

NORTHEAST UTILITIES



THE CONNECTICUT LIGHT AND POWER COMPANY
WESTERN MASSACHUSETTS ELECTRIC COMPANY
HOLYOKE WATER POWER COMPANY
NORTHEAST UTILITIES SERVICE COMPANY
NORTHEAST NUCLEAR ENERGY COMPANY

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March 19, 1984

Docket No. 50-423
B11084

Mr. Hugh L. Thompson
Director, Division of Human Factors Safety
U. S. Nuclear Regulatory Commission
Phillips Building
7920 Norfolk Avenue
Bethesda, MD 20014

Reference: (1) S. E. Miltenberger letter to Utility Group on Operating Shift Experience, dated March 1, 1984.

Dear Mr. Thompson:

Millstone Nuclear Power Station, Unit No. 3
Operating Shift Experience Survey

The Utility Group on Operating Shift Experience (UGOSE) met with the Commissioners on February 24, 1984 to outline a plan for evaluating the shift experience base at a nuclear power plant.

Attachment I provides the completed operating shift experience survey transmitted to us by Reference (1) for Millstone Unit No. 3. This survey was completed using the experience categories, weighting factors, and maximum time credits proposed by the UGOSE. The survey reflects the shift experience base at present and the projected shift experience base at the time of fuel load. (November 1, 1985).

Northeast Nuclear Energy Company does not intend to use shift advisors. Attachment II provides our proposal for satisfying the UGOSE proposed hot participation experience requirements for Millstone Unit No. 3.

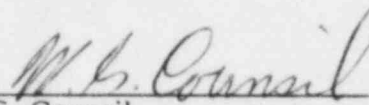
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We trust that the above information satisfactorily responds to your concerns.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY


W. G. Council
Senior Vice President

cc: Dr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Mr. Donald F. Schnell
Vice President, Nuclear
Union Electric Company
P. O. Box 149
St. Louis, MO 63166

ATTACHMENT I

Operating Shift Experience Survey

DATE March 16, 1984PLANT NAME Millstone 3UTILITY Northeast UtilitiesO.L. DATE November 1985

OPERATING SHIFT EXPERIENCE

Page 1 of 1

JOB TITLE: Shift Supervisor
(NOTE 2)NUCLEAR POWER PLANT EXPERIENCE
FOR OPERATING SHIFT POSITIONS (NOTE 1)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	1	2	3	4	5	6	7	8	9	10	
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT	0	0	0	0	0	0	117	0			
2. OTHER COMMERCIAL SRO	.75	NO LIMIT	0	0	0	0	0	0	0	32			
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT	0	0	0	0	0	0	24	0			
4. OTHER COMMERCIAL RO	0.75	NO LIMIT	0	0	0	0	0	0	0	51			
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOOW, PPWS) (OTHER)	0.50 0.25	36 MONTHS	36	25.5	30	30	36	36	19.3	36			
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5			Present
			5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3			At fuel load
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	.75 0.50	24 MONTHS (12 MONTHS) (12 MONTHS)	3.5	3.5	3.5	3.5	3.5	3.5	0	0			Present
			16.5	16.5	16.5	16.5	16.5	16.5	13	13			At fuel load
8. LICENSED CLASSROOM TRAINING AND EXAM (OWN PLANT)	0.50	9 MONTHS	3	3	3	3	3	3	3	3			
9. PARTICIPATION AT OPERATING PLANT	0.75	12 MONTHS	0	0	0	0	0	0	12	7.5			
10. OTHER NUCLEAR PLANT EXPERIENCE	0.25	12 MONTHS	.3	.3	.3	.3	.3	.3	0	0			
11. CONDUCTING LICENSE TRAINING	0.25	9 MONTHS	0	0	0	0	0	0	0	0			
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	12	12	12	12	12	12	7*	7*			*STA Level I and II (73)
TOTAL NUCLEAR PLANT EXPERIENCE:			56.3	45.8	50.3	50.3	56.3	56.3	182.3	138			Present
			73.1	62.6	67.1	67.1	73.1	73.1	199.1	154.8			At fuel load
HOT PARTICIPATION EXPERIENCE													
TIME > 20% <u>END</u> /YR (WKS)	**Will participate in startup and shutdown, previous startup (S/U) or shutdown (S/D) noted.		0	0	0	0	0	0	616	0			SS,s 1-6 each received 1 month participation experience during refueling outage (PWR) (various stages).
STARTUP & SHUTDOWN (YES/NO)			S/D**	S/U**	Yes	No**		Yes	Yes	No**			
MONTHS ON SHIFT			1	1	1	1	1	1	117	0			

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

CHECK ONE OF THE FOLLOWING:

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

- ☐ a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- ☐ b. Shift advisors will probably be required, at least for some shifts.
- ☒ c. Do not plan to use shift advisors unless some unforeseen circumstance arises.

