

Flood Evaluation Query  
C324AM

is not provided, however, it is similar to M520AM in CF-22.

# Flood Evaluation Query

CF-17A-M419AM

19-Nov-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
DL	Spec Impt	11A and 11B LPSI Loop Isol MOVs (1MOV615 and 1MOV625), Fail to Open on Demand. LPSIs only used in large break LOCAs. Flood cannot cause a large break LOCA, therefore this top is not affected for LPSI's. HPSI MOV'S (1MOV616/617/626/627) fail to open on demand. These valves are normally closed and fail as-is. Flow paths via MOV's 636/637/646/647 are still available, therefore this top is only impacted.	PAJ
F1	<i>None</i> Spec Impt	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. <i>(note 2) (note 3)</i>	PAJ
F3	None	Steam Admission SV's 1SV4070/4071 are covered under top event F1.	PAJ
FT	Spec Impt	1MOV4516/4517 are normally open and fail as-is. Therefore, if the SGFPs do not trip (which they should), then this top event will fail.	PAJ
HA	F	1MOV617/627 are normally open and fail as-is during this particular scenario. They are normally closed, but when this top event is used, they will be open and need to close in order not to cavitate the HPSI pumps. Other flow paths exist, but we will conservatively fail for now.	PAJ
HB	F	1MOV616/617/626/627 are normally open and fail as-is during this particular scenario. They are normally closed, but when this top event is used, they will be open and need to close in order not to cavitate the HPSI pumps. Other flow paths exist, but we will conservatively fail for now. Operators will be unable to throttle flow.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	F	1MOV616/617/626/627 are normally open and fail as-is during this particular scenario. They are normally closed, but when this top event is used, they will be open and need to close in order not to cavitate the HPSI pumps. Other flow paths exist, but we will conservatively fail for now.	PAJ
HX	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
K3	None	1CV3832/3833 fail closed on loss of power and loss of air.	PAJ
K4	None	1CV3832/3833 fail closed on loss of power and loss of air.	PAJ

See notes in RAN 98-065 sect. 5.4 *gdk*

TOP	PM	EVALUATION	RI
KS	F	1CV3832/3833 fail closed on loss of power and loss of air.	PAJ
LF	None	1MOV4516/4517 are normally open and fail as-is.	PAJ
M1	8BKR	8 breaker challenges.	PAJ
M2	11BKR	11 breaker challenges.	PAJ
M3	4BKR	4 breaker challenges.	PAJ
<del>M4</del>	<del>3BKR</del>	<del>3 breaker challenges.</del>	<del>PAJ</del>
MC	None	Has 3 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MH	Spec Impt	1CV4070/4071 are normally closed and fail as-is on loss of power. These valves must be locally vented.	PAJ
MN	None	1MOV4516/4517 are normally open and fail as-is.	PAJ
MS	F	1CV4043/4048 are normally open and fail as-is.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4520/4521/4530/4531) are normally open and fail as-is on loss of power.	PAJ

