

**NY NIAGARA
NM MOHAWK**

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

August 17, 1979

Mr. Boyce H. Grier, Director
U. S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, Pennsylvania 19406

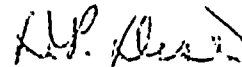
Re: Nine Mile Point Unit 1
Docket No. 50-220
DPR-63

Dear Mr. Grier:

Your July 2, 1979 I. E. Bulletin 79-14 and Revision 1, dated July 18, 1979, addressed concerns with seismic analysis for as-built safety-related piping systems. The attachment to this letter responds to Item I of that Bulletin.

Very truly yours,

NIAGARA MOHAWK POWER CORPORATION



D. P. Dise

Vice President-Engineering

MGM/kmb
Attachment

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SEISMIC ANALYSES
INPUT PARAMETER VERIFICATION
FOR
SAFETY RELATED PIPING SYSTEMS



Item 1

Identify inspection elements to be used in verifying that the seismic analysis input information conforms to the actual configuration of safety-related systems. For each safety-related system, submit a list of design documents, including title, identification number, revision, and date, which were sources of input information for the seismic analyses. Also submit a description of the seismic analysis input information which is contained in each document. Identify systems or portions of systems which are planned to be inspected during each sequential inspection identified in Items 2 and 3. Submit all of this information within 30 days of the date of this bulletin.

Response

Table I lists safety-related piping systems and the feedwater system, including their accessibility during operation, affected by this bulletin. For each system, a reference is made to either the isometric or the construction drawing which was a source of input information for the seismic analysis. These referenced drawings contain the following seismic analysis input information:

1. Pipe run geometry and physical coordinates description.
2. Locations of valves, fittings, hangers, restraints, anchors and in-line equipment.
3. Sizes of pipes and fittings.

Information related to support and restraint design, function and clearance is available on the individual support and restraint detail sheets. The valve and valve operator weights are obtained from the manufacturer's data sheets submitted with the equipment. The location, size and capacity of embedments in concrete are available on the construction drawings.

The following is a list of those items which will be verified by field inspection for compliance with the input to the seismic analysis.

1. Pipe run geometry
2. Location of valves, fittings, hangers, restraints, anchors and in-line equipment.
3. Support and restraint configuration, function and clearance.
4. Location and size of concrete embedment.
5. Location of the approximate center of gravity of valve operators with respect to the longitudinal centerline of the pipe (valve and valve operator weights will not be field verified).



Within 120 days of the date of Revision 1 to this bulletin, a description of the results of the inspections of safety-related piping systems in accessible areas will be submitted.

The following is the tentative order in which accessible areas will be inspected.

1. Emergency Cooling
2. Core Spray
3. Containment Spray
4. Control Rod Drive
5. Spent Fuel Pool Cooling
6. Condensate Transfer
7. Reactor Building Closed Loop Cooling
8. Reactor Building Service Water
9. Diesel Generator Cooling Water
10. Remaining Accessible Safety-related and the Feedwater Systems

Those systems in inaccessible areas will be inspected and a report submitted by the end of the next refueling outage. If practical, inspection in inaccessible areas will be performed during any unscheduled outages.

Although the inspection schedule does not fully meet the requirements of the bulletin, it does provide adequate assurance that inaccuracies in safety system seismic analysis will be identified in an acceptable time period.

For the accessible systems, Niagara Mohawk's schedule is based on a major manpower effort and cannot be improved without substantial disruption of our engineering workload. Also, inaccuracies in seismic analysis inputs are not expected since these systems have been inspected, the most recent inspection performed in response to Inspection and Enforcement Bulletin 79-02. This included confirmation of support design and general piping arrangements for safety-related piping systems and the feedwater system.

For inaccessible systems, a plant shutdown specifically to inspect in accordance with this bulletin is not justified. Inaccessible systems have been most recently inspected in response to Inspection and Enforcement Bulletin 79-02 as stated above. This inspection included all piping, including those which do not use concrete anchor bolts.



