PSNH

SEABROOK STATION
Engineering Office

January 28, 1985

Public Service of New Hampshire

SBN- 754
T.F.: B7.1.2

New Hampshire Yankee Division

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

Attention: G. W. Knighton, Chief
Licensing Branch 3
Division of Licensing

Reference: (a) Construction Permits CPPR-135 and CPPR-136, Docket Numbers 50-443 and 50-444
(b) PSNH Letter SBN-241, dated March 23, 1982, "Revised Responses: 430 Series RAIs", J. DeVincentis to F. J. Miraglia

Subject: Revised FSAR Tables 8.3-1 and 8.3-2, Diesel Loading

Dear Sir:

Our response to RAI 430.66 [Reference (b)] committed to provide an automatic trip on diesel generator start of the prelube/filter pump and the rocker arm prelube pump. Based on our further review and evaluation, these diesel generator auxiliaries will not be automatically tripped on diesel generator start for the following reasons:

1. Per manufacturer's instructions, the normal operating mode for the prelube/filter pump is to run continuously to filter the oil, while the diesel generator is operating. Therefore, this pump will not be tripped on diesel generator start. FSAR Tables 8.3-1 and 8.3-2 will be revised as they have been annotated in the Attachment to include this pump as a continuous load.

2. Per manufacturer's instructions, the control switch for the rocker arm prelube pump is spring return to off. When the operator releases the switch on diesel generator start, the pump will stop. Therefore, there is no need to provide an automatic trip on diesel generator start. This pump will not appear in FSAR Tables 8.3-1 and 8.3-2.

The attached revisions to FSAR Tables 8.3-1 and 8.3-2 will be included in the next OL Application Amendment.

Very truly yours,

J. DeVincentis, Director
Engineering and Licensing

Attachments
cc: Atomic Safety and Licensing Board Service List

A001
1/1

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TABLE 8.3-1
(Sheet 1 of 2)

