



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

P.O. BOX 618, NORTH COUNTRY ROAD • WADING RIVER, N.Y. 11792

March 22, 1984

SNRC-1028

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

Supplemental Shift Experience Information
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

Dear Mr. Denton:

Submittal of shift experience information was requested by Mr. D. F. Schnell, Vice President, Union Electric Company. In accordance with that request, Nuclear Power Plant Experience for Operating Shift Position tables, developed by the Utility Group on Operating Shift Experience, have been completed and are included herein.

One experience table has been provided for each of the six operating crews. A separate table has been provided for Shift Technical Advisors.

Response to the additional questions in Mr. Schnell's letter is as follows:

1. Expected Operating License Date
May 15, 1984
2. Use of Shift Advisors
 - (b) Shift Advisors will probably be required, at least for some shifts.

I trust this information satisfies the request. If any additional information is required, please contact this office.

Very truly yours,

Jack A. Notaro
Chief Operating Engineer

JAN:ck

cc: Messrs. C. Petrone
R. Caruso
Hugh Thompson w/attachment
Donald F. Schnell "

FC-8935

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PDR ADOCK 05000322
PDR
A

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11

DATE March 2, 1984
 PLANT NAME Shoreham (Crew) A
 UTILITY Long Island Lighting Company

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

JOB TITLE (NOTE 2)	WEIGHTING FACTOR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER BWR/PWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER BWR/PWR	NAVY (MILITARY) NUC.OPER. EXPER.		SIMULATOR TRAINING		NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L		PARTICI- PATION AT OPER- ATING PLANT	OTHER NUCLEAR PLANT EXPER- IENCE	LICENCE TRAINING		DEGREE	TOTAL NUC. PLANT EXPER.
						RO EWS EOOW, PPWS	OTHER	PLANT SPECIFIC	SIMILAR	>1 1/2 yr.	<1 1/2 yr.			CONDUCT LICENSE TRNG.	LICENSE CLASS- ROOM TRNG. & EXAM		
Watch Engineer #1 (SRO)	<u>1</u> MOS / <u>1</u> MOS X W.E.	0	0	0	0	0	0	0	3.5	78.5	18	1.5	1	0	18	0	120.5
Watch Super- visor #1 (SRO)		0	0	0	0	0	46	0	3.5	60.5	18	1.125	1	0	9	0	43.4
NSO #1 (SRO)		0	0	0	0	0	11.5	0	9	12	12	1.125	1	0	9	0	148.5
NASO #1 (SRO)		0	0	0	0	0	11.75	0	9	12	12	0	1	0	9	0	56.875
NASO #2 (RO)		0	0	0	0	0	7.5	0	9	5	12	0	1	0	9	0	42.75
		0	0	0	0	0	12.5	0	6	0	12	0	1	0	11	0	36.25

HOT PARTICIPATION EXPERIENCE:

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 circumstance arises.

TIME > PWR/BWR (WKS)
 STARTUP & SHUTDOWN (YES/NO)
 MONTHS ON SHIFT

WATCH ENGINEER (SRO)
4
 YES/YES
1.5

WATCH SUPERVISOR (SRO)
4
 YES/YES
1.5

NOTE: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)".
 NOTE: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO's (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

DATE March 2, 1984
 PLANT NAME Shoreham (Crew B)
 UTILITY Long Island Lighting Company

