



LONG ISLAND LIGHTING COMPANY

SHOREHAM NUCLEAR POWER STATION

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

JOHN D. LEONARD, JR.
VICE PRESIDENT - NUCLEAR OPERATIONS

August 21, 1984

SNRC-1070

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

Facility Staffing Update
Shoreham Nuclear Power Station - Unit 1
Docket No. 50-322

- References:
1. Letter (SNRC-997) from J. L. Smith (LILCO) to H. R. Denton, dated December 21, 1983
 2. Letter (SNRC-1028) from J. Notaro (LILCO) to H. R. Denton, dated March 22, 1984
 3. Letter from D. G. Eisenhut (NRC) to M. S. Pollock (LILCO), dated May 31, 1984
 4. Letter (SNRC-1064) from J. D. Leonard (LILCO) to H. R. Denton, dated July 2, 1984

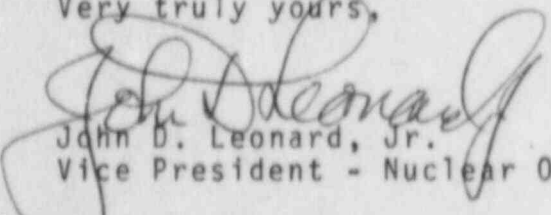
Dear Mr. Denton:

As requested in Reference 3 and noted in Reference 4, enclosed please find updates to our submittals on operating shift staffing transmitted via references 1 and 2. This submittal includes qualification matrices for on-site management, operating shift personnel, and shift technical advisors.

The changes have been marked with revision bars in the right-hand margin.

If you have any questions, do not hesitate to contact this office.

Very truly yours,


John D. Leonard, Jr.
Vice President - Nuclear Operations

NRL:ck

Enclosure

8408300123 840821
PDR ADOCK 05000322
V PDR

cc: P. Eselgroth
C. Petrone

M003
.140

A. QUESTIONNAIRE

FACILITY STAFFING SURVEY
(As of August 9, 1984)

The attached survey has been prepared to assist in developing the expected staffing profile for your facility that will be in place at the time you are ready to obtain an operating license. Please fill in the blanks with the best information available.

*TELECOPY RESPONSE REQUESTED ON FRIDAY DEC. 9, FORMAL DOCUMENTATION LETTER BY FRIDAY, DECEMBER 16, 1983.

FACILITY STAFFING SURVEY

Plant: Shoreham Nuclear Power Station

Anticipated Licensing Date: 10/84

A. OPERATING SHIFT

1.	No. of Shifts			<u>6</u>	
2.	No. of ROs Assigned to Shift Work			<u>13</u>	
	No. of Yrs. of Commercial RO experience on Hot Plants (post-initial criticality)		BWR	PWR	
			<u>0</u>	<u>0</u>	
3.	No. of SROs Assigned to Shift Work			<u>16</u>	
	No. of Yrs. of Commercial RO experience on Hot Plants		BWR	PWR	
			<u>0</u>	<u>0</u>	
	No. of Yrs. of Commercial SRO experience on Hot plants		C BWR	0 PWR	
			<u>0</u>	<u>0</u>	
4.	No. of SROs with 4-yr. Degree	Non-Engineering		Engineering	
		<u>0</u>		<u>7</u>	
5.	No. of Shift Supervisors (SS)	Non-Engineering		Engineering	
		<u>0</u>		<u>0</u>	

NOTE: SS is senior authority on shift work.