DIESEL GENERATOR LOADING SEQUENCE
SAFEGUARD SIGNAL WITH LOSS OF OFFSITE POWER

DEFINITE START LOADS

QTY	SEQUENCED LOAD	HP	BHP	kW	INRUSH kVA	kW AT VARIOUS TIMES: 12 SEC	17 SEC	22 SEC	27 SEC	32 SEC	37 SEC	42 SEC	47 SEC	52 SEC	120 SEC	OPERATING TIME DURATION
1	Charging Pump	600	670	501	3280	501	501	501	501	501	501	501	501	501	501	30 days
	*Lighting (A)	286 kVA		257		257	257	257	257	257	257	257	257	257	257	Continuous
	*Lighting (B)	180 kVA		144		144	144	144	144	144	144	144	144	144	144	Continuous
	*Security Lighting (A)	32 kVA		29		29	29	29	29	29	29	29	29	29	29	Continuous
	Misc Distribution Panels	75 kVA		68		68	68	68	68	68	68	68	68	68	68	Continuous
1	*Security & Fire Det. Systems (A)	30 kW		30		30	30	30	30	30	30	30	30	30	30	Continuous
2	*Radiation Mon. Dist. Pnl. (A)	12 kW		24		24	24	24	24	24	24	24	24	24	24	Continuous
1	Plant Vent Monitoring	2		1½	8	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	Continuous
1	*DG Prelube Filter oil pump	15		12		12	12	12	12	12	12	12	12	12	12	2 min Prelube
1	Cntmt Encl Emerg Exh Fltr Fan	7½		6	118	6	6	6	6	6	6	6	6	6	6	Continuous
1	Cntmt Struc Recirc Fltr Fan	30		24	237	24	24	24	24	24	24	24	24	24	24	Continuous
2	Inverters (NSSS)	8.5 kVA		17		17	17	17	17	17	17	17	17	17	17	Continuous
1	*DG Crankcase Exhauster Fan	3		3	30(3)	3	3	3	3	3	3	3	3	3	3	Continuous
1	Inverter (BOP)	33 kVA		33		33	33	33	33	33	33	33	33	33	33	Continuous
1	Control Room Make Up Air Fan	1½		1	14	1	1	1	1	1	1	1	1	1	1	Continuous
1	Control Bldg Batt Rm Exh Fan	5		4	38	4	4	4	4	4	4	4	4	4	4	Continuous
1	*TG Main Seal Oil Pump (A)	20		17	115	17	17	17	17	17	17	17	17	17	17	6 Hours
1	*TG Recirc Seal Oil Pump (A)	7½		7	51	7	7	7	7	7	7	7	7	7	7	6 Hours
12	MOV's	50 kW	(TOTAL)	50	-	50	50	50	50	50	50	50	50	50	50	Intermittent
1	Cntmt Encl Cooling Unit	125	108	87	681		87	87	87	87	87	87	87	87	87	Continuous
1	Cntmt Encl Return Air Fan	60		50	325		50	50	50	50	50	50	50	50	50	Continuous
1	DG Room Supply Air Fan	50	39	32	494		32	32	32	32	32	32	32	32	32	Continuous
1	DG Room Return Air Fan	40	34	34	274		34	34	34	34	34	34	34	34	34	Continuous
1	Safety Injection Pump	450	495	377	2816		377	377	377	377	377	377	377	377	377	Continuous
1	Residual Heat Removal Pump	400		336	2062			336	336	336	336	336	336	336	336	Continuous
1	Containment Spray Pump	600		494	2941				494	494	494	494	494	494	494	30 Days
1	Pri Comp Cooling Water Pump	700	637	577	3647					577	577	577	577	577	577	Continuous
1	Fuel Storage Bldg Filter Fan	60		50	653											
1	Fuel Storage Bldg Fltr Htr	95 kW		95						50	50	50	50	50	50	Continuous
1	Cooling Tower Pump (Note 1)	800		671	4706					95	95	95	95	95	95	Continuous
1	Service Water Pump (Note 1)	600		505	3709						671	671	671	671	671	Continuous
1	Emergency Feedwater Pump (B)	900	770	603	4664						-	-	-	-	-	
1	Cooling Tower Fan (A)	400		320	2754							603	603	603	603	7 Days
2	Cooling Tower Fans (B)	250		400	2752								320	320	320	Continuous
2	*Turb Bldg Battery Chargers (A)	27½ kW		55									400	400	400	Continuous
2	Ctl Bldg Battery Chargers	27½ kW		55											55	Continuous
2	*Inverter (A)	75kVA		75											55	Continuous
1	*Inverter (A)	30 kVA		30											75	Continuous
1	*Ctl Bldg Cable Rm Sup Fan (A)	10		8	65										30	Continuous
1	*Ctl Bldg Cable Rm Ret Fan (A)	10		8	65										8	Continuous
1	Ctl Bldg Swgr Area Supply Fan	40	23	19	231										8	Continuous
1	Ctl Bldg Swgr Area Return Fan	20	13	11	195										19	Continuous
1	*Cable Tunnel Exhaust Fan (A)	10		8	65										11	Continuous
															8	Continuous
	Definite Start Load Addition This Period - Train A					1085										
	Definite Start Load Addition This Period - Train B					~~1073~~ 865	580	336	494	722	671	603	400	0	85	

(A) - Train A Only
(B) - Train B Only

Notes

1. Cooling Tower Pump or Service Water Pump, not both, will be loaded on the DG. Cooling Tower Pump load is larger and is therefore listed.

2. Continuous means more than 30 days.

3. Estimated.

4. Startup FW pump may be manually connected to Train A diesel generator under contingency conditions.

* Non Class 1E Loads.

ATTACHMENT TO SBN-754
SB 1 & 2
FSAR
Amendment 52
December 1983

TABLE 8.3-1
(Sheet 2 of 2)

