

PRELIMINARY

SHOREHAM
EQUIPMENT LISTS
AT
QUALIFICATION LEVEL

February 2, 1981

8 102 100 320

THIS DOCUMENT CONTAINS
POOR QUALITY PAGES

FOREWORD

The Shoreham equipment lists, first presented to the NRC at the January 13, 1981 meeting, have been revised as follows:

1. Missing qualification report numbers and frequencies have been added;
2. The lists have been sorted on the qualification report number;
3. An explanation of the Stone and Webster Mark Number system for identifying equipment has been included.

Several cases of equipment qualified by similarity are listed below:

NSSS

Local Panels

Control Room Panels

Mark Number

All H21 items

All H11 items

BOP-CB

Motor Control Centers

Circuit Breaker Panels

Mark Number

All 1R24*MCC items

All 1R24*PNL items

SHOREHAM UNIT 1
 JOB NUMBER 11600
 LILCO DOCKET 50-322

GE LIST
 8-SORT

STONE & WEBSTER ENGINEERING CORPORATION
 GENERAL ELECTRIC CATEGORY I EQUIPMENT
 N555 QUALIFICATION LEVEL (154 ITEMS)

RUN DATE 01/26/81
 RUN TIME 14.19.56
 PAGE 1 of 8

MARK NUMBER	EQUIPMENT DESCRIPTION	GE NO.	VENDOR	BLDG ELEV	A ILL INSP	QUAL REPT	QUAL METH	F EQ	TYPE HTNG	EQUIP FUNC	QUAL STATUS
1B21*AOV081	ISOLATION VALVE-MS	B21F022	ROCKWELL	SC082	YES		SA		P	HS	B
1B21*AOV082	ISOLATION VALVE-MS	B21F028	ROCKWELL	SC082	YES		SA		P	HS	B
1B21*FE 002	FLOW ELEMENT	B21N005	PERMUTIT	SC087			SA		P		B
1B31*FE 010	RECIRC FLOW ELEM	B31N013	BIF	SC080			SA		P		D
1B31*MOV032	RECIRC DISCHARGE VALVE	B31F031	ANCHOR	SC014	YES		SA/DA		P	CS	C
1B31*P- 001	RECIRC PUMP & MOTOR	B31C001	BJ/GE		YES		SA		P		D
1C11*AOV081	HCU DIAPHRAGH VALVE	C11F010	HKM	SC078	YES		SA		P	HS	C
1C11*AOV082	HCU DIAPHRAGH VALVE	C11F011	HKM	SC040	YES		SA		P		C
1C11*RV 096	HCU RELIEF VALVE	C11F012	CROSBY	SC084	YES		SA		P	HS	C
1C41*TK-150	SLC ACCUMULATORS	C41A003	HYDRA CON	SC097	YES		SA		P		C
1E11*		E11N029									D
1E11*P-014	RHR PUMPS & MOTORS	E11C002	BJ/GE	SC008	YES		DA		F	HS,CS	C
1E21*	PRESSURE SWITCH	E21N015	BARNSDALE				SAT		F		D
1E21*	PRESS SWITCH	E21N065	BARNSDALE	SC			SAT		F		D
1E21*	PRESS SWITCH	E21N066	BARNSDALE	SC			SAT		F		D
1E21*P-013	CS PUMPS & MOTORS	E21C001	BJ/GE	SC008	YES		DA		F		C
1E32*HC-053	MSIV LCS HTR	E32B001	GE	SC078			HBT		P		B
1E41*PT005	LEVEL SWITCH		MAGNETROL	SC008			SAT		F		D
1E41*TU-002	HPCI TURBINE	E41C002	TERRY	SC008	YES		HBT		F		C
1E51*		E51N021									D
1E51*		E51N027									D

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1E51*P-015	RCIC PUMP	E51C001	BINGHAM	SC008	YES		SA		F	HS	F
1F11*TO-005	FUEL PREP MACHINE	F11E001	GE	SC176			DA		F		C
1F11*TO-008	GEN PURPOSE GRAPPLE	F11E011	GE	SC176			SA		F		D
1F13*	HEAD STRONGBACK	F13E009	LAMCO	SC176			SA		F		D
1F13*SL-001	DRYER&SEP SLING	F13E008	CAL PAC	SC176			SA		F		D
1F14*TO-029	CONT ROD GRAPPLE	F14E002	GE	SC176			SA		F		D
1F15*CRN-009	REFUEL PLTF ASSY	F15E003	STERN ROG	SC176			DA		F		C
1F16*	POISON CURTAIN	F16E015	BNP				DA		F		C
1F16*CSK-01	DEF F STRG CONTAIN	F16E009	GE	SC137			DA		F		C
1F16*RAK-09	FUEL RACK(IN VESSL)	F16E006	VOTAH	SC176			DA		F		C
1F16*RAK-10	STRG RACK(CR&DEF F)	F16E004	GE	SC151			DA		F		C
1F16*RAK-11	NEW FUEL STRG RACKS	F16E007	GE	SC160			DA		F		C
1H21*PNL-30	SRM/IRM PREAMP RK	H21P030	GE	SC079	NO		HBT		F	HS,CS	C
1H21*PNL-31	SRM/IRM PREAMP RK	H21P031	GE	SC079	NO		HBT		F	HS,CS	C
1H21*PNL-32	SRM/IRM PREAMP RK	H21P032	GE	SC079	NO		HBT		F	HS,CS	C
1H21*PNL-33	SRM/IRM PREAMP RK	H21P033	GE	SC079	NO		HBT		F	HS,CS	C
1C61*PNL-RSP	REMOTE SHT DN PNL	C61P001		SC063	YES	DRF-A00992-C	SAT	14	F	CS	F
1H11*PNL-601	REAC&CORE COOL BB	H11P601	GE	CB063	YES	DRF-A00992-C	HBT	14	F	HS	F
1H11*PNL-602	RWCU & RECIRC BN	H11P602	GE	CB063	YES	DRF-A00992-C	HBT	14	F	HS	F
1H11*PNL-603	REACTOR CONTROL B	H11P603	GE	CB063	YES	DRF-A00992-C	HBT	14	F	HS	F
1H11*PNL-608	PWR RANGE NEUT CA	H11P608	GE	CB063	YES	DRF-A00992-C	HBT	22	F		C

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1H11*PNL-609	TRIP SYS A RPS VB	H11P609	GE	CB063	YES	DRF-A00992-C	HBT	22	F		F
1H11*PNL-611	TRIP SYS B RPS VB	H11P611	GE	CB063	YES	DRF-A00992-C	HBT	22	F		F
1H11*PNL-612	RW & RECIRC INSTR	H11P612	GE	CB063	YES	DRF-A00992-C	HBT	19	F	HS	F
1H11*PNL-613	PROCESS INSTR CAB	H11P613	GE	CB063	YES	DRF-A00992-C	HBT	14	F	HS	F
1H11*PNL-614	NSS TEMP LK DET VB	H11P614	GE	CB063	YES	DRF-A00992-C	HBT	22	F	HS	F
1H11*PNL-617	DIV 1 RHR RELAY VB	H11P617	GE	CB044	YES	DRF-A00992-C	HBT	19	F	HS,CS	F
1H11*PNL-618	RHR RELAY VB	H11P618	GE	CB044	YES	DRF-A00992-C	HBT	19	F	HS,CS	F
1H11*PNL-620	HPCI RELAY VERT BD	H11P620	GE	CB044	YES	DRF-A00992-C	HBT	14	F	HS	F
1H11*PNL-621	IC RELAY VERT BD	H11P621	GE	CB044	YES	DRF-A00992-C	HBT	14	F	HS	F
1H11*PNL-622	INBD ISO V RELAY VB	H11P622	GE	CB044	YES	DRF-A00992-C	HBT	21	F	HS	F
1H11*PNL-623	OUTBD ISO V REL VB	H11P623	GE	CB044	YES	DRF-A00992-C	HBT	21	F	HS	F
1H11*PNL-626	DIV 1 COR SP REL VB	H11P626	GE	CB044	YES	DRF-A00992-C	HBT	14	F	HS,CS	F
1H11*PNL-627	DIV 2 COR SP REL VB	H11P627	GE	CB044	YES	DRF-A00992-C	HBT	14	F	HS,CS	F
1H11*PNL-628	AUTO BLOWDOWN REL VB	H11P628	GE	CB044	YES	DRF-A00992-C	HBT	14	F	HS	F
1H11*PNL-631	AUTO DEPRESS	H11P631	GE	CB044	YES	DRF-A00992-C	HBT	14	F	HS	F
1H11*PNL-635	DIV 1 RAD MONITOR	H11P635	GE	CB063	YES	DRF-A00992-C	HBT	21	F	HS,CS	F
1H11*PNL-636	DIV 2 RAD MONITOR	H11P636	GE	CB063	YES	DRF-A00992-C	HBT	21	F	HS,CS	F
1H11*PNL-654	MSIL LISPCKAGE	H11P654	GE	CB063	YES	DRF-A00992-C	HBT	19	F	HS	F
1H11*PNL-655	MISL LISPCKAGE	H11P655	GE	CB063	YES	DRF-A00992-C	HBT	21	F	HS	F
1H21*PNL-01	CORE SPRAY RK CH A	H21P001	GE	SC008	YES	DRF-A00992-L	SAT	11	F	HS,CS	F
1H21*PNL-02	RNCJ SYSTEM INST	H21P002	GE	SC151	YES	DRF-A00992-L	SAT	8	F	HS	F

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1H21*PNL-04	RX VES L & P RACK	H21P004	GE	SC079	YES	DRF-A00992-L	SAT	8	F	HS,CS	F
1H21*PNL-05	RX VES L & P RACK	H21P005	GE	SC079	YES	DRF-A00992-L	SAT	8	F	HS,CS	F
1H21*PNL-06	RECIRC PUMP A RAC	H21P006	GE	SC040	YES	DRF-A00992-L	SAT	11	F	HS	F
1H21*PNL-09	JET PUMP A	H21P009	GE	SC079	YES	DRF-A00992-L	SAT	11	F	HS	F
1H21*PNL-10	JET PUMP INST RK	H21P010	GE	SC079	YES	DRF-A00992-L	SAT	11	F	HS	F
1H21*PNL-14	HPCI INST RACK	H21P014	GE	SC008	YES	DRF-A00992-L	SAT	8	F	HS	F
1H21*PNL-15	MAIN STM FLOW RK A	H21P015	GE	SC040	YES	DRF-A00992-L	SAT	8	F	HS	F
1H21*PNL-16	CS/HPCI LK DET I	H21P016	GE	SC008	YES	DRF-A00992-L	SAT	8	F	HS,CS	F
1H21*PNL-17	RCIC INST RACK	H21P017	GE	SC008	YES	DRF-A00992-L	SAT	8	F	HS	F
1H21*PNL-18	RHR INST RACK CH	H21P018	GE	SC008	YES	DRF-A00992-L	SAT	8	F	HS,CS	F
1H21*PNL-19	CORE SPRAY RK CH	H21P019	GE	SC008	YES	DRF-A00992-L	SAT	11	F	HS,CS	F
1H21*PNL-21	RHR INST RACK CH	H21P021	GE	SC008	YES	DRF-A00992-L	SAT	8	F	HS,CS	F
1H21*PNL-22	RECIRC PUMP B RAC	H21P022	GE	SC040	YES	DRF-A00992-L	SAT	8	F	HS	F
1H21*PNL-25	MAIN STM FLOW RK	H21P025	GE	SC040	YES	DRF-A00992-L	SAT	11	F	HS	F
1H21*PNL-26	RV LV & PRES RK	H21P026	GE	SC079	YES	DRF-A00992-L	SAT	11	F	HS,CS	F
1H21*PNL-34	HPCI LEAK DET RK	H21P034	GE	SC008	NO	DRF-A00992-L	SAT	60+	F	HS	F
1H21*PNL-35	CS/RCIC LK DET I	H21P035	GE	SC040	YES	DRF-A00992-L	SAT	11	F	HS	F
1H21*PNL-36	HPCI LEAK DET RK	H21P036	GE	SC008	YES	DRF-A00992-L	SAT	11	F	HS,CS	F
1H21*PNL-37	RCIC LEAK DET RK	H21P037	GE	SC008	YES	DRF-A00992-L	SAT	60+	F	HS	F
1H21*PNL-38	RCIC LEAK DET RK	H21P038	GE	SC040	YES	DRF-A00992-L	SAT	11	F	HS	F
1H21*PNL-41	MN STEAM FLOW IR	H21P041	GE	SC040	YES	DRF-A00992-L	SAT	11	F	HS	F

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1H21*PNL-73	HSIV LEAKAGE RK	H21P073	GE	SC063	YES	DRF-A00992-L	SAT	11	F	HS	F
1H21*PNL-74	HSIV LEAKAGE RK	H21P074	GE	SC063	YES	DRF-A00992-L	SAT	11	F	HS	F
1B21*D-003	CONDENSING CHAMBER	B21D002	GE	SC092		DRF-A00992-M	SA	60+	P		F
1B21*D-004	CONDENSING CHAMBERS	B21D004	GE	SC092		DRF-A00992-M	SA	60+	F		F
1B21*D-005	CONDENSING CHAMBERS	B21D006	GE	SC092		DRF-A00992-M	SA	60+	P		F
1C51*TIP-004	TIP VALVE GUIDE T	C51J004	GE	SC073	YES	DRF-A00992-M	SAT	60+	F		F
1B21*PS 020	PRESSURE SWITCH	B21N015	BARKSDALE	SC049		DRF-A00992-S	SAT	15	F		D
1B21*TE 003	TEMPERATURE ELEMENT	B21N040	CAL ALLOY	T083		DRF-A00992-S	SAT	10	F		D
1B21*TE 043X	TEMPERATURE ELEMENT	B21N016	NECI	T059		DRF-A00992-S	SAT	3	F		D
1B21*TE 043Y	TEMPERATURE ELEMENT	B21N010	NECI	T059		DRF-A00992-S	SAT	4	F		D
1B21*TE 059	TEMPERATURE ELEMENT	B21N014	NECI	T059		DRF-A00992-S	SAT	3	F		D
1B31*TE 025	TEMPERATURE ELEMENT	B31N023		SC		DRF-A00992-S	SAT	10	F		D
1C11*LS 095	LEVEL SWITCH	C11N013		SC		DRF-A00992-S	SAT	4	F		D
1C41*PI 002	PRESSURE INDICATOR	C41R003		SC		DRF-A00992-S	SAT	15	F		D
1C41*PT 002	PRESSURE TRANSHITTER	C41N004		SC		DRF-A00992-S	SAT	3	F		D
1C41*TS 001	TEMPERATURE SWITCH	C41N003		SC		DRF-A00992-S	SAT	60+	F		D
1C61*CE 016	COND TRANSMITTER	C61N008		SC063		DRF-A00992-S	SAT	3	F		D
1C61*FT 001	DIFF PRESS XHTR	C61N001	ROSEMOUNT	SC008		DRF-A00992-S	SAT	3	F		D
1C61*PT 006	PRESS TRANS	C61N006	GE MAC	SC079		DRF-A00992-S	SAT	4	F		D
1C71*PS 003	PRESSURE SWITCH	C71N003		SC		DRF-A00992-S	SAT	15	F		D
1E11*FT 004	DIFF PRESS XHTR	E11N013	ROSEMOUNT	SC078		DRF-A00992-S	SAT	3	F		D

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1E11*FT 006	DIFF PRESS TRANS	E11N007		SC078		DRF-A00992-5	SAT	10	F		D
1E11*LT 002	LEVEL XHTR	E11N008	BARTON	SC024		DRF-A00992-5	SAT	3	F		D
1E11*PS 134	PRESSURE SWITCH	E11N016	BARNSDALE	SC008		DRF-A00992-5	SAT	15	F		D
1E11*PS 135	PRESSURE SWITCH	E11N020	BARNSDALE	SC008		DRF-A00992-5	SAT	15	F		D
1E11*TE 014	TEMP ELEMENT	E11N009	NECI	SC023		DRF-A00992-5	SAT	3	F		D
1E11*TE 015	TEMP ELEMENT	E11N030	NECI	SC023		DRF-A00992-5	SAT	3	F		D
1E21*FIS002	PRESSURE SWITCH	E21N008	BARNSDALE	SC008		DRF-A00992-5	SAT	29	F		D
1E21*PS 098	PRESS INDIC SWITCH	E21N010		SC		DRF-A00992-5	SAT	15	F		D
1E21*PS013	PRESSURE SWITCH	E21N009	BARNSDALE	SC008		DRF-A00992-5	SAT	29	F		D
1E32*FE 037	HSIV LEAK TO LPH	E32N006		SC067		DRF-A00992-5	SAT	3	P		D
1E32*PDT035	DIFF PRESS TRANS	E32N059		SC		DRF-A00992-5	SAT	3	F		D
1E32*PT 033	GAGE PRESS TRANS	E32N055		SC		DRF-A00992-5	SAT	3	F		D
1E32*PT 034	ABS PRESS TRANS	E32N056		SC		DRF-A00992-5	SAT	3	F		D
1E41*LS 091	LEVEL SWITCH	E41N018		SC008		DRF-A00992-5	SAT	4	F		D
1E41*LS091	LEVEL SWITCH	E41N014	MAGNETROL	SC016		DRF-A00992-5	SAT	4	F		D
1E41*LS092	LEVEL SWITCH	E41N015	MAGNETROL	SC027		DRF-A00992-5	SAT	1	F		D
1E41*LS093A	LEVEL SWITCH	E41N002	MAGNETROL	YARD		DRF-A00992-5	SAT	1	F		D
1E41*LS093B	LEVEL SWITCH	E41N003	MAGNETROL	YARD		DRF-A00992-5	SAT	1	F		D
1E41*TE053	TEMPERATURE ELEMENT	E41N024		SC066		DRF-A00992-5	SAT	3	F		D
1E41*TE054	TEMPERATURE ELEMENT	E41N028	NECI	SC031		DRF-A00992-5	SAT	3	F		D
1E41*TE055	TEMPERATURE ELEMENT	E41N029	NECI	SC017		DRF-A00992-5	SAT	3	F		D

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1E41*TE056	TEMPERATURE ELEMENT	E41N030	NECI	SC075		DRF-A00992-S	SAT	3	F		D
1E41*TI141	TEMP INDICATOR	E41R002	NECI	SC008		DRF-A00992-S	SAT	60+	F		D
1E51*LS091	LEVEL SWITCH	E51N010	MAGNETROL	SC06P		DRF-A00992-S	SAT	4	F		D
1E51*TE052	TEMPERATURE ELEMENT	E51N011	NECI	SC025		DRF-A00992-S	SAT	3	F		D
1E51*TE053	TEMPERATURE ELEMENT	E51N022	NECI	SC031		DRF-A00992-S	SAT	3	F		D
1E51*TE054	TEMPERATURE ELEMENT	E51N023	NECI	SC075		DRF-A00992-S	SAT	3	F		D
1E51*TE055	TEMPERATURE ELEMENT	E51N025	NECI	SC066		DRF-A00992-S	SAT	3	F		D
1E51*TE056	TEMPERATURE ELEMENT	E51N026	NECI	SC075		DRF-A00992-S	SAT	3	F		D
1E51*TI141	THERMOMETER	E51R005		SC008		DRF-A00992-S	SAT	60+	F		D
1G33*FT012	DIFF PRESS TRANS	G33N041		SC		DRF-A00992-S	SAT	3	F		D
1G33*TE020E	TEMPERATURE ELEMENT	G33N042	CAL ALLOY	SC97		DRF-A00992-S	SAT	10	F		D
1G33*TE071	TEMPERATURE ELEMENT	G33N016	NECI	SC136		DRF-A00992-S	SAT	3	F		D
1B21*RV 092	RELIEF VALVE	B21F013	TARG ROCK	SC102	NO	K51-B21F013	MBT	60+	P	HS	F
1B31*MOV031	RECIRC SUCTION VALVE	B31F023	ANCHOR	SC017	YES	K51-B31F023	SA	41	P		F
1C11*RCU-01	CRD HYDRA CONT UNIT	C11D001	GE	SC078	YES	K51-C11D001	HST	2	F	HS,CS	F
1C41*TK-003	SLC STORAGE TANK	C41A001	LAMCO	SC113	YES	K51-C41A001	SA	59	F	CS	F
1C41*P-024	STDBY LIQ PUMP&MTR	C41C001	UNION P/H	SC113	YES	K51-C41C001	SBT	60+	F	CS	F
1C41*EV 010	EXPLOSIVE VALVE	C41F004	CONAX	SC120	YES	K51-C41F001	SBT	60+	P	CS	F
1E11*E-034	RHR HEAT EXCHANGERS	E11B001	PERFEX CP	SC008	YES	K51-E11B001	DA	14	F	HS,CS	F
1E41*FE 003	FLOW ORIFICE	E41N007	VICK SIHS	SC021		K51-E11N007	SA	60+	P	HS,CS	F
1E11*FE 004	RHR FLOW ORIFICE	E11N012	VICK SIHS	SC093	YES	K51-E11N012	SA	60+	P	HS,CS	F

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GE LIST
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STONE & WEBSTER ENGINEERING CORPORATION
 GENERAL ELECTRIC CATEGORY I EQUIPMENT
 NSSS QUALIFICATION LEVEL(154 ITEMS)

RUN DATE 01/26/81
 RUN TIME 14.19.56
 PAGE 8

MARK NUMBER	EQUIPMENT DESCRIPTION	GE NO.	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE MTNG	EQUIP FUNC	QUAL STATUS
1E41*FE 001	RHR FLOW ORIFICE	E11N014	VICK SIMS	SC057	YES	KS1-E11N014	SA	60+	P	HS,CS	F
1E21*FE 002	CS FLOW ORIFICE	E21N002	VICK SIMS	SC047	YES	KS1-E21N002	SA	60+	P	CS	F
1E32*BLO-14	INBD HSIV LCS BLOWER	E32C001	GE	SC076	YES	KS1-E32C001	SBT	60+	F	HS,CS	F
1E32*BLO-13	OUTBD HSIV LCS BLOWER	E32C002	GE	SC076	YES	KS1-E32C002	SBT	60+	F	HS,CS	F
1E41*P-016	HPCI PUMP&BOOSTER	E41C001	PACIFIC P	SC008	YES	KS1-E41C001	SA	23	F	HS,CS	F
1E51*TU-005	RCIC TURBINE	E51C002	TERRY	SC008	YES	KS1-E51C002	SA/HBT	15	F	HS	F
1E51*FE 003	FLOW ORIFICE	E51N001	VICK SIMS	SC018		KS1-E51N001	SA	60+	P	HS	F