DATE March 16, 1984
 PLANT NAME Millstone 3
 UTILITY Northeast Utilities
 O.L. DATE November 1985

OPERATING SHIFT EXPERIENCE

Page 1 of 1

JOB TITLE: Senior Control Operator
 (NOTE 2)

NUCLEAR POWER PLANT EXPERIENCE
 FOR OPERATING SHIFT POSITIONS (NOTE 1)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	1	2	3	4	5	6	7	8	9	10	
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT	65	0	0	12	0	0					
2. OTHER COMMERCIAL SRO	.75	NO LIMIT	0	11.3	8.3	0	0	11.3					
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT	14	0	0	68	9	0					
4. OTHER COMMERCIAL RO	0.75	NO LIMIT	0	0	18	0	0	0					
5. NAVY (MILITARY) NUCLEAR (RO, EWS, ECOM, PPNS) (OTHER)	0.50 0.25	36 MONTHS	26.5	18.5	15	14.3	36	36					
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	0 3.8	1.5 5.3	1.5 5.3	1.5 5.3	1.5 5.3	1.5 5.3					Present At fuel load
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	0.75 0.50	24 MONTHS (12 MONTHS) (12 MONTHS)	0 13	0 13	0 13	0 13	0 13	0 13					Present At fuel load
8. LICENSED CLASSROOM TRAINING AND EXAM (OWN PLANT)	0.50	9 MONTHS	3	3	3	3	3	3					
9. PARTICIPATION AT OPERATING PLANT	0.75	12 MONTHS	12	12	12	12	12	10.5					Plant Equipment Operators
10. OTHER NUCLEAR PLANT EXPERIENCE	0.25	12 MONTHS	0	0	0	0	0	0					
11. CONDUCTING LICENSE TRAINING	0.25	9 MONTHS	0	0	0	0	0	0					
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	7*	7*	12*	7*	6*	7*					*STA Level I and II (73)
TOTAL NUCLEAR PLANT EXPERIENCE:			127.5 144.3	53.3 70.1	69.8 86.6	117.8 134.6	73.5 90.3	69.3 86.1					Present At fuel load
HOT PARTICIPATION EXPERIENCE													
TIME > 20% PWR/RWR (WKS)			280	0	0	288	32	0					
STARTUP & SHUTDOWN (YES/NO)			Yes	No	No	Yes	Yes	No					
MONTHS ON SHIFT			79	0	0	80	9	0					

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

CHECK ONE OF THE FOLLOWING:

- ☐ a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- ☐ b. Shift advisors will probably be required, at least for some shifts.
- ☒ c. Do not plan to use shift advisors unless some unforeseen circumstances arise.

DATE March 16, 1984PLANT NAME Millstone 3UTILITY Northeast UtilitiesO.L. DATE November 1985

OPERATING SHIFT EXPERIENCE

Page 1 of 2

JOB TITLE: Control Operator
(NOTE 2)NUCLEAR POWER PLANT EXPERIENCE
FOR OPERATING SHIFT POSITIONS (NOTE 1)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	1	2	3	4	5	6	7	8	9	10	
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT	0	0	0	0	0	0	0	0	0	0	
2. OTHER COMMERCIAL SRO	.75	NO LIMIT	0	0	0	0	0	0	0	0	0	0	
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT	0	0	0	0	0	0	4	0	0	0	
4. OTHER COMMERCIAL RO	0.75	NO LIMIT	0	0	0	0	0	0	0	0	0	3	
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOOW, PWWS) (OTHER)	0.50 0.25	36 MONTHS	36	36	36	35.5	30.5	36	36	34.5	18	17.3	
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	1.5 5.3	1.5 5.3	1.5 5.3	1.5 5.3	1.5 5.3	1.5 5.3	1.5 5.3	1.5 5.3	0 6.3	0 6.3	Present At fuel load
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	0.75 0.50	24 MONTHS (12 MONTHS) (12 MONTHS)	0 13	0 13	3.5 16.5	3.5 16.5	3.5 16.5	3.5 16.5	3.5 16.5	3.5 16.5	3.5 16.5	3.5 16.5	Present At fuel load
8. LICENSED CLASSROOM TRAINING AND EXAP (OWN PLANT)	0.50	9 MONTHS	3	3	3	3	3	3	3	3	3	3	
9. PARTICIPATION AT OPERATING PLANT	0.75	12 MONTHS	9.8	11.3	4.5	4.5	3	6	3.9	3	9	12	Plant Equipment Operators
10. OTHER NUCLEAR PLANT EXPERIENCE	0.25	12 MONTHS	0	0	0	0	0	0	0	0	0	0	
11. CONDUCTING LICENSE TRAINING	0.25	9 MONTHS	0	0	0	0	0	0	0	0	0	0	
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	7*	7*	6	7	0	0	0	.27	0	0	
TOTAL NUCLEAR PLANT EXPERIENCE:			57.3 74.1	58.8 75.6	54.5 71.3	55 71.8	41.5 58.3	50 66.2	51.9 68.7	48.2 65	33.5 52.8	38.8 58.1	Present At fuel load
HOT PARTICIPATION EXPERIENCE													
TIME > 20% PWR/BWR (WKS)			0	0	0	0	0	0	12	0	0	8	
STARTUP & SHUTDOWN (YES/NO)			No	No	No	No	No	No	No	No	No	No	
MONTHS ON SHIFT			0	0	0	0	0	0	4	0	0	3	

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

CHECK ONE OF THE FOLLOWING:

- ☐ a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- ☐ b. Shift advisors will probably be required, at least for some shifts.