INDEFINITE START LOADS

QTY	SEQUENCED LOAD	HP	BHP	kW	INRUSH kVA	kW AT VARIOUS TIMES: 12 SEC	17 SEC	22 SEC	27 SEC	32 SEC	37 SEC	42 SEC	47 SEC	52 SEC	120 SEC	MANUAL START	OPERATING TIME DURATION
1	Serv Wtr Pp Hse Exh Fan	15	13	11	92	11	11	11	11	11	11	11	11	11	11		
1	Serv Wtr Swgr Rm Supply Fan	2	1.3	1	15	1	1	1	1	1	1	1	1	1	1		Continuous
1	Emerg FW Pp Bldg Exh Fan	5		4	34	4	4	4	4	4	4	4	4	4	4		Continuous
1	Ctl Rm Emerg Clean-Up Fltr Fan	7½		6	57	6	6	6	6	6	6	6	6	6	6		Continuous
1	PAB Aux Supply Air Fan	5	4.5	4	38	4	4	4	4	4	4	4	4	4	4		Continuous
1	Clg Twr Swgr Rm Supply Fan	2		2	19	2	2	2	2	2	2	2	2	2	2		Continuous
1	Clg Twr Pp Rm Exhaust Fan	5		4	38	4	4	4	4	4	4	4	4	4	4		Continuous
1	*DG Aux Lube Oil Pump	60		50	342	50	50	50	50	50	50	50	50	50	50		Continuous
1	*DG Aux Fuel Oil Pump	2		2	14	2	2	2	2	2	2	2	2	2	2		Continuous
1	DG Fuel Oil Transfer Pump	2		2	14	2	2	2	2	2	2	2	2	2	2		Continuous
1	Boric Acid Transfer Pump	20		16	52												
1	*Boron Inj Tank Heater	6 kW		6		6	6	6	6	6	6	6	6	6	6	16	30 Days
1	*Boron Inj Surge Tank Heater (A)	6 kW		6		6	6	6	6	6	6	6	6	6	6		1 Hour
1	*Boric Acid Tank Area Heater	20 kW		20		20	20	20	20	20	20	20	20	20	20		Continuous
	*PAB Heat Tracing	13 kW		13		13	13	13	13	13	13	13	13	13	13		Continuous
	*SW Heat Tracing	8 kW		8													30 Days
2	*SGFPT Turning Gear Motor (A)	1½		2	28	2	2	2	2	2	2	2	2	2	2	8	30 Days
2	*SGFPT Main Oil Pumps (A)	40		66	468	66	66	66	66	66	66	66	66	66	66		6 Hours
1	*TG Turning Gear Oil Pump (A)			42	289	42	42	42	42	42	42	42	42	42	42		6 Hours
1	SF Pool Cooling Pump	20	12.3	10	98	10	10	10	10	10	10	10	10	10	10		
1	*Charging Pump Oil Pump	5		2	37	2	2	2	2	2	2	2	2	2	2		Continuous
1	*Cir. Wtr Pp Lube Booster Pump (A)	10		8	65	8	8	8	8	8	8	8	8	8	8		30 Days
1	Hydrogen Analyzer Heat Tracing	3 kW		3 kW		3	3	3	3	3	3	3	3	3	3		Continuous
1	*Elec Tunnel Sump Pump	5		4	37	4	4	4	4	4	4	4	4	4	4		30 Days
17	Motor Operated Valves			10		10	10	10	10	10	10	10	10	10	10		Intermittent
8	*TG Bearing Lift Pumps (A)	5		40	293		40	40	40	40	40	40	40	40	40		Intermittent
1	*DG Coolant Back-Up Pump	50		42	263									42	42		Continuous
1	*DG Air Compressor	15		14	85										14		Continuous
1	*DG Jacket Coolant Heater	49 kW		49											49		2 Hours
1	*DG Lube Oil Heater	35 kW		35											35		30 Min.
1	Control Room A/C Panel	154 kW		154											154		30 Min.
2	*Computer Room A/C Panel (A)	30 kW		60											60		Continuous
2	*Clg Tower Swgr Rm Heaters	5½ kW		11											11		Continuous
1	*TG Turning Gear Motor (A)	60		50	470										50		(Winter Only)
1	*Cntmnt Bldg Air Comp	20		18	115										18		Continuous
1	*Inst. Air Dryer	10 kW		10	53										10		Intermittent
1	Hydrogen Recomb Pwr Recp	75 kW		75												75	Intermittent
2	Misc Power Receptacles	10		8												8	Continuous
1	*Pressurizer Heaters	350 kW		350	350											350	Continuous
1	Startup Feed Pump (A)																30 Days
																	See Note 4