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STONE & WEBSTER ENGINEERING CORPORATION
 REACTOR BUILDING CATEGORY I FLOOR-MOUNTED EQUIPMENT
 EOP QUALIFICATION LEVEL (199 ITEMS)

RUN DATE 01/23/81
 RUN TIME 14.18.12
 PAGE 1 of 10

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE	SAFE	QUAL STATUS
1G41*P-023	FUEL STORAGE POOL COOL	062G	SH	GOULD PUMP	SC151		HE-325	SA	33	F		F
1P42*P-005	RB CLOSED LOOP COOLING	062G	SH	GOULD PUMP	SC151		HE-354	SA	68	F		F
1T23*TL-002	PRIMARY CONT LINER	075	CL	PDH	PC008		NS(B) - EA56	SA	3	F		F
1T46*FN-079	RB EXH BOOSTER FAN	102	RK	BUFFALO FORGE	SC127		745-4244C	SA	51	F		F
1T46*FLT-01	RBSVS FILTER TRAINS	105	RK	FARR CO	SC95		D-56291	SA/SAT	11	F		D
1P42*TK-026	RBCLCW HEAD TANK	114	NI	BUFFALO TANK	SC151		NNH8125-IA	SA		F		D
1R24*HCC-111W	MTR CNTRL CNTR	115	JP	SQUARE D CO	SC150		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC-111X	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC113		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC-111Y	MOTOR CONT CNTR, BUS 1	115	JP	SQUARE D CO	SC78		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC-111Z	MOTOR CONT CNTR, BUS 1	115	JP	SQUARE D CO	SC78		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC-112W	MOTOR CONT CNTR, BUS 1	115	JP	SQUARE D CO	SC150		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC-112X	MOTOR CONT CNTR, BUS 1	115	JP	SQUARE D CO	SC78		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC-112Y	MOTOR CONT CNTR, BUS 1	115	JP	SQUARE D CO	SC112		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1111	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC40		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1112	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC113		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1113	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC113		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1114	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC151		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1117	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC40		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1118	480 V MOTOR CONT CENTE	115	SS	SQUARE D CO	SC113		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1119	480 V MOTOR CONT CENTE	115	SS	SQUARE D CO	SC40		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1121	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC40		108-1.01-L1,L2	HBT	4	F		F

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 REACTOR BUILDING CATEGORY I FLOOR-MOUNTED EQUIPMENT
 BOP QUALIFICATION LEVEL (199 ITEMS)

RUN DATE 01/23/81
 RUN TIME 16.16.12
 PAGE 2

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE HTNG	SAFE SHDN	QUAL STATUS
1R24*HCC1122	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC79		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1123	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC113		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1124	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC151		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1127	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC40		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1128	480 V MOTOR CONT CENTE	115	SS	SQUARE D CO	SC113		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1129	480 V MOTOR CONT CENTE	115	SS	SQUARE D CO	SC40		108-1.01-L1,L2	HBT	4	F		F
1R24*HCC1131	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	SC63		108-1.01-L1,L2	HBT	4	F		F
1R24*PNL-B1	480 VAC CKT BKR	115	SS	SQUARE D CO	SC112		8998-10.09-L23	HBT	20	F		F
1R24*PNL-G1	480 VAC CKT BKR	115	SS	SQUARE D CO	SC112		8998-10.09-L23	HBT	20	F		F
1R24*PNL-R1	480 VAC CKT BKR	115	SS	SQUARE D CO	SC112		8998-10.09-L23	HBT	20	F		F
1R24*PNL-R2	480 VAC CKT BKR	115	SS	SQUARE D CO	SC112		8998-10.09-L23	HBT	20	F		F
1R24*PNL-Y1	480 VAC CKT BKR	115	SS	SQUARE D CO	SC112		8998-10.09-L23	HBT	20	F		F
1R24*PNL-01	480 VAC CKT BKR	115	SS	SQUARE D CO	SC78		8998-10.09-L23	HBT	20	F		F
1R24*PNL-02	480 VAC CKT BKR	115	SS	SQUARE D CO	SC78		8998-10.09-L23	HBT	20	F		F
1R24*PNL-03	480 VAC CKT BKR	115	SS	SQUARE D CO	SC78		8998-10.09-L23	HBT	20	F		F
1R24*PNL-04	480 VAC CNTRL PHR FEED	115	SS	SQUARE D CO	SC112		8998-10.09-L23	HBT	20	F		F
1R35*PNL-B2	EMER 120 V PNL B2-SC	124	SS	SYSTEM CONT	SC40		45322-1	SAT	21	F		D
1R35*PNL-R2	EMER 120 V PNL R2-SC	124	SS	SYSTEM CONT	SC40		45322-1	SAT	21	F		D
1T23*Z-001	REACTOR CONT ELEC PENE	134	JPL	GEN ELEC CO	SC/PC		F73414	SAT	24	F/		D
1E11*S-114	#2 ANALYZER STRAINER	148	MRM	LESLIE CO	SC112			DA		P		B
1E11*S-139	STEAM DRN R.O. STRN	148	MRM	LESLIE	SC40			DA		P		B

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 REACTOR BUILDING CATEGORY I FLOOR-MOUNTED EQUIPMENT
 BOP QUALIFICATION LEVEL (199 ITEMS)

RUN DATE 01/23/81
 RUN TIME 16.16.12
 PAGE 3

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	TYPE	SAFE HING	QUAL SHTON	STATUS
1E21-S-057	CORE SPRAY LOOP LVL Y	148	MRH	LESLIE CO	SC008							
1E41-S-055	Y STR-HPCI LOOP LEVEL	148	MRH	LESLIE CO	SC008			DA	P			B
1E51-S-056	Y STR-RCIC LOOP LEVEL	148	MRH	LESLIE CO	SC008			DA	P			B
1R42-HCC-0A1	125 VDC MOTOR CONT CEN	168	GPE	GEN ELEC	SC40		751CS002	DA	P			B
1R42-HCC-0A2	125 VDC MOTOR CONT CEN	168	GPE	GEN ELEC	SC112		751CS002	SAT	60	F		F
1R42-HCC-0B1	125 VDC MOTOR CONT CEN	168	GPE	GEN ELEC	SC40		751CS002	SAT	60	F		F
1R42-HCC-0B2	125 VDC MOTOR CONT CEN	168	GPE	GEN ELEC	SC112		751CS002	SAT	60	F		F
1B21-RV 093	VAC RELIEF VALVES	175		AND. GRIND	PC	YES	TR-77-18	SAT	70	F		F
1G41-E-019	FUEL STG POOL HT EXCHA	190	REF	STRUTHERS CO	SC151		70-06-30787	SA	18	F		B
1P42-E-011	RBCLCW HT EXCHANGER	190	REF	STRUTHERS CO	SC8		70-06-30786	SA	25	F		F
1P42-E-117	BOOSTER HT EXCH	190	REF	STRUTHERS	SC8		79-06-33475	SA	12	F		F
1E51-RV 145	RCIC PUMP SUCTION	191	APH	LONERGAN	SC13		502644	SA	8	F		F
1E51-RV 146	TD LUBE OIL COOLER	191	APH	LONERGAN	SC16		502644	SA	45	P		D
1E51-RV 147	COND & VAC TK E-38	191	APH	LONERGAN	SC11		502644	SA	45	P		D
1E51-RV 149	CONDENSATE MAKEUP SYS	191	APH	LONERGAN	SC22		502644	SA	45	P		D
1T23-SHE-01	SHIELD WALL EXTENSION	221	JK	CIVES	PC140		NH(B)124-GD	SA	45	P		D
1T23-RB-001	PH RES RADIAL BEAMS	221	JK	CIVES	PCVAR		NH(B)89-JAA	SA	60+	F		D
1E21-P-049	LOOP LEVEL PUMPS	235	REF	GOULD PUMP	SC008		N746070-072	SA	16	F		D
1E41-P-050	LOOP LEVEL PUMP	235	REF	GOULD PUMP	SC008		N746070-072	SA	83	F		F
1E51-P-051	LOOP LEVEL PUMP	235	REF	GOULD PUMP	SC008		N746070-072	SA	83	F		F
1R35-T-B2	XFHR-EMER 120 V PNL B2	248	BS	MAGNETICS	SC112		N746070-072	SA	83	F		F
							HYLE43424-1	HBT	9	F		F

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1R35*Y-R2	XFMR-EMER 120V PNL R2	248	BS	MAGNETICS	SC112		WYLE43424-1	HBT	9	F		F
1T46*FN-003	RB EXH FANS-RBNVS	270	RTK	BUFFALO FORGE	SC113		745-11136	SA	12	F		F
1T46*CLC-05	RBSVS COOLING COILS	276	RTK	BUFFALO FORGE	SC113		745-10626	SA	10	F		D
1T46*UC-002	UNIT COOLERS-RBSVS	276	RTK	BUFFALO FORGE	SC8		745-10585-626	SA	16	F		D
1T46*UC-003	UNIT COOLERS-RBSVS	276	RTK	BUFFALO FORGE	SC008		745-10623,76	SA	10	F		D
1T46*UC-004	UNIT COOLERS-RBSVS	276	RTK	BUFFALO FORGE	SC175		745-10618-21	SA	10	F		D
1T46*UC-005	UNIT COOLERS-RBSVS	276	RTK	BUFFALO FORGE	SC175		745-10618-21	SA	10	F		D
1T46*UC-020	UNIT COOLERS-HCC IN RB	276	RTK	BUFFALO FORGE	SC112		745-10626A	SA	10	F		D
1T46*UC-021	UNIT COOLERS	276	RTK	BUFFALO FORGE	SC113		78L-26392-95	SA	12	F		D
1T46*UC-022	UNIT COOLERS - RBSVS	276	RTK	BUFFALO FORGE	SC150		78L-26392-95	SA	12	F		D
1T48*PNL-48	HYD RECOMB POWER CABIN	289	TF	ATONICS INT	SC112		58083	HBT	14	F		F
1T48*RC-002	HYD RECOMB UNIT	289	TF	ATONICS INT	SC112		54591-2	HBT	14	F		F
1T46*ADD040	RB REFUEL LVL EXHAUST	319	WD	POWERS REGUL	SC154		43812-1	SA/SAT		F		D
1T46*ADD041	RB POT CONTAM AREA EXH	319	WD	POWERS REGUL	SC128		43812-1	SA/SAT		F		D
1T46*FT 004	RBSVS EXH AIR FLOW	319	WD	POWERS REGUL	SC151		43812-1	SA/SAT		F		D
1T46*HE 002	FLT-1 MOISTURE	319	WD	POWERS REGUL	SC117		43812-1	SA/SAT		F		D
1T46*HOD031	RBSVS INLET TO MIX PLN	319	WD	POWERS REGUL	SC135		43812-1	SA/SAT		F		D
1T46*HOD034	RBSVS FILTER TRAIN DCH	319	WD	POWERS REGUL	SC182		43812-1	SA/SAT		F		D
1T46*HOD036	FN-3 DISCHARGE AIR	319	WD	POWERS REGUL	SC126		43812-1	SA/SAT		F		D
1T46*HOD047	FN-79 DISCHARGE AIR	319	WD	POWERS REGUL	SC130		43812-1	SA/SAT		F		D
1T46*HOD048	FLT-1 INLET AIR	319	WD	POWERS REGUL	SC122		43812-1	SA/SAT		F		D

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								FREQ	MTNG SHTDN	
1T46*PDS045	FN-3 DIFF PRESSURE	319	WD	POWERS REGUL	SC126		43812-1	SA/SAT	F	D
1T46*PDS046	FN-3 DIFF PRESSURE	319	WD	POWERS REGUL	SC126		43812-1	SA/SAT	F	D
1T48*H2R114	PC RECORDERS	326	DHC	LEEDS/NRTHRP	SC113		CO.0001-TK	HBT	F	D
1D11*RE 067	POST ACCIDENT MONITORS	332	RIN	NHC				HBT	F	B
1D11*RE 068	POST ACCIDENT MONITORS	332	RIN	NHC				HBT	F	B
1D11*RE 069	POST ACCIDENT MONITORS	332	RIN	N.H.C.	SC144			HBT	F	B
1E41*RD-001	RUPTURE DISK	340	SH	LYONS IND.	SC18		NH(B)	SA	60+	F B
1E41*RD-002	RUPTURE DISK	340	SH	LYONS IND.	SC19		NH(B)	SA	60+	F B
1E51*RD-003	RUPTURE DISK	340	SH	LYONS IND	SC16		NH(B)	SA	60+	F B
1E51*RD-004	RUPTURE DISK	340	SH	LYONS IND.	SC13		NH(B)	SA	60+	F B
1T48*PIL-68	GAS ANALYZER-DRYWELL	344	REF	DELPHI IND	SC112		58239	HBT	18	F F
1T48*PIL-69	GAL ANALYZER-SUPPR CHH	344	REF	DELPHI IND	SC112		58239	HBT	18	F F
1P41*PS 101	SAMPLE FROM RAD MONITR	348	DR	ASCO	SC8		QTR604*-1	SAT	60+	F B
1P42*PS 021	PUMP 1P42*P005C DISCH	348	DR	ASCO	SC153		QTR604*-1	SAT	60+	F B
1P42*PS 022	PUMP 1P42*P005B DISCH	348	DR	ASCO	SC153		QTR604*-1	SAT	60+	F B
1P42*PS 046	PUMP 1P42*P005A DISCH	348	DR	ASCO	SC151		QTR604*-1	SAT	60+	F B
1P50*PS 105	SERV AIR HDR PRESS	348	DR	ASCO	SC151		QTR604*-1	SAT	60+	F B
1P50*PS 113	SERV AIR HDR NORM SUP	348	DR	ASCO	SC151		QTR604*-1	SAT	60+	F B
1G11*TK-050	RB EQUIPMENT DRAIN SUM	362	JK	DRAVO CORP	SC008		NH(B)	SA	F	B
1G11*TK-056	RB FLOOR DRAIN SUMPS	362	JK	DRAVO CORP	SC008		NH(B)	SA	F	B
1E41*PT 142	TO LUSE OIL COOLER	406	DC	ROSEMOUNT	SC8		127516	HBT	60+	F F

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1E51*PT 142	TO LUBE OIL COOLER	406	DC	ROSEMOUNT	SC8		127516	HBT	60+	F		F
1F50*PT 116	SERV AIR HDR PRESS	406	DC	ROSEMOUNT	SC151		127516	HBT	60+	F		F
1T46*PDT003	FLT-1A DIFF PRESSURE	406	DC	ROSEMOUNT	SC151		127516	HBT	60+	F		F
1T46*PDT043	REACTOR BLDG DIFF	406	DC	ROSEMOUNT	SC220		127516	HBT	60+	F		F
1T46*TE 001	RBSVS RECIRC AIR TEMP	406	DC	ROSEMOUNT	SC144		127516	SAT	60+	F		F
1T46*TE 002	AIR RETURN TO UC-2	406	DC	ROSEMOUNT	SC10		127516	SAT	60+	F		F
1T46*TE 023	AIR RETURN TO UC-3	406	DC	ROSEMOUNT	SC42		127516	SAT	60+	F		F
1T46*TE 024	AIR RETURN TO UC-4	406	DC	ROSEMOUNT	SC220		127516	SAT	60+	F		F
1T46*TE 025	AIR RETURN TO UC-5	406	DC	ROSEMOUNT	SC220		127516	SAT	60+	F		F
1T46*TE 028	HCC RH UNIT COOLER	406	DC	ROSEMOUNT	SC128		127516	SAT	60+	F		F
1T46*TE 059	*UC-21 UNIT CLR	406	DC	ROSEMOUNT	SC155		127516	SAT	60+	F		F
1T46*TE 060	*UC-22 UNIT CLR	406	DC	ROSEMOUNT	SC160		127516	SAT	60+	F		F
1T48*FT 005N	HEPA FILTER INLET	406	DC	ROSEMOUNT	SC113		127516	SAT	60+	F		F
1Z93*LT 001	SUPPRESSION POOL LEVEL	406	DC	ROSEMOUNT	SC8		127516	SAT	60+	F		F
1Z93*PT 003	DRYWELL PRESSURE	406	DC	ROSEMOUNT	SC98		127516	HBT	60+	F		F
1Z93*PT 004	SUPP POOL PRESS	406	DC	ROSEMOUNT	SC40		127516	HBT	60+	F		F
1Z93*TE 110	RV092ACL DISCHARGE-1FT	406	DC	ROSEMOUNT	PL28		2767	SAT	60+	F		F
1Z93*TE 111	RV092BDE DISCHARGE-1FT	406	DC	ROSEMOUNT	PL28		2767	SAT	60+	F		F
1Z93*TE 112	RV092KG DISCHARGE-1FT	406	DC	ROSEMOUNT	PL28		2767	SAT	60+	F		F
1Z93*TE 113	RV092FHJ DISCHARGE-1FT	406	DC	ROSEMOUNT	PL28		2767	SAT	60+	F		F
1Z93*TE 132	RV092ACL DISCHARGE-2FT	406	DC	ROSEMOUNT	PL28		2767	SAT	60+	F		F

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1Z93*TE 133	RV092BDE DISCHARGE-2FT	406	DC	ROSEHOUNT	PL28		2767	SAT	60+	F			F
1Z93*TE 134	RV092KG DISCHARGE-2FT	406	DC	ROSEHOUNT	PL28		2767	SAT	60+	F			F
1Z93*TE 135	RV092FHJ DISCHARGE-2FT	406	DC	ROSEHOUNT	PL28		2767	SAT	60+	F			F
1P42*LS 012	RBCLCH TK-026	407	DC	MAGNETROL	SC160		43235-1	HBT	17	F			F
1P42*LS 013	RBCLCH TK-026	407	DC	MAGNETROL	SC160		43235-1	HBT	17	F			F
1T48*LS 061	COND LEVEL	407	DC	MAGNETROL	SC73		43235-1	HBT	17	F			F
1T46*L/U059	UC-21 UNIT CLR	421	DR	BAILEY	SC155		724	HBT	12+	F			F
1T46*L/U060	UC-21 UNIT CLR	421	DR	BAILEY	SC165		724	HBT	12+	F			F
1T46*H/U059	UC-21 UNIT CLR	421	DR	BAILEY	SC155		722	HBT	12+	F			F
1T46*H/U060	UC-21 UNIT CLR	421	DR	BAILEY	SC165		722	HBT	12+	F			F
1T46*R/E059	*UC-21 UNIT CLR	421	DR	BAILEY	SC155		740	HBT	12+	F			F
1T46*R/E060	*UC-22 UNIT CLR	421	DR	BAILEY	SC165		740	HBT	12+	F			F
1T46*TIC059	*UC-21 UNIT CLR	421	DR	BAILEY	SC155		720	HBT	12+	F			F
1T46*TIC060	*UC-22 UNIT CLR	421	DR	BAILEY	SC162		720	HBT	12+	F			F
1F16*RAK-22	HI DENSITY SPNT FUEL R	427	CL	WACHTER	SC137		LIL-T-151	DA	10	F			D
1F16*RAK-23	PERH CR STOR RACKS	427	CL	WACHTER	SC137		LIL-T-151	DA	10	F			D
1.16*RAK-24	TEMP CR STOR RACKS	427	CL	WACHTER	SC137		LIL-T-151	DA	10	F			D
1R24*TRS111X	LCPI ATS	438	JC	ASCO	SC112			HBT		F			B
1R24*TRS112Y	LCPI ATS	438	JC	ASCO	SC112			HBT		F			B
1R24*HG-111	LPCI HG SET	439	GPE	LOUIS ALLIS	SC150		HE698	SA	27	F			F
1R24*HG-112	LPCI HG SET	439	GPE	LOUIS ALLIS	SC150		HE698	SA	27	F			F

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1E24*HG-113	LPCI HG SET	439	GPE	LOUIS ALLIS	SC150		HE698	SA	27	F		F
1E24*PHL-111	LPCI SIP PHL	439	GE	LOUIS ALLIS	SC150			HBT		F		B
1E24*PHL-112	LPCI SIP PHL	439	GE	LOUIS ALLIS	SC150			HBT		F		B
1E24*PHL-113	LPCI SIP PHL	439	GE	LOUIS ALLIS	SC150			HBT		F		B
1E11*FE 006	RHR HX SERV WATER INLE	440	ABC	PERMUTIT	SC33		NH(B) 220-CZC	SA	60+	P		F
1E11*RO 140	RHR PUMP MIN FLOW BYPA	440	ABC	PERMUTIT	SC14		NH(B) 220-CZC	SA	60+	P		F
1E11*RO 158	RHR PUMP DISCH	440	ABC	PERMUTIT	SC16		NH(B) 220-CZC	SA	60+	P		F
1E11*RO 159	STEAM LINE DRAINS	440	ABC	PERMUTIT	SC53		NH(B) 220-CZC	SA	60+	P		F
1E11*RO 160	VAC BREAKER LINE	440	ABC	PERMUTIT	SC28		NH(B) 220-CZC	SA	60+	P		F
1E21*RO 094	CORE SPARY PUMP RECIRC	440	ABC	PERMUTIT	SC101		NH(B) 220-CZC	SA	60+	P		F
1E21*RO 095	CORE SPRAY PUMP RECIRC	440	ABC	PERMUTIT	SC14		NH(B) 220-CZC	SA	60+	P		F
1E21*RO 097	CORE SPRAY/RHR LEVEL S	440	ABC	PERMUTIT	SC12		NH(B) 220-CZC	SA	60+	P		F
1E41*RO 131	HPCI PUMP MIN FLOW BYP	440	ABC	PERMUTIT	SC17		NH(B) 220-CZC	SA	60+	P		F
1E41*RO 132	HPCI P DIS TO COND STO	440	ABC	PERMUTIT	SC18		NH(B) 220-CZC	SA	60+	P		F
1E41*RO 133	TO BAROMETRIC CONDENSE	440	ABC	PERMUTIT	SC13		NH(B) 220-CZC	SA	60+	P		F
1E41*RO 134	LUBE OIL COOLER DISCH	440	ABC	PERMUTIT	SC11		NH(B) 220-CZC	SA	60+	P		F
1E41*RO 135	DRAIN POT VENT	440	ABC	PERMUTIT	SC24		NH(B) 220-CZC	SA	60+	P		F
1E41*RO 136A	STOP VALVE DRAIN	440	ABC	PERMUTIT	SC14		NH(B) 220-CZC	SA	60+	P		F
1E41*RO 136C	CONTROL VALVE DRAIN	440	ABC	PERMUTIT	SC15		NH(B) 220-CZC	SA	60+	P		F
1E41*RO 136D	TURBINE DRAIN	440	ABC	PERMUTIT	SC11		NH(B) 220-CZC	SA	60+	P		F
1E41*RO 136E	TURBINE DRAIN	440	ABC	PERMUTIT	SC11		NH(B) 220-CZC	SA	60+	P		F