TABLE 1
NINE MILE POINT UNIT 1
SAFETY RELATED SYSTEMS

<u>SYSTEM</u>	<u>TITLE</u>	<u>DRAWING NUMBER</u>		<u>REVISION</u>	<u>DATE</u>	<u>ACCESSIBILITY</u>		
		<u>NIAGARA MOHAWK</u>	<u>M.W. KELLOGG</u>			<u>A</u>	<u>PA</u>	<u>IA</u>
01	Main Steam	C-26830-C		2	1-02-76			X
05	Emergency Cooling		ISO. 05-1 System 05	2	2-21-70			X
			ISO. 05-2 System 05	2	2-21-70			X
*29	Feedwater	C-26837-C Sheet 2		-	2-11-76		X	
*30	Feedwater	C-26838-C Sheet 2		-	3-05-76		X	
*31	Feedwater	C-26839-C		2	3-08-76			X
			ISO. 31-1 System 31	1	5-01-70			X
32	Reactor Recirculation	C-26846-C Sheet 2		-	3-05-76			X
33.1	Cleanup	C-18667-C Sheet 1		18	2-13-79			X
33.2	Cleanup	C-18667-C Sheet 1		18	2-13-79			X
38	Shutdown Cooling	C-26847-C Sheet 2		-	4-02-76			X

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39	Emergency Cooling	C-26843-C Sheet 1		2	3-29-76		X	
		C-26843-C Sheet 4		2	3-29-76		X	
40	Core Spray	C-26844-C		2	3-24-76			X
41	Liquid Poison		ISO. 41-1 System 41	3	3-25-70	X		
			ISO. 41-1 System 41 & 42	1	6-26-69	X		
44	Control Rod Drive		ISO. 11 System 44 & 44.1	4	4-10-75	X		
44.1	Control Rod Drive	G-26849-C		1	6-07-76			X
			ISO. 11 System 44 & 44.1	4	4-10-75			X
*49	Feedwater	C-26840-C Sheet 2		-	3-19-76		X	

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		<u>NIAGARA MOHAWK</u>	<u>M.W. KELLOGG</u>			<u>A</u>	<u>PA</u>	<u>IA</u>
*50	Feedwater	C-26841-C		1	6-08-76			X
		Sheet 5						
		C-26841-C		1	6-08-76			X
		Sheet 6						
		C-26841-C		-	6-14-76			X
		Sheet 7						
		C-26841-C		-	6-14-76			X
		Sheet 8						
		C-26841-C		-	6-14-76			X
		Sheet 9						
		C-26841-C		-	6-14-76			X
		Sheet 10						
*51	Feedwater	C-26842-C		-	6-02-76			X
		Sheet 3						
		C-26842-C		-	6-02-76			X
		Sheet 4						
*51.1	Feedwater	C-23291-C		1	5-10-74			X
		Sheet 12						
53	Control Rod Drive		SK. 5005	1	NO DATE			X
			System 53					
54	Fuel Pool Cooling		ISO. 54-6	2	9-21-70			X
			System 54					

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		<u>NIAGARA MOHAWK</u>	<u>M.W. KELLOGG</u>			<u>A</u>	<u>PA</u>	<u>IA</u>
55	Control Rod Drive		ISO. 55-2 System 55	2	8-21-70	X		
57	Condensate Transfer		ISO. 57-1 System 57	-	1-28-70	X		
			ISO. 57-2 System 57	-	1-28-70	X		
			ISO. 57-3 System 57	-	1-28-70	X		
			ISO. 57-4 System 57	2	2-22-71	X		
			ISO. 57-5 System 57	-	NO DATE	X		
			ISO. 57-6 System 57	-	NO DATE	X		
57.1	Condensate Transfer		ISO. 57.1-1 System 57.1	3	4-29-70	X		
			ISO. 57.1-2 System 57.1	2	4-29-70	X		
			ISO. 57.1-3 System 57.1	1	8-10-69	X		

