New Hampshire
Yankee

Ted C. Feigenbaum
President and
Chief Executive Officer

NYN-91017

January 31, 1991

United States Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Document Control Desk

References: (a) Facility Operating License No. NPF-86, Docket No. 50-443

(b) USNRC Letter, dated April 3, 1989, "Guidance on Developing Acceptable Inservice Testing Programs (Generic Letter No. 89-04)"

Subject: Inservice Testing of Pumps and Valves (Changes to Revision 1)

Gentlemen:

Pursuant to 10CFR50.55a(g)(5)(i) and Seabrook Station Safety Evaluation Report 6, Appendix S, New Hampshire Yankee (NHY) hereby transmits changes to Revision 1 of the NHY Inservice Testing Program (IST). Enclosure 1 contains a summary of the changes to the NHY IST Program as provided in Enclosures 2 through 10. Enclosures 11 and 12 provide copies of NHY Piping and Instrumentation Diagrams (P&IDs) of the systems which contain the components affected by the enclosed NHY IST Program changes. These P&IDs are provided for informational purposes only and are not for inclusion in the NHY IST Program.

The initial submittal of the Seabrook Station Updated Final Safety Analysis Report which is scheduled for May 1991 will reflect the enclosed changes to the NHY IST Program.

Should you have questions regarding this information, please contact Mr. James M. Peschel, Regulatory Compliance Manager, at (603) 474-9521, extension 3772.

Very truly yours,

Ted C. Feigenbaum

TCF/JFS/act

Enclosures

A047
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ENCLOSURE 1 TO NYN-91017

SUMMARY OF CHANGES TO REVISION 1 OF THE IST PROGRAM

ENCLOSURE	DESCRIPTION OF CHANGE
2	Revises NHY IST Program Figure 5.3 to reflect changes in the exercise test frequency to cold shutdown for both RHR pumps' discharges to the safety injection/charging pumps suction, valves RH-V35 and RH-V36. See NHY P&ID 1-NHY-804979, Engineered Safety Features Flow Diagram (Enclosure 11).
3	Adds Cold Shutdown Justification, CSJ-2, for both RHR pumps' discharges to the safety injection/charging pump suction, valves RH-V35 and RH-V36.
4	Adds Note 65 to the Valve Testing Requirement Notes for Revision 1 of the NHY IST Program.
5	Revises NHY IST Program Figure 5.3 to reflect changes in the exercise test frequency to cold shutdown for both Containment ECCS Sump supplies to the RHR/CBS pump's suctions, valves CBS-V8 and CBS-V14. See NHY P&ID 1-NHY-804979, Engineered Safety Features Flow Diagram (Enclosure 11).
6	Adds Cold Shutdown Justification, CSJ-3, for both Containment ECCS Sump supplies to the RHR/CBS pump's suction, valves CBS-V8 and CBS-V14.
7	Adds Note 66 to the Valve Testing Requirement Notes for Revision 1 of the NHY IST Program.
8	Revises NHY IST Program Figure 5.3 to reflect the addition of the Safety Injection Accumulator's Isolation Valves, SI-V3, SI-V17, SI-V32 and SI-V47 to the New Hampshire Yankee Inservice Test Program (IST), Revision 1. See NHY P&ID SI-20450, Safety Injection System Low Head Injection (Accumulators) (Enclosure 12). The addition of these valves is consistent with position 11 of Attachment 1 to Generic Letter 89-04 (Reference (b)).
9	Adds Cold Shutdown Justification, CSJ-4, for the Accumulator Isolation Valves.
10	Adds Note 67 to the Valve Testing Requirement Notes for Revision 1 of the NHY IST Program.