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									FREQ	HTNG	SHTDN STATUS
1E41*PO 137	HPCI&RCIC LEVEL P-50	440	ABC	PERMUTIT	SC11		NH(B) 220-CZC	SA	60+	P	F
1E41*PO 138	TO BAROMETRIC CONDENS	440	ABC	PERMUTIT	SC9		NH(B) 220-CZC	SA	60+	P	F
1E51*FE 099	RCICLOOP LVL*P-051	440	ABC	PERMUTIT	SC13		NH(B) 220-CZC	SA	60+	P	F
1E51*RO 131	RCIC PUMP MIN FLOW BYP	440	ABC	PERMUTIT	SC19		NH(B) 220-CZC	SA	60+	P	F
1E51*RO 132	RCIC P DIS TO COND STR	440	ABC	PERMUTIT	SC20		NH(B) 220-CZC	SA	60+	P	F
1E51*RO 135	DRAIN POT VENT	440	ABC	PERMUTIT	SC20		NH(B) 220-CZC	SA	60+	P	F
1E51*RO 136	STOP VALVE DRAIN	440	ABC	PERMUTIT	SC15		NH(B) 220-CZC	SA	60+	P	F
1E51*RO 137	HPCI & RCIC LEVEL P-51	440	ABC	PERMUTIT	SC16		NH(B) 220-CZC	SA	60+	P	F
1E51*RO 138	TO BAROMETRIC COND	440	ABC	PERMUTIT	SC9		NH(B) 220-CZC	SA	60+	P	F
1G33*RO 109	P-19 DISCH CHK V.BYPS	440	ABC	PERMUTIT	SC120		NH(B) 220-CZC	SA	60+	P	F
1G41*FE 027	SPENT FUEL POOL COOLIN	440	ABC	PERMUTIT	SC166		NH(B) 220-CZC	SA	60+	P	F
1G41*FE 028	DE-004 OUTLET	440	ABC	PERMUTIT	SC157		NH(B) 220-CZC	SA	60+	P	F
1H50*FE 043	CHILLER DISCH	440		PERMUTIT	SC72		NH(B) 220-CZC	SA	60+	P	F
1H50*FE 062	RB STANDBY VENT UC-2			PERMUTIT	SC13		NH(B) 220-CZC	SA	60+	P	F
1H50*FE 063	RB STANDBY VENT UC-3	44	ABC	PERMUTIT	SC11		NH(B) 220-CZC	SA	60+	P	F
1H50*FE 064	RB STANDBY VENT UC-4	440	ABC	PERMUTIT	SC224		NH(B) 220-CZC	SA	60+	P	F
1H50*FE 065	RB STANDBY VENT UC-5	440	ABC	PERMUTIT	SC223		NH(B) 220-CZC	SA	60+	P	F
1H50*FE 066	RB STANDBY VENT UC-6	440	ABC	PERMUTIT	SC136		NH(B) 220-CZC	SA	60+	P	F
1H50*RO 072	RB STANDBY VENT UC-2	440	ABC	PERMUTIT	SC11		NH(B) 220-CZC	SA	60+	P	F
1H50*RO 073	RB STANDBY VENT UC-3	440	ABC	PERMUTIT	SC13		NH(B) 220-CZC	SA	60+	P	F
1H50*RO 074	RB STANDBY VENT UC-4	440	ABC	PERMUTIT	SC222		NH(B) 220-CZC	SA	60+	P	F

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1N50*RO 075	RB STANDBY VENT UC-5	440	ABC	PERHUTIT	SC222		NH(B) 220-CZC	SA	60+	P	F
1N50*RO 076	RB STANDBY VENT UC-6	440	ABC	PERHUTIT	SC135		NH(B) 220-CZC	SA	60+	P	F
1P42*FE 017	FUEL POOL HX E-19A DIS	440	ABC	PERHUTIT	SC157		NH(B) 220-CZC	SA	60+	P	F
1P42*FE 018	RECIRC PUMP COOLERS	440	ABC	PERHUTIT	SC67		NH(B) 220-CZC	SA	60+	P	F
1P42*FE 060	RHR PUMP SEAL CLR A	440	ABC	PERHUTIT	SC13		NH(B) 220-CZC	SA	60+	P	F
1T48*FE 005	HEPA FILTER INLET	440	ABC	PERHUTIT	SC114		NH(B) 220-CZC	SA	60+	P	F
1T48*FE 048	WATER SUPPLY TO *RC-00	440	ABC	PERHUTIT	SC113		NH(B) 220-CZC	SA	60+	P	F
1B21*GEN001	HS SRV QNCHRS	447		SARGENT	PC008	YES		DA		F	F
1T48*EXJ-49	HYD RECOMB INLET EX JT	462		TEMP FLEX	SC114			SA		F	B
1T48*EXJ-50	HYD-RECOMB INLET EX JT	462		TEMP FLEX	SC114			SA		F	B

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 G =COPIES OF DOC TO DISTRIBUTION

1 MARK NUMBER	2 PIPE SIZE	3 QUAL PERT	4 SPEC NO.	5 PROC NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HOR	VER	SUPPLIER	MODEL NO.	YORK	OPER
1B21*HOV061	2/1		253	6004	1.8	1.0	LIMITORQUE	SMB-00-10	B	B
1B21*HOV062	2/1		253	6005	1.4	1.7	LIMITORQUE	SMB-00-10	B	B
1B21*HOV063	2/1		253	6000	2.0	1.2	LIMITORQUE	SMB-00-10	B	B
1B21*HOV064	2/1		253	6001	1.8	1.2	LIMITORQUE	SMB-00-10	B	B
1B21*HOV067	3		88V				LIMITORQUE	SMB-00-10	B	B
1B21*HOV068A	2/2		253	6004	1.4	.9	LIMITORQUE	SMB-000-5	B	B
1B21*HOV068B	2/2		253	6005	1.4	1.8	LIMITORQUE	SMB-000-5	B	B
1B21*HOV068C	2/2		253	6000	1.8	.9	LIMITORQUE	SMB-000-5	B	B
1B21*HOV068D	2/2		253	6001	1.4	1.1	LIMITORQUE	SMB-000-5	B	B
1D11*HOV032A	1		253	P-	6.9	3.0	LIMITORQUE	SMB-000-2	B	C
1D11*HOV032B	1		253	S	1.5	1.3	LIMITORQUE	SMB-000-2	B	B
1D11*HOV033A	1		253	P-	6.9	3.0	LIMITORQUE	SMB-000-2	B	C
1D11*HOV033B	1		253	S	1.5	1.3	LIMITORQUE	SMB-000-2	B	B
1E11*HOV057A	1		253	S	1.5	1.3	LIMITORQUE	SMB-000-2	B	B
1E11*HOV057B	1		253	S	1.5	1.3	LIMITORQUE	SMB-000-2	B	B
1E32*HOV021A	1.5/1		253	6004	2.5	1.3	LIMITORQUE	SHC-04-5	B	B
1E32*HOV021B	1.5/1		253	6005	2.8	1.9	LIMITORQUE	SHC-04-5	B	B
1E32*HOV021C	1.5/1		253	6000	2.5	2.4	LIMITORQUE	SHC-04-5	B	B
1E32*HOV021D	1.5/1		253	6001	2.4	1.5	LIMITORQUE	SHC-04-5	B	B

QUALIFICATION MILESTONES

NOTES

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1. CL 2 AND 3 VALVES < OR = 2 IN. ARE FLOOR-MOUNTED (EHTG- 5)
 2. CL 1 VALVES < OR = 1 IN. ARE FLOOR-MOUNTED (EHTG-5)
 3. 2/1 = 2 IN. CLASS 1
 4. PROC. NO. WITH DASH(-) DENOTES PRIM. CONT.

5. PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
 6. IF ONLY ONE LOAD IS GIVEN FOR THE OPERATOR, IT IS THE MAXIMUM
 7. * = DC MOTOR. ALL OTHERS ARE AC

1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROC NO.	5 OPER LOAD-G'S		OPERATOR	6 MODEL NO.	7 8 QUAL STATUS	
					HOR	VER			YCKE	OPER
1E32*MOV022A	1.5/2		253	6004	2.3	1.5	LIMITORQUE	SHC-04-3	B	B
1E32*MOV022B	1.5/2		253	6005	2.0	1.7	LIMITORQUE	SHC-04-3	B	B
1E32*MOV022C	1.5/2		253	6000	2.2	2.7	LIMITORQUE	SHC-04-3	B	B
1E32*MOV022D	1.5/2		253	6001	2.4	.8	LIMITORQUE	SHC-04-3	B	B
1E32*MOV023A	1.5/2		253	S	1.5	1.3	LIMITORQUE	SHC-04-3	B	B
1E32*MOV023B	1.5/2		253	S	1.5	1.3	LIMITORQUE	SHC-04-3	B	B
1E32*MOV023C	1.5/2		253	S	1.5	1.3	LIMITORQUE	SHC-04-3	B	B
1E32*MOV023D	1.5/2		253	S	1.5	1.3	LIMITORQUE	SHC-04-3	B	B
1E32*MOV024	2/2		253	6003	2.0		LIMITORQUE	SHB-000-5	B	B
1E32*MOV025	2/2		253	S	1.5	1.3	LIMITORQUE	SHB-000-5	B	B
1E32*MOV026	2/2		253	6003	1.6		LIMITORQUE	SHB-000-5	B	B
1E32*MOV027	2/2		253	S	1.5	1.3	LIMITORQUE	SHB-000-5	B	B
1G11*MOV639	3		88V	0342	.6	.5			B	B
1P41*MOV102A	1/3		203	S	1.5	1.3	LIMITORQUE	SHB-000-2	B	B
1P41*MOV102B	1/3		203	S	1.5	1.3	LIMITORQUE	SHB-000-2	B	B
1P42*AOV282	8		232	030	2.9		KIELY&MUELL		B	B
1P42*AOV293	6		232	0323	1.2	.6	KIELY&MUELL		B	B
1P42*AOV294	6		232				KIELY&MUELL		B	B
1P50*MOV103A	1.5/2		214	S	1.5	1.3	LIMITORQUE	SHB-000-5	B	B

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NOTES

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- CL 1 VALVES < OR = 1 IN. ARE FLOOR-MOUNTED (ENTG-5)
- 2/1 = 2 IN. CLASS 1
- PROC. NO. WITH DASH(-) DENOTES PRIM. CONT.
- PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
- IF ONLY ONE LOAD IS GIVEN FOR THE OPERATOR, IT IS THE MAXIMUM
- * = DC MOTOR. ALL OTHERS ARE AC

1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROB NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HCR	VER	SUPPLIER	MODEL NO.	YOKE	OPER
1P50*MOV103B	1.5/2		214	S	1.5	1.3	LIMITORQUE	SHB-000-5	B	B
1P50*MOV104	1		214	S	1.5	1.3	LIMITORQUE	SHB-000-2	B	B
1P50*MOV105A	1.5/2		214	P75-	6.9	3.0	LIMITORQUE	SHB-000-5	B	C
1P50*MOV105B	1.5/2		214	P89-	6.9	3.0	LIMITORQUE	SHB-000-5	B	C
1P50*MOV106	1		214	S	1.5	1.3	LIMITORQUE	SHB-000-2	B	B
1P50*MOV113A	1		214	S	1.5	1.3	LIMITORQUE	SHB-000-5	B	B
1P50*MOV113B	1		214	S	1.5	1.3	LIMITORQUE	SHB-000-5	B	B
1P50*MOV114A	1		214	S	1.5	1.3	LIMITORQUE	SHB-000-5	B	B
1P50*MOV114B	1		214	S	1.5	1.3	LIMITORQUE	SHB-000-5	B	B
1T23*MOV031A	.5		214	S	1.5	1.3	LIMITORQUE	SHB-000-2	B	B
1T23*MOV031B	.5		214	S	1.5	1.3	LIMITORQUE	SHB-000-2	B	B
1T48*MOV004	1		253	S	1.5	1.3	LIMITORQUE	SHB-000-2	B	B
1T46*AOV038A	18	CD74-230	172	24036	2.2	1.2	BETTIS	722C-SR-M3	F	F
1T46*AOV038B	18	CD74-230	172	24036	1.2	1.1	BETTIS	722C-SR-M3	F	F
1T46*AOV038C	18	CD74-230	172	24036	2.2	1.2	BETTIS	722C-SR-M3	F	F
1T46*AOV038D	18	CD74-230	172	24036	1.2	1.1	BETTIS	722C-SR-M3	F	F
1T46*AOV039A	18	CD74-230	172	24036	2.2	1.2	BETTIS	722C-SR-M3	F	F
1T46*AOV039B	18	CD74-230	172	24036	1.2	1.1	BETTIS	722C-SR-M3	F	F
1T46*AOV039C	18	CD74-230	172	24074	2.8	1.0	BETTIS	722C-SR-M3	F	F

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3. 2/1 = 2 IN. CLASS 1
4. PROC. NO. WITH DASH(-) DENOTES PRIM. CONT.

5. PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
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SHOREHAM UNIT 1
 JOB NUMBER 11600
 LILCO DOCKET 50-322

RBPH LIST
 2-SOPT

STONE & WEBSTER ENGINEERING CORPORATION
 REACTOR BUILDING CATEGORY I PIPE MOUNTED EQUIPMENT (EXTENDED OPERATORS)
 BCP QUALIFICATION LEVEL (295 ITEMS)

RUN DATE 01/26/81
 RUN TIME 14.16.57
 PAGE 4

1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROC NO.	5 OPEP LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HOR	VER	SUPPLIER	MODEL NO.	YCKE	OPER
1T46*ADV039D	18	CD74-230	172	24074	1.4	.8	BETTIS	722C-SR-M3	F	F
1T46*ADV037A	72	CD75-35	111	24035	1.0	.7	BETTIS	T-316 SR2-M3	F	F
1T46*ADV037B	72	CD75-35	111	24035	.8	.4	BETTIS	T-316 SR2-M3	F	F
1P42*TCV001H	12	CD76-82	423	039		1.9	FISHER	656-60	F	F
1P42*TCV001X	10	CD76-82	423	039	1.3	3.1	FISHER	656-60	F	F
1P42*TCV001Y	12	CD76-82	423	030	1.9		FISHER	656-60	F	F
1P42*TCV001Z	10	CD76-82	423	030	2.0		FISHER	656-60	F	F
1P41*MOV037A	16	D-0034-2	197	333		.7	LIMITORQUE	H1BC/SMB-000	F	F
1P41*MOV037B	16	D-0034-2	197	333		.8	LIMITORQUE	H1BC/SMB-000	F	F
1P41*MOV033C	20	D-0034-5	197				LIMITORQUE	H2BC/SMB-000	B	C
1P41*MOV033D	20	D-0034-5	197				LIMITORQUE	H2BC/SMB-000	B	C
1P41*MOV033A	20	D-0034-8	197				LIMITORQUE	H1BC/SMB-000	B	C
1P41*MOV033B	20	D-0034-8	197				LIMITORQUE	H1BC/SMB-000	B	C
1P41*MOV034A	20	D-0034-8	197	332		.1	LIMITORQUE	H1BC/SMB-000	F	F
1P41*MOV034B	20	D-0034-8	197	331			LIMITORQUE	H1BC/SMB-000	B	C
1P41*MOV042A	6	D-0034-9	197	330			LIMITORQUE	H0BC/SMB-000	B	C
1P41*MOV042B	6	D-0034-9	197	330			LIMITORQUE	H0BC/SMB-000	B	C
1T46*ADV035A	72	R-1062-41	111		2.7	.6	BETTIS	T-316 SR2-M3	F	F
1T46*ADV035B	72	R-1062-41	111		5.2	.6	BETTIS	T-316 SR2-M3	B	C

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4. PROC. NO. WITH DASH(-) DENOTES PRIM. CONT.

5. PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
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1 MARK NUMBER	2 PIPE SIZE	3 QUAL REPT	4 SPEC NO.	5 PROB NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HOR	VER	SUPPLIER	MODEL NO.	YOKE	OPER
1B21*MOV031	3/1	SR-6060	88V	255-	2.4		LIMITORQUE	SMB-00-10	F	F
1B21*MOV032	3/1	SR-6060	88V	255	3.3	.9	LIMITORQUE	SMB-000-5 *	F	F
1B21*MOV034	4	SR-6060	88V	6003		1.5	LIMITORQUE	SMB-00-7.5	F	F
1E51*MOV041	3/1	SR-6060	88V	020P-	2.9		LIMITORQUE	SMB-00-10	F	F
1E51*MOV042	3/1	SR-6060	88V	020S	5.2	2.1	LIMITORQUE	SMB-00-7 1/2 *	B	C
1E51*MOV043	3	SR-6060	88V	021	1.2		LIMITORQUE	SMB-00-7 1/2 *	F	F
1E11*MOV053	4	SR-6068	88V	810	2.4	2.6	LIMITORQUE	SMB-00-10 *	F	F
1E11*MOV054	4/1	SR-6068	88V	810-	3.1	2.9	LIMITORQUE	SMB-00-15	F	F
1E41*MOV036	4	SR-6068	88V				LIMITORQUE	SMB-00-10 *	B	C
1E51*MOV034	4	SR-6068	88V				LIMITORQUE	SMB-00-10 *	B	C
1E51*MOV035	4/1	SR-6068	88V				LIMITORQUE	SMB-00-10 *	B	C
1E51*MOV037	4	SR-6068	88V				LIMITORQUE	SMB-00-10 *	B	C
1G33*MOV030A	4/1	SR-6068	88V	011-	1.6	3.3	LIMITORQUE	SMB-00-15	F	F
1G33*MOV030B	4/1	SR-6068	88V	011-			LIMITORQUE	SMB-00-15	B	C
1G33*MOV032	4/1	SR-6068	88V	011-	1.4	4.9	LIMITORQUE	SMB-00-10	B	C
1G33*MOV041	4/1	SR-6068	88V				LIMITORQUE	SMB-00-15	B	C
1E51*MOV045	8	SR-6078	88V	023	4.4	3.6	LIMITORQUE	SMB-000-5 *	B	C
1E11*MOV039A	10	SR-6082	88V	805	18.6	1.0	LIMITORQUE	SMB-0-25	B	C
1E11*MOV039B	10	SR-6082	88V	807	4.5	8.1	LIMITORQUE	SMB-0-25	B	C

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- PROB. NO. WITH DASH(-) DENOTES PRIM. CONT.
- PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
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SHOREHAM UNIT 1
 JOB NUMBER 11600
 LILCO DOCKET 50-322

RBFH LIST
 2-SCRT

STONE & WEBSTER ENGINEERING CORPORATION
 REACTOR BUILDING CATEGORY I PIPE MOUNTED EQUIPMENT (EXTENDED OPERATORS)
 BCP QUALIFICATION LEVEL (295 ITEMS)

RUN DATE 01/26/81
 RUN TIME 14.16.57
 PAGE 6

1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROB NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HCR	VER	SUPPLIER	MODEL NO.	YOKE	OPER
1E11*HOV041A	6	SR-6177	88V	805	10.5	11.5	LIMITORQUE	SMB-00-15	B	C
1E11*HOV041B	6	SR-6177	88V	809	14.7	7.7	LIMITORQUE	SMB-00-15	B	C
1E51*HOV031	6	SR-6177	88V	022	7.4	3.9	LIMITORQUE	SMB-00-5 *	B	C
1E51*HOV032	6	SR-6177	88V	022	4.4	2.1	LIMITORQUE	SMB-00-5 *	B	C
1G41*HOV033A	6	SR-6177	88V	715		1.5	LIMITORQUE	SMB-000-5	F	F
1G41*HOV033B	6	SR-6177	89V	715		1.0	LIMITORQUE	SMB-000-5	F	F
1G41*HOV034A	6	SR-6177	88V	74	8.9	2.6	LIMITORQUE	SMB-0-7 1/2	B	C
1G41*HOV034B	6	SR-6177	88V	74	2.1		LIMITORQUE	SMB-0-7 1/2	F	F
1T48*HOV031A	6	SR-6177	88V	13205	3.1	1.0	LIMITORQUE	SMB-00-5	F	F
1T48*HOV031B	6	SR-6177	88V	13200	6.4	3.4	LIMITORQUE	SMB-00-5	B	C
1T48*HOV032A	6	SR-6177	88V	13203	3.7	2.7	LIMITORQUE	SMB-00-7 1/2	B	C
1T48*HOV032B	6	SR-6177	88V	13204	5.4	4.1	LIMITORQUE	SMB-00-7 1/2	B	C
1T48*HOV033A	6	SR-6177	88V	13205	4.2	1.4	LIMITORQUE	SMB-00-5	B	C
1T48*HOV033B	6	SR-6177	89V	13200	4.0	1.8	LIMITORQUE	SMB-00-5	B	C
1T48*HOV034A	6	SR-6177	88V	13203	3.7	1.8	LIMITORQUE	SMB-00-7 1/2	B	C
1T48*HOV034B	6	SR-6177	88V	13202	3.2	1.5	LIMITORQUE	SMB-00-7 1/2	F	F
1T48*HOV037A	6	SR-6177	88V	13203	3.9	3.5	LIMITORQUE	SMB-00-7 1/2	B	C
1T48*HOV037B	6	SR-6177	89V	13204	2.7		LIMITORQUE	SMB-00-7 1/2	F	F
1T48*HOV040A	6	SR-6177	88V	13203	4.1	1.1	LIMITORQUE	SMB-00-7 1/2	B	C