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

JOB TITLE (NOTE 2)	WEIGHTING FACTOR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER BWR/PWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER BWR/PWR	NAVY (MILITARY) NUC.OPER. EXPER.		SIMULATOR TRAINING		NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L		PARTICI- PATION AT OPER- ATING PLANT	OTHER NUCLEAR PLANT EXPER- IENCE	LICENCE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS- ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.
						RO EWS EOWW, PPWS	OTHER	PLANT SPECIFIC	SIMILAR	>1 1/2 yr.	<1 1/2 yr.						
Watch Engineer #3 (SRO)	#MOS/#MOS X W.K.	0	0	0	0	0	0	0	3.5	(4)	.5	.75	.25	.25	.5	.25	
Watch Super- visor #2 (SRO)		0	0	0	0	0	0	0	9	59.5	18	1.5	1	0	18	0	101.5
NSO #2 (SRO)		0	0	0	0	0	42	0	3.5	62.5	18	1.25	.25	0	9	46*	145
NASO #3 (RO)		0	0	0	0	0	10.5	0	9	62.5	18	0	1	0	18	4.6	57.35
NASO #3 (RO)		0	0	0	0	0	0	0	3	0	18	0	.25	0	9	0	42.25
NASO # (RO)		0	0	0	0	0	0	0	9	0	12	0	.25	0	9	0	40
		0	0	0	0	45	0	0	2	0	18	0	1	0	11	0	77
		0	0	0	0	22.5	0	0	6	0	12	0	.25	0	5.5	0	46.25

HOT PARTICIPATION EXPERIENCE

TIME > PWR/BWR (WKS)
 STARTUP & SHUTDOWN (YES/NO)
 MONTHS ON SHIFT

WATCH ENGINEER (SRO)
 6 WKS
 YES/YES
 2

WATCH SUPERVISOR (SRO)
 0
 NO/NO
 0

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 circumstance arises.

NOTE: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)".
 INCLUDE ALL Shift SUPERVISORS (SS), SHIFT SRO's (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

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

DATE March 2, 1984
PLANT NAME Shoreham (Crew C)
UTILITY Long Island Lighting Company

JOB TITLE (NOTE 2)	WEIGHTING FACTOR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER BWR/PWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER BWR/PWR	NAVY (MILITARY) NUC.OPER.EXPER.		SIMULATOR TRAINING		NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L		PARTICI- PATION AT OPER- ATING PLANT	OTHER NUCLEAR PLANT EXPER- IENCE	LICENCE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS- ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.
						RO EWS EOWW, PPWS	OTHER	PLANT SPECIFIC	SIMILAR	>14 yr.	<14 yr.						
atch engineer 2 (SRO)	1.0	0	0	0	0	39	0	0	3.5	60.5	18	0	140	0	18	0	279
atch super- visor 3 (SRO)	0.75	0	0	0	0	19.5	0	0	9	12	12	0	12	0	9	0	73.5
SO #3 SRO)	0	0	0	0	0	0	0	0	3.5	62.5	18	0	1	0	18	0	103
ISO #5 SRO)	0	0	0	0	0	0	0	0	9	12	12	0	.25	0	9	0	42.25
ISO #6 (20)	0	0	0	0	0	0	0	0	3.5	59.5	18	0	1	0	18	0	100
ISO #1 (20)	0	0	0	0	0	0	0	0	9	12	12	0	.25	0	9	0	42.25
ISO #5 SRO)	0	0	0	0	0	30	7.5	0	3.5	27.5	18	0	1	0	18	0	98
ISO #6 (20)	0	0	0	0	0	0	0	0	9	12	12	0	.25	0	9	0	49.75
ISO #6 (20)	0	0	0	0	0	0	0	0	2	0	18	0	1	0	11	0	32
ISO #1 (20)	0	0	0	0	0	0	0	0	6	0	12	0	.25	0	5.5	0	23.75
ISO #1 (20)	0	0	0	0	0	0	0	0	6	0	12	0	.25	0	5.5	0	23.75

HOT PARTICIPATION EXPERIENCE

TIME > PWR/BWR (WKS)
STARTUP & SHUTDOWN (YES/NO)
MONTHS ON SHIFT

WATCH ENGINEER (SRO)
0
NO/NO
0

WATCH SUPERVISOR (SRO)
4
YES/YES
1.5

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 circumstance arises.