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		<u>NIAGARA MOHAWK</u>	<u>M.W. KELLOGG</u>			<u>A</u>	<u>PA</u>	<u>IA</u>
58	Core Spray		ISO. 58-1	2	2-19-70	X		
58.1	Core Spray		ISO. 58-1 System 58 & 58.1	2	2-19-70	X		
59	Condensate Transfer		ISO. 59-1 System 59	2	6-10-70	X		
			ISO. 59-2 System 59	1	6-10-70	X		
60	Emergency Cooling		ISO. 60-1 System 60	-	2-28-69	X		
			ISO. 60-2 System 60	-	3-01-69	X		
60.1	Emergency Cooling		ISO. 60.1-1 System 60.1	-	3-19-69	X		
63.1	Cleanup					X		

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<u>SYSTEM</u>	<u>TITLE</u>	<u>DRAWING NUMBER</u>		<u>M.W.KELLOGG</u>	<u>REVISION</u>	<u>DATE</u>	<u>ACCESSIBILITY</u>		
		<u>NIAGARA</u>	<u>MOHAWK</u>				<u>A</u>	<u>PA</u>	<u>IA</u>
68	Vacuum Relief			ISO. 68-1 System 68	1	4-21-70	X		
70	Reactor Building Closed Loop Cooling	C-26855-C	Sheet 7		-	7-21-76		X	
		C-26855-C	Sheet 8		-	7-21-76		X	
		C-26855-C	Sheet 9		-	7-21-76		X	
		C-26855-C	Sheet 10		-	7-21-76		X	
		C-26855-C	Sheet 11		-	7-21-76		X	
		C-26855-C	Sheet 12		-	7-21-76		X	
72	Service Water System			ISO. 72-1 System 72	1	3-20-70	X		
79	Diesel Generator Cooling Water			ISO. 79-4 System 79	3	7-17-70	X		
				ISO. 79-7 System 79	3	7-17-70	X		

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		<u>NIAGARA MOHAWK</u>	<u>M:W. KELLOGG</u>			<u>A</u>	<u>PA</u>	<u>IA</u>
80	Containment Spray System	C-26848-C		-	8-12-76	X		
		Sheet 7						
		C-26848-C		-	8-12-76	X		
		Sheet 8						
		C-26848-C		-	8-12-76	X		
		Sheet 12						
			ISO. 93-5	1	11-21-69	X		
			System 80 & 93					
80.1	Containment Spray	C-18376-C		-	5-24-68	X		
		C-18377-C		-	5-24-68	X		
81	Core Spray System	C-26845-C		-	7-21-76	X		
		Sheet 2						
			ISO. 81.4	1	8-25-69	X		
			System 81 & 81.1					
81.1	Core Spray System		ISO. 81.4	1	8-25-69	X		
			System 81 & 81.1					

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		<u>NIAGARA MOHAWK</u>	<u>M.W. KELLOGG</u>			<u>A</u>	<u>PA</u>	<u>IA</u>
83.1	Drywell Sump Piping		ISO. 83.1-1 System 83.1	3	7-13-70			X
			ISO. 83.1-2 System 83.1	3	7-13-70			X
93	Containment Spray Cooling Water		ISO. 93-1 System 93	3	8-28-70	X		
			ISO. 93-2 System 93	2	8-31-70	X		
			ISO. 93-3 System 93	2	12-04-70	X		
			ISO. 93-4 System 93	2	12-04-70	X		
			ISO. 93-5 System 80 & 93	1	11-21-69	X		
			ISO. 93-6 System 93	-	No date	X		

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		<u>NIAGARA MOHAWK</u>	<u>M.W. KELLOGG</u>			<u>A</u>	<u>PA</u>	<u>IA</u>
94	Instrument Air		ISO. 94-1 System 94	3	4-28-70	X		
			ISO. 94-2 System 94	3	4-30-70	X		
			ISO. 94-3 System 94	-	4-29-70	X		
			ISO. 94-4 System 94	-	4-29-70	X		
113	Instrument Air	C-22125-C		13	5-3-76	X		
		C-22126-C		10	11-18-77	X		
		C-22129-C		10	12-23-77	X		
		C-22136-C		6	1-29-79	X		
		C-22137-C		6	9-7-78	X		
		C-22142-C		11	6-22-78	X		
		C-23292-C		2	2-25-77	X		
		C-23292-C		1	3-23-77	X		
C-27005-C		-	5-25-77	X				