B. ON-SITE MANAGEMENT

	STA	Operations Engineer	Reactor Engineer	Operations Div. Manager	Plant Manager	Maintenance Div. Manager	Outage/Mod. Div. Manager	Radiological Controls Div. Manager
NRC license at time of OL	No	Yes	No	Yes	Yes	No	Yes	No
Previously Licensed	No	No	No	No	Yes SRO (N.S. Savannah)	No	No	No
RO/SRO Certification	-	SRO Cert. (Dresden)	SRO Cert. (Dresden)	SRO Cert. (Dresden)	SRO (Cooper)	SRO Cert. (Dresden)	SRO Cert. (Dresden)	-
Type Plant	-	BWR	BWR	BWR	Marine (N.S.S) BWR (Cooper)	BWR	BWR	-
No. Years	-	-	-	-	2	-	-	-
No. Years "Hot" Exp.	-	8 (Knolls Atomic Power Laboratory)	3 (Navy)	-	2	-	-	-
Degreed	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Type Discipline(s)	BSME(3) BSEE BSPhysics MSNE(3) MSME	BSME	BSEcon MSNE MSMgt	BSME MSNE	BSME MSNE	BSME	BSME MBA	BSCHE MSHP
Level (A/B/M/D)	B M	B	B M M	B M	B M	B	B M	B M

NOTE: Operational QA is no longer a part of Shoreham's Plant Staff

C. CORPORATE NUCLEAR EXPERIENCE (As of August 9, 1984)

POSITION	NAME	NUC. NAVY (yrs.)	Operator Lic. RO/SRO	Yrs. at Oper. Nuc. Stations (On Site)	Years at Other Nuc. Support/ Management Position (Off Site)	Degree Level	Disciplines
VP-Nuclear Operations	John D. Leonard, Jr.	12 (5 in command)	Cert. by Dir. of Nav. Reac. (AEC) for Nav. Nuc. Prop. Plants	5 (BWR-Plt. Mgr.)	5 (BWR & PWR)	B M	Phy Phy/NE
Manager, Nuclear Engr. Dept.	Edward J. Youngling	0	SRO Certified	1 (BWR) 2 (PWR)	None	B	ME
Director, Quality Assurance, Safety and Compliance	Robert A. Kubinak	0	SRO Certified RO (Dresden 1 & 2)	1.25 (BWR)	None	B M M	EE MBA Comp. Sci.
Assistant to the VP-Nuclear Operations	Donald J. Binder	0	None	None	None	B M	ME NE
Manager, Nuclear Project Engineering	Robert M. Kascsak	0	None	None	None	B M	ME NE
Manager, Engineering Assurance	Hancock Chau	0	None	None	None	B B M D	Bio ChE ME ME
Manager, Nuclear Fuel	William J. Tunney	0	None	None	7 (Nat'l. Lab)	B	Phy
Manager, Radiation Protection	Elias Stergakos	0	RO (Research Reactor)	None	5 (Research Reactor)	B M D	Phy Phy NE
Manager, Nuclear Systems Engineering	John A. Rigert	0	None	None	None	B M	ME NE
Manager, Nuclear Operations Support Dept.	Jeffrey L. Smith	0	SRO Certified	.5 (PWR & BWR)	.5 (PWR)	B M	ME NE
Manager, Nuclear Licensing and Regulatory Affairs	Brian R. McCaffrey	0	None	None	None	B M M	Aero E Aero E NE