ENCLOSURE 2 TO NYN-91017

FIGURE 5.3
VALVE TESTING REQUIREMENTS

SYSTEM: RESIDUAL HEAT REMOVAL P&ID NO. 805008

VALVE:	CBS-V55	CBS-V56	RH-V4	RH-V14	RH-V15	RH-V21	RH-V22	RH-V26	RH-V29	RH-V30	RH-V31	RH-V32	RH-V35	RH-V36	RH-V40	RH-V70	RH-FCV610	RH-FCV611	RH-V27	RH-V28
COORDINATES:	C4	C1	A4	D2	D1	B2	B3	C2	C1	C1	D1	D2	C3	C2	A1	D2	C4	C1	D1	D1
FUNCTION:	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
CODE CLASS:	2	2	2	2	1	2	2	2	1	1	1	2	2	2	2	2	2	2	2	2
CATEGORY:	C	C	C	B	AC	B	B	B	AC	AC	AC	B	B	B	C	B	B	B	B	B
SIZE (IN):	12	12	8	8	6	8	8	8	6	6	6	8	8	8	8	8	3	3	3/4	3/4
VALVE TYPE:	C	C	C	G	C	G	G	G	C	C	C	G	G	G	C	G	G	G	GL	GL
ACTUATOR:	-	-	-	M	-	M	M	M	-	-	-	M	M	M	-	M	M	M	A	A
NORM POSITION:	C	C	C	O	C	O	O	O	C	C	C	C	C	C	C	C	O	O	C	C
LEAK TEST REQ:					1				1	1	1									
LEAK TEST REL:					X				X	X	X									
LEAK TEST ALT:					1				1	1	1									
EXER TEST REQ:	3	3	3	1	3	1	1	1	3	3	3	1	1	1	3	1	1	1	1	1
EXER TEST REL:	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X				
EXER TEST ALT:	3	3	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
F.S. TEST REQ:																			X	X
POS IND TEST:				X		X	X	X				X	X	X		X	X	X	X	X
NOTES:	36	36	37	38	10 15			38	10 15	10 15	10 15	7	65	65	37	7				

REMARKS:

Rev 2

ENCLOSURE 3 TO NYN-91017

COLD SHUTDOWN JUSTIFICATION: CSJ-2

VALVES: RH-V35 and RH-V36

CATEGORY: B

CODE CLASS: 2

FUNCTION: Provide suction source to the safety injection/charging pump(s) during recirculation mode of operation of the emergency core cooling system.

TEST REQUIREMENTS: IWV-3410 Valve Exercise Test

BASIS FOR COLD SHUTDOWN TESTING: These valves cannot be exercised during normal plant operation without the use of electrical jumpers to defeat system interlocks. Should an ECCS actuation occur while these valves were open, the suction source to the charging and safety injection pumps would be the RHR system, and the borated water supplied would be at the boron concentration of the RHR system at the time the RHR system was last shutdown. This boron concentration could be less than the boron concentration in the CS/SI pumps normal suction supply (RWST) and may result in an increase in the time required to borate the Reactor Coolant System.

ALTERNATE TESTING: These valves will be full stroke exercised during cold shutdowns.

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ENCLOSURE 4 TO NYN-91017

65. These valves cannot be operated during normal plant operation without the use of electrical jumpers. Should an ECCS actuation occur while these valves were opened, additional time to borate the RCS may be required.

ENCLOSURE 5 TO NYN-91017

FIGURE 5.3
VALVE TESTING REQUIREMENTS

SYSTEM: CONTAINMENT SPRAY P&ID NO. 805023/1-CBS-B20233/1-NHY-804979

VALVE:	CBS-V2	CBS-V3	CBS-V5	CBS-V7	CBS-V8	CBS-V9	CBS-V11	CBS-V12	CBS-V14	CBS-V15	CBS-V17	CBS-V18	CBS-V25	CBS-V26	CBS-V31	CBS-V32	CBS-V33	CBS-V38	CBS-V43	CS-LCV112D	CS-LCV112E	CBS-V147	CBS-V148
COORDINATES:	B3	B3	B2	B2	B1	B3	D1	D1	B1	A2	C1	C1	A2	C4	D1	D2	D1	D4	D3	D3	D3	C4	C2
FUNCTION:	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
CODE CLASS:	2	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
CATEGORY:	B	C	B	C	BC	C	A	AC	B	C	A	AC	C	C	B	B	B	B	B	B	B	C	C
SIZE (IN):	12	12	12	12	16	12	8	8	16	12	8	8	16	16	4	4	4	6	6	8	8	16	16
VALVE TYPE:	G	C	G	C	G	C	G	C	G	C	G	C	C	C	B	B	B	G	G	G	G	C	C
ACTUATOR:	M	-	M	-	M	-	M	-	M	-	M	-	-	-	P	P	P	M	M	M	M	-	-
NORM POSITION:	O	C	O	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C
LEAK TEST REQ:							2	2			2	2											
LEAK TEST REL:																							
LEAK TEST ALT:																							
EXER TEST REQ:	1	3	1	3	1	3	1	3	1	3	1	3	3	3	1	1	1	1	1	1	1	1	3
EXER TEST REL:		X		X	X	X		X	X	X		X	X	X						X	X	X	X
EXER TEST ALT:		3		3	2	3		3	2	3		3	3	3						2	2	3	3
F.S. TEST REQ:															X	X	X						
POS IND TEST:	X		X		X		X		X		X				X	X	X	X	X	X	X		
NOTES:		47		47	66	29		28	66	29		28	29 62	29 62						31	31	29 62	29 62
REMARKS:							X	X			X	X											