NOTE: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OF APPLICANTS)".
NOTE: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO's (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

DATE March 2, 1984
 PLANT NAME Shoreham (Crew D)
 UTILITY Long Island Lighting Company

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

JOB TITLE (NOTE 2)	WEIGHTING FACTOR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER BWR/PWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER BWR/PWR	NAVY (MILITARY) NUC.OPER.EXPER.		SIMULATOR TRAINING		NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L		PARTICI- PATION AT OPER- ATING PLANT	OTHER NUCLEAR PLANT EXPER- IENCE	LICENCE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS- ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.
						RO EWS EOOW, PPWS	OTHER	PLANT SPECIFIC	SIMILAR	>1 1/2 yr.	<1 1/2 yr.						
Watch Engineer #4 (SRO)	#MOS / #MOS X W.E.	0	0	0	0	0	32	0	3.5	62.5 ⁵ (4)	18 .75	1.5	1	0	18	0	136.5
Watch (4) Super- visor (SRO)		0	0	0	0	0	8	0	9	12	12	1.125	.25	0	9	0	51.375
NSO #4 (RO)		0	0	0	0	0	0	0	9	12	12	1.125	.25	0	9	0	43.375
NASO #7 (RO)		0	0	0	0	0	49	0	3.5	29.5	18	0	1	0	18	0	110
NASO #8 (RO)		0	0	0	0	0	12.25	0	9	12	12	0	.25	0	9	0	54.5
		0	0	0	0	0	73	0	2	4	18	0	1	0	11	0	109
		0	0	0	0	0	18.25	0	6	2	12	0	.25	0	5.5	0	44

HOT PARTICIPATION EXPERIENCE

CHECK ONE OF THE FOLLOWING:

TIME > PWR/BWR (WKS)
 STARTUP & SHUTDOWN (YES/NO)
 MONTHS ON SHIFT

WATCH ENGINEER (SRO)

4
 YES/YES
 1.5

WATCH SUPERVISOR (SRO)

4
 YES/YES
 1.5

- ☐ 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.

NOTE: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)".
 NOTE: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO's (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

DATE March 2, 1984
 PLANT NAME Shoreham (Crew E)
 UTILITY Long Island Lighting Company

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

JOB TITLE (NOTE 2)	WEIGHTING FACTOR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER BWR/PWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER BWR/PWR	NAVY (MILITARY) NUC. OPER. EXPER.		SIMULATOR TRAINING		NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L		PARTICI- PATION AT OPER- ATING PLANT	OTHER NUCLEAR PLANT EXPERI- ENCE	LICENCE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS- ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.
						RO EWS EOOW, PPWS	OTHER	PLANT SPECIFIC	SIMILAR	>1 1/2 yr.	<1 1/2 yr.						
Watch Engineer #5 (SRO)	#MOS/#MOS X W.F.	0	0	0	0	0	0	0	3.5	72	18	1.5	1	0	18	0	114
Watch Super- visor #5 (SRO)		0	0	0	0	0	0	0	3.5	65	18	1.125	.25	0	9	0	43.375
NSO #5 (RO)		0	0	0	0	0	0	0	3.5	65	18	1.125	.25	0	9	0	43.375
VASO #9 (RO)		0	0	0	0	0	0	0	3.5	12	12	0	.25	0	9	0	42.25
VASO #10 (RO)		0	0	0	0	0	11.5	0	9	6	12	0	.25	0	9	0	47.75
		0	0	0	0	0	12.25	0	6	0	12	0	.25	0	5.5	0	36

NOT PARTICIPATION EXPERIENCE

CHECK ONE OF THE FOLLOWING:

TIME > PWR/BWR (WKS)
 STARTUP & SHUTDOWN (YES/NO)
 MONTHS ON SHIFT

WATCH ENGINEER (SRO)
 4
 YES/YES
 1.25

WATCH SUPERVISOR (SRO)
 4
 YES/YES
 1.5

- ☐ 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.