Indefinite Start Load Addition This Period - Train A	278	40	0	0	0	0	0	0	42	401
Definite Start Load Addition This Period - Train A	~~1073~~ 1085	580	336	494	722	671	0	320	0	269
Cumulative Total Definite & Indefinite Loads This Period - Train A	~~1351~~ 1363	~~1971~~ 1983	~~2307~~ 2319	~~2801~~ 2813	~~3523~~ 3535	~~4194~~ 4206	~~4194~~ 4206	~~4514~~ 4526	~~4556~~ 4568	~~5225~~ 5236
Indefinite Start Load Addition This Period - Train B	154	0	0	0	0	0	0	0	42	291
Definite Start Load Addition This Period - Train B	~~857~~ 845	580	336	494	722	671	603	400	0	85
Cumulative Total Definite & Indefinite Loads This Period - Train B	~~1007~~ 1019	~~1587~~ 1599	~~1923~~ 1935	~~2417~~ 2429	~~3139~~ 3151	~~3810~~ 3822	~~4413~~ 4425	~~4813~~ 4825	~~4855~~ 4867	~~5237~~ 5243

ATTACHMENT TO SBN-754

ATTACHMENT TO SBN-754

TABLE 8.3-2
(Sheet 1 of 2)

DIESEL GENERATOR LOADING SEQUENCE
LOSS OF OFFSITE POWER

DEFINITE START LOADS

QTY	SEQUENCE LOAD	HP	BHP	kW	INRUSH kVA	12 SEC	17 SEC	22 SEC	27 SEC	32 SEC	37 SEC	42 SEC	47 SEC	52 SEC	120 SEC	OPERATING TIME DURATION
								kW AT VARIOUS TIMES								
1	Charging Pump	600	670	501	3280	501	501	501	501	501	501	501	501	501	501	30 Days
	*Lighting (A)	286 kVA		257		257	257	257	257	257	257	257	257	257	257	Continuous
	*Lighting (B)	180 kVA		144		144	144	144	144	144	144	144	144	144	144	Continuous
	*Security Lighting (A)	32 kVA		29		29	29	29	29	29	29	29	29	29	29	Continuous
	Misc Distribution Panels	75 kVA		68		68	68	68	68	68	68	68	68	68	68	Continuous
1	*Security & Fire Det. System (A)	30 kW		30		30	30	30	30	30	30	30	30	30	30	Continuous
2	*Rad. Monitoring Dist. Pnl. (A)	12 kW		24		24	24	24	24	24	24	24	24	24	24	Continuous
1	Plant Vent Monitoring	2		1½	8	1½	1½	1½	1½	1½	1½	1½	1½	1½	1½	Continuous
1	DG Prelube/Filter Oil Pump	15		12		12	12	12	12	12	12	12	12	12	12	Continuous
2	Inverters (NSSS)	8.5 kVA		17		17	17	17	17	17	17	17	17	17	26	Continuous
1	*DG Crankcase Exhauster Fan	3		3	30(1)	3	3	3	3	3	3	3	3	3	3	Continuous
1	Boron Injec Recirc Pump	2½ kW		3	13	3	3	3	3	3	3	3	3	3	3	Continuous
1	Inverter (BOP)	33 kVA		33		33	33	33	33	33	33	33	33	33	33	Continuous
1	Control Room Make Up Air Fan	1½		1	14	1	1	1	1	1	1	1	1	1	1	Continuous