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ENCLOSURE 6 TO NYN-91017

COLD SHUTDOWN JUSTIFICATION: CSJ-3

VALVE: CBS-V8 and CBS-V14

CATEGORY: B

CODE CLASS: 2

FUNCTION: Provide suction source to the residual heat removal pump(s) and containment building spray pump(s) following the transfer from the injection mode to the recirculation mode of ECCS operation.

BASIS FOR COLD SHUTDOWN TESTING: These valves cannot be exercised during normal plant operation without draining the piping from the ECCS sump(s) to the suction(s) of RHR and CBS pumps. Draining the suction piping is required to prevent the introduction of water into the ECCS sump(s). The RHR and CBS pump(s) are disabled at the Main Control Board while the suction piping is drained, to prevent introducing water into containment ECCS sumps, and remain disabled until the suction piping is refilled and vented.

ALTERNATE TESTING: These valves will be full stroke exercised during cold shutdowns.

ENCLOSURE 7 TO NYN-91017

66. These valves cannot be operated during normal plant operation without disabling the KHR and CBS pump(s) and draining their suction piping from the ECCS sump(s).

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ENCLOSURE 8 TO NYN-91017

FIGURE 5.3
VALVE TESTING REQUIREMENTS

SYSTEM: SAFETY INJECTION SYSTEM ACCUMULATORS P&ID NO. 805009/1-SI-R20450

VALVE:		SI-V5	SI-V6		SI-V20	SI-V21		SI-V35	SI-V36		SI-V50	SI-V51	SI-V62	SI-V70	SI-V247		SI-V3	SI-V17	SI-V32	SI-V47
COORDINATES:		A4	B4		A3	B3		A2	B2		A2	B1	D4	D4	D4		D12	D10	D8	D5
FUNCTION:		A	A		A	A		A	A		A	A	A	A	P		P	P	P	P
CODE CLASS:		1	1		1	1		1	1		1	1	2	2	2		2	2	2	2
CATEGORY:		AC	AC		AC	AC		AC	AC		AC	AC	A	A	AC		B	B	B	B
SIZE (IN):		10	10		10	10		10	10		10	10	3/4	3/4	3/4		10	10	10	10
VALVE TYPE:		C	C		C	C		C	C		C	C	GL	GL	S		G	G	G	G
ACTUATOR:		-	-		-	-		-	-		-	-	A	A	-		M	M	M	M
NORM POSITION:		C	C		C	C		C	C		C	C	C	C	C		O	O	O	O
LEAK TEST REQ:		1	1		1	1		1	1		1	1	2	2	2					
LEAK TEST REL:		X	X		X	X		X	X		X	X								
LEAK TEST ALT:		1	1		1	1		1	1		1	1								
EXER TEST REQ:		3	3		3	3		3	3		3	3	1	1			1	1	1	1
EXER TEST REL:		X	X		X	X		X	X		X	X								
EXER TEST ALT:		2	3		2	3		2	3		2	3					2	2	2	2
F.S. TEST REQ:													X	X						
POS IND TEST:													X	X			X	X	X	X
NOTES:		10 52 53	10 52		10 52 53	10 52		10 52 53	10 52		10 52 53	10 52					67	67	67	67

REMARKS:

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ENCLOSURE 9 TO NYN-91017

COLD SHUTDOWN JUSTIFICATION: CSJ-4

VALVES: SI-V3, SI-V17, SI-V32 and SI-V47

CATEGORY:

CODE CLASS: 2

FUNCTION: These normally open valves provide isolation between the pressurized accumulators and the reactor coolant system when the reactor coolant system pressure is less than 1000 psig.