DATE: August 9, 1984
 PLANT NAME: SHOREHAM NUCLEAR POWER STATION
 UTILITY: LONG ISLAND LIGHTING COMPANY

CREW A

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

JOB TITLE	WEIGHTING FACTOR (WF)	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. RO,EWS, OTHER PPWS		SIMULATOR TRAINING PLANT SPECIFIC SIMILAR		NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L		PARTICIPATION AT OPERATING PLANT	OTHER NUCLEAR PLANT EXPERIENCE	LICENSE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS-ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.
		>15 yr.	<15 yr.	>15 yr.	<15 yr.												
NOTE 2		1.0	.75	1.0	.75	.5	.25	5.0	3.0	(4) .5	.75	.75	.25	.25	.5	.25	
WATCH ENGR. #1 (SRO)	#MOS	0	0	0	0	0	0	0	3.5	78.5	18	1.5	1	0	18	0	120.5
	#MOS x WF	0	0	0	0	0	0	0	9	12	12	1.125	.25	0	9	0	43.5
WATCH SUPERVISOR #1 (SRO)	#MOS	0	0	0	0	0	46	0	3.5	60.5	18	1.5	1	0	18	0	148.5
	#MOS x WF	0	0	0	0	0	11.5	0	9	12	12	1.125	.25	0	9	0	54.875
NSO #1 (SRO)	#MOS	0	0	0	0	0	47	0	3.5	27.5	18	0	1	0	18	0	115
	#MOS x WF	0	0	0	0	0	11.75	0	9	12	12	0	.25	0	9	0	54
NASO #1 (SRO)	#MOS	0	0	0	0	0	30	0	3	10	18	0	1	0	18	0	80
	#MOS x WF	0	0	0	0	0	7.5	0	9	5	12	0	.25	0	9	0	42.75
NASO #2 (RO)	#MOS	0	0	0	0	0	50	0	2	0	18	0	1	0	11	0	82
	#MOS x WF	0	0	0	0	0	12.5	0	6	0	12	0	.25	0	5.5	0	36.25

HOT PARTICIPATION EXPERIENCE

CHECK ONE OF THE FOLLOWING:

TIME ON PWR/BWR (WKS)	WATCH ENGINEER (SRO)	WATCH SUPERVISOR (SRO)
STARTUP/SHUTDOWN	4	4
MONTHS ON SHIFT	YES/YES	YES/YES
	1.5	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 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)".
 NOTE 2: INCLUDES ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

*College credits in

DATE: August 9, 1984
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 UTILITY: LONG ISLAND LIGHTING COMPANY

CREW B

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

JOB TITLE	WEIGHTING FACTOR (WF)	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		PARTICIPATION AT OPERATING PLANT	OTHER NUCLEAR PLANT EXPERIENCE	LICENSE 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.										
NOTE 2		1.0	.75	1.0	.75	.5	.25	5.0	3.0	(4) .5	.75	.75	.25	.25	.5	.25	
WATCH ENGR. #3 (SRO)	#MOS	0	0	0	0	0	0	0	3.5	59.5	18	1.5	1	0	18	0	101.5
WATCH SUPERVISOR #2 (SRO)	#MOS x WF	0	0	0	0	0	0	0	9	12	12	1.25	.25	0	9	0	43.5
WATCH SUPERVISOR #2 (SRO)	#MOS	0	0	0	0	0	42	0	3.5	62.5	18	0	1	0	18	46*	145
NSO #2 (SRO)	#MOS x WF	0	0	0	0	0	10.5	0	9	12	12	0	.25	0	9	4.6	57.35
NSO #2 (SRO)	#MOS	0	0	0	0	0	0	0	3.5	62.5	18	0	1	0	18	0	103
NASO #3 (RO)	#MOS x WF	0	0	0	0	0	0	0	9	12	12	0	.25	0	9	0	42.25
NASO #3 (RO)	#MOS	0	0	0	0	0	0	0	3	0	18	0	1	0	18	0	40
NASO #4 (RO)	#MOS x WF	0	0	0	0	0	0	0	9	0	12	0	.25	0	9	0	30.25
NASO #4 (RO)	#MOS	0	0	0	0	45	0	0	2	0	18	0	1	0	11	0	77
NASO #4 (RO)	#MOS x WF	0	0	0	0	22.5	0	0	6	0	12	0	.25	0	5.5	0	46.25

HOT PARTICIPATION EXPERIENCE

TIME ON PWR/BWR (WKS)	WATCH ENGINEER (SRO)	WATCH SUPERVISOR (SRO)
STARTUP/SHUTDOWN	6 WKS	0
MONTHS ON SHIFT	YES/YES	NO/NO
	2	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 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)".
 NOTE 2: INCLUDES ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S (STO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA).

*College credits in engineering/science.