TOP	PM	EVALUATION	RI
RH	F	This human action requires operators to open 1MOV616/617/626/627. These MOVs are normally closed and fail as-is, therefore not allowing operators to open.	PAJ
SG	None Spec Impt	The hydrogen purge hand switches for MOVs 6901/6902/6903 fail. It is assumed that the MOVs will fail to the undesired position. This does impact the top but does not fail it. There is a check valve or MOV downstream of these MOVs that isolate containment. (NOTES)	PAJ
SH	None	All valves either are normally closed or will fail closed. 1MOV2080 has a check valve downstream of the MOV that isolates containment.	PAJ
SI	None	1CV1411/1413 were deleted. No longer as-built. These valves are normally closed and fail closed on loss of power and loss of air.	PAJ
SR	None	1MOV615/625 are normally closed and fail as-is. Both also have a check valve downstream of the MOV to isolate containment.	PAJ
TG	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. Covered under Top F1.	PAJ
UQ	None	1CV4511/4512 will fail open. This top is only fails when an under feed to the SG occurs.	PAJ
VQ	None	1CV38322/3833 fail closed on loss of power and loss of air. 1MOV651 is normally closed and fails as-is.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ
WY	None	1CV1584/1592/1585/1593 fail open on loss of power.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	DL	DLA11A	MV617P	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	DL	DLA11B	MV627P	0
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615O	19
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615P	19
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625O	0
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625P	0
A316	1MOV616	11A HPSI LOOP ISOL	DL	DLM11A	MV616P	0
A316	1MOV626	11B HPSI LOOP ISOL	DL	DLM11B	MV626P	0
A316	1MOV616	11A HPSI LOOP ISOL	DL	MV616O	MV616O	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	DL	MV617O	MV617O	0
A316	1MOV626	11B HPSI LOOP ISOL	DL	MV626O	MV626O	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	DL	MV627O	MV627O	0
A316	1CV4520	11 S/G AFW BLOCK VLV	F1	CV4520	CV520P	0
A316	1SV4520	11 S/G AFW BLOCK SV	F1	CV4520	CV520P	0
A316	1CV4521	11 S/G AFW BLOCK VLV	F1	CV4521	CV521P	0
A316	1SV4521	11 S/G AFW BLOCK SV	F1	CV4521	CV521P	0
A316	1CV4530	12 S/G AFW BLOCK VLV	F1	CV4530	CV530P	0
A316	1SV4530	12 S/G AFW BLOCK SV	F1	CV4530	CV530P	0
A316	1CV4531	12 S/G AFW BLOCK VLV	F1	CV4531	CV531P	0
A316	1SV4531	12 S/G AFW BLOCK SV	F1	CV4531	CV531P	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070O	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070O	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070P	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070P	0
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV70	C870AO	0
A316	1SV4070A	11 S/G AFW MAIN STM BYP VALVE	F1	F1CV70	C870AO	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071O	12
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071O	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071P	12
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071P	0
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV71	C871AO	0
A316	1SV4071A	12 S/G AFW MAIN STM BYP VLV	F1	F1CV71	C871AO	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	F1	F1TLV1	C6511P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511P	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	F1	F1TLV1	C6511R	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511R	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511R	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	F1	F1TLV2	C6512P	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512P	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512P	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	F1	F1TLV2	C6512R	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512R	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F3	BHEF31	Open	0
A316	1SV4070A	11 S/G AFW MAIN STM BYP VALVE	F3	BHEF31	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	F3	BHEF31	Open	0
A316	1SV4071A	12 S/G AFW MAIN STM BYP VLV	F3	BHEF31	Open	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516C	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516T	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517C	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517T	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HA	HATRTL	MV617C	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HA	HATRTL	MV617T	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HA	HATRTL	MV627C	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HA	HATRTL	MV627T	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	HBTRTL	MV616C	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	HBTRTL	MV616T	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	HBTRTL	MV626C	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	HBTRTL	MV626T	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	HU	BHEF1B	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	HU	BHEF1B	Throttle	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HW	HATRTL	MV617C	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HW	HATRTL	MV617T	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HW	HATRTL	MV627C	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HW	HATRTL	MV627T	0