NOTE: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)".
 NOTE: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO's (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

DATE March 2, 1984
 PLANT NAME Shoreham (Crew F)
 UTILITY Long Island Lighting Company

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

JOB TITLE (NOTE 2)	WEIGHTING FACTOR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER BWR/PWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER BWR/PWR	NAVY (MILITARY) NUC. OPER. EXPER.		SIMULATOR TRAINING		NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L		PARTICI- PATION AT OPER- ATING PLANT	OTHER NUCLEAR PLANT EXPER- IENCE	LICENCE TRAINING		DEGREE	TOTAL NUC. PLANT EXPER.
						RO EWS EOOW, PPWS	OTHER	PLANT SPECIFIC	SIMILAR	>1½ yr.	<1½ yr.			CONDUCT LICENSE TRNG.	LICENSE CLASS- ROOM TRNG. & EXAM		
atch ngineer 6 (SRO)	#MOS/#MOS X W.E.	1.0	.75	1.0	.75	.5	.15	5.0	3.0	.5 (4)	.75	.75	.25	.25	.5	.25	
		0	0	0	0	0	0	0	3.5	64	18	1.5	1	0	18	50*	12
		0	0	0	0	0	0	0	9	12	12	1.125	.25	0	9	5	48.375
atch uper- isor #6 SRO)		0	0	0	0	0	0	0	3.5	65	18	1.5	1	0	18	0	107
		0	0	0	0	0	0	0	9	12	12	1.125	.25	0	9	0	43.375
SO #6 RO)		0	0	0	0	0	48	0	3.5	32	18	0	1	0	18	20*	120.5
		0	0	0	0	0	12	0	9	12	12	0	.25	0	9	2	56.25
ASO #11 SRO)		0	0	0	0	0	78	0	3.5	32	18	0	1	0	18	0	150.5
		0	0	0	0	0	19.5	0	9	12	12	0	.25	0	9	0	61.75
ASO #12 RO)		0	0	0	0	49	0	0	3.5	5	18	0	1	0	18	0	04.5
		0	0	0	0	24.5	0	0	9	9.5	12	0	.25	0	9	0	57.25

HOT PARTICIPATION EXPERIENCE

WATCH ENGINEER (SRO)

WATCH SUPERVISOR (SRO)

TIME > PWR/BWR (WKS)

4

4

STARTUP & SHUTDOWN (YES/NO)

YES/YES

YES/YES

MONTHS ON SHIFT

1.5

1.5

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 circumstance arises.

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

NOTE: INCLUDE ALL SHIFT SUPERVISORS (SS), SHIFT SRO's (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA). * College credits in engineering/science

DATE March 2, 1984PLANT NAME ShorehamUTILITY Long Island Lighting Company

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

JOB TITLE (NOTE 2)	WEIGHTING FACTOR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER BWR/PWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. RO EXPER. AT OTHER BWR/PWR	NAVY (MILITARY) NUC.OPER.EXPER.		SIMULATOR TRAINING		NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L		PARTICI- PATION AT OPER- ATING PLANT	OTHER NUCLEAR PLANT EXPER- IENCE	LICENCE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS- ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.
						RO EWS EOOW, PPWS	OTHER	PLANT SPECIFIC	SIMILAR	>14 yr.	<14 yr.						
		1.0	.75	1.0	.75	.5	.25	5.0	3.0	(4)	.5	.75	.75	.25	.25	.25	.25
STA	#MOS/#MOS X W.F.																
STA#1		0 0	0 0	0 0	0 0	0 0	0 0	0 0	.75 2.25	0 0	0 6.75	0 0	0 0	0 0	2 1	BS 12	11.75 22
STA#2		0 0	0 0	0 0	0 0	0 0	0 0	0 0	.75 2.25	0 0	0 6.75	0 0	0 0	0 0	2 1	BS 12	11.75 22
STA#3		0 0	0 0	0 0	0 0	0 0	0 0	0 0	.75 2.25	0 0	0 6.75	0 0	0 0	0 0	2 1	BS 12	11.75 22
STA#4		0 0	0 0	0 0	0 0	0 0	0 0	0 0	.75 2.25	0 0	0 6.75	0 0	0 0	0 0	2 1	BS 12	11.75 22
STA#5		0 0	0 0	0 0	0 0	37 18.5	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	1 .5	BS 12	38 31
STA#6		0 0	0 0	0 0	0 0	0 0	0 0	0 0	.75 2.25	0 0	0 0	11 9.25	6 1.5	0 0	.5 .25	MS 12	18.25 24.25

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

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