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3. 2/1 = 2 IN. CLASS 1
4. PROB. NO. WITH DASH(-) DENOTES PORN. CONT.
5. PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
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1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROC NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HCR	VER	SUPPLIER	MODEL NO.	YCKE	OPER
1T48*HOV040B	6	SR-6177	88V	13202	3.2	1.8	LIMITORQUE	SMB-00-7 1/2	F	F
1E11*HOV043A	4	SR-6180	88V	818	1.6		LIMITORQUE	SMB-00-15	F	F
1E11*HOV043B	4	SR-6180	88V	819	1.6		LIMITORQUE	SMB-00-15	F	F
1E11*HOV044A	4	SR-6180	88V	818	2.0		LIMITORQUE	SMB-00-15	F	F
1E11*HOV044B	4	SR-6180	88V	819	2.4		LIMITORQUE	SMB-00-15	F	F
1E11*HOV045A	4	SR-6180	88V	818	2.7		LIMITORQUE	SMB-000-5	F	F
1E11*HOV045B	4	SR-6180	88V	819		2.8	LIMITORQUE	SMB-000-5	F	F
1E11*HOV051	4	SR-6180	88V	817	1.5		LIMITORQUE	SMB-00-7 1/2 *	F	F
1E11*HOV052	4	SR-6180	88V	817	2.0		LIMITORQUE	SMB-00-10	F	F
1G11*HOV246	4	SR-6180	88V	1803	4.3	2.7	LIMITORQUE	SMB-000-5	B	C
1G11*HOV247	4	SR-6180	88V	1803	3.6	5.9	LIMITORQUE	SMB-000-5	B	C
1P42*HOV035	4	SR-6180	88V	310	4.6	3.8	LIMITORQUE	SMB-000-5	B	C
1P42*HOV036	4	SR-6180	88V	310	4.6	2.3	LIMITORQUE	SMB-000-5	B	C
1P42*HOV047	4	SR-6180	88V	0311	3.7	4.2	LIMITORQUE	SMB-000-5	B	C
1P42*HOV048	4	SR-6180	88V	0311	4.0	3.1	LIMITORQUE	SMB-000-5	B	C
1P42*HOV147	4	SR-6180	88V	24048	- 4.3	.9	LIMITORQUE	SMB-000-5	B	C
1P42*HOV148	4	SR-6180	88V	24049	- 4.2	1.0	LIMITORQUE	SMB-000-5	B	C
1P42*HOV231	4	SR-6180	88V	24061	1.0		LIMITORQUE	SMB-000-5	F	F
1P42*HOV236	4	SR-6180	88V				LIMITORQUE	SMB-000-5	B	C

QUALIFICATION MILESTONES

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NOTES

1. CL 2 AND 3 VALVES < OR = 2 IN. ARE FLOOR-MOUNTED (EMTG- 5)
2. CL 1 VALVES < OR = 1 IN. ARE FLOOR-MOUNTED (EMTG-5)
3. 2/1 = 2 IN. CLASS 1
4. PROC. NO. WITH DASH(-) DENOTES PRIM. CONT.
5. PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
6. IF ONLY ONE LOAD IS GIVEN FOR THE OPERATOR, IT IS THE MAXIMUM
7. * = DC MOTOR. ALL OTHERS ARE AC

1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROB NO.	5 OPER LOAD-G'S		OPERATOR		7 8 QUAL STATUS	
					HOR	VER	SUPPLIER	MODEL NO.	YOKE	OPER
1T48*MOV035A	4	SR-6180	88V	13205	4.0	2.9	LIMITORQUE	SMB-000-5	B	C
1T48*MOV035B	4	SR-6180	88V	13200	4.2	2.1	LIMITORQUE	SMB-000-5	B	C
1T48*MOV038A	4	SR-6180	88V	13205	4.2	2.0	LIMITORQUE	SMB-000-5	B	C
1T48*MOV038B	4	SR-6180	88V	13200	4.2	1.7	LIMITORQUE	SMB-000-5	B	C
1T48*MOV041	4	SR-6180	88V	13201	1.4		LIMITORQUE	SMB-000-5	F	F
1T48*MOV042	4	SR-6180	88V	13201		2.0	LIMITORQUE	SMB-000-5	F	F
1T48*MOV043A	4	SR-6180	88V	13205	2.8		LIMITORQUE	SMB-000-5	F	F
1T48*MOV043B	4	SR-6180	88V	13200	4.8	3.0	LIMITORQUE	SMB-000-5	B	C
1T48*MOV044A	4	SR-6180	88V	13205	6.2	1.9	LIMITORQUE	SMB-000-5	B	C
1T48*MOV044B	4	SR-6180	88V	13200	4.8	1.9	LIMITORQUE	SMB-000-5	B	C
1G33*MOV031	6/1	SR-6181	88V	011-	2.5		LIMITORQUE	SMB-0-40	F	F
1G33*MOV033	6/1	SR-6181	88V	012-	3.1	1.0	LIMITORQUE	SMB-00-25	F	F
1G33*MOV034	6/1	SR-6181	88V	012	5.7	4.2	LIMITORQUE	SMB-00-15 *	B	C
1E21*MOV034A	3	SR-6183	88V	101	2.0		LIMITORQUE	SMB-000-5	F	F
1E21*MOV034B	3	SR-6183	88V	104	1.2		LIMITORQUE	SMB-000-5	F	F
1G11*MOV248	3	SR-6183	88V	1812	1.7		LIMITORQUE	SMB-000-5	F	F
1G11*MOV249	3	SR-6183	88V	1812	2.5		LIMITORQUE	SMB-000-5	F	F
1P42*MOV232	3	SR-6183	88V	24061	3.5	7.1	LIMITORQUE	SMB-000-5	B	C
1P42*MOV233	3	SR-6183	88V	24061	4.4	9.8	LIMITORQUE	SMB-000-5	B	C

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NOTES

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- 2/1 = 2 IN. CLASS 1
- PROB. NO. WITH DASH(-) DENOTES PRIH. CONT.
- PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
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1 MARK NUMBER	2 PIPE SIZE	3 QUAL REPT	4 SPEC NO.	5 PROG NO.	6 OPER LOAD-G'S		OPERATOR SUPPLIER	7 MODEL NO.	8 QUAL STATUS	
					HOR	VER			YOKE	OPER
1P42*HOV234	3	SR-6183	88V	24061	5.4	9.5	LIMITORQUE	SMB-000-5	B	C
1P42*HOV235	3	SR-6183	88V	24061	5.9	7.9	LIMITORQUE	SMB-000-5	B	C
1P42*HOV237	3	SR-6183	88V	24065	4.0	2.5	LIMITORQUE	SMB-000-5	B	C
1P42*HOV238	3	SR-6183	88V	24065	4.5	1.6	LIMITORQUE	SMB-000-5	B	C
1P42*HOV239	3	SR-6183	88V	24065	7.6	2.2	LIMITORQUE	SMB-000-5	B	C
1P42*HOV240	3	SR-6183	88V	24065	3.8	1.7	LIMITORQUE	SMB-000-5	B	C
1P42*HOV031A	8	SR-6186	88V	035	1.7		LIMITORQUE	SMB-000-5	F	F
1P42*HOV031B	8	SR-6186	88V	035	1.8		LIMITORQUE	SMB-000-5	F	F
1P42*HOV032A	8	SR-6186	88V	0349	.6		LIMITORQUE	SMB-000-5	F	F
1P42*HOV032B	8	SR-6186	88V	0349	.6		LIMITORQUE	SMB-000-5	F	F
1P42*HOV043A	8	SR-6186	88V	035	1.1		LIMITORQUE	SMB-000-5	F	F
1P42*HOV043B	8	SR-6186	88V	035	3.0		LIMITORQUE	SMB-000-5	F	F
1P42*HOV044A	8	SR-6186	88V	035	1.0		LIMITORQUE	SMB-000-5	F	F
1P42*HOV044B	8	SR-6186	88V	035	2.9		LIMITORQUE	SMB-000-5	F	F
1B21*HOV083	2/1	SR-6188	253	-			LIMITORQUE	SMB-000-5	B	C
1B21*HOV084	2/1	SR-6188	253	-			LIMITORQUE	SMB-000-5	B	C
1B21*HOV085	2/1	SR-6188	253	-			LIMITORQUE	SMB-000-5	B	C
1E11*HOV081A	2/1	SR-6188	253	800-			LIMITORQUE	SMB-00-5	B	C
1E11*HOV081B	2/1	SR-6188	253	812-			LIMITORQUE	SMB-00-5	B	C

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- PROG. NO. WITH DASH(-) DENOTES PRIM. CONT.
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SHOREHAM UNIT 1
JOB NUMBER 11600
LILCO DOCKET 50-322

RBPH LIST
2-SORT

STONE & WEBSTER ENGINEERING CORPORATION
REACTOR BUILDING CATEGORY I PIPE MOUNTED EQUIPMENT (EXTENDED OPERATORS)
BOP QUALIFICATION LEVEL (295 ITEMS)

RUN DATE 01/26/81
RUN TIME 14.16.57
PAGE 10

1 MARK NUMBER	2 PIPE SIZE	3 QUAL REPT	4 SPEC NO.	5 PROC NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HOR	VER	SUPPLIER	MODEL NO.	YOKE	OPER
1E21*HOV081A	2/1	SR-6188	253	-			LIMITORQUE	SMB-00-5	B	C
1E21*HOV081B	2/1	SR-6188	253	-			LIMITORQUE	SMB-00-5	B	C
1E41*HOV039	2/2	SR-6188	253	S	1.5	1.3	LIMITORQUE	SMB-00-5 *	F	F
1E51*HOV036	2/2	SR-6188	253	S	1.5	1.3	LIMITORQUE	SMB-000-5 *	F	F
1E51*HOV038	2/2	SR-6188	253	S	1.5	1.3	LIMITORQUE	SMB-000-5 *	F	F
1E51*HOV046	2/2	SR-6188	253	S	1.5	1.3	LIMITORQUE	SMB-000-2 *	F	F
1E51*HOV049	1.5/2	SR-6188	253	S	1.5	1.3	LIMITORQUE	SMB-000-2 *	F	F
1E11*HOV055A	1	SR-6190	253	S	1.5	1.3	LIMITORQUE	SMB-000-2	F	F
1E11*HOV055B	1	SR-6190	253	S	1.5	1.3	LIMITORQUE	SMB-000-2	F	F
1E11*HOV056A	1	SR-6190	253	S	1.5	1.3	LIMITORQUE	SMB-000-2	F	F
1E11*HOV056B	1	SR-6190	253	S	1.5	1.3	LIMITORQUE	SMB-000-2	F	F
1E41*HOV047	1/1	SR-6190	253	P66-	6.9	3.0	LIMITORQUE	SMB-000-2	B	C
1E41*HOV048	1/1	SR-6190	253	S	1.5	1.3	LIMITORQUE	SMB-000-2*	F	F
1E41*HOV049	2/2	SR-6190	253	S	1.5	1.3	LIMITORQUE	SMB-000-2*	F	F
1E51*HOV047	1/1	SR-6190	253	020P-	5.9	2.7	LIMITORQUE	SMB-000-2	B	C
1E51*HOV043	1/1	SR-6190	253	000S	9.0	5.2	LIMITORQUE	SMB-000-2 *	B	C
1P42*HOV033A	6	SR-6199	89V	0331		1.0	LIMITORQUE	SMB-000-5	F	F
1P42*HOV033B	6	SR-6199	89V	0331		1.0	LIMITORQUE	SMB-000-5	F	F
1P42*HOV034A	6	SR-6199	80V	036		1.3	LIMITORQUE	SMB-000-5	F	F

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- PROC. NO. WITH DASH(-) DENOTES PRIM. CONT.
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1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROC NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HOR	VER	SUPPLIER	MODEL NO.	YOKE	OPER
1P42*HOV034B	6	SR-6199	88V	036	1.2		LIMITORQUE	SMB-000-5	F	F
1E21*HOV033A	10/1	SR-6259	88V	100	5.9	3.9	LIMITORQUE	SMB-2-80	B	C
1E21*HOV033B	10/1	SR-6259	88V				LIMITORQUE	SMB-2-80	B	C
1E41*HOV041	10/1	SR-6259	83V	-			LIMITORQUE	SMB-3-80	B	C
1E11*HOV049	10	SR-6260	88V				LIMITORQUE	SMB-2-80	B	C
1E41*HOV037	8	SR-6260	88V	112	2.7	.9	LIMITORQUE	SMB-1-25 *	F	F
1E41*HOV038	10	SR-6262	88V	112	2.8	1.5	LIMITORQUE	SMB-1-40 *	F	F
1E41*HOV043	10	SR-6262	88V	113	.7	.5	LIMITORQUE	SMB-1-60 *	F	F
1E41*HOV042	10/1	SR-6264	83V	116			LIMITORQUE	SMB-1-60 *	B	C
1P42*HOV041A	14	SR-6265	88V	039	2.6		LIMITORQUE	SMB-0-25	F	F
1P42*HOV041B	14	SR-6265	88V	030	2.1		LIMITORQUE	SMB-0-25	F	F
1P42*HOV042A	14	SR-6265	89V	039		2.5	LIMITORQUE	SMB-0-25	F	F
1P42*HOV042B	14	SR-6265	89V	030		2.2	LIMITORQUE	SMB-0-25	F	F
1E11*HOV033A	16	SR-6266	88V	806	4.4	1.8	LIMITORQUE	SMB-1-60	B	C
1E11*HOV033B	16	SR-6266	88V	808	4.2	2.6	LIMITORQUE	SMB-1-60	B	C
1E11*HOV035A	16	SR-6266	88V	806	3.5	1.6	LIMITORQUE	SMB-1-60	F	F
1E11*HOV035B	16	SR-6266	88V	808	3.0	4.0	LIMITORQUE	SMB-1-60	B	C
1E11*HOV040A	16	SR-6266	88V	805	11.0	8.4	LIMITORQUE	SMB-1-60	B	C
1E11*HOV040B	16	SR-6266	88V	807	12.5	8.8	LIMITORQUE	SMB-1-60	B	C

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- PROB. NO. WITH DASH(-) DENOTES PRIM. CONT.
- PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
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SHOREHAM UNIT 1
 JOB NUMBER 11600
 LILCO DOCKET 50-322

RBRH LIST
 2-SORT

STONE & WEBSTER ENGINEERING CORPORATION
 REACTOR BUILDING CATEGORY I PIPE MOUNTED EQUIPMENT (EXTENDED OPERATORS)
 BCP QUALIFICATION LEVEL (295 ITEMS)

RUN DATE 01/26/81
 RUN TIME 14.16.57
 PAGE 12

1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROC NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HOR	VER	SUPPLIER	MODEL NO.	YCRK	OPER
1E41*MOV031	16	SR-6266	88V	110	10.4	2.4	LIMITORQUE	SHB-0-25 *	B	C
1E41*MOV032	16	SR-6266	88V	110	4.5	1.3	LIMITORQUE	SHB-0-25 *	B	C
1E41*MOV034	14	SR-6267	88V				LIMITORQUE	SHB-2-60 *	B	C
1E11*MOV050	20	SR-6270	88V	807	11.9	8.1	LIMITORQUE	SHB-2-60	B	C
1E41*MOV044	18	SR-6270	88V	111	2.3	2.6	LIMITORQUE	SHB-0-15 *	F	F
1E21*AOV081A	10	SR-6331	232	100-	6.7	4.3	KIELEY&MUELL	34083-1IN	B	B
1E21*AOV081B	10	SR-6331	232	-			KIELEY&MUELL	34083-1IN	B	B
1B21*AOV036A	18	SR-6332	232				KIELEY&MUELL	34100-2IN	B	B
1B21*AOV036B	18	SR-6332	232				KIELEY&MUELL	34100-2IN	B	B
1E11*AOV081A	24	SR-6334	232	800	6.0	3.3	KIELEY&MUELL	34100-2.25IN	B	B
1E11*AOV081B	24	SR-6334	232	812	7.9	3.4	KIELEY&MUELL	34100-2.25IN	B	B
1B31*AOV081	.75	10.3.115	318	P133-	6.9	3.0	COPEX	D-100-60	B	B
1B31*AOV082	.75	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E11*AOV061A	.75	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E11*AOV061B	.75	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E11*AOV062A	.75	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E11*AOV062B	.75	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E11*PCV003A	10	10.3.115	318	806	1.3		COPEX	D-100-160	F	F
1E11*PCV003B	10	10.3.115	318	808	.9		COPEX	D-100-160	F	F

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NOTES

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2. CL 1 VALVES < OR = 1 IN. ARE FLOOR-MOUNTED (ENTG-5)
3. 2/1 = 2 IN. CLASS 1
4. PROC. NO. WITH DASH(-) DENOTES PRIM. CONT.
5. PRESENT QUALIFICATION VALID FOR OPERATOR LOADS < OR = 3 G'S HORIZONTAL AND VERTICAL (FAULTED)
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1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROB NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HOR	VER	SUPPLIER	MODEL NO.	YOKE	OPER
1E11*PCV007A	4	10.3.115	318	818	1.0		COPEX	D-100-100	F	F
1E11*PCV007B	4	10.3.115	318	819		1.3	COPEX	D-100-100	F	F
1E41*AOV081	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E41*AOV082	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E41*AOV083	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E41*LCV-091	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E41*LCV095	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E51*AOV081	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E51*AOV082	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E51*AOV083	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E51*LCV091	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1E51*LCV095	1	10.3.115	318	S	1.5	1.3	COPEX	D-100-60	F	F
1P42*PCV071	6	10.3.115	318	0348	1.2		COPEX	D-100-60	F	F
1T46*AOV078A	6	10.3.145	318	24073	2.5	1.5	COPEX	D-100-100	F	F
1T46*AOV0789	6	10.3.145	318	24073	2.3	1.3	COPEX	D-100-100	F	F
1T46*AOV0794	6	10.3.151	318	24074	3.0	1.7	COPEX	D-100-100	F	F
1T46*AOV079B	6	10.3.151	318	24074	1.9	1.2	COPEX	D-100-100	F	F
1E11*HOV038A	10	10-300A	88AD	805	4.9	1.4	LIMITORQUE	SMB-2-60	B	C
1E11*HOV038B	10	10-300A	88AD	807	5.8	1.5	LIMITORQUE	SMB-2-60	B	C

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4. PPCS. NO. WITH DASH(-) DENOTES PRIM. CONT.

