

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8501250283 DOC. DATE: 85/01/21 NOTARIZED: YES DOCKET #
 FACIL: 50-410 Nine Mile Point Nuclear Station, Unit 2, Niagara Moha 05000410
 AUTH. NAME: MANGAN, C.V. AUTHOR AFFILIATION: Niagara Mohawk Power Corp.
 RECIP. NAME: SCHWENCER, A. RECIPIENT AFFILIATION: Licensing Branch 2

SUBJECT: Provides study results of pipe whip & jet impingement consequences for break at terminal end of reactor water cleanup line terminal connection to feedwater thermal feed. Results will be incorporated in FSAR Amend 18.

DISTRIBUTION CODE: B0010 COPIES RECEIVED: LTR 11 ENCL 10 SIZE: 3
 TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES:

	RECIPIENT ID CODE/NAME	COPIES LTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTR ENCL
	NRR/DL/ADL	1 0	NRR LB2 BC	1 0
	NRR LB2 LA	1 0	HAUGHEY, M 01	1 0
INTERNAL:	ACRS 41	6 6	ADM/LFMB	1 0
	ELD/HDS3	1 0	IE FILE	1 1
	IE/DEPER/EPB 36	1 1	IE/DQASIP/QAB21	1 1
	NRR ROE, M. L.	1 1	NRR/DE/AEAB	1 1
	NRR/DE/CEB 11	1 1	NRR/DE/EHEB	1 1
	NRR/DE/EQB 13	2 2	NRR/DE/GB 28	2 2
	NRR/DE/MEB 18	1 1	NRR/DE/MTEB 17	1 1
	NRR/DE/SAB 24	1 1	NRR/DE/SGEB 25	1 1
	NRR/DHFS/HFEB40	1 1	NRR/DHFS/LQB 32	1 1
	NRR/DHFS/PSRB	1 1	NRR/DL/SSPB	1 1
	NRR/DSI/AEB 26	1 1	NRR/DSI/ASB	1 1
	NRR/DSI/CPB 10	1 1	NRR/DSI/CSB 09	1 1
	NRR/DSI/ICSB 16	1 1	NRR/DSI/METB 12	1 1
	NRR/DSI/PSB 19	1 1	NRR/DSI/RAB 22	1 1
	NRR/DSI/RSB 23	1 1	REG FILE 04	1 1
	RGN1	3 3	RM/DDAMI/MIB	1 0
EXTERNAL:	BNL (AMDTs ONLY)	1 1	DMB/DSS (AMDTs)	1 1
	FEMA-REP DIV 39	1 1	LPDR 03	1 1
	NRC PDR 02	1 1	NSIC 05	1 1
	PNL GRUEL, R	1 1		

January 21, 1985
(NMP2L 0323)

Mr. A. Schwencer, Chief
Licensing Branch No. 2
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, DC 20555

Dear Mr. Schwencer:

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

On January 3, 1985, our staffs met in Bethesda, Maryland to discuss the Niagara Mohawk letter dated December 12, 1984. That meeting and the letter described the break exclusion zone for the attachment of the reactor water cleanup system to the feedwater line for Nine Mile Point Unit 2. During the discussion, the NRC requested Niagara Mohawk to determine the safety related consequences due to pipe whip and jet impingement resulting from a hypothetical break in the reactor water cleanup line terminal connection to the feedwater thermal tee.

As requested, we have determined the pipe whip and jet impingement consequences for a break at the terminal end of the reactor water cleanup line connection to the feedwater thermal tee. The conclusions of the study are discussed below.

1. The reactor water cleanup pipe would impact a maintenance platform at elevation 251'. This is acceptable, since the platform's failure causes no secondary damage to other, safety related equipment and does not impair plant shutdown.
2. The main steam penetration Z1A and the main steam line (spool piece 2MSS-026-154-1) would be struck by the whipping reactor water cleanup pipe. In accordance with FSAR Section 3.6.1.1.a, this will not result in the rupture of the main steam line or penetration, since the whipping pipe is smaller in diameter and thickness than the pipes it strikes. Additionally, the function of the outside main steam isolation valve will not be impaired.

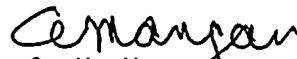
8501250283 850121
PDR ADDCK 05000410
A PDR

Boo!
1/0

3. The feedwater line is the only jet impingement target affected. Stresses resulting in the feedwater line are acceptable and within allowable limits. In addition, the feedwater isolation valves, penetration and jet impingement wall will not be overloaded due to the effects of jet impingement. Since the stresses induced by the jet are less than the design allowable, this condition is acceptable.

In summary, plant safety would not be jeopardized for the hypothetical reactor water cleanup break. No additional pipe whip restraints are required in this area. The results of the study will be incorporated into the FSAR in Amendment 18.

Very truly yours,



C. V. Mangam
Vice President

Nuclear Engineering & Licensing

NLR:ja

xc: R. A. Gramm, NRC Resident Inspector
Project File (2)

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

In the Matter of)
Niagara Mohawk Power Corporation)
(Nine Mile Point Unit 2))

Docket No. 50-410

AFFIDAVIT

C. V. Mangan, being duly sworn, states that he is Vice President of Niagara Mohawk Power Corporation; that he is authorized on the part of said Corporation to sign and file with the Nuclear Regulatory Commission the documents attached hereto; and that all such documents are true and correct to the best of his knowledge, information and belief.

C. V. Mangan

Subscribed and sworn to before me, a Notary Public in and for the State of New York and County of Onondaga, this 21st day of January, 1985.

Janis M. Macro
Notary Public in and for
Onondaga County, New York

My Commission expires:
JANIS M. MACRO

Notary Public in the State of New York
Qualified in Onondaga County No. 4784555
My Commission Expires March 30, 1985