A316	1MOV616	11A HPSI LOOP ISOL	HW	HBTRTL	MV616C	0
A316	1MOV616	11A HPSI LOOP ISOL	HW	HBTRTL	MV616T	0
A316	1MOV626	11B HPSI LOOP ISOL	HW	HBTRTL	MV626C	0
A316	1MOV626	11B HPSI LOOP ISOL	HW	HBTRTL	MV626T	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	HX	BHEF1A	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	HX	BHEF1A	Throttle	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	1CV3832	CONTMT SUPPLY CV	K3	C3832C	C3832C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K3	C3832C	C3832C	0
A316	1CV3832	CONTMT SUPPLY CV	K3	C3832T	C3832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K3	C3832T	C3832T	0
A316	1CV3833	CONTMT RETN CV	K3	C3833C	C3833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K3	C3833C	C3833C	0
A316	1CV3833	CONTMT RETN CV	K3	C3833T	C3833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K3	C3833T	C3833T	0
A419	1CV3840	EVAP INLET CV	K3	C3840C	C3840C	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K3	C3840C	C3840C	0
A419	1CV3840	EVAP INLET CV	K3	C3840T	C3840T	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K3	C3840T	C3840T	0
A419	1CV3842	EVAPS INLET CV	K3	C3842C	C3842C	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K3	C3842C	C3842C	0
A419	1CV3842	EVAPS INLET CV	K3	C3842T	C3842T	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K3	C3842T	C3842T	0
A316	1CV3832	CONTMT SUPPLY CV	K4	C3832C	C3832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K4	C3832C	C3832C	0
A316	1CV3832	CONTMT SUPPLY CV	K4	C3832T	C3832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K4	C3832T	C3832T	0
A316	1CV3833	CONTMT RETN CV	K4	C3833C	C3833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K4	C3833C	C3833C	0
A316	1CV3833	CONTMT RETN CV	K4	C3833T	C3833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K4	C3833T	C3833T	0
A419	1CV3840	EVAP INLET CV	K4	C3840C	C3840C	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K4	C3840C	C3840C	0
A419	1CV3840	EVAP INLET CV	K4	C3840T	C3840T	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K4	C3840T	C3840T	0
A419	1CV3842	EVAPS INLET CV	K4	C3842C	C3842C	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K4	C3842C	C3842C	0
A419	1CV3842	EVAPS INLET CV	K4	C3842T	C3842T	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K4	C3842T	C3842T	0
A316	1CV3832	CONTMT SUPPLY CV	KS	KSCV32	C3832P	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	KS	KSCV32	C3832P	0
A316	1CV3833	CONTMT RETN CV	KS	KSCV33	C3833P	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	KS	KSCV33	C3833P	0
A315	1MOV4516	11 SG FW ISOL	LF	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MNBYP2	MV417P	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516O	MV516O	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516P	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517O	MV517O	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517P	MV517P	0
A316	1MOV616	11A HPSI LOOP ISOL	M1	MVM16Q	MVM16Q	0
A316	1MOV626	11B HPSI LOOP ISOL	M1	MVM17Q	MVM17Q	0
A316	1MOV6200	NO 1 CNTMT ISOL VLV	M1	MVM23Q	MVM23Q	0
A315	1MOV4517	12 SG FW ISOL	M1	MVM26Q	MVM26Q	0
A315	1MOV4052	MSIV 12 BYP VLV	M1	MVM28Q	MVM28Q	0
A316	1MOV6903	H2 PURGE REPLACE AIR CONTMT ISOL	M1	MVM52Q	MVM52Q	0
A316	1MOV6902	H2 PURGE FLOW CONTROL DAMPER	M1	MVM56Q	MVM56Q	0
A316	1FANHP11	H2 PURGE REP BLOWER (1M0403)	M1	VAM03Q	VAM03Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A227	1MOV615	11A LPSI LOOP ISOL	M2	MVN07Q	MVN07Q	19
A227	1MOV625	11B LPSI LOOP ISOL	M2	MVN08Q	MVN08Q	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	M2	MVN14Q	MVN14Q	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	M2	MVN16Q	MVN16Q	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	M2	MVN17Q	MVN17Q	0
A315	1MOV4516	11 SG FW ISOL	M2	MVN26Q	MVN26Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A315	1MOV4045	MSIV 11 BYP VLV	M2	MVN28Q	MVN28Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	M2	MVN53Q	MVN53Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A309	2MOV4517	22 SG FW ISOL	M3	MVO28Q	MVO28Q	0
A309	2MOV4052	22 MSIV BYP VLV	M3	MVO28Q	MVO28Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A309	2MOV4516	21 SG FW ISOL	M4	MVN26Q	MVN26Q	0
A309	2MOV4045	21 MSIV BYP VLV	M4	MVN28Q	MVN28Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A315	1PCV4415	COND PP 11 SEAL WTR REG	MC	PC415R	PC415R	0
A315	1PCV4422	COND PP 12 SEAL WTR REG	MC	PC422R	PC422R	0
A315	1PCV4506	COND PP 13 SEAL WTR REG	MC	PC506R	PC506R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	MH	BHEF1I	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	MH	BHEF1I	Open	0
A315	1MOV4516	11 SG FW ISOL	MN	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	MN	MNBYP2	MV517P	0