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					HCR	VER	SUPPLIER	MODEL NO.	YOKE	OPER
1E21*MOV035A	10	10-300GL	88AD	101	2.0		LIMITORQUE	SHB-1-40	F	F
1E21*MOV035B	10	10-300GL	88AD	101	2.0		LIMITORQUE	SHB-1-40	F	F
1E21*MOV031A	14	14-150GT	88AD	101	2.7		LIMITORQUE	SHB-000-5	F	F
1E21*MOV031B	14	14-150GT	88AD	110	3.5	.6	LIMITORQUE	SHB-000-5	F	F
1E41*MOV035	14/1	14900-GT05	88AD				LIMITORQUE	SHB-3-100 *	B	C
1E11*MOV042A	16	16-300-GL	88AD	805	5.9	5.0	LIMITORQUE	SHB-3-80	B	C
1E11*MOV042B	16	16-300-GL	88AD	809	6.3	4.3	LIMITORQUE	SHB-3-80	B	C
1E11*MOV034A	18	18-300A	88AD	806	2.3		LIMITORQUE	SHB-3-150	F	F
1E11*MOV034B	18	18-300A	88AD	808		1.9	LIMITORQUE	SHB-3-150	F	F
1G41*MOV032A	6	1891-1	203	76	1.3		LIMITORQUE	SHB-00-10	F	F
1G41*MOV032B	6	1891-1	203	76	.7		LIMITORQUE	SHB-00-10	F	F
1P41*MOV039A	1/3	1891-1	203	S	1.5	1.3	LIMITORQUE	SHB-000-2	F	F
1P41*MOV039B	1/3	1891-1	203	S	1.5	1.3	LIMITORQUE	SHB-000-2	F	F
1P41*MOV043	1/3	1891-1	203	S	1.5	1.3	LIMITORQUE	SHB-000-2	F	F
1E41*PCV142	2/2	2-24451	310	S	1.5	1.3	BECK	14-101-ES	F	F
1E51*PCV142	2/2	2-24451	310	S	1.5	1.3	BECK	14-101-DBQ	F	F
1T46*TCV-022A	4	2-24451	310	24050	1.2		BECK	14-101-ES	F	F
1T46*TCV-022B	4	2-24451	310	2403B	1.0		BECK	14-101-ES	F	F
1T46*TCV-023A	4	2-24451	310	2404	1.1		BECK	14-101-ES	F	F

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NOTES

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- PROB. NO. WITH DASH(-) DENOTES PRIH. CONT.
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SHORE UNIT 1
 JOB NO. 11600
 LILCO DOCKET 50-322

RBPH LIST
 2-SORT

STONE & WEBSTER ENGINEERING CORPORATION
 REACTOR BUILDING CATEGORY I PIPE MOUNTED EQUIPMENT (EXTENDED OPERATORS)
 BOP QUALIFICATION LEVEL (295 ITEMS)

RUN DATE 01/26/81
 RUN TIME 14.16.57
 PAGE 15

1 MARK NUMBER	PIPE SIZE	2 QUAL REPT	3 SPEC NO.	4 PROB NO.	5 OPER LOAD-G'S		6 OPERATOR		7 8 QUAL STATUS	
					HOR	VER	SUPPLIER	MODEL NO.	YOKE	OPER
1T46*TCV-023B	4	2-24451	310	24043	.8		BECK	14-101-ES	F	F
1T46*TCV-024A	4	2-24451	310	24053	.9	.6	BECK	14-101-ES	F	F
1T46*TCV-024B	4	2-24451	310	24055	1.1		BECK	14-101-ES	F	F
1T46*TCV-025A	4	2-24451	310	24056	1.2		BECK	14-101-ES	F	F
1T46*TCV-025B	4	2-24451	310				BECK	14-101-ES	B	B
1T46*TCV-026A	4	2-24451	310	24040			BECK	14-101-ES	B	B
1T46*TCV-026B	4	2-24451	310	24051	.7	.5	BECK	14-101-ES	F	F
1T46*TCV-028A	2/3	2-24451	310	S	1.5	1.3	BECK	14-101-ES	F	F
1T46*TCV-028B	2/3	2-24451	310	S	1.5	1.3	BECK	14-101-ES	F	F
1T46*TCV059A	2/3	2-24451A	310	2407	1.1	.6	BECK	14-101-ES	F	F
1T46*TCV059B	2/3	2-24451A	310	S	1.5	1.3	BECK	14-101-ES	F	F
1T46*TCV060A	2/3	2-24451A	310	2407	.6	.7	BECK	14-101-ES	F	F
1T46*TCV060B	2/3	2-24451A	310	S	1.5	1.3	BECK	14-101-ES	F	F
1E11*HOV031A	20	20-150GT	88AD	802	10.0	1.0	LIMITORQUE	SMB-0-40	B	C
1E11*HOV031B	20	20-150GT	88AD	801	6.0	.5	LIMITORQUE	SMB-0-40	B	C
1E11*HOV031C	20	20-150GT	88AD	802	8.4	.5	LIMITORQUE	SMB-0-40	B	C
1E11*HOV031D	20	20-150GT	88AD	801	5.8	.5	LIMITORQUE	SMB-0-40	B	C
1E11*HOV032A	20	20-150GT	88AD	802	11.9	2.1	LIMITORQUE	SMB-0-40	B	C
1E11*HOV032B	20	20-150GT	88AD	801	4.4	7.2	LIMITORQUE	SMB-0-40	B	C

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4. PROB. NO. WITH DASH(-) DENOTES PRIM. CONT.
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1 MARK NUMBER	2 PIPE SIZE	3 QUAL REPT	4 PIPE NO.	5 OPER LOAD-G'S		6 OPERATOR	7 YOKE	8 QUAL STATUS OPER
				HOR	VER			
1E11*H0V032C	20	20-150GT	802	7.5	10.7	LIMITORQUE SHB-0-40	B	C
1E11*H0V032D	20	20-150GT	801	5.2	6.5	LIMITORQUE SHB-0-40	B	C
1B21*H0V035A	20/1	20-150055C09	804D			LIMITORQUE SHB-1-40	B	C
1B21*H0V035B	20/1	20-150055C09	804D			LIMITORQUE SHB-1-40	B	C
1E11*H0V047	20/1	20200-GT06	812-	4.9	3.3	LIMITORQUE SB-2-60	B	C
1E11*H0V048	20/1	20200-GT06	802	8.4	5.3	LIMITORQUE SB-2-60 *	B	C
1E11*H0V036A	24	24-900AV	805	5.7	4.5	LIMITORQUE SHB-4-200	B	C
1E11*H0V036B	24	24-900AV	807	6.7	4.0	LIMITORQUE SHB-4-200	B	C
1E11*H0V037A	24/1	2422900GT07	805	7.1	5.2	LIMITORQUE SB-4-200	B	C
1E11*H0V037B	24/1	2422900GT07	807	6.3	4.3	LIMITORQUE SB-4-200	B	C

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SHOREHAM UNIT 1
 JOB NUMBER 11600
 LILCO DOCKET 50-322

CB LIST
 3-SORT

STONE & WEBSTER ENGINEERING CORPORATION
 CONTROL BUILDING CATEGORY I EQUIPMENT
 EOP QUALIFICATION LEVEL (157 ITEMS)

RUN DATE 01/23/81
 RUN TIME 12.33.31
 PAGE 1 of 8

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESF	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE	SAFE HTNG	QUAL SHTDN	STATUS
1R22*SHG-101	4.16KV EMER BUS 101	39	JPL	GEN ELEC CO	025		300-91059	JA/SAT	12	F			F
1R22*SHG-102	4.16KV EMER BUS 102	39	JPL	GEN ELEC CO	025		300-91059	DA/SAT	12	F			F
1R22*SHG-103	4.16KV EMER BUS 103	39	JPL	GEN ELEC CO	025		300-91059	DA/SAT	12	F			F
1M50*P-137	RBSVS & CRAC CH PUMPS	62G	GPH	GOULD PUMPS	063		ME-326	SA	61	F			F
1M50*P-138	RBSVS & CRAC CH PUMPS	62G	GSH	GOULD PUMPS	063		ME-326	SA	61	F			F
1M50*P-139	RBSVS & CRAC COND PUMP	62H	WSH	WORTHINGTON	063		DHA-000047	SA	30	F			F
1M50*P-140	RBSVS & CRAC COND PUMP	62H	WSH	WORTHINGTON	063		DHA-000047	SA	30	F			F
1R43*G-101	EMER DIESEL GENERATOR	89	GPE	DE LAVAL	025		J9657	DA	4	F			F
1R43*G-102	EMER DIESEL GENERATOR	89	GPE	DE LAVAL	025		11001	SAT	4	F			F
1R43*G-103	EMER DIESEL GENERATOR	89	GPE	DE LAVAL	025		11001	SAT	4	F			F
1R43*TK-198	DG101-103 ST AIR RECVR	89	GPE	DE LAVAL	025		11001	SAT	4	F			F
1R43*TK-199	DG101-103 ST AIR RECVR	89	GPE	DE LAVAL	025		11001	SAT	4	F			F
1R43*TK-200	DG101-103 ST AIR RECVR	89	GPE	DE LAVAL	025		11001	SAT	4	F			F
1R43*TK-201	DG101-103 ST AIR RECVR	89	GPE	DE LAVAL	025		11001	SAT	4	F			F
1R23*SHG-111	480V EMER SHGR BUS 111	95	SS	ITE	025		33-48359	HBT	5	F			F
1R23*SHG-112	480V EMER SHGR BUS 112	95	SS	ITE	025		33-48359	HBT	5	F			F
1R23*SHG-113	480V EMER SHGR BUS 113	95	SS	ITE	025		33-48359	HBT	5	F			F
1R23*T-101	4160-480V TRANSF BUS 1	95	SS	ITE	025		33-48359	HBT	6	F			F
1R23*T-102	4160-480V TRANSF BUS 1	95	SS	ITE	025		33-48359	HBT	6	F			F
1R23*T-103	4160-480V TRANS BUS 11	95	SS	ITE	025		33-48359	HBT	6	F			F
1R42*SHG-A1	125 VDC SHG BATTERY BU	95	SS	ITE	025		33-51266	HBT	6	F			F

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STONE & WEBSTER ENGINEERING CORPORATION
 CONTROL BUILDING CATEGORY I EQUIPMENT
 BOP QUALIFICATION LEVEL (157 ITEMS)

RUN DATE 01/23/81
 RUN TIME 12.33.31
 PAGE 2

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE SAFE HTNG	QUAL SHTDN STATUS
1R42-SHG-B1	125 VDC SHG BATTERY BU	95	SS	ITE	025		33-51266	HBT	6	F	F
1R42-SHG-C1	125 VDC SHG BATTERY BU	95	SS	ITE	025		33-51266	HBT	6	F	F
1X61-FN-025	CONTROL ROOM BOOSTER F	102	RK	BUFFALO FORGE	063		745-4234A	SA	27	F	F
1X61-FLT-02	CRAC FILTER TRAINS	105	RK	FARR CO	063		D-56302	SA/SAT	35	F	F
1H50-H-021	HEATERS	106	RK	TRANE	063		NUC-102	SA	9	F	F
1H50-H-022	HEATERS	106	RK	TRANE	063		NUC-102	SA	9	F	F
1H50-P-2J1	LO PUMPS-NC-003	106	RK	TRANE CO	063		NUC-102	SA	9	F	F
1H50-P-232	PURGE PUMPS-NC-003	106	RK	TRANE CO	063		NUC-102	SA	9	F	F
1H50-P-233	LO PUMPS-NC-004	106	RK	TRANE CO	063		NUC-102	SA	9	F	F
1H50-P-234	PURGE PUMPS-NC-004	106	RK	TRANE CO	063		NUC-102	SA	9	F	F
1H50-PNL-03	CHILLER CONTROL PANEL	106	RK	TRANE CO	063		NUC-102	SA	13	F	F
1H50-PNL-04	CHILLER CONTROL PANEL	106	RK	TRANE	063		NUC-102	SA	13	F	F
1H50-HC-003	RBSVS & CRAC WTR CHILL	106	RK	TRANE CO	063		NUC-102	SA	9	F	F
1H50-HC-004	RBSVS & CRAC WTR CHOLL	106	RK	TRANE CO	063		NUC-102	SA	9	F	F
1X61-AOV036	CHTRL RM ISOL	111	APH	FISHER	063		CD75-35	SA/SAT	21	P	F
1X61-AOV039	CHTRL RM ISOL	111	APH	FISHER	063		CD75-35	SA/SAT	21	P	F
1X61-HOV031	CHTRL RM ISOL	111	APH	FISHER	063		CD75-35	SA/SAT	21	P	F
1X61-HOV032	CHTRL RM ISOL	111	APH	FISHER	063		CD75-35	SA/SAT	21	P	F
1H50-TK-088	RBSVS & CRAC-SURGE TAN	114	HM	BUFFALO TANK	063		NH(B)	SA	45	F	F
1R43-TK-135	FUEL OIL DAY	114	HM	BUFFALO TANK	025		NH(B)	SA	21	F	F
1R24-MCC1115	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	025		100-1.01 L2	HBT	4	F	F

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STONE & WEBSTER ENGINEERING CORPORATION
 CONTROL BUILDING CATEGORY I EQUIPMENT
 BOP QUALIFICATION LEVEL (157 ITEMS)

RUN DATE 01/23/81
 RUN TIME 12.33.31
 PAGE 3

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE	SAFE HTNG SHTDN	QUAL STATUS
1R24*HCC1116	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	015		108-1.01 L2	HBT	4	F		F
1R24*HCC1125	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	025		108-1.01 L2	HBT	4	F		F
1R24*HCC1126	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	025		108-1.01 L2	HBT	4	F		F
1R24*HCC1133	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	025		108-1.01 L2	HBT	4	F		F
1R24*HCC1134	MOTOR CONT CNTR, BUS 1	115	SS	SQUARE D CO	025		108-1.01 L2	HBT	4	F		F
1R42*BA-A1	125VOLT BATTERY	116	GPE	GOULD INC	025		2/18/76	HBT	19	F		F
1R42*BA-B1	125VOLT BATTERY	116	GPE	GOULD INC	025		2/18/76	HBT	19	F		F
1R42*BA-C1	125VOLT BATTERY	116	GPE	GOULD INC	025		2/18/76	HBT	19	F		F
1R42*BC-A1	125VOLT BATTERY CHARGE	118	GPE	SOLIDSTATE	025		4/29/76	SAT	8	F		F
1R42*BC-B1	125VOLT BATTERY CHARGE	118	GPE	SOLIDSTATE	025		4/29/76	SAT	8	F		F
1R42*BC-C1	125VOLT BATTERY CHARGE	118	GPE	SOLIDSTATE	025		4/29/76	SAT	8	F		F
1H11*MCB-01	MAIN CONTROL BOARD	120	RLP	RELIANCE	063		43331-1	DA/SAT	16	F		F
1R35*PNL-B1	EMER 120V PNL B1-REL R	124	GPE	SYSTEM CONT	044		15074	HBT	21	F		F
1R35*PNL-B3	EMER 120/240V PANEL	124	GPE	SYSTEM CONT	025		15074	HBT	21	F		F
1R35*PNL-R1	EMER 120V PNL R1-REL R	124	GPE	SYSTEM CONT	044		15074	HBT	21	F		F
1R35*PNL-R3	EMER 120/240V PANEL	124	GPE	SYSTEM CONT	025		15074	HBT	21	F		F
1R35*PNL-01	EMER 120V PNL 01-REL R	124	GPE	SYSTEM CONT	044		15074	HBT	21	F		F
1R35*PNL-02	EMER 120/240V PANEL	124	GPE	SYSTEM CONT	025		15074	HBT	21	F		F
1R42*PNL-A1	125 VDC DIST PANEL BUS	124	GPE	SYSTEM CONT	025		15074	SAT	21	F		F
1R42*PNL-A2	125 VDC DIST PANEL BUS	124	GPE	SYSTEM CONT	044		15074	SAT	21	F		F
1R42*PNL-B1	125 VDC DIST PANEL BUS	124	GPE	SYSTEM CONT	025		15074	SAT	21	F		F

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1R42*PNL-B2	125 VDC DIST PANEL BUS	124	CPE	SYSTEM CONT	044		15074*	SAT	21	F		F
1R42*PNL-C1	125 VDC DIST PANEL BUS	124	GPE	SYSTEM CONT	025		15074	SAT	21	F		F
1R42*PNL-C2	125 VDC DST PNL-BLK-BS	124	GPE	SYSTEM CONT	025		15074	SAT	21	F		F
1H11*PNL-AC1	H2&02 ANAL&PST ACC SAM	125	RLP	RELIANCE	063					F		D
1H11*PNL-AC2	H2&02 ANAL&PST ACC SAM	125	RLP	RELIANCE	063					F		D
1H11*PNL-BR1	BUFFER RELAY CAB	125	RLP	RELIANCE	044		99AX400536	DA/SAT	37	F		F
1H11*PNL-HXP	MISC CONTROL PANEL	125	RLP	RELIANCE	063		99AX400590	DA/SAT	17	F		F
1H11*PNL-PCM	PRI CONT MONITOR PANEL	125	RLP	RELIANCE	063		99AX400666	DA/SAT	14	F		F
1H11*PNL-SNP	SEIS MONITOR	125	RLP	RELIANCE	063		99AX400695	DA/SAT	17	F		F
1H11*PNL-VC1	TB & MISC VENT	125	RLP	RELIANCE	063		99AX400536	DA/SAT	17	F		F
1H11*PNL-VC2	RB VENT	125	RLP	RELIANCE	063		99AX400536	DA/SAT	17	F		F
1H21*PNL-AX1	AUX RELAY	125	RLP	RELIANCE	044		99AX400590	DA/SAT	32	F		F
1H21*PNL-AX2	AUX RELAY	125	RLP	RELIANCE	044		99AX400590	DA/SAT	32	F		F
1H21*PNL-AX3	AUX RELAY PANEL AX3	125	RLP	RELIANCE	063		AAI-131	DA/SAT	22	F		F
1H21*PNL-AX5	AUX RELAY PANEL AX5	125	RLP	RELIANCE	063		AAI-131	DA/SAT	22	F		F
1H21*PNL-AX6	AUX RELAY PANEL AX6	125	RLP	RELIANCE	063		AAI-131	DA/SAT	22	F		F
1H21*PNL-BR1	BUFFER RELAY	125	RLP	RELIANCE	044			DA/SAT		F		D
1H21*PNL-HXP	MISC CONTROL PANEL	125	RLP	RELIANCE	063			DA/SAT		F		D
1H21*PNL-VX1	VENT AUX RELAY	125	RLP	RELIANCE	044		99X0536-VX1	DA/SAT	34	F		F
1H21*PNL-VX2	VENT AUX RELAY	125	RLP	RELIANCE	044		99X0536-VX1	DA/SAT	34	F		F
1H21*PNL-VX3	VENT AUX RELAY	125	RLP	RELIANCE	044		99X0536-VX1	DA/SAT	34	F		F

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STONE & WEBSTER ENGINEERING CORPORATION
 CONTROL BUILDING CATEGORY I EQUIPMENT
 BOP QUALIFICATION LEVEL (157 ITEMS)

RUN DATE 01/23/81
 RUN TIME 12.33.31
 PAGE 5

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	JUAL METH	FREQ	TYPE HTNG	SAFE SHTDN	QUAL STATUS
1H21*PNL-060	ELEC ANAL INSTR RK	125	RLP	RELIANCE	044		99X400679	DA/SAT	23	F		F
1P41*PNL-PCH	PC CONT MONITOR	125	RLP	RELIANCE	063			DA/SAT		F		D
1R23*PNL-001	480V LOAD RESET PANEL1	125	RLP	RELIANCE	025		AA1-125	DA/SAT	24	F		F
1R23*PNL-002	480V LOAD RESET PANEL2	125	RLP	RELIANCE	025		AA1-125	DA/SAT	24	F		F
1R23*PNL-003	480V LOAD RESET PANEL3	125	RLP	RELIANCE	025		AA1-125	DA/SAT	24	F		F
1T40*PNL-ACH	PC ATH CNTRL	125	RLP	RELIANCE	063		99AX400600	DA/SAT	19	F		F
1H50*MOV031	CH RETURN	197	GRP	PRATT	071		D-0034-7	SA	394	P		F
1H50*MOV032	CH SUPPLY	197	GRP	PRATT	075		D-0034-7	SA	394	P		F
1H50*MOV033	CH RETURN CROSSOVER	197	GRP	PRATT	071		D-0034-7	SA	394	P		F
1H50*MOV034	CH SUPPLY CROSSOVER	197	GRP	PRATT	075		D-0034-7	SA	394	P		F
1P41*MOV036A	VT CHILL WTR SPLY ISOL	197	GRP	PRATT	012		D-0034-4	SA	394	P		F
1P41*MOV036B	VT CHILL WTR SPLY ISOL	197	GRP	PRATT	012		D-0034-4	SA	394	P		F
1P41*MOV036C	VT CHILL WTR SPLY ISOL	197	GRP	PRATT	012		D-0034-4	SA	297	P		F
1H43*PNL-C01	C02 DETEC PNL RELAY R1	238	HN	RELIANCE	044		44204-1	HBT	17	F		F
1H43*PNL-C02	C02 SUPVR PNL BATTERY	238	RK	RELIANCE	025		44204-1	HBT	17	F		F
1H43*PNL-C03	C02 SUPVR PNL BATTERY R	238	RK	RELIANCE	025		44204-1	HBT	17	F		F
1H43*PNL-C04	C02 SUPVR PNL BATTERY R	238	HN	RELIANCE	025		44204-1	HBT	17	F		F
1H43*PNL-C05	C02 SUPVR PNL DSL RH 1	238	RK	RELIANCE	015		44204-1	HBT	17	F		F
1H43*PNL-C06	C02 SUPVR PNL DSL RH 1	238	HN	RELIANCE	015		44204-1	HBT	17	F		F
1H43*PNL-C07	C02 SUPVR PNL DSL RH 1	238	HN	RELIANCE	015		44204-1	HBT	17	F		F
1H43*PNL-C08	C02 SUPVR PNL EMER SWG	238	HN	RELIANCE	025		44204-1	HBT	17	F		F

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 CONTROL BUILDING CATEGORY I EQUIPMENT
 BOP QUALIFICATION LEVEL (157 ITEMS)

RUN DATE 01/23/81
 RUN TIME 12.33.31
 PAGE 6

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE	SAFE NTNG	QUAL SHTDN	STATUS
1H43*PNL-C08	C02 SUPVR PNL EMER SHG	238	HN	RELIANCE	025		44204-1	HBT	17	F			F
1H43*PNL-C09	C02 SUPVR PNL EMER SHG	238	HN	RELIANCE	025		44204-1	HBT	17	F			F
1H43*PNL-C10	C02 SUPVR PNL EMER SHG	238	RK	RELIANCE	025		44204-1	HBT	17	F			F
1H43*PNL-C11	C02 SUPVR PNL COMPUTER	238	HN	RELIANCE	044		44204-1	HBT	17	F			F
1X41*ACU-14	COMP, RELAY&EM SHGR RM	240	HN	BAHNSON CO	044		A-14-75-01	SA	17	F			F
1X61*ACU-07	CONTROL ROOM A/C UNITS	240	HN	BAHNSON CO	063		A-47-75-01	SA	17	F			F
1R35*W-T-R1	XFR-HTR 120V PNL R1	248	JPL	MAGNETICS	025		4324-1	HBT	9	F			F
1R35*W-T-01	XFR-HTR 120V PNL 01	248	JPL	MAGNETICS	025		4324-1	HBT	9	F			F
1R35*W-T-201	XFR-HTR SPACE HTR-BUS	248	JPL	MAGNETICS	025		4324-1	HBT	9	F			F
1R35*W-T-202	XFR-HTR SPACE HTR-BUS	248	JPL	MAGNETICS	025		4324-1	HBT	9	F			F
1R35*W-T-203	XFR-HTR SPACE HTR-BUS	248	JPL	MAGNETICS	025		4324-1	HBT	9	F			F
1X41*FN-029	RELAY&EMER SHGR RET FN	270	RK	BUFFALO FORGE	044		74S-11139	SA	20	F			F
1X41*FN-039	CR CHILL EQUIP RM EXH	270	RK	BUFFALO FORGE	063		74S-11140A	SA	12	F			F
1X41*FN-072	BATTERY RM VENTILATION	270	RK	BUFFALO FORGE	025		74S-11140C	SA	12	F			F
1X60*FN-028	DIESEL GEN RM SUPPLY F	270	RK	BUFFALO FORGE	025		74S-11138	SA	12	F			F
1T43*PNL-A2	HYD RECOMBINER CONT CA	289		ATOMICS INT	063		76AT-5823	HBT	6	F			F
1H50*PCV019	RBSV H50 DIFF PRESS	310	APH	FISHER CONTROL	078		2-24451	SA/SAT	25	P			F
1H50*AOV068	CHILLED HTR ISO BY	318	APH	COPE'S VULCAN	071		7520-95358	SA	34	P			F
1H50*AOV069	CHILLED HTR ISO BY	318	APH	COPE'S VULCAN	075		7520-95358	SA	34	P			F
1H50*LCV025	CH SYSTEM A MAKEUP	318	APH	COPE'S VULCAN	072		7520-95358	SA	34	D			F
1X41*PNLVC16	VENT CONTROL PANEL	319	HLD	POHRS REG	025		1001-6	SA/SAT	26	F			F