1	Control Bldg Batt Rm Exh Fan	5		4	38	4	4	4	4	4	4	4	4	4	4	Continuous
1	*TC Main Seal Oil Pump (A)	20		17	115	17	17	17	17	17	17	17	17	17	17	6 Hours
1	*TC Recirc Seal Oil Pump (A)	7½		7	51	7	7	7	7	7	7	7	7	7	7	6 Hours
1	Cntmt Encl Cooling Unit	125	108	87	681		87	87	87	87	87	87	87	87	87	Continuous
1	Cntmt Encl Return Air Fan	60		50	325		50	50	50	50	50	50	50	50	50	Continuous
1	DG Room Supply Air Fan	50	39	32	494		32	32	32	32	32	32	32	32	32	Continuous
1	DG Room Return Air Fan	40	34	34	274		34	34	34	34	34	34	34	34	34	Continuous
1	Residual Heat Removal Pump (Note 1)	400		336	2062			336	336	336	336	336	336	336	336	Continuous
2	*Cntmt Struc Cooling Fans	200	138	220	2960				220	220	220	220	220	220	220	Continuous
1	*Cntmt Struc Cooling Fan	200	138	110	1050								110	110	110	Continuous
1	Pri Comp Cooling Water Pump	700	637	577	3647					577	577	577	577	577	577	Continuous
1	Fuel Storage Bldg Filter Fan	60		50	653					50	50	50	50	50	50	Continuous
1	Fuel Storage Bldg Fltr Htr	95 kW		95						95	95	95	95	95	95	Continuous
1	Cooling Tower Pump (Note 2)	800		671	4706						671	671	671	671	671	Continuous
1	Service Water Pump (Note 2)	600		505	3709						-	-	-	-	-	
1	Emergency Feedwater Pump (B)	900	770	603	4664							603	603	603	603	7 Days
1	Cooling Tower Fan (A)	400		320	2754								320	320	320	Continuous
2	Cooling Tower Fans (B)	250		400	2752								400	400	400	Continuous
2	*Turb Bldg Battery Chargers (A)	27½ kW		55											55	Continuous
2	Ctl Bldg Battery Chargers	27½ kW		55											55	Continuous
2	*Inverter (A)	75 kVA		75											75	Continuous
1	*Inverter (A)	30 kVA		30											30	Continuous
1	*Ctl Bldg Cable Rm Sup Fan (A)	10		8	65										8	Continuous
1	*Ctl Bldg Cable Rm Ret Fan (A)	10		8	65										8	Continuous
1	Ctl Bldg Swgr Area Supply Fan	40	23	19	231										19	Continuous
1	Ctl Bldg Swgr Area Return Fan	20	13	11	195										11	Continuous
1	*Cable Tunnel Exhaust Fan (A)	10		8	65										8	Continuous
	Definite Start Load Addition This Period - Train A					~~998~~ 1008	203	336	220	722	671	0	320	0	269	
	Definite Start Load Addition This Period - Train B					~~776~~ 788	203	336	220	722	671	603	400	0	85	

