCL
ACTION:	A/D LICENSNG	04	1	1	YOUNGBLOOD,B	05	1	1
	RUSHBROOK,M.	06	1	1	KIPER,K.	07	1	1
INTERNAL:	AD/RCI/IE	17	1	1	ASLBP/J.HARD		1	1
	D/DIR HUM FAC	15	1	1	DIR,DIV OF LIC		1	1
	EDO & STAFF	19	1	1	EQUIP QUAL BR	11	1	1
	HYD/GEO BR	22	1	1	I&E	09	1	1
	LIC QUAL BR	12	1	1	MPA	20	1	1
	NRC PDR	02	1	1	OELD	21	1	1
	PROC/TST REV	13	1	1	QA BR	14	1	1
	REG FILE	01	1	1	RUTHERFORD,W.	IE	1	1
	STANDRDS DEV	21	1	1				
EXTERNAL:	ACRS	16	16	16	LPDR	03	1	1
	NSIC	08	1	1				

N/A 1

Report in Reports Jacket

SEND Encl. to:
TERA (Return to Reg Files after filming

FEB 10 1981

TOTAL NUMBER OF COPIES REQUIRED: LTTR 39 ENCL 39

NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

February 2, 1981

1981 FEB 6 AM 10 16

Office of Inspection and Enforcement
Region I
Attention: Mr. R. T. Carlson, Chief Reactor
Construction and Engineering Support Branch
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Dear Mr. Carlson:

Re: Nine Mile Point Unit 2
Docket No. 50-410

A potential 50.55(e) deficiency involving the possible future movement of the Nine Mile Point Unit 2 Radwaste Building geologic feature was initially reported to the Nuclear Regulatory Commission on December 4, 1979. Enclosed is a report regarding the geologic investigation of the Nine Mile Point Unit 2 Radwaste Thrust Structure. Also enclosed are corrections to this report and to Niagara Mohawk's response to geologic information Request Q361.1.

This report provides the data and analyses to confirm the conclusions made in response to Nuclear Regulatory Commission's Office of Nuclear Reactor Regulation's geologic information Request Q361.1, which was transmitted to you in our interim 50.55(e) report dated July 24, 1980. Since the geologic investigation of the Radwaste Thrust Structure is not completed, this report serves as an interim report. Another interim 10CFR50.55(e) report will be submitted by June 30, 1981.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION

Gerald K. Rhode
Vice President
System Project Management

B019
S
1/1

Enclosure
xc: Director of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555 (w/attachment)

SEND Encl. to:
TERA (Return to Reg Files after filming)

8102090243
S

4. Post-Pleistocene (Holocene) movements have been small if they have occurred at all. It cannot be demonstrated that no Holocene movements have occurred, as no reference features (e.g. dated infilling sediments) extend entirely across the zones of disturbance.

5. Future movements along the structure are not likely to occur. Further relief of the limited amounts of strain now in the rocks will be distributed in the affected ground as dilation and small movements along fractures and bedding surfaces. The Radwaste Structure is so nearly dead at present levels of exposure that its participation in such future movements would amount to no more than a small fraction of an inch ($\leq$1/4 inch). It is still the judgmental opinion of Dames and Moore that the movement on the Radwaste Thrust structure would be very slight amounting to either a negligible movement or at the most a small fraction of an inch. However, Dames and Moore has recently pointed out that the state of the art for predicting future movement of the Radwaste structure does not enable them to give specific assurance that the above judgment does indeed represent a maximum credible movement. Consequently, additional mathematical model studies have been conducted which lead Dames and Moore to conclude that one inch is a conservative allowance for future maximum credible movement. Therefore, an allowance of one inch will be used for design purposes.

6. The Radwaste Structure is not seismotectonic."

Based on these conclusions it was judged that movements of the Radwaste Structure (if any) would be of no consequence to the operation of the plant.