☒ c. Do not plan to use shift advisors unless some unforeseen circumstances arise.

DATE March 16, 1984PLANT NAME Millstone 3UTILITY Northeast UtilitiesO.L. DATE November 1985

OPERATING SHIFT EXPERIENCE

Page 2 of 2

JOB TITLE: Control Operator
(NOTE 2)

ENTER DATA: MONTHS/MONTHS X WEIGHTING FACTOR

NUCLEAR POWER PLANT EXPERIENCE
FOR OPERATING SHIFT POSITIONS (NOTE 1)

TYPE OF EXPERIENCE	WEIGHTING FACTOR	MAXIMUM CREDIT	1	2	3	4	5	6	7	8	9	10	
1. SAME TYPE COMMERCIAL SRO	1.00	NO LIMIT	0	0	0	0							
2. OTHER COMMERCIAL SRO	.75	NO LIMIT	0	0	0	0							
3. SAME TYPE COMMERCIAL RO	1.00	NO LIMIT	0	0	0	0							
4. OTHER COMMERCIAL RO	0.75	NO LIMIT	0	0	0	0							
5. NAVY (MILITARY) NUCLEAR (RO, EWS, EOOM, PPWS) (OTHER)	0.50 0.25	36 MONTHS	18	26	0	18							
6. SIMULATOR (REFERENCE PLANT) (SIMILAR)	5.00 3.00	12 MONTHS (12 MONTHS) (9 MONTHS)	1.5 5.3	0 6.3	1.5 5.3	0 6.3							Present
7. NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) (LESS THAN 1 1/2 YEARS PRIOR TO F.L.) (MORE THAN 1 1/2 YEARS PRIOR TO F.L.)	0.75 0.50	24 MONTHS (12 MONTHS) (12 MONTHS)	3.5 16.5	3.5 16.5	3.5 16.5	3.5 16.5							At fuel load
8. LICENSED CLASSROOM TRAINING AND EXAM (OWN PLANT)	0.50	9 MONTHS	3	3	3	3							Present
9. PARTICIPATION AT OPERATING PLANT	0.75	12 MONTHS	12	10.5	12	2.3							At fuel load
10. OTHER NUCLEAR PLANT EXPERIENCE	0.25	12 MONTHS	0	0	0	0							
11. CONDUCTING LICENSE TRAINING	0.25	9 MONTHS	0	0	0	0							
12. DEGREE (ENGINEERING, APPLIED SCIENCE OR EQUIVALENT) (BACHELORS DEGREE) (ASSOCIATES DEGREE)		12 MONTHS (12 MONTHS) (6 MONTHS)	0	0	0	0							
TOTAL NUCLEAR PLANT EXPERIENCE:			38 54.8	43 62.3	20 36.8	26.8 46.1							Present
HOT PARTICIPATION EXPERIENCE													At fuel load
TIME > 20% PWR/RWR (WKS)			0	0	0	0							
STARTUP & SHUTDOWN (YES/NO)			No	No	No	No							
MONTHS ON SHIFT			0	0	0	0							

NOTE 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (FOR APPLICANTS)"

NOTE 2: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S, REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

CHECK ONE OF THE FOLLOWING:

- ☐ a. Shift advisors must be used to satisfy the "hot participation experience" requirements of the utility plan.
- ☐ b. Shift advisors will probably be required, at least for some shifts.
- ☒ c. Do not plan to use shift advisors unless some...

ATTACHMENT II

Northeast Nuclear Energy Company does not intend to use shift advisors. The following clarification is provided regarding this position.

1. All primary shift supervisors (6), have more than 24 months of equivalent hot participation experience (at 20% power, including numerous startups and shutdowns) gained as navy nuclear power plant operators at the Engineer and Engineering Officer of the Watch levels. The alternate shift supervisors (2), have 104 months of PWR and 38 months of BWR (at 20% power, including startup and shutdown) hot participation experience.
2. All primary shift supervisors (6), hold Bachelors Degrees in engineering or applied science disciplines. The alternate shift supervisors (2), have engineering degree equivalence through STA Level I and II training programs. (Refer to W. G. Counsil letter to D. G. Eisenhut, E10937, dated November 18, 1983).
3. All on shift SROs will have more than 6 months PWR hot participation experience; more than 8 months BWR hot participation experience; or more than 24 months equivalent hot participation experience as navy nuclear power plant operators.