DATE: August 9, 1984
 PLANT NAME: SHOREHAM NUCLEAR POWER STATION
 UTILITY: LONG ISLAND LIGHTING COMPANY

CREW C

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

JOB TITLE NOTE 2	WEIGHTING FACTOR(WF)	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. SS/SRO EXPER. AT OTHER PWR/PWR	COMM.LIC. HOT OPER. RO EXPR. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. RO EXPR. AT OTHER BWR/PWR	NAVY (MILITARY) NUC.OPER.EXPER. RO. EWS OTHER EOW, PPWS		SIMULATOR TRAINING PLANT SPECIFIC		NUCLEAR PLANT EXPERIENCE ON SHIPT (OWN PLANT) PRIOR TO F/L 0-14 yr. 15-24 yr.		PARTICI- PATION AT OPER- ATING PLANT	OTHER NUCLEAR PLANT EXPER- IENCE	LICENSE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS- ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.
		5.0	3.0	14	15												
WATCH ENGR. #2 (SRO)	#MOS x WF	0	0	0	0	19.5	0	0	5	12	12	0	12	0	9	0	73.5
WATCH SUPERVISOR #3 (SRO)	#MOS x WF	0	0	0	0	0	0	0	9	12	12	0	12	0	9	0	42.25
NASO #3 (SRO)	#MOS	0	0	0	0	0	0	0	3.5	59.5	18	0	1	0	18	0	100
	#MOS x WF	0	0	0	0	0	0	0	9	12	12	0	.25	0	9	0	42.25
NASO #5	#MOS	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	#MOS x WF	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NASO #6 (RO)	#MOS	0	0	0	0	0	0	0	2	0	18	0	1	0	11	0	32
	#MOS x WF	0	0	0	0	0	0	0	6	0	12	0	.25	0	5.5	0	23.75

HOT PARTICIPATION EXPERIENCE

TIME ON PWR/BWR (WKS)	WATCH ENGINEER (SRO)	WATCH SUPERVISOR (SRO)
STARTUP/SHUTDOWN	0	4
MONTHS ON SHIPT	NO/NO	YES/YES
	0	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 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIPT POSITIONS (OL APPLICANTS)".
 NOTE 2: INCLUDES ALL SHIPT SUPERVISORS (SS), SHIPT SRO'S (SRO), REACTOR OPERATORS (RO) AND SHIPT TECHNICAL ADVISORS (STA).

DATE: August 9, 1984
 PLANT NAME: SHOREHAM NUCLEAR POWER STATION
 UTILITY: LONG ISLAND LIGHTING COMPANY

CREW D

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

JOB TITLE	WEIGHTING FACTOR (WF)	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. AT OTHER PWR/BWR	COMM.LIC. HOT OPER. AT OTHER BWR/PWR	NAVY (MILITARY) NUC.OPER.EXPER. RO, EWS, OTHER BOOW, PPWS		SIMULATOR TRAINING PLANT SPECIFIC SIMILAR		NUCLEAR PLANT EXPERIENCE ON SHIPT (OWN PLANT) PRIOR TO F/L		PARTICIPATION AT OPERATING PLANT	OTHER NUCLEAR PLANT EXPERIENCE	LICENSE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS-ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.
		>1yr.	<1 yr.	>1yr.	<1 yr.												
NOTE 2		1.0	.75	1.0	.75	.5	.25	5.0	3.0	(4) .5	.75	.75	.25	.25	.5	.25	
WATCH ENGR. #1 (SRO)	#MOS	0	0	0	0	0	32	0	3.5	62.5	18	1.5	1	0	18	0	136.5
WATCH #4 SUPERVISOR # (SRO)	#MOS x WF	0	0	0	0	0	8	0	9	12	12	1.125	.25	0	9	0	51.375
	#MOS	0	0	0	0	0	0	0	3.5	60.5	18	1.5	1	0	18	0	102.5
	#MOS x WF	0	0	0	0	0	0	0	9	12	12	1.125	.25	0	9	0	43.375
NSO #4 (SRO)	#MOS	0	0	0	0	0	0	0	3.5	59.5	18	0	1	0	18	0	100
	#MOS x WF	0	0	0	0	0	0	0	9	12	12	0	.25	0	9	0	42.25
NSO #7 (SRO)	#MOS	0	0	0	0	0	49	0	3.5	29.5	18	0	1	0	18	0	119
	#MOS x WF	0	0	0	0	0	12.25	0	9	12	12	0	.25	0	9	0	54.5
NSO #8 (RO)	#MOS	0	0	0	0	0	73	0	2	4	18	0	1	0	11	0	109
	#MOS x WF	0	0	0	0	0	18.25	0	6	2	12	0	.25	0	5.5	0	44