(A) - Train A Only
(B) - Train B Only

Notes
1. Estimated.
2. Cooling Tower Pump or Service Water Pump, not both, will be loaded on the DG. Cooling Tower Pump load is larger and is therefore listed.
3. Continuous means more than 30 days.
4. Startup FW Pump may be manually connected to the A Train diesel generator under contingency conditions.

* Non Class 1E Loads.

INDEFINITE START LOADS

QTY	SEQUENCED LOAD	HP	BHP	kW	INRUSH kVA	kW AT VARIOUS TIMES: 12 SEC	17 SEC	22 SEC	27 SEC	32 SEC	37 SEC	42 SEC	47 SEC	52 SEC	120 SEC	MANUAL START	OPERATING TIME DURATION
1	Serv Wtr Pp Hse Exh Fan	15	13	11	92	11	11	11	11	11	11	11	11	11	11		Continuous
1	Serv Wtr Swgr Rm Supply Fan	2	1.3	1	15	1	1	1	1	1	1	1	1	1	1		Continuous
1	Emerg FW Pp Bldg Exh Fan	5		4	34	4	4	4	4	4	4	4	4	4	4		Continuous
1	Ctl Rm Emerg Clean-Up Fltr Fan	7½		6	57	6	6	6	6	6	6	6	6	6	6		Continuous
1	PAB Aux Supply Air Fan	5	4.5	4	38	4	4	4	4	4	4	4	4	4	4		Continuous
1	Clg Twr Swgr Rm Supply Fan	2		2	19	2	2	2	2	2	2	2	2	2	2		Continuous
1	Clg Twr Pp Rm Exhaust Fan	5		4	38	4	4	4	4	4	4	4	4	4	4		Continuous
1	*DG Aux Lube Oil Pump	60		50	342	50	50	50	50	50	50	50	50	50	50		Continuous
1	*DG Aux Fuel Oil Pump	2		2	14	2	2	2	2	2	2	2	2	2	2		Continuous
1	DG Fuel Oil Transfer Pump	2		2	14	2	2	2	2	2	2	2	2	2	2		Continuous
1	Boric Acid Transfer Pump	20		16		16	16	16	16	16	16	16	16	16	16		30 Days
1	*Boron Inj Tank Heater	6 kW		6		6	6	6	6	6	6	6	6	6	6		Continuous
1	*Boron Inj Surge Tank Heater (A)	6 kW		6		6	6	6	6	6	6	6	6	6	6		Continuous
1	*Boric Acid Tank Area Heater	20 kW		20		20	20	20	20	20	20	20	20	20	20		Continuous
	*PAB Heat Tracing	13 kW		13		13	13	13	13	13	13	13	13	13	13		Continuous
	*SW Heat Tracing	8 kW		8													30 Days
2	*SCFPT Turning Gear Motor (A)	1½		2	28	2	2	2	2	2	2	2	2	2	2	8	30 Days
2	*SCFPT Main Oil Pumps (A)	40		66	468	66	66	66	66	66	66	66	66	66	66		6 Hours
1	*TG Turning Gear Oil Pump (A)	50		42	289	42	42	42	42	42	42	42	42	42	42		6 Hours
1	SF Pool Cooling Pump	20	12.3	10	98	10	10	10	10	10	10	10	10	10	10		Continuous
1	*Charging Pump Oil Pump	5		2	37	2	2	2	2	2	2	2	2	2	2		Continuous
1	*Circ. Wtr. Pp Lube Booster Pump (A)	10		8	65	8	8	8	8	8	8	8	8	8	8		30 Days
1	Hydrogen Anal. Heat Tracing	3 kW		3		3	3	3	3	3	3	3	3	3	3		Continuous
1	*Elec Tunnel Sump Pump	5		4	37	4	4	4	4	4	4	4	4	4	4		30 Days
17	Motor Operated Valves			10	-	10	10	10	10	10	10	10	10	10	10		Intermittent
8	*TG Bearing Lift Pumps (A)	5		40	293		40	40	40	40	40	40	40	40	40		Intermittent
1	*DG Coolant Back-Up Pump	50		42	263									42	42		Continuous
1	*DG Air Compressor	15		14	85										14		Continuous
1	*DG Jacket Coolant Heater	49 kW		49											49		2 Hours
1	*DG Lube Oil Heater	35 kW		35											35		30 Min.
1	Control Room A/C Panel	154 kW		154											154		30 Min.
2	*Computer Room A/C Panel (A)	30 kW		60											60		Continuous
2	*Clg Tower Swgr Rm Heaters	5½ kW		11											11		Continuous
1	*TG Turning Gear Motor (A)	60		50	470												6 Months (Winter only)
1	*Cntmt Bldg Air Comp	20		18	115										50		Continuous
1	*Cntmt Air Dryer/Turb Air Dryer	10 kW		20	106										18		Continuous
2	CADM Cooling Fans	30	28	56	331										20		Continuous
1	*Service Air Compressor	100		80	577										56		Continuous
2	Misc Power Receptacles	10		8											80		Intermittent
1	*Pressurizer Heaters	350 kW		350	350											6	Continuous
1	Startup FW Pump (A)															350	30 Days

Indefinite Start Load Addition This Period - Train A — See Note 4
Definite Start Load Addition This Period - Train A

296	40	0	0	0	0	0	0	42	547
~~995~~ 1068	203	336	220	722	671	0	320	0	269

Cumulative Total Definite & Indefinite Loads This Period - Train A

~~1390~~ 1302	~~1593~~ 1645	~~1869~~ 1886	~~2089~~ 2107	~~2811~~ 2823	~~3482~~ 3374	~~3482~~ 3494	~~3802~~ 3814	~~3846~~ 3856	~~4660~~ 4672

Indefinite Start Load Addition This Period - Train B
Definite Start Load Addition This Period - Train B

~~170~~ 278	0	0	0	0	0	0	0	42	~~437~~
788	203	336	220	722	671	603	400	0	85

Cumulative Total Definite & Indefinite Loads This Period - Train B

~~846~~ 958	~~1149~~ 1161	~~1485~~ 1497	~~1705~~ 1717	2427 2437	~~3098~~ 3110	~~3701~~ 3713	~~4101~~ 4113	~~4143~~ 4155	~~4665~~ 4677

ATTACHMENT TO SBN-754