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 CONTROL BUILDING CATEGORY I EQUIPMENT
 BOP QUALIFICATION LEVEL (157 ITEMS)

RUN DATE 01/23/81
 RUN TIME 12.33.31
 PAGE 7

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE HTNG	SAFE SHTDN	QUAL STATUS
1X41*PNLVC17	VENT CONTROL PANEL	319	HLD	POHERS REG	025		1001-6	SA/SAT	26	F		F
1X41*PNLVC18	VENT CONTROL PANEL	319	HLD	POHERS REG	025		1001-6	SA/SAT	26	F		F
1X41*PNLVC21	VENT CONTROL PANEL	319	HLD	POHERS REG	044		1001-6	SA/SAT	28	F		F
1X60*PNLVC13	VENT CONTROL PANEL	319	HLD	POHERS REG	025		1001-6	SA/SAT	35	F		F
1X60*PNLVC14	VENT CONTROL PANEL	319	HLD	POHERS REG	025		1001-6	SA/SAT	35	F		F
1X60*PNLVC15	VENT CONTROL PANEL	319	HLD	POHERS REG	025		1001-6	SA/SAT	35	F		F
1D11*PNL-021	RBSBVS MONITORING PANE	332	RH	NHC	063			HBT		F		B
1D11*PNL-022	RBSBVS MONITORING PANE	332	RH	NHC	063			HBT		F		B
1D11*PNL-025	CONT ROOM MONITOR PNL	332	RH	NHC	063			HBT		F		B
1D11*PNL-026	CONT ROOM MONITOR PNL	332	RH	NHC	044			HBT		F		B
1D11*PNL-027	CONT RH VENT MONIT PNL	332	RH	NHC	063			HBT		F		B
1D11*RH-027	CR ATH NOZZLE	332	RIN	NHC	063			HBT		F		B
1T48*RM-25	HYDRO RECOMM CONT CABI	344	DH	DELPHI IND	063		58239	HBT	18	F		F
1B21*TE-037	HM 5TH LINE TURB AREA	406	DC	ROSEMONT	082		127516	SAT	33	F		F
1H50*FT-043	HC-3 EVAP	406	DR	ROSEMONT	063		127516	SBT	50	F		F
1H50*FT-053	HC-4 EVAP	406	DR	ROSEMONT	063		127516	SBT	50	F		F
1H50*PDT019	RBSVS H50 DIF PR	406	DR	ROSEMONT	063		127516	SBT	50	F		F
1P41*FT-054	HC-3 COND WTR IN	406	DR	ROSEMONT	063		127516	SBT	50	F		F
1P41*FT-059	HC-4 COND WTR IN	406	DR	ROSEMONT	063		127516	SBT	50	F		F
1H50*LS 002	ISOL BYP V AOV68A,69A	407	DC	MAGNETROL	066		43235-1	HBT	17	F		F
1H50*LS 025	CH SYSTEM A MAKEUP	407	DC	MAGNETROL	066		43235-1	HBT	17	F		F

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 CONTROL BUILDING CATEGORY I EQUIPMENT
 BOP QUALIFICATION LEVEL (157 ITEMS)

RUN DATE 01/23/81
 RUN TIME 12.33.31
 PAGE 8

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE	SAFE SHDN	QUAL STATUS
1M44*AOV008	SANITARY WASTE VENT	423	APH	FISHER			CD76-82	SAT	23	P		F
1M50*AOV062	RBSVS & CRAC	423	APH	FISHER	071		CD76-82	SAT	23	P		F
1M50*AOV063	RBSVS & CRAC	423	APH	FISHER	071		CD76-82	SAT	23	P		F
1P41*AOV016	DIESEL HX E-13A OUTLET	423	APH	FISHER	025		CD76-82	SA	23	P		F
1P41*FE 018	OUTLET DIESEL HX E-13A	440	ABC	PERMUTIT	SC27		NH(B) 220-CZC	SA	33+	P		F
1P41*FE 054	COND WC-74 RETURN	440	ABC	PERMUTIT	SC69		NH(B) 220-CZC	SA	33+	P		F
1P41*FE 059	COND WC-9A INLET	440	ABC	PERMUTIT	SC72		NH(B) 220-CZC	SA	33+	P		F
1N11*NOV031	2ND STAGE REHEAT STM	88V	GRP	VELAN	SC51		SR-6262	SA/SAT	33+	P		F
1N11*NOV036	MISC STM FROM HOR ISO	88V	GRP	VELAN	SC51		SR-6262	SA/SAT	33+	P		F
1N11*NOV041	AUXILIARY STEAM SUPPLY	88V	GRP	VELAN	SC51		SR-6181	SA/SAT	33+	P		F

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MISCELLANEOUS CATEGORY EQUIPMENT
BOP QUALIFICATION LEVEL (64 ITEMS)

RUN DATE 01/23/81
RUN TIME 11.31.41
PAGE 1 of 4

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE MTNG	SAFE SHTDN	QUAL STATUS
1P41*P-003	SERVICE WATER PUMPS	057	CPL	BINGHAM-HILL	SW021		230629	SA	20	F		F
1P41*S-001	SERVICE WATER STRAINER	081	CPL	RP ADAMS CO	SW021		N07503	DA	17	F		F
1R43*SOV046	AFT STARTING AIR SPLY	089	GPE	CALCON	RH022		11001	SAT	33+	P		F
1R43*SOV047	FWD STARTING AIR SPLY	089	GPE	CALCON	RH022		11001	SAT	33+	P		F
1H50*TS 044	CHILLER WC-3 DISCH	106	RK	TRANE	RH060		NUC102	SAT	33+	F		D
1H50*TS 054	CHILLER WC-4 DISCH	106	RK	TRANE	RH060		NUC102	SAT	33+	F		D
1X61*MOV032	CONTROL RM ISOLATION	111	APH	FISHER	RH070		CD75-35	SA	20	P		F
1X61*SOV038	2T46-AOV038 CONTROL	111	APH	FISHER	RH073		CD75-35	SAT	6	P		F
1R43*TK-132	FUEL OIL STORAGE	114	HRH	BUFFALO TANK	YD020		NH(B)-22	SA	14	F		F
1R43*TK-133	FUEL OIL STORAGE	114	HRH	BUFFALO TANK	YD020		NH(B)-22	SA	14	F		F
1R43*TK-134	FUEL OIL STORAGE	114	HRH	BUFFALO TANK	YD020		NH(B)-22	SA	14	F		F
1R24*MCC1110	400 V MOTOR CONT CENTE	115	SIS	SQUARE D CO	SW021		108-1.01	HBT	4	F		F
1R24*MCC1120	400 V MOTOR CONT CENTE	115	SIS	SQUARE D CO	SW021		108-1.01	HBT	4	F		F
1P41*PNL-FX1	FD AUX RELAY CABINET	125	RLP	RELIANCE	SW023		99AX400708	DA/SAT	33+	F		D
1P41*RV 064	CNTRL RM & RBSVS WC-3	191	MRS	LONERGAN	RH076		502644	SA	33+	P		F
1P41*RV 065	CNTRL RM & RBSVS WC-4B	191	MRS	LONERGAN	RH076		502644	SA	33+	P		F
1H50*MOV031	CW RETURN	197	GRP	PRATT	RH071		D-0034-7	SA	33+	P		F
1P41*MOV031	SERV WATER DIS	197	GRP	PRATT	SW		D-0034-1	SA/SAT	33+	P		F
1P41*MOV032	SERV WATER HDR IV	197	GRP	PRATT	SW		D-0034-6	SA/SAT	33+	P		F
1P41*MOV035	T BELOW SUPPLY IV	197	GRP	PRATT	SW		D-0034-6	SA/SAT	33+	P		F
1X41*FN-068	SCRIBELL PUMPHSE SUP F	270	RK	BUFFALO FORGE	SW025		33A5	SA	20+	F		F

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1P41*TCV055	CNTRL RM & RBSVS WC-3	310		FISHER CONT.	RW075		2-24451	SA	25	P		F
1P41*TCV060V	CNTRL RM & RBSVS WC-4	310		FISHER CONT.	RW073		2-24451	SA	25	P		F
1X41*TCV021	ACU-14 COOLING COIL	310		FISHER CONT.	RW053		2-24451	SA	25	P		F
1X61*TCV021	ACU-7A COOLING UNIT	310		FISHER CONT.	RW071		2-24451	SA	25	P		F
1X41*FS 013	ACU-14 AIR FLOW	319	WD	POHERS REG	RW056		43812-1	HBT	25	F		F
1X41*FS 017	FN-29 AIR FLOW	319	WD	POHERS REG	RW053		43812-1	HBT	25	F		F
1X41*ME 021	ACU-14 COOLING CNTRL	319	WD	POHERS REG	RW049		43812-1	HBT	25	F		F
1X41*HIT021	ACU-14 COOLING CNTRL	319	WD	POHERS REG	RW049		43812-1	HBT	25	F		F
1X41*HOD031	FN-039 OUTDOOR AIR	319	WD	POHERS REG	RW069		58072	HBT	20	F		F
1X41*HOD032	FN-039 EXHAUST AIR	319	WD	POHERS REG	RW064		58072	HBT	20	F		F
1X41*HOD033	FN-28 RETURN AIR	319	WD	POHERS REG	RW038		58072	HBT	20	F		F
1X41*HOD035A	ACU-14A DISCHARGE AIR	319	WD	POHERS REG	RW053		58072	HBT	20	F		F
1X41*HOD039	FN-72 OUTDOOR AIR	319	WD	POHERS REG	RW037		58072	HBT	20	F		F
1X41*HOD040	FN-72 EXHAUST AIR	319	WD	POHERS REG	RW041		58072	HBT	20	F		F
1X41*HOD041	FN-72 RETURN AIR	319	WD	POHERS REG	RW035		58072	HBT	20	F		F
1X41*HOD059	RELAY & CHPTR RM TEMP	319	WD	POHERS REG	RW057		58072	HBT	20	F		F
1X41*PNLVC19	VENT CONTROL PANEL	319	WD	POHERS REG	SH025		510-N-5049	SA/SAT	12	F		F
1X41*PNLVC20	VENT CONTROL PANEL	319	WD	POHERS REG	SH025		510-N-5049	SA/SAT	12	F		F
1X41*TE 018	FN-72 DAMPER CONTROL	319	WD	POHERS REG	RW030		43812-1	HBT	25	F		F
1X41*TI5031	FN-39 CONTROL	319	WD	POHERS REG	RW068		43812-1	HBT	25	F		F
1X41*TT 006B	CHILLER EQUIP RM TEMP	319	WD	POHERS REG	RW068		43812-1	HBT	25	F		F

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SHOREHAM 1
 JOB NUMBER 11600
 LILCO DOCKET 50-322

M LIST
 3-SORT

STONE & WEBSTER ENGINEERING CORPORATION
 MISCELLANEOUS CATEGORY I EQUIPMENT
 BOP QUALIFICATION LEVEL (64 ITEMS)

RUN DATE 01/23/81
 RUN TIME 11.31.41
 PAGE 3

HARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLDG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE MTNG	SAFE SHTDN	QUAL STATUS
1X41*TT 009A	COMPUTER RM TEMP	319	WD	POWERS REG	RH049		43812-1	HBT	25	F		F
1X60*MOD031	FN-28 OUTDOOR AIR	319	WD	POWERS REG	RH038		58072	HBT	20	F		F
1X61*FS 012	ACU-7 AIR FLOW	319	WD	POWERS REG	RH078		43812-1	HBT	25	F		F
1X61*HS 038	1X61*AOV038 CONTROL	319	WD	POWERS REG	RH066		43812-1	HBT	25	F		F
1X61*MOD034	ACU-7 DISCHARGE AIR	319	WD	POWERS REG	RH077		58072	HBT	20	F		F
1D11*PNL-25	CNTRL RM MONITOR PNL	332	RN	NMC	RH063			HBT		F		B
1P41*PS 009B	SUCTION 1M50*P-139B	348	DC	ASCO	RH063			SAT		F		B
1P41*PS 009B	SUCTION 1M50*P-140B	348	DC	ASCO	RH063			SAT		F		B
1C61*PT-011	SVC WTR HDR PRESS	406	DC	ROSEMOUNT	SH		43082-1	SAT		F		D
1M50*TE 089	RBSVS CHILLED WTR SYS	406	DC	ROSEMOUNT	RH078		43082-1	SAT		F		D
1P41*FT 054	WC-3 COND H2O INLET	406	DC	ROSEMOUNT	RH063			SAT		F		D
1P41*FT 059B	WC-4B COND H2O INLET	406	DC	ROSEMOUNT	RH063			SAT		F		D
1P41*TE 055	CNTRL RM & RBSVS WC-3	406	DC	ROSEMOUNT	RH068		43082-1	SAT		F		D
1R43*LS 004	FUEL OIL AUX DAY TK	407	DC	MAGNETROL	RH038		43235-1	SAT		F		D
1R43*LS 007	FUEL OIL AUX DAY TK	407	DC	MAGNETROL	RH038		43235-1	SAT		F		D
1R43*P-201	FUEL OIL XFER PU	420	HRM	CRANE CO	Y0020		HE178	SA	13	F		F
1R43*P-202	FUEL OIL XFER PU	420	HRM	CRANE CO	Y0020		HE178	SA	13	F		F
1M50*AOV062	RBSVS & CRAC P-139	423	MRS	FISHER CONT.	RH071		CD76-82	SA	23	P		F
1M50*AOV063	RBSVS & CRAC P-140	423	MRS	FISHER CONT.	RH071		CD76-82	SA	23	P		F
1G41*FE-028	DE-004 OUTLET	440	ABC	PERMUTIT	RH034		200-CZC	SA	100	P		F
1P41*FE 054B	COND WC-3B RETURN	440	ABC	PERMUTIT	RH069		200-CZC	SA	100	P		F

CS =COLD SHUT DOWN
 DA =DYNAMIC ANALYSIS
 F =FLOOR MOUNTED
 HS =HOT STANDBY
 MBT=MULTI-FREQUENCY
 BIAXIAL TESTING
 MST=MULTI-FREQUENCY
 SINGLE AXIAL TESTING

P =PIPE MOUNTED
 PC =PRIMARY CONT.
 PL =PEDESTAL
 QP = QUALIFIED BY
 PIPING ANALYSIS
 SA =STATIC ANALYSIS
 SAT=SINGLE FREQUENCY
 SINGLE AXIAL TESTING

SBT=SINGLE FREQUENCY
 BIAXIAL TESTING
 SC =SECONDARY CONT.
 * =LOCATED ON CONT.
 HALL

QUALIFICATION MILESTONES
 A =REEVALUATION COMPLETE
 B =REQUEST FOR QUAL OR BID ISSUED
 C =S/W RECOMMENDATION TO LILCO
 D =QUAL DOC RECEIVED
 E =HARDWARE MODIFICATION REQ'D
 F =QUAL DOC APVD & FILED
 G =COPIES OF DOC TO DISTRIBUTION

SHOREHAM 1
JOB NUMBER 11600
LILCO DOCKET 50-322

M LIST
3-SORT

STONE & WEBSTER ENGINEERING CORPORATION
MISCELLANEOUS CATEGORY 1 EQUIPMENT
BOP QUALIFICATION LEVEL (64 ITEMS)

RUN DATE 01/23/81
RUN TIME 11.31.41
PAGE 4

MARK NUMBER	EQUIPMENT DESCRIPTION	SPEC NO.	PROJ RESP	VENDOR	BLOG ELEV	AVAIL INSP	QUAL REPT	QUAL METH	FREQ	TYPE MTNG	SAFE SHTDN	QUAL STATUS
1P41*FE 059B	COND WC-4B INLET	440	ABC	PERMUTIT	RW072		220-CZC	SA	100	P		F

CS =COLD SHUT DOWN
DA =DYNAMIC ANALYSIS
F =FLOOR MOUNTED
HS =HOT STANDBY
MFT=MULTI-FREQUENCY
BIAXIAL TESTING
MST=MULTI-FREQUENCY
SINGLE AXIAL TESTING

P =PIPE MOUNTED
PC =PRIMARY CONT.
PL =PEDESTAL
QP = QUALIFIED BY
PIPING ANALYSIS
SA =STATIC ANALYSIS
SAT=SINGLE FREQUENCY
SINGLE AXIAL TESTING

SBT=SINGLE FREQUENCY
BIAXIAL TESTING
SC =SECONDARY CONT.
* =LOCATED ON CONT.
WALL

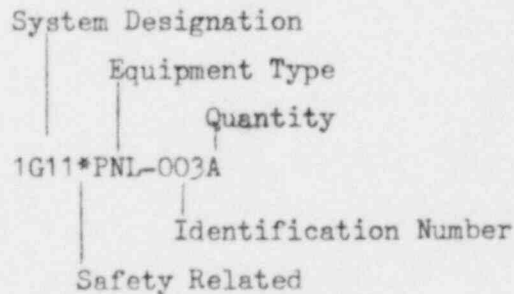
QUALIFICATION MILESTONES
A =REEVALUATION COMPLETE
B =REQUEST FOR QUAL OR BID ISSUED
C =S/W RECOMMENDATION TO LILCO
D =QUAL DOC RECEIVED
E =HARDWARE MODIFICATION REQ'D
F =QUAL DOC APVD & FILED
G =COPIES OF DOC TO DISTRIBUTION

S&W EQUIPMENT MARK NO.'S

The S&W mark number configuration consists of:

1. System Designation - (one letter and two numbers) per SNPS PES System list (Attachment No. 1), followed by an asterisk if the component is "safety related" or a dash if it is not "safety related".
2. Equipment Type - (one, two or three letters) as per SNPS - PES "Project Equipment Codes" - Attachment No. 2, followed by a dash.
3. Identification Number - A number is assigned to each type of equipment and an alpha will follow if there is a quantity of two (2) or more.

The figure below describes how a S&W Mark Number is constructed



STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT SYSTEM CODES

JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO

JOB-NUMBER 1160002

10/23/80 PAGE 1

REPORT CSTD-04
 ISSUE NUMBER 002
 LAST ISSUE DATE 03/07/80

CODE	PLANT TYPE	DESCRIPTION	LAST UPDATE
A0A		DUNN CODE	04/30/80
A12		GENERAL ELECTRIC INTERNAL DOCUMENTS	03/07/80
A31		DESIGN CRITERIA	03/07/80
A91		GENERAL ELECTRIC REPORTS AND DATA SHEETS	03/07/80
B11		REACTOR ASSEMBLY	03/07/80
B01		NUCLEAR BOILER	03/07/80
B31		REACTOR RECIRCULATION	03/07/80
C11		CONTROL ROD DRIVE HYDRAULIC CONTROL	03/07/80
C02		FEEDWATER CONTROL (TURBINE DRIVE)	03/07/80
C41		STANDBY LIQUID CONTROL	03/07/80
C01		NEUTRON MONITORING	03/07/80
C41		REACTOR PLANT REMOTE SHUTDOWN	03/07/80
C71		REACTOR PROTECTION	03/07/80
C90		COMPUTER	03/07/80
D11		PROCESS RADIATION MONITORING	03/07/80
D01		AREA RADIATION MONITORING	03/07/80
E11		RESIDUAL HEAT REMOVAL	03/07/80
E01		CORE SPRAY	03/07/80
E02		MSIV LEAKAGE CONTROL SYSTEM	03/07/80
C41		HIGH PRESSURE COOLANT INJECTION	03/07/80
E01		REACTOR CORE ISOLATION COOLING	03/07/80
F11		FUEL SERVICING	03/07/80
F12		SERVICING AIDS	03/07/80

REPORT CSTD-04
 ISSUE NUMBER 002
 LAST ISSUE DATE 03/07/80

CODE	PLANT TYPE	DESCRIPTION	LAST UPDATE
F13		REACTOR VESSEL SERVICING	03/07/80
F14		IN-VESSEL SERVICING	03/07/80
F15		REFUELING	03/07/80
F16		STORAGE	03/07/80
F17		UNDER REACTOR VESSEL SERVICING	03/07/80
F01		START-UP	03/07/80
G11		RADWASTE	03/07/80
G13		REACTOR WATER CLEANUP	03/07/80
G41		FUEL POOL COOLING & CLEANUP	03/07/80
H11		MAIN CONTROL ROOM PANELS	03/07/80
H21		LOCAL PANELS & RACKS	03/07/80
H31		AUXILIARY CONTROL PANELS	03/07/80
J11		FUEL & RELOADS	03/07/80
H71		TEMPORARY CONSTRUCTION	03/07/80
H41		HEATING & AUXILIARY BOILER	03/07/80
H42		DOMESTIC WATER	03/07/80
H43		FIRE PROTECTION	03/07/80
H44		SANITARY SEWAGE	03/07/80
H20		RRSVS & CONTROL ROOM A-C CHILLED WATER	03/07/80
H50		MAIN CHILLED WATER	03/07/80
H51		BUILDING SERVICE MISCELLANEOUS	03/07/80
H51		BATH SEWAGE	03/07/80
H51		CONDENSATE & FEEDWATER	03/07/80