HOT PARTICIPATION EXPERIENCE

TIME ON PWR/BWR (MOS)	WATCH ENGINEER (SRO)	WATCH SUPERVISOR (SRO)
STARTUP/SHUTDOWN	4	4
MONTHS ON SHIPT	YES/YES	YES/YES
	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 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIPT POSITIONS (OL APPLICANTS)"
 NOTE 2: INCLUDES ALL SHIPT SUPERVISORS (SS), SHIPT SRO'S (SRO), REACTOR OPERATORS (RO) AND SHIPT TECHNICAL ADVISORS (STA)

DATE: August 9, 1984
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 UTILITY: LONG ISLAND LIGHTING COMPANY

CREW E

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

JOB TITLE NOTE 2	WEIGHTING FACTOR (WF)	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. RO,EWS, EOOW, PPWS		SIMULATOR TRAINING PLANT SPECIFIC		SIMILAR		NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L >1 1/2 yr. <1 1/2 yr.	PARTICI- PATION AT OPER- ATING PLANT	OTHER NUCLEAR PLANT EXPER- IENCE	LICENSE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS- ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER
WATCH ENGR. #5 (SRO)	#MOS #MOS x WF	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5.0 3.0	3.5 9	72 12	18 12	1.5 1.125	1 .25	0 0	18 9	0 0	114 43.375
WATCH SUPER- VISOR #5 (SRO)	#MOS #MOS x WF	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5.0 3.0	3.5 9	65 12	18 12	1.5 1.125	1 .25	0 0	18 9	0 0	107 43.375
NASO #5 (NSO)	#MOS #MOS x WF	0 0	0 0	0 0	0 0	0 0	0 0	0 0	5.0 3.0	3.5 9	65 12	18 12	0 0	1 .25	0 0	18 9	0 0	105.5 42.25
NASO #9 (SRO)	#MOS #MOS x WF	0 0	0 0	0 0	0 0	0 0	46 11.5	0 0	5.0 3.0	3.5 9	12 6	18 12	0 0	1 .25	0 0	18 9	0 0	98.5 47.75
NASO #10 (RO)	#MOS #MOS x WF	0 0	0 0	0 0	0 0	0 0	49 12.25	0 0	5.0 3.0	2 6	0 0	18 12	0 0	1 .25	0 0	11 5.5	0 0	81 36

HOT PARTICIPATION EXPERIENCE

TIME ON PWR/BWR (WKS)
 STARTUP/SHUTDOWN
 MONTHS ON SHIFT

WATCH ENGINEER (SRO)
 4
 YES/YES
 1.25

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 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"
 NOTE 2: INCLUDES ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA)