A315	1CV4043	MSIV 11	MS	MT043C	MT043C	0
A315	1CV4048	MSIV 12	MS	MT048C	MT048C	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A316	1CV4520	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4521	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4530	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4531	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1SV4520	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4521	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4530	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4531	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1MOV616	11A HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV626	11B HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	SG	MV691C	MV691C	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	SG	MV691T	MV691T	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A316	1MOV6902	H2 PURGE FLOW CONTROL DAMPER	SG	SGMV01	MV692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A316	1MOV6903	H2 PURGE REPLACE AIR CONTMT ISOL	SG	SGMV02	MV693T	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	1CV5292	CONTMT ATMOS SMPL ISOL	SH	IC292C	IC292C	0
A316	1SV5292	CONTMT ATMOS SMPL ISOL	SH	IC292C	IC292C	0
A316	1CV5460	U-1 CONTMT ISOL	SH	IC460T	IC460T	0
A316	1SV5460	U-1 CONTMT ISOL SV	SH	IC460T	IC460T	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	SH	MV080T	MV080T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A316	1CV5460	U-1 CONTMT ISOL	SH	SHIC01	IC460C	0
A316	1SV5460	U-1 CONTMT ISOL SV	SH	SHIC01	IC460C	0
A316	1CV5292	CONTMT ATMOS SMPL ISOL	SH	SHIC03	IC292T	0
A316	1SV5292	CONTMT ATMOS SMPL ISOL	SH	SHIC03	IC292T	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	SH	SHMV01	MV080C	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A316	1CV1411	CPA SUPP ISOL CV	SI	IC411C	IC411C	0
A316	1SV1411	CPA SUPP ISOL CV CONT	SI	IC411C	IC411C	0
A316	1CV1413	CPA EXH ISOL CV	SI	IC413C	IC413C	0
A316	1SV1413	CPA EXH ISOL CV CONT	SI	IC413C	IC413C	0
A316	1CV1411	CPA SUPP ISOL CV	SI	SICV02	IC411T	0
A316	1SV1411	CPA SUPP ISOL CV CONT	SI	SICV02	IC411T	0
A316	1CV1413	CPA EXH ISOL CV	SI	SICV04	IC413T	0
A316	1SV1413	CPA EXH ISOL CV CONT	SI	SICV04	IC413T	0
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615C	MV615C	19
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615T	MV615T	19
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625C	MV625C	0
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625T	MV625T	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	TG	BHEF1Y	Close/Open	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	TG	BHEF1Y	Close/Open	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	TG	BHEF1Y	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	TG	BHEF1Y	Open	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	UQ	BHEUQ1	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	UQ	BHEUQ1	Throttle	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	1CV3832	CONTMT SUPPLY CV	VQ	IC832C	IC832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	VQ	IC832C	IC832C	0
A316	1CV3832	CONTMT SUPPLY CV	VQ	IC832T	IC832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	VQ	IC832T	IC832T	0
A316	1CV3833	CONTMT RETN CV	VQ	IC833C	IC833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	VQ	IC833C	IC833C	0
A316	1CV3833	CONTMT RETN CV	VQ	IC833T	IC833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	VQ	IC833T	IC833T	0
A316	1MOV651	SDC RETN ISOL	VQ	MV651C	MV651C	0
A316	1MOV651	SDC RETN ISOL	VQ	MV651X	MV651X	0
A316	1MOV651	SDC RETN ISOL	VQ	VQMV01	MV651T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	1CV5460	U-1 CONTMT ISOL	WJ	BHESH1	Shut	0
A316	1SV5460	U-1 CONTMT ISOL SV	WJ	BHESH1	Shut	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0
A316	1CV1581	11 CNTMT CLG U NORM INLET	WY	CV581O	CV581O	0
A316	1I/P1581	CNTMT CLR 11 SERV WTR INLT	WY	CV581O	CV581O	0
A316	1SV1581	CNTMT CLR 11 INLT VLV CONTROL	WY	CV581O	CV581O	0
A316	1CV1582	11 CNTMT CLG U EMER DISCH	WY	CV582O	CV582O	0
A316	1SV1582	CNTMT CLR 11 SERV WTR OUT	WY	CV582O	CV582O	0
A316	1CV1589	13 CNTMT CLG U NORM INLET	WY	CV589O	CV589O	0
A316	1I/P1589	CNTMT CLR 13 SERV WTR INLT	WY	CV589O	CV589O	0
A316	1SV1589	CNTMT CLR 13 INLT VLV CONTROL	WY	CV589O	CV589O	0
A316	1CV1590	13 CNTMT CLG U EMER DISCH	WY	CV590O	CV590O	0
A316	1SV1590	CNTMT CLR 13 OUTLT VLV CONTROL	WY	CV590O	CV590O	0
A316	1CV1581	11 CNTMT CLG U NORM INLET	WY	WA102F	CV581P	0
A316	1I/P1581	CNTMT CLR 11 SERV WTR INLT	WY	WA102F	CV581P	0
A316	1SV1581	CNTMT CLR 11 INLT VLV CONTROL	WY	WA102F	CV581P	0
A316	1CV1582	11 CNTMT CLG U EMER DISCH	WY	WAHVCV	CV582P	0
A316	1SV1582	CNTMT CLR 11 SERV WTR OUT	WY	WAHVCV	CV582P	0
A316	1CV1589	13 CNTMT CLG U NORM INLET	WY	WC102F	CV589P	0
A316	1I/P1589	CNTMT CLR 13 SERV WTR INLT	WY	WC102F	CV589P	0
A316	1SV1589	CNTMT CLR 13 INLT VLV CONTROL	WY	WC102F	CV589P	0
A316	1CV1590	13 CNTMT CLG U EMER DISCH	WY	WCHVCV	CV590P	0
A316	1SV1590	CNTMT CLR 13 OUTLT VLV CONTROL	WY	WCHVCV	CV590P	0

