

Central file

NSP

NORTHERN STATES POWER COMPANY

MINNEAPOLIS, MINNESOTA 55401

September 17, 1979

Mr. James G. Keppler
Director - Region III
Office of Inspection and Enforcement
United States Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Mr. Keppler:

MONTICELLO NUCLEAR GENERATING PLANT
Docket No. 50-263 License No. DPR-22

Additional Response to IE Bulletin
No. 79-07, dated April 14, 1977

In our response to IE Bulletin 79-07 for the Monticello Nuclear Generating Plant, dated April 24, 1979, we were unable to provide specific information on the seismic analysis codes used by General Electric in their design of the reactor recirculation system. This information is now available and has been added to the table originally provided with our April 24, 1979, response which summarizes all of the seismic analysis codes used in the analysis of safety-related piping systems at the Monticello Plant. Attached is a copy of the revised table.

We believe this information, combined with the information provided to you earlier, satisfies the requirements of IE Bulletin 79-07. Contact us if you require additional information concerning our responses.

Yours very truly,

L. J. Wachter
Vice President - Power Production
and System Operation

cc: Mr. G. Charnoff
NRC Office of Inspection and Enforcement
Washington, D.C.

Enclosure

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Computer Codes Used for Seismic Analysis of Safety Related
Piping Systems at the Monticello Nuclear Generating Plant

<u>Organization</u>	<u>Code Name and Source</u>	<u>Algebraic Summation Used?</u>	<u>Method of Code Verification</u>
General Electric (subcontracted to Sexton, Litzgerald, and Kaplan engineers)	FRAME I and SMIS (Sexton)	No	Verified using Sexton PIFLEX and MIT STRESS.
UTECH	PISTAR - NUTECH Based on SAP-4 developed by the University of California at Berkeley	No	Verified using ANSYS computer program (Swanson Analysis Systems, Incorporated) and manual calcu- lations with standard problems.
Bechtel Corporation	ME 632 - Bechtel	No	Verified using PISOL, PIPISD, and TPIPE.
	ME 101 - Bechtel	No	Verified using ME 632, TPIPE, and SUPERPIPE.
	PISOL - EDS Nuclear	No	Verified using NUPIPE, PIPESD, ADLPIPE, and ME 101.
	NUPIPE - Nuclear Services Corp.	No	Verified using ADLPIPE (note 1).
	SAPIPE - PMB Systems Eng, Inc.	No	Verified using PISOL.
	TPIPE - PMB Systems Eng, Inc.	No	Verified using PISOL and ME 632.

Notes:

1. Algebraic summation option in ADLPIPE was not used in this verification.