DATE: August 9, 1984
 PLANT NAME: SHOREHAM NUCLEAR POWER STATION
 UTILITY: LONG ISLAND LIGHTING COMPANY

CREW F

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

JOB TITLE	WEIGHTING FACTOR (WF)	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. RO, EWS, EOCW, PPWS	OTHER	SIMULATOR TRAINING PLANT SPECIFIC	SIMILAR	NUCLEAR PLANT EXPERIENCE ON SHIFT (OWN PLANT) PRIOR TO F/L	PARTICIPATION AT OPERATING PLANT	OTHER NUCLEAR PLANT EXPERIENCE	LICENSE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS-ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.	
		> 1 1/2 yr.	< 1 1/2 yr.														
NOTE 2		1.0	.75	1.0	.75	.5	.25	5.0	3.0	(4) .5 .75	.75	.25	.25	.5	.25		
WATCH ENGR. #6 (SRO)	#MOS	0	0	0	0	0	0	0	3.5	64	18	1.5	1	0	18	50*	112
WATCH SUPERVISOR #6 (SRO)	#MOS x WF	0	0	0	0	0	0	0	9	12	12	1.125	.25	0	9	5	48.375
NSO #6 (SO)	#MOS	0	0	0	0	0	48	0	3.5	32	18	0	1	0	18	20*	120.5
	#MOS x WF	0	0	0	0	0	12	0	9	12	12	0	.25	0	9	0	56.25
NASO #11 (SRO)	#MOS	0	0	0	0	0	78	0	3.5	32	18	0	1	0	18	0	150.5
	#MOS x WF	0	0	0	0	0	19.5	0	9	12	12	0	.25	0	9	0	61.75
NASO #14 (RO)	#MOS	0	0	0	0	0	0	0	2	0	18	0	1	0	11	0	32
	#MOS x WF	0	0	0	0	0	0	0	6	0	12	0	.25	0	5.5	0	23.75

HOT PARTICIPATION EXPERIENCE

CHECK ONE OF THE FOLLOWING:

TIME ON PWR/BWR (WKS)	WATCH ENGINEER (SRO)	WATCH SUPERVISOR (SRO)
STARTUP/SHUTDOWN	4	4
MONTHS ON SHIFT	YES/YES	YES/YES
	1.5	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 1: SEE "INSTRUCTIONS FOR USE OF NUCLEAR POWER PLANT EXPERIENCE FACTORS FOR OPERATING SHIFT POSITIONS (OL APPLICANTS)"
 NOTE 2: INCLUDES ALL SHIFT SUPERVISORS (SS), SHIFT SRO'S (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA)

* College credits in engineering/science.

DATE: August 9, 1984
 PLANT NAME: SHOREHAM NUCLEAR POWER STATION
 UTILITY: LONG ISLAND LIGHTING COMPANY

SHIFT TECHNICAL ADVISOR

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

JOB TITLE	WEIGHTING FACTOR (WF)	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	LICENSE CONDUCT LICENSE TRNG.	TRAINING LICENSE CLASS-ROOM TRNG. & EXAM	DEGREE	TOTAL NUC. PLANT EXPER.
		RO. EWS, EOCW, PPWS	OTHER	PLANT SPECIFIC	SIMILAR	> 1 1/2 yr.	< 1 1/2 yr.										
NOTE 2		1.0	.75	1.0	.75	.5	.25	5.0	3.0	(4) .5	.75	.75	.25	.25	.25		
STA 1	#MOS	0	0	0	0	0	0	0	0	0	0	16	0	0	8	MS	24
	#MOS x WF	0	0	0	0	0	0	0	0	0	0	12	0	0	2	18	32
STA 2	#MOS	0	0	0	0	37	0	0	0	0	0	0	0	0	6	BS	43
	#MOS x WF	0	0	0	0	18.5	0	0	0	0	0	0	0	0	1.5	12	32
STA 3	#MOS	0	0	0	0	0	0	0	1.25	0	10	0	0	0	4	BS	15.25
	#MOS x WF	0	0	0	0	0	0	0	3.75	0	7.5	0	0	0	1	12	23.25
STA 4	#MOS	0	0	0	0	0	0	0	1.25	0	10	0	0	0	4	BS	15.25
	#MOS x WF	0	0	0	0	0	0	0	3.75	0	7.5	0	0	0	1	12	23.25
STA 5	#MOS	0	0	0	0	0	0	0	1.25	0	10	0	0	0	4	BS	15.25
	#MOS x WF	0	0	0	0	0	0	0	3.75	0	7.5	0	0	0	1	12	23.25

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 (SRO), REACTOR OPERATORS (RO) AND SHIFT TECHNICAL ADVISORS (STA)