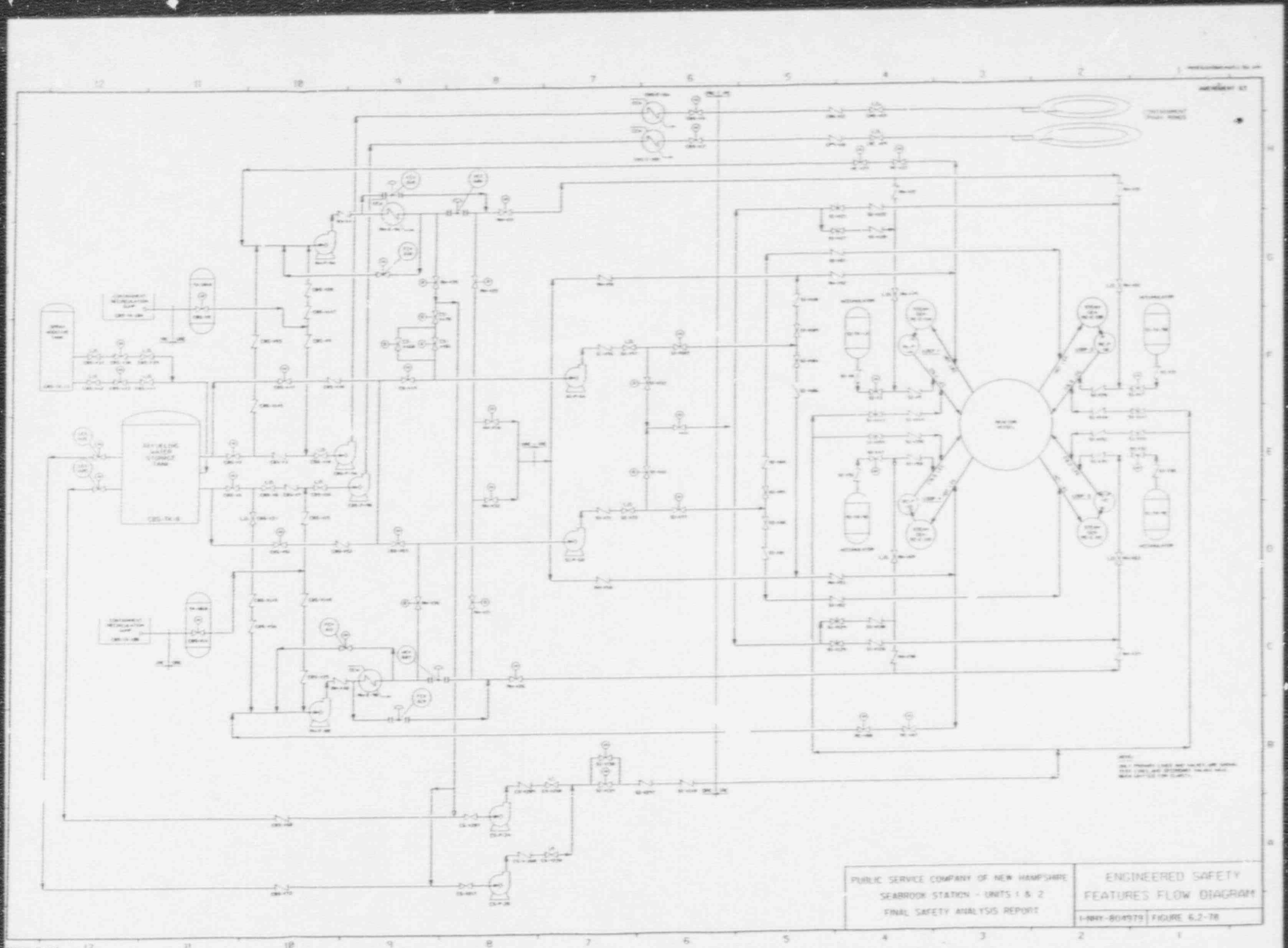
BASIS FOR COLD SHUTDOWN TESTING: These valves cannot be exercised during normal plant operation in Modes 1 or 2, or in Mode 3 when the RCS is pressurized above 1000 psig, as they are required to be open, with power removed from their actuators by the Technical Specifications. These valves cannot be exercised in Mode 4, or in Mode 5 when the accumulator(s) are pressurized above 100 psig, as they are required to be closed, with power removed from their actuator(s), by the Technical Specifications.

ALTERNATE TESTING: These valves will be full stroke exercised on a Cold Shutdown frequency.