STONE AND WEBSTER ENGINEERING CORPORATION - EASTON
 PROJECT SYSTEM CODES

JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO

JOB-NUMBER 1160002

REPORT CSTD-04
 ISSUE NUMBER 002
 LAST ISSUE DATE 03/07/80

10/23/80 PAGE 3

CODE	PLANT TYPE	DESCRIPTION	LAST UPDATE
N22		HEATER VENT & RELIEF	03/07/80
N23		MISCELLANEOUS DRAINS	03/07/80
N24		SEALING WATER	03/07/80
N25		REACTOR FEED PUMP TURBINE SUPERVISORY INSTRUMENTS	03/07/80
N31		TURBINE	03/07/80
N32		TURBINE CONTROL	03/07/80
N33		SEAL & RADWASTE STEAM	03/07/80
N34		LUBE OIL	03/07/80
N35		MOISTURE SEPARATOR, REHEATER, & HEATER DRAINS	03/07/80
N36		EXTRACTION STEAM	03/07/80
N37		MAIN TURBINE SUPERVISORY INSTRUMENTS	03/07/80
N38		REHEAT	03/07/80
N39		TURBINE GEAR	03/07/80
N41		GENERATOR	03/07/80
N42		HYDROGEN SEAL	03/07/80
N43		GENERATOR STATOR COOLING	03/07/80
N44		VACUUM PRIMING & AIR REMOVAL	03/07/80
N45		GENERATOR HYDROGEN & CO2 PURGE	03/07/80
51		EXCITATION	03/07/80
152		CONDENSATE DEMINERALIZER	03/07/80
N62		RADWASTE OFFGAS TREATMENT	03/07/80
N71		CIRCULATING WATER	03/07/80
P11		CONDENSATE TRANSFER & STORAGE	03/07/80

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT SYSTEM CODES

JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO

JOB-NUMBER 1160002

REPORT CST0-04
 ISSUE NUMBER 002
 LAST ISSUE DATE 03/07/80

10/23/80 PAGE 4

CODE	PLANT TYPE	DESCRIPTION	LAST UPDATE
P01		DEMINERALIZED & MAKEUP WATER	03/07/80
P33		SAMPLE	03/07/80
P41		SERVICE WATER	03/07/80
P42		REACTOR BUILDING CLOSED LOOP COOLING WATER	03/07/80
P43		TURBINE BUILDING CLOSED LOOP COOLING WATER	03/07/80
P50		COMPRESSED AIR	03/07/80
P63		RADIASTE - SOLIDS HANDLING	03/07/80
P64		METEOROLOGICAL MONITORING	03/07/80
P65		VIBRATION MONITORING	03/07/80
P71		LOW CONDUCTIVITY DRAINS	03/07/80
P11		STATION TRANSFORMERS	03/07/80
P13		ISOLATED PHASE BUS	03/07/80
P21		NONSEGREGATED BUSES	03/07/80
P22		METAL CLAD SWITCHGEAR	03/07/80
P23		UNIT SUBSTATIONS	03/07/80
P24		MOTOR CONTROL CENTERS	03/07/80
P31		POWER CABLE & WIRE	03/07/80
P32		CONTROL CABLE & WIRE	03/07/80
P33		CONDUITS & TRAYS	03/07/80
P34		AUXILIARY GROUNDING	03/07/80
P35		A-C CONTROL AND INSTRUMENT POWER	03/07/80
P36		A-C UNINTERRUPTIBLE (VITAL) POWER	03/07/80
P41		D-C INSTRUMENT POWER (48 V D-C)	03/07/80

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
PROJECT SYSTEM CODES

JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO

JOB-NUMBER 1160002

10/23/80 PAGE 5

REPORT CSTD-04
ISSUE NUMBER 002
LAST ISSUE DAY 03/07/80

CODE	PLANT TYPE	DESCRIPTION	LAST UPDATE
P42		BATTERY POWER (125 V D-C)	03/07/80
P43		DIESEL EMERGENCY POWER	03/07/80
P51		COMMUNICATION - PAGE/PARTY	03/07/80
P52		COMMUNICATION - TELEPHONE (LEASED LINE)	03/07/80
P53		COMMUNICATION - SOUND POWERED TELEPHONE	03/07/80
P54		COMMUNICATION - RADIO	03/07/80
P55		AUXILIARY TEST PANEL SYSTEM	03/07/80
P56		AUX TEST SYSTEM	04/30/80
P61		UNIT PROTECTION AND METERING	03/07/80
P62		STATION PROTECTION AND METERING	03/07/80
P71		FIRE DETECTION AND STATION SECURITY SYSTEM	03/07/80
P81		HEAT TRACING	03/07/80
S11		MAIN FEEDER TRANSFORMERS	03/07/80
S22		138 KV MAIN TRANSFORMER BREAKERS	03/07/80
S23		138 KV SWITCHYARD	03/07/80
S24		69 KV SWITCHYARD	03/07/80
T01		SUBSTRUCTURE	03/07/80
T02		SUPERSTRUCTURE	03/07/80
T03		REACTOR CONTAINMENT	03/07/80
T04		PRIM,CONT,INERT,SYS	03/26/80
T05		CHEMICAL CLEANING	03/07/80
T08		FINISHING	03/07/80
T31		CRANES, HOISTS, & ELEVATORS (REACTOR BLDG)	03/26/80

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT SYSTEM CODES

JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO

JOB-NUMBER 1160002

10/23/80 PAGE 6

REPORT CSTD-04
 ISSUE NUMBER 002
 LAST ISSUE DATE 03/07/80

CODE	PLANT TYPE	DESCRIPTION	LAST UPDATE
T41		VENTILATION SYSTEM	03/07/80
T45		DRAINS & VENTS	03/07/80
T46		STANDBY VENTILATION SYSTEM	03/07/80
T47		PRIMARY CONTAINMENT AIR COOLING SYSTEM	03/07/80
T48		PRIMARY CONTAINMENT ATMOSPHERIC CONTROL SYSTEM	03/07/80
T49		PRIMARY CONTAINMENT INTEGRATED LEAK RATE TEST	03/07/80
T51		LIGHTING	03/07/80
U01		SUBSTRUCTURE	03/07/80
U02		SUPERSTRUCTURE	03/07/80
U04		TURBINE PEDESTAL	03/07/80
U08		FINISHING	03/07/80
U11		CRANES, HOISTS, & ELEVATORS (TURBINE BLDG)	03/26/80
U41		TURBINE BUILDING VENTILATION SYSTEM	03/07/80
U51		LIGHTING	03/07/80
U61		TURBINE BUILDING DECONTAMINATION SYSTEM	03/07/80
V21		SUBSTRUCTURE	03/07/80
V22		SUPERSTRUCTURE	03/07/80
V20		FINISHING	03/07/80
V31		CRANES, HOISTS, & ELEVATORS (RADWASTE BLDG)	03/26/80
V41		RADWASTE BUILDING VENTILATION SYSTEM	03/07/80
V51		LIGHTING	03/07/80
N12		CANALS	03/07/80
N21		SUBSTRUCTURE	03/07/80

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON

PROJECT SYSTEM CODES

JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO

JOB-NUMBER 1160002

REPORT CSTD-04
ISSUE NUMBER 002
LAST ISSUE DATE 03/07/80

10/23/80 PAGE 7

CODE	PLANT TYPE	DESCRIPTION	LAST UPDATE
H22		SUPERSTRUCTURE	03/07/80
H23		CHLORINATION SYSTEM	03/07/80
W08		FINISHING	03/07/80
X34		WAREHOUSE	03/07/80
X35		GAS STORAGE	03/07/80
X36		FIRE PUMP HOUSE & MISCELLANEOUS BUILDINGS	03/07/80
X37		SECURITY BUILDING	03/07/80
X38		SERVICE BUILDING	03/07/80
X39		AUXILIARY BOILER & H.G. BUILDING	03/07/80
X40		CONTROL ROOM BUILDING	03/07/80
X41		MISCELLANEOUS HVAC	03/07/80
X46		OFFICE BUILDING HVAC SYSTEM	03/07/80
X60		DIESEL GENERATOR VENTILATION SYSTEM	03/07/80
X61		CONTROL ROOM AIR-CONDITIONING SYSTEM	03/07/80
Y11		EXCAVATION	03/07/80
Y12		GRADING & LANDSCAPING	03/07/80
Y23		ROADS & WALKS	03/07/80
Y25		BARGE DOCK	03/07/80
Y27		FENCING	03/07/80
Y41		YARD WORK STRUCTURES	03/07/80
Y46		CATHODIC PROTECTION	03/07/80
Y51		LIGHTING	03/07/80
Z11		MACHINE SHOP	03/26/80

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
PROJECT SYSTEM CODES

JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO

JOB-NUMBER 1160002

10/23/80 PAGE 8

REPORT CSTD-04
ISSUE NUMBER 002
LAST ISSUE DATE 03/07/80

CODE	PLANT TYPE	DESCRIPTION	LAST UPDATE
291		INSTRUMENTATION & CONTROL SPARES	03/07/80
292		EXCESS FLOW CHECK VALVES FOR INSTRUMENT LINES	03/07/80
293		POST-ACCIDENT TRACKING	03/07/80
294		SEISMIC MONITORING SYSTEM	03/07/80
295		SMS - START-UP TRANSIENT MONITORING SYSTEM	03/07/80
296		POST ACCIDENT SAMPLING SYSTEM	10/07/80

TOTAL SYSTEM CODES = 167

STONE AND WEBSTER ENGINEERING CORPORATION - BOS
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 1

JOB-NAME SURENAH - UNIT 1
 REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
A	AGITATOR	PHR	DE EA PA
A/D	ANA LOG DIGITAL CONVERTER	INST	CA
AA	DUMBY		
AB	ALARM BELL	ELEC	DE
ACB	AIR CIRCUIT BREAKER	ELEC	DE
ACC	AIR COOLED CONDENSER	PHR	PA
ACH	AIR CHAMBER	PHR	PA
ACT	ACTUATOR	PHR	PA
ACU	AIR CONDITIONER UNIT	PHR	DE EA PA
AD	AIR DRYER	PHR	DE EA PA
ADS	ABSORBER	PHR	PA
AE	AIR ELIMINATOR	PHR	PA
AEA	AUTOMATIC ELEC ALT	ELEC	DE EA
AF	AIR FILTER	PHR	PA
AL	ALARM LTS	ELEC	DE
ALM	ALARM	ELEC	DE
AH	AIR MONITOR	INST	CA DE
AO	AIR OPERATOR	INST	CA
AOD	AIR OPERATED DAMPER	INST	CA DE
AOV	AIR OPERATED VALVE	INST	CA DE
AP	PRE-AIR PHL	ELEC	DE
APH	AIR PREHEATER	PHR	PA
APRH	AVG POWER RANGE MONT	ELEC	DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM
 JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO
 REPORT CSTD-09

PAGE 2
 JOB-NUMBER 1160002
 COMPUTER DATE = 01/06/81

EQUIPMLNT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
ARV	AIR RELEASE VALVE	PHR	PA
ASS	AUTOMATIC SELECTOR SWITCH	INST	CA
ATP	AUX TEST PNL	ELEC	DE
B	BOILER	PKR	DE PA
B/A	BUFFER AMPLIFIER	INST	CA
BA	BATTERY	ELEC	DE EA
BC	BATTERY CHARGER	ELEC	DE EA
BCH	WORKBENCH/SINK	PHR	PA
BG	BREAK GLASS	ELEC	DE
BIS	SWITCHGEAR BREAKER TEST SET	ELEC	DE
BKR	BREAKER	ELEC	DE
BLD	BLEACHING DAMPER	PHR	DE
BLO	BLOWER	PHR	DE EA PA
BPD	BUSHING POTENTIAL DEVICE	ELEC	DE
BRK	BREAKER		DE
BS	BASE STATION	ELEC	DE
BTS	BREAKER TEST STATION	ELEC	DE
C	COMPRESSOR	PHR	DE EA PA
C/C	CONDENSING POT	INST	CA
C/D	CARRIER DEMODULATOR	INST	CA
C/F	SIGNAL FAILURE ALARM	INST	CA
C/H	CARRIER MODULATOR	INST	CA
CAB	HYDROGEN RECOMBINER CAB	ELEC	DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON

PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 3

JOB-NAME SHOREHAM - UNIT 1
REPORT CSTD-00

CLIENT LILCO

JOB-NUMBER 1160002

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
CC	CONDUCTIVITY CONTROLLER	INST	CA
CCV	CONDUCTIVITY CONTROL VALVE	INST	CA
CE	CONDUCTIVITY ELEMENT	INST	CA DE
CI	CONDUCTIVITY INDICATOR	INST	CA
CIC	CONDUCTIVITY INDICATING CONTROLLER	INST	CA
CIS	CONDUCTIVITY INDICATING SWITCH	INST	CA DE
CIT	CONDUCTIVITY INDICATING TRANSMITTER	INST	CA DE
CIV	COMBINED INTERMEDIATE VALVE	PWR	PA
CLC	COOLING COIL	PWR	DE PA
CLR	CHLORINE RECORDER	INST	CA
CLZ	CHLORINE ANALYZER	INST	CA DE
CH	CONDUCTIVITY MONITOR	INST	CA
CHV	CONVEYOR FEEDER	PWR	DE EA PA
COIL	CABLE COILED	ELEC	DE
CONT	CONTROLLER	ELEC	DE EA
CPD	COUPLING TYPE POTENTIAL DEVICE	ELEC	DE
CPG	COUPLING	PWR	PA
CR	CONDUCTIVITY RECORDER	INST	CA DE
CRH	CRANE OR HOIST	PWR	DE EA PA
CRS	CONDUCTIVITY RECORDER SWITCH	INST	CA
CS	CONDUCTIVITY SWITCH	INST	CA DE
CSK	CASK	PWR	PA
CST	STARTER FOR DOOR	ELEC	DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM
 JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO
 REPORT CSTD-09

PAGE 4
 JOB-NUMBER 1160002
 COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
CT	*CONDUCTIVITY OR CURRENT TRANSFORMER	INST	CA DE
CTR	CURRENT TRANSFORMER	ELEC	DE
CV	CONTROL VALVE	INST	CA DE
CYL	CYLINDER	PWR	PA
D	CONDENSING CHAMBERS	PWR	PA
DA	*DEAERATOR OR AIRDUCT DETECTOR	PWR	DE PA
DCU	DOCR CONTROL UNIT	ELEC	DE
DE	DEMINERALIZER, DEIONIZER	PWR	PA
DEM	DEHINDER	PWR	PA
DH	DESUPERHEATER	PWR	PA
DI	IONIZATION FIRE DETECTOR	ELEC	DE
DISC	-DISCONNECT SWITCH	ELEC	DE
DHP	-DAMPER	PWR	DE PA
DHPF	FIRE DAMPER	PWR	PA
DHPR	-DAMPER	PWR	PA
DD	DOOR	STR	DE PA
DR	DENSITY RECORDER	INST	CA
DRY	DRYER	PWR	DE EA PA
DS	-DISCONNECT SWITCH	ELEC	DE
DSC	DIAPHRAM SEAL AND CAPILLARY	INST	CA
DT	DENSITY TRANSMITTER	INST	CA DE
DTC	THERMAL FIRE DETECTORS	ELEC	DE
E	HEAT EXCHANGER	PWR	DE PA

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

JOB-NAME SHOREHAM - UNIT 1
 REPORT CSTD-09

CLIENT LILCO

PAGE 5

JOB-NUMBER 1160002

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
E/E	VOLTAGE TO VOLTAGE CONVERTER - REPEATER	INST	CA
E/H	VOLTAGE TO HYDRAULIC CONVERTER	INST	CA
E/I	VOLTAGE TO CURRENT CONVERTER	INST	CA DE
E/P	VOLTAGE TO PNEUMATIC CONVERTER	INST	CA DE
E/S	ELECTRIC POWER SUPPLY	INST	CA DE
E/Y	AUCTIONEER	INST	CA
ECD	ELECTRIC CONTROL DRIVE	ELEC	DE
EFR	EXCESS FLOW RESTRICTOR	INST	CA
EFV	EXCESS FLOW CHECK VALVE	INST	CA
EHG	ELECTRO-HYDRAULIC CONTROL	INST	CA DE
ENH	ELECTRICAL HAND HOLES	ELEC	DE
EI	VOLTAGE INDICATOR	INST	CA
EJ	EJECTORS, EDUCTORS	PHR	PA
EL	ELEVATOR	STR	DE EA PA
ELA	LAUNDRY EQUIPMENT	PHR	PA
EN	ELAPSED TIME TOTALIZER	INST	CA
ENC	ENCLOSURE	ELEC	DE
END	CABLE CUT	ELEC	DE
ENG	ENGINE	PHR	PA
EOL	END OF LINE	ELEC	DE
ER	VOLTAGE RECORDER	INST	CA
ET	VOLTAGE TRANSMITTER	INST	CA
EV	EXPLOSIVE VALVE	INST	CA DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO
 REPORT CSTD-09

PAGE 6
 JOB-NUMBER 1160002
 COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
EXJ	EXPANSION JOINT	PHR	PA
FAN	-FAN (SEE FN)	PHR	DE EA PA
FB	STEAM PACKING AUX BOILERS	PHR	DE PA
FC	FLOW CONTROLLER	INST	CA DE
FCD	FLOW CONTROL DAMPER	INST	CA DE
FCE (DELETED)	FIRE EXTINGUISHER CABINET	PHR	PA
FCV	FLOW CONTROL VALVE	INST	CA DE
FDC (DELETED)	FIRE DEPARTMENT CONNECTION	PHR	PA
FDFI (DELETED)	FIRE DETECTOR, FLAME, INFRARED	INST	CA
FDFU (DELETED)	FIRE DETECTOR, FLAME, ULTRAVIOLET	INST	CA
FDI	FLOW DIFFERENTIAL INDICATOR	INST	CA DE
FDS	FLOW DIFFERENTIAL SWITCH	INST	CA DE
FDSI (DELETED)	FIRE DETECTOR, SMOKE, IONIZATION	INST	CA
FDSP (DELETED)	FIRE DETECTOR, SMOKE, PHOTOELECTRIC	INST	CA
FDTC (DELETED)	FIRE DETECTOR, THERMAL, CONTINUOUS	INST	CA
FDTR (DELETED)	FIRE DETECTOR, THERMAL, RATE COMPENSATED	INST	CA
FE	FLOW ELEMENT	INST	CA DE
FG	FLOW CLASS	INST	CA
FHC (DELETED)	FIRE HOSE CABINET	PHR	PA
FHRA (DELETED)	FIRE HOSE RACK (FOLDED HOUSE)	PHR	PA
FHRC (DELETED)	FIRE HOSE REEL - CONTINUOUS FLOW	PHR	PA
FHRR (DELETED)	FIRE HOSE REEL - RYERSON TYPE	PHR	PA
FI	FLOW INDICATOR	INST	CA DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 7

JOB-NAME SHOREHAM - UNIT 1
 REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002
 COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
FIC	FLOW INDICATING CONTROL	INST	CA DE
FIS	FLOW INDICATING SWITCH	INST	CA DE
FIT	FLOW INDICATING TRANSMITTER	INST	CA DE
FK	FLOW SQUARE ROOT EXTRACTOR	INST	CA DE
FL	FILTER	PHR	DE PA
FLT	FILTER TRAIN	PHR	DE PA
FN	*FLOW TOTALIZER OR FAN (PHR)	INST	CA DE PA
FNH	FLOW TOTALIZING METER	INST	CA
FNH	FLOW TOTALIZING RECORDER	INST	CA
FNT	FLOW TOTALIZING TRANSMITTER	INST	CA DE
FNU	-FLOW TOTALIZER UNIT	INST	CA
FPVA (DELETED)	FIRE PROTECTION VALVE, - ALARM CHECK	PHR	PA
FPVD (DELETED)	FIRE PROTECTION VALVE, - DRY PIPE	PHR	PA
FPVM (DELETED)	FIRE PROTECTION VALVE, - DELUGE, MAN RESET	PHR	PA
FPVR (DELETED)	FIRE PROTECTION VALVE, - DELUGE, RECYCLE	PHR	PA
FQ	FLOW INTEGRATOR	INST	CA
FR	FLOW RECORDER	INST	CA
FRC	FLOW RECORDER CONTROL	INST	CA
FS	FLOW SWITCH	INST	CA DE
FT	FLOW TRANSMITTER	INST	CA DE
FUN	FUNNEL, FLUSH FUNNEL	PHR	PA
G	GENERATOR	ELEC	DE PL
GD	GEAR DRIVE, INCREASE/DECREASE	PHR	PA

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 8

JOB-NAME SHOREHAM - UNIT 1
REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002
COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
GN	GENERATOR NEUTRAL EQUIPMENT	ELEC	DE
GZ	GAS ANALYZER	INST	CA
H	HEATER	PHR	DE EA PA
HC	*HAND CONTROL OR HEATING COIL (PHR)	INST	CA DE PA
HCC	HEATING COIL, REHEAT COIL	PHR	PA
HCU	HYDRAULIC CONTROL UNIT	PHR	DE PA
HCV	HAND CONTROL VALVE	INST	CA DE
HD	HOOD	PHR	PA
HDS	DISCONNECT SWITCH BUS	ELEC	DE
HFU	HEATER FAN UNIT	PHR	DE PA
HIC	HAND INDICATING CONTROLLER	INST	CA
HO	HYDRAULIC OPERATOR	INST	CA
HOV	HYDRAULIC OPERATED VALVE	INST	CA
HS	HAND SWITCH	INST	CA DE
HSG	HOUSING	PHR	PA
HSS	HAND SELECTOR SWITCH	INST	CA DE
HST	HAND SET	ELEC	DE
HSV	HAND SELECTOR VALVE	INST	CA
HT	HEAT DETECTOR	ELEC	DE
HV	HAND VALVE	INST	CA DE
HVV	HEATING AND VENTILATION UNIT	PHR	PA
HZR	FREQUENCY RECORDER	INST	CA
HZT	FREQUENCY TRANSMITTER	INST	CA DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON

PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 9

JOB-NAME SNOGHEAM - UNIT 1 CLIENT LILCO

JOB-NUMBER 1160002

REPORT CSTD-09

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
H2E	HYDROGEN ELEMENT	INST	CA DE
H2Y	HYDROGEN INDICATOR	INST	CA DE
H2R	HYDROGEN RECORDER	INST	CA
H2T	HYDROGEN TRANSMITTER	INST	CA DE
H2Z	HYDROGEN ANALYZER	INST	CA
I/E	CURRENT TO VOLTAGE CONVERTER	INST	CA
I/H	CURRENT TO HYDRAULIC CONVERTER	INST	CA
I/I	CURRENT REPEATER	INST	CA
I/P	CURRENT TO PNEUMATIC CONVERTER	INST	CA DE
I/S	INVERTER SUPPLY	INST	CA
IA	ISOLATION AMPLIFIER	INST	CA
IC	CURRENT CONTROLLER	INST	CA
II	CURRENT INDICATOR	INST	CA
IND	INDUCTOR	ELEC	DE
INT	INTERLOCK	ELEC	DE
INV	INVERTER	ELEC	DE EA
IPB	ISOLATED PHASE BUS	ELEC	DE
IR	CURRENT RECORDER	INST	CA
IRM	INTERMEDIATE RANGE MONITORING	PWR	DE PA
JB	*JUNCTION BOX OR SERVICE BOX	ELEC	DE
JBSE	VIB- SENSOR JB	ELEC	DE
JBPI	JUNCTION BOX, PENETRATION INSIDE	ELEC	DE
JBPO	JUNCTION BOX, PENETRATION OUTSIDE	ELEC	DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 10

JOB-NAME SHOREHAM - UNIT 1
 REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002
 COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
JCR	JIB CRANE RECP	ELEC	DE
JK	HEAD JACK	ELEC	DE
KS	KEY SWITCH	ELEC	DE
L/U	LOGIC UNLT	INST	CA
LB	LINE BALANCE ASSEMBLY	ELEC	DE
LC	LEVEL CONTROL	INST	CA
LCV	LEVEL CONTROL VALVE	INST	CA DE
LDI	LEVEL DIFFERENTIAL INDICATOR	INST	CA DE
LDS	LEVEL DIFFERENTIAL SWITCH	INST	CA DE
LDT	LEVEL DIFFERENTIAL TRANSMITTER	INST	CA DE
LE	LEVEL ELEMENT	INST	CA DE
LG	LEVEL CLASS	INST	CA
LGT	LIGHTS	ELEC	
LI	LEVEL INDICATOR	INST	CA DE
LIC	LEVEL INDICATING CONTROLLER	INST	CA DE
LIS	LEVEL INDICATING SWITCH	INST	CA DE
LIT	LEVEL INDICATING TRANSMITTER	INST	CA
LPRM	LOW POWER RANGE MONITOR	ELEC	DE
LR	LEVEL RECORDER	INST	CA
LRS	LEVEL RECORDING SWITCH	INST	CA
LS	LEVEL SWITCH	INST	CA DE
LT	LEVEL TRANSMITTER	INST	CA DE
LTG	YARD LIGHT	ELEC	DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

JOB-NAME SHOREHAM - UNIT 1
REPORT CSTD-09

CLIENT LILCO

PAGE 11

JOB-NUMBER 1160002

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
LTS	LEVEL TRANSMITTING SWITCH	INST	CA DE
M	MIXER OR MOTOR MODULES (ELEC)	PWR	DE EA PA
M/U	MANUAL UNIT	INST	CA
MC	MOISTURE CONTROLLER	INST	CA
MCB	MAIN CONTROL BOARD	ELEC	DE PL
MCC	MOTOR CONTROL CENTER	ELEC	DE PL
MDS	MOTOR OPERATED SWITCH DISCONNECT	ELEC	DE
ME	MOISTURE ELEMENT	INST	CA DE
MFD	MAINFOLD	PWR	PA
MG	MOTOR GENERATOR	ELEC	DE EA PL
MH	MAN HOLE	ELEC	DE
MI	MOISTURE INDICATOR	INST	CA
MIC	MOISTURE INDICATING CONTROLLER	INST	CA
MIT	MOISTURE INDICATING TRANSMITTER	INST	CA DE
MKS	MASTER CONTROL KEY SWITCH	ELEC	
MO	MOTOR OPERATOR	INST	CA
MDD	MOTOR OPERATED DAMPER	INST	CA DE
MOT	MOTOR	ELEC	DE EA PL
MOV	MOTOR OPERATED VALVE	INST	CA DE
MR	MOISTURE RECORDER	INST	CA
MS	MAGNETIC SWITCH	ELEC	DE
MCH	MOTOR SPACE HEATER	ELEC	DE EA PL
MST	MAGNETIC STARTER	ELEC	DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 12

JOB-NAME SHOREHAM - UNIT 1
 REPORT CSTD-89

CLIENT LILCO

JOB-NUMBER 1160002
 COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
MSV	MAIN STEAM STOP VALVE	PWR	PA
MSH	MOISTURE SWITCH	INST	CA
HT	MOISTURE TRANSMITTER OR THRUST WEAR HTR	INST	CA DE
HTG	MULTITONE GENERATOR OSCILLATOR	ELEC	DE
HTR	MOTORIZED TRASH RACK	ELEC	DE
HAI	SODIUM INDICATOR	INST	CA
HAZ	SODIUM ANALYZER	INST	CA
INE	ECCENTRICITY ELEMENT	INST	CA
INI	ECCENTRICITY INDICATOR	INST	CA
INR	ECCENTRICITY RECORDER	INST	CA
INS	ECCENTRICITY SWITCH	INST	CA DE
INT	ECCENTRICITY TRANSMITTER	INST	CA DE
NPB	NON-DEGRADED PHASE BUS	ELEC	DE
NRV	NON RETURN VALVE	INST	CA DE
NSA	NEUTRON SOURCE CRITICAL	ELEC	DE
NV	GRAVITY VENTILATOR	PWR	PA
NXE	EXPANSION ELEMENT	INST	CA
NXI	EXPANSION INDICATOR	INST	CA DE
NXR	EXPANSION RECORDER	INST	CA
NXS	EXPANSION SWITCH	INST	CA DE
NXT	EXPANSION TRANSMITTER	INST	CA DE
OCB	POWER CIRCUIT BREAKER	ELEC	DE
OUT	IN SERVICE INSPECTION OUTLET	ELEC	DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 13

JOB-NAME SHOREHAM - UNIT 1
REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
02E	OXYGEN ELEMENT	INST	CA
02R	OXYGEN RECORDER	INST	CA
02T	OXYGEN TRANSMITTER	INST	CA
02Z	OXYGEN ANALYZER	INST	CA
P	PUMP	PWR	DE EA PA
P/C	POTENTIOMETRIC TRANSDUCER CONDITIONING MODULE	INST	CA
P/D	PROPORTIONAL DELAY UNIT	INST	CA
P/E	PNEUMATIC-ELECTRICAL CONVERTER	INST	CA DE
P/I	PNEUMATIC TO CURRENT CONVERTER	INST	CA DE
P/U	PNEUMATIC UNIT	INST	CA
PB	-PUSHBUTTON	ELEC	DE
PBH	PIGGYBACK MOTOR	ELEC	DE EA
PC	PRESSURE CONTROLLER	INST	CA
PCB	PALYROID CONTROL BOX	ELEC	DE
PCD	PRESSURE CONTROL DAMPER	INST	CA
PCV	PRESSURE CONTROL VALVE	INST	CA DE
PD	PHOTOELECTRIC DETECTOR	ELEC	DE
PDC	PRESSURE DIFFERENTIAL CONTROLLER	INST	CA DE
PDI	PRESSURE DIFFERENTIAL INDICATOR	INST	CA DE
PDIC	PRESSURE DIFFERENTIAL INDICATOR CONTROLLER	INST	CA
PDIS	PRESSURE DIFFERENTIAL INDICATOR SWITCH	INST	CA
PDR	PRESSURE DIFFERENTIAL RECORDER	INST	CA
PDS	PRESSURE DIFFERENTIAL SWITCH	INST	CA DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 14

JOB-NAME SHOREHAM - UNIT 1
 REPORT CSTD-69

CLIENT LILCO

JOB-NUMBER 1160002

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
PDT	PRESSURE DIFFERENTIAL TRANSMITTER	INST	CA DE
PDV	PRESSURE DIFFERENTIAL VALVE	INST	CA
PEC	PHOTO ELEC CELL	ELEC	DE
PHE	PH ELEMENT	INST	CA DE
PHI	PH INDICATOR	INST	CA DE
PHR	PH RECORDER	INST	CA
PHS	PH SWITCH	INST	CA DE
PHT	PH TRANSMITTER	INST	CA DE
PI	PRESSURE INDICATOR	INST	CA DE
PIC	PRESSURE INDICATING CONTROLLER	INST	CA
PIS	PRESSURE INDICATING SWITCH	INST	CA DE
PIT	PRESSURE INDICATOR / TRANSMITTER	INST	CA
PIU	PRESSURE MODULATING UNIT	INST	CA
PNE	POSITION ELEMENT	INST	CA
PHI	POSITION INDICATOR	INST	CA
PHL	PANEL	ELEC	DE PL
PHR	POSITION RECORDER	INST	CA
PHS	POSITION SWITCHES	INST	CA DE
PHT	POSITION TRANSMITTER	INST	CA DE
POT	POT METER	ELEC	DE
PR	PRESSURE RECORDER	INST	CA
PRI	ROD POSITION INDICATOR	ELEC	DE
FRR	PIPE RUPTURE RESTRAINT	END	PA

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 15

JOB-NAME SHOREHAM - UNIT 1
 REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002
 COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
FS	PRESSURE SWITCH	INST	CA DE
PSA	PIPE SUPPORT ANCHOR	END	PA
PSB	PORTABLE STEAM BOILER	PWR	DE PA
PSG	PIPE SUPPORT GUIDE	END	PA
PSR	PIPE SUPPORT RESTRAINT	END	PA
PSRH	PIPE SUPPORT ROD HANGER	END	PA
PSS	PIPE SUPPORT SLIDING	END	PA
PSSH	PIPE SUPPORT SPRINT SUPPORT	END	PA
PSSP	PIPE SUPPORT SNUBBER/SUPPRESSOR	END	PA
PSST	PIPE SUPPORT STRUT	END	PA
PT	*PRESSURE TRANSMITTER OR POTENTIAL TRANSFORMER	INST	CA DE
PUR	PURIFIER	PWR	DE PA
PWR	PIPE WHIP RESTRAINTS	END	PA
QEN	QUENCHER	PWR	PA
R	REACTOR VESSEL, INTERNAL & EXTERNAL EQUIP.	PWR	PA
R/E	RESISTANCE TO VOLTAGE CONVERTER	INST	CA
R/I	RESISTANCE TO CURRENT CONVERTER	INST	CA DE
RA	RESISTOR ASSEMBLY	ELEC	DE
RAK	*RACK OR STORAGE STAND	PWR	DE PA
RB	RADIAL BEAMS	END	PA
RC	RECOMBINER	PWR	DE PA
RCL	ULTRASONIC RESIN CLEANER	PWR	DE PA
RCO	RESTRICTING CONTROL ORIFICE	INST	CA

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON

PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 16

JOB-NAME SHOREHAM - UNIT 1
REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
RCP	BOLT HEATER RECP	ELEC	DE
RD	RUPTURE DISC	PWR	PA
RE	RADIATION ELEMENT	INST	CA DE
REC	RECTIFIER	ELEC	DE EA
RECP	VIB TRANSDUCER	ELEC	DE
REF	REFRIGERATION UNIT	PWR	DE PA
RFP	RETRACTABLE FILL PIPE	PWR	PA
RI	RADIATION INDICATOR	INST	CA DE
RIA	RADIATION MONITOR AUX UNIT	ELEC	DE
RIS	RADIATION INDICATING SWITCH	INST	CA DE
RK	INSTRUMENT RACK	INST	DE PA
RL	RED LTS	ELEC	DE
RM	RADIATION MONITOR	ELEC	DE
RN	NOZZLE	PWR	PA
RO	RESTRICTION ORIFICES	INST	CA
RP	PNEUMATIC RELAY	INST	CA
RPI	ROU FDS IND PROBE	ELEC	DE
PR	RADIATION RECORDER	INST	CA
PS	RADIATION SWITCH	INST	CA DE
RST	RESTRAINT	END	PA
RT	RADIATION TRANSMITTER	INST	CA DE
RTS	RADIATION TRANSMITTER SWITCH	INST	CA DE
RV	RELIEF VALVE	INST	CA DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 17

JOB-NAME SHOOTMAN - UNIT 1
REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002
COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
S	PERMANENT STRAINERS	PWR	DE PA
S/A	SUMMING AMPLIFIER	INST	CA
S/C	SIGNAL CHARACTERIZER	INST	CA DE
S/G	SIGNAL GENERATOR	INST	CA
SB	SUB BASE (TURBINE)	PWR	PA
SBTH	SPRAY BOOTH	PWR	PA
SC	SPEED CONTROLLER	INST	CA
SCF	SAMPLE COLLECTIION FLASK	PWR	PA
SCT	SIGNAL CONDITIONER - TEMPORARY	INST	CA
SDF	SEAL DRYHALL FLOOR	PWR	PA
SE	SEAL	PWR	PA
SEN	RADIATION SENSOR	ELEC	DE
SH	SHIELD	PWR	PA
SHE	SHOP EQUIPMENT	PWR	PA
SHEQ	SHOP EQUIPMENT	PWR	DE PA
SI	SPEED INDICATOR	INST	CA
SIC	SPEED INDICATING CONTROLLER	INST	CA
SIL	SILENCER	PWR	PA
SIR	SPEED RECORDER	INST	CA
SIX	SPEED DEMAND INDICATOR	INST	CA
SK	SKINNER	EMD	PA
SL	*SPEED LIMITER OR SLING (PWR)	INST	CA PA
SLG	-SLING (SEE SL)	PWR	PA

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM
JOB-NAME SMOREHAM - UNIT 1 CLIENT LILCO
REPORT CSTD-09

PAGE 18
JOB-NUMBER 1160002
COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
SLU	SEAL OIL UNIT	PWR	PA
SOL	SOLENOID VALVE	ELEC	DE
SOV	SOLENOID OPERATED VALVE	INST	CA DE
SP	SPARGER	PWR	PA
SPK	-SPEAKER	ELEC	DE
SPKC	-SPEAKER	ELEC	DE
SPKR	-SPEAKER	ELEC	DE
SR	SEPARATOR	PWR	PA
SRH	SOURCE RANGE MONITOR	PWR	DE PA
ST	TEMPORARY STARINER	PWR	DE PA
STE	SPECIAL TEST INSTRUMENT	PWR	PA
STT	SPEED TRANSDUCER	INST	CA DE
STU	SEWAGE TREATMENT UNIT	PWR	PA
SUP	SUPPORT EQUIPMENT	END	PA
SV	SAFETY VALVE	INST	CA
SH	SERVICE WATER HELLS ISOLATION GATES	PWR	DE PA
SHE	SHIELD HALL EXTENSION	STR	
SHG	SWITCHGEAR	ELEC	DE PL
SHPH	SH PHL	ELEC	DE
SXS	STARTUP TRANSCENT MON	ELEC	DE
T	TRANSFORMER	ELEC	DE PL
T/C	THREED COUPLE	PWR	CA DE
TB	TERMINAL BLOCK	ELEC	DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON

PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 19

JOB-NAME SHOREHAM - UNIT 1

CLIENT LILCO

JOB-NUMBER 1160002

REPORT CSTD-09

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
TBE	TUBES, CONDENSER	PHR	PA
TC	TEMPERATURE CONTROLLER	INST	CA DE
TCS	TEMPERATURE CONTROL SWITCH	INST	CA DE
TCV	TEMPERATURE CONTROL VALVE	INST	CA DE
TD	TEMPERATURE DETECTOR	INST	CA
TDI	TEMPERATURE DIFFERENTIAL INDICATOR	INST	CA
TDR	TEMPERATURE DIFFERENTIAL RECORDER	INST	CA DE
TDS	TEMPERATURE DIFFERENTIAL SWITCH	INST	CA DE
TDT	TEMPERATURE DIFFERENTIAL TRANSMITTER	INST	CA DE
TE	TEMPERATURE ELEMENT	INST	CA DE
TEL	TELEPHONE	ELEC	DE
TG	TURNING GEAR	PHR	DE PA
TH	HEAT DETECTOR THEROM	INST	CA DE
TI	TEMPERATURE INDICATOR	INST	CA DE
TIC	TEMPERATURE INDICATING CONTROLLER	INST	CA DE
TIP	TRANSVERSING INCORE PROBE	PHR	CA DE PA
TIS	TEMPERATURE INDICATING SWITCH	INST	CA DE
TIT	TEMPERATURE INDICATING TRANSMITTER	INST	CA DE
TK	TANK, SUMP, SHIPPING CONTAINER, RESEVOIR	PHR	DE PA
TL	LINER	END	DE PA
TM	TEMPERATURE MONITOR	INST	CA
TMU	-TEMPERATURE MODULATING UNIT	INST	CA
TO	TOOL	END	DE PA

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON

PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 20

JOB-NAME SHOREHAM - UNIT 1
REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
TR	*TEMPERATURE RECORDER OR TURNING ROLL (PHR)	INST	CA DE PA
TRK	TRASH BACK	PWR	PA
TRP	TRAP	PWR	PA
TRS	*TRANSFER SWITCH OR TEMPERATURE RECORDING SWITCH	ELEC	CA DE
TRV	TEMPERATURE RELIEF VALVE	INST	CA
TS	TEMPERATURE SWITCH	INST	CA DE
TSC	TRAVELING WATER SCREEN	PWR	DE PA
TT	TEMPERATURE TRANSMITTER	INST	CA DE
TU	TURBINE	PWR	DE PA
TUE	TURBIDITY ELEMENT	INST	CA
TUI	TURBIDITY INDICATOR	INST	CA
TUIE	TURBIDITY INDICATING ELEMENT	INST	CA
TUR	*TURBIDITY RECORDER OR TURNSILE (STR)	INST	CA
TUT	TURBIDITY TRANSMITTER	INST	CA DE
TVC	TELEVISION CAMERA	ELEC	DE PL
TVM	TELEVISION MONITOR	ELEC	DE PL
TH	THERMO WELL	INST	CA
TX	TRANSMITTER, BASE STATION	ELEC	DE
TY	TEMPERATURE RELAY	INST	CA DE
UBI	ULTRASONIC EQUIPMENT CLEANER	PWR	PA
UC	UNIT COOLER	PWR	DE PA
UEC	ULTRASONIC CLEANING TRANSDUCER	ELEC	DE
UECL	ULTRASONIC CLEANING	PWR	PA

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 21

JOB-NAME SHOREHAM - UNIT 1

CLIENT LILCO

JOB-NUMBER 1160002

REPORT CSTD-09

COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
UH	UNIT HEATER	PHR	DE PA
UT	UNIT TRIP	PHR	PA
VB	-VIBRATING MOTOR	ELEC	DE EA
VSA	VIBRATION ALARM	INST	CA
VBE	VIBRATION ELEMENT	INST	CA DE
VBI	VIBRATION INDICATOR	INST	CA DE
VBM	VIBRATION MONITOR	INST	CA
VER	VIBRATION RECORDER	INST	CA
VBS	VIBRATION SWITCH	INST	CA DE
VBT	VIBRATION TRANSMITTER	INST	CA DE
VBX	VIBRATION TEST POINT	INST	CA
VCH	VALVE CHEST	PHR	PA
VH	VEHICLE / CART	PHR	DE PA
VH	-VIBRATING MOTOR	ELEC	DE PL
VR	VISCOSITY RECORDER	INST	CA
VT	VISCOSITY TRANSMITTER	INST	CA DE
VU	VENTILATOR UNIT	PHR	DE PA
WB	BALER (SOLID WASTE)	PHR	DE EA PA
WC	WATER CHILLER	PHR	DE PA
WDW	WINDOW-INCLUDES LEADED GLASS	STR	PA
WI	WATT INDICATOR	INST	CA
WR	WATT RECORDER	INST	CA DE
WX	WATT COUNTER	INST	CA

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
 PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM

PAGE 22

JOB-NAME SHOREHAM - UNIT 1
 REPORT CSTD-09

CLIENT LILCO

JOB-NUMBER 1160002
 COMPUTER DATE = 01/06/81

EQUIPMENT CODE	EQUIPMENT DESCRIPTION	EQUIPMENT TYPE	REPORT INDICATORS
XC	MISC. CONTROLLER	INST	CA DE
XE	MISC. ELEMENT	INST	CA DE
XI	MISC. INDICATOR	INST	CA DE
XL	LIGHTING TRANSFORMER	INST	CA DE EA
XLL	MISC. LOSS/LIMITER	INST	CA
XLU	MISC. LOSS/LIMITER UNIT	INST	CA
YM	MISCELLANEOUS METER	INST	CA
XN	MISC. TOTALIZER	INST	CA
XR	MISC. RECORDER	INST	CA
XRS	MISC. RECORDING SWITCH	INST	CA
XS	MISC. SWITCH	INST	CA DE
XT	MISC. TRANSMITTER	INST	CA DE
XXX	DCVIBROCHER	PHR	PA
XZ	MISC. ANALYZER	INST	CA
Z	PENETRATION	EMD	DE
ZCX	TIME HISTORY CONTROLLER	INST	CA DE
ZE	TIME HISTORY ACCEL. SENS.	INST	CA DE
ZIU	ZONE INDICATING UNIT	ELEC	DE
ZH	ZONE MODULE	ELEC	DE
ZR	TIME HISTORY RECORDER	INST	CA DE
ZS	SEISMIC SWITCH	INST	CA DE

STONE AND WEBSTER ENGINEERING CORPORATION - BOSTON
PROJECT EQUIPMENT CODES

REPORT INDICATORS FOR PROJECT EQUIPMENT SYSTEM
JOB-NAME SHOREHAM - UNIT 1 CLIENT LILCO
REPORT CSTD-09

PAGE 23
JOB-NUMBER 1160002
COMPUTER DATE = 01/06/81

EQUIPMENT
CODE

EQUIPMENT DESCRIPTION

EQUIPMENT
TYPE

REPORT INDICATORS

NO. OF EQUIPMENT CODES = 488
VOIDED EQUIPMENT CODES = 16
TOTAL EQUIPMENT CODES = 504