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		<u>NIAGARA MOHAWK</u>	<u>M.W. KELLOGG</u>			<u>A</u>	<u>PA</u>	<u>IA</u>
201	Nitrogen Vent and Purge	C-18351-C		6	4-24-69	X		
		C-18352-C		4	4-24-69	X		
201.1	Nitrogen Vent and Purge	C-18348-C		2	1-26-79	X		
		C-18350-C		4	3-27-77	X		
		C-18351-C		6	4-24-69	X		
		C-18352-C		4	4-24-69	X		
		C-18353-C		2	8-15-69	X		
		C-18354-C		4	8-15-69	X		
201.2	Nitrogen Vent and Purge	C-18462-C		7	2-3-77	X		
		C-18348-C		2	1-26-79	X		
		C-18349-C Sheet 1		6	2-9-71	X		
		C-18349-C Sheet 2		2	2-6-79	X		
		C-18349-C Sheet 3		2	7-19-77	X		

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201.2	Nitrogen Vent and Purge (Continued)	C-18350-C		4	3-27-77	X		
		C-18351-C		6	4-24-69	X		
		C-18352-C		4	4-24-69	X		
		C-18463-C		2	2-03-77	X		
		C-18474-C Sheet 2		2	2-03-77	X		
		C-18474-C Sheet 4		1	1-24-69	X		
		C-22158-C		1	4-02-69	X		
		C-22159-C		1	4-01-69	X		
		C-22160-C		-	1-07-69	X		
		C-22161-C		-	1-07-69	X		
		C-22162-C		2	4-14-71	X		
		C-22163-C		1	1-23-69	X		
		C-22164-C		-	1-07-69	X		

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201.2	Nitrogen Vent and Purge (Continued)	C-22165-C		-	1-07-69	X		
		C-22166-C		-	4-14-71	X		
		C-22167-C		-	1-07-69	X		
		C-22168-C		2	4-08-71	X		
		C-23292-C Sheet 1		2	2-25-77	X		
		C-23292-C Sheet 2		1	3-23-77	X		
		C-26950-C Sheet 1		2	3-24-77	X		
		C-26950-6 Sheet 2		1	3-24-77	X		
201.6	Drywell Instrumentation	C-18198-C		1	5-28-69	X		
201.7	Drywell Particulate Monitor	C-23292-C Sheet 1		2	2-25-77	X		
		C-23292-C Sheet 2		1	3-23-77	X		
		C-27005-C		-	5-25-77	X		

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201.8	Containment Atmospheric Dilution	C-18349-C		2	2-06-79	X		
		Sheet 2						
		C-18349-C		2	7-19-77	X		
		Sheet 3						
201.9	Containment Atmospheric Dilution	C-18349-C		2	2-06-79	X		
		Sheet 2						
202	Emergency Ventilation	C-18869-C		7	7-22-78	X		
		Sheet 4						
210	Control Room Ventilation	C-18869-C		5	7-27-78	X		
		Sheet 1						
		C-18869-C		7	7-02-69	X		
		Sheet 2						
		C-18869-C		4	2-19-69	X		
		Sheet 3						
		C-18869-C		7	7-22-78	X		
		Sheet 4						
		C-18869-C		4	7-18-69	X		
		Sheet 5						
		C-18869-C		5	2-29-74	X		
		Sheet 6						

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210	Control Room Ventilation	C-18869-C		1	12-18-67	X		
		Sheet 8						
		C-18869-C		-	12-12-67	X		
		Sheet 9						
		C-18869-C		-	12-12-67	X		
		Sheet 10						

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