ENCLOSURE 10 TO NYN-91017

67. These valves will be full stroke exercised on a Cold Shutdown frequency.

ENCLOSURE 11 TO NYN-91017



PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
SEABROOK STATION - UNITS 1 & 2
FINAL SAFETY ANALYSIS REPORT

ENGINEERED SAFETY FEATURES FLOW DIAGRAM

1-NHY-8049579 | FIGURE 6.2-7B

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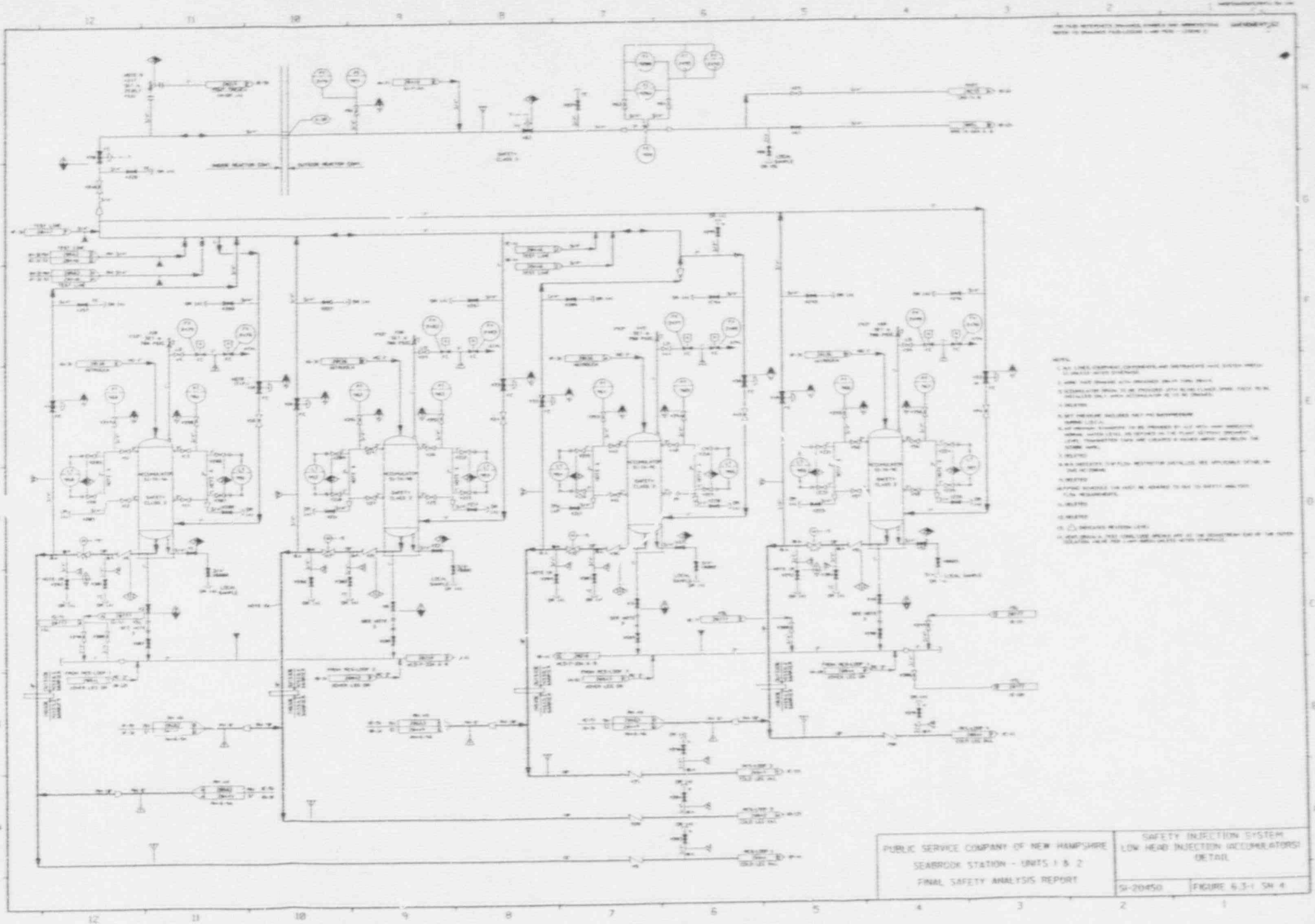
ENCLOSURE 12 TO NYN-91017



PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE
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SAFETY INJECTION SYSTEM
LOW HEAD INJECTION ACCUMULATORS
DETAIL

SI-20450 | FIGURE 6.3-1 SH 4