# Flood Evaluation Query

CF-17B-M419AN ✚

19-Nov-98

TOP	PM	EVALUATION	RI
AA	4BKR	4 breaker challenges.	PAJ
AB	4BKR	4 breaker challenges.	PAJ
AC	2BKR	2 breaker challenges.	PAJ
AD	5BKR	5 breaker challenges.	PAJ
CS	F	CS Pump 11 is lost.	PAJ
CT	F	CS Pump 12 is lost.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
DL	Spec Impt	11A and 11B LPSI Loop Isol MOVs (1MOV615 and 1MOV625), Fail to Open on Demand. LPSIs only used in large break LOCAs. Flood cannot cause a large break LOCA, therefore this top is not affected for LPSI's. HPSI MOV'S (1MOV616/617/626/627) fail to open on demand. These valves are normally closed and fail as-is. Flow paths via MOV's 636/637/646/647 are still available, therefore this top is only impacted.	PAJ
F1	Spec Impt	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be.	PAJ
F3	None	Steam Admission SV's 1SV4070/4071 are covered under top event F1.	PAJ
F7	F	Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ

\* This Flood Deleted, see RAN 98-065 sect 5.4, note 12.

*JPK*

TOP	PM	EVALUATION	RI
FT	Spec Impt	1MOV4516/4517 are normally open and fail as-is. Therefore, if the SGFPs do not trip (which they should), then this top event will fail.	PAJ
GW	None	2CV5152, 2CV5153 and 2CV5212 fail open on loss of power and loss of air.	PAJ
GZ	None	2CV5150 and 2CV5210 fail open on loss of power and loss of air.	PAJ
HA	F	11 HPSI Pump fails.	PAJ
HB	F	13 HPSI Pump fails.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	F	12 HPSI is lost. Also 1MOV653, 1MOV654, 1MOV655 and 1MOV656 fail as-is.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
KS	F	1CV3832/3833 fail closed on loss of power and loss of air.	PAJ
LF	None	1MOV4516/4517 are normally open and fail as-is.	PAJ
M1	15BKR	15 breaker challenges.	PAJ
M2	18BKR	18 breaker challenges.	PAJ
M3	11BKR	11 breaker challenges.	PAJ
<del>M4</del>	<del>7BKR</del>	<del>7 breaker challenges.</del>	<del>PAJ</del>
MC	None	Has 3 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MH	Spec Impt	1CV4070/4071 are normally closed and fail as-is on loss of power. These valves must be locally vented.	PAJ

TOP	PM	EVALUATION	RI
MN	None	IMOV4516/4517 are normally open and fail as-is.	PAJ
MS	F	1CV4043/4048 are normally open and fail as-is.	PAJ
MV	None	IMOV659/660 fail as-is and are normally electrically locked open, there will be no flood impact.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
NR(TC)	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1.	PAJ
NS	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
RH	F	This human action requires the operator to start 11 and 13 HPSI Pumps. Both pumps are assumed not to start/run during a flood scenario.	PAJ
S3	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5148 (FO), 1CV5148A (FC), 1CV5151 (FO), 1CV5151A (FC) and 1CV5209 (FO).	PAJ
S4	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5158 (FO), 1CV5158A (FC), 1CV5159 (FO), 1CV5159A (FC), 1CV5211 (FO), 1CV5153 (FO) and 1CV5157 (FC).	PAJ

TOP	PM	EVALUATION	RI
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
SI	None	1CV1411/1413 were deleted. No longer as-built. These valves are normally closed and fail closed on loss of power and loss of air.	PAJ
SR	None	All MOVs (1MOV4144/4145/5462/5463/615/625) are closed and fail close.	PAJ
TA	F	1CV1637/1639 fail close on loss of power / loss of air.	PAJ
TB	F	1CV1600/1638 fail close on loss of power / loss of air.	PAJ
TE	F	1MOV4144 is normally in the closed position and will fail as-is. Therefore, the East Recirculation Header will not function properly.	PAJ
TG	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. Covered under Top F1.	PAJ
TH(HD1)	None	1CV5210 will fail to it's appropriate position not allowing the operator to throttle valve. Covered by Top S3 or K3.	PAJ
TH(HD2)	None	1CV5212 will fail to it's appropriate position not allowing the operator to throttle valve. Covered by Top S4 or K4.	PAJ
TW	F	1MOV4145 is normally in the closed position and will fail as-is. Therefore, the West Recirculation Header will not function properly.	PAJ
UQ	None	1CV4511/4512/4525/4535 will fail open. This top is only fails when an under feed to the SG occurs.	PAJ
V1	F	All ECCS Pump Room Fans fail to start/run.	PAJ
V2	F	All ECCS Pump Room Fans fail to start/run.	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
VM(RM1)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V1.	PAJ

TOP	PM	EVALUATION	RI
VM(RM2)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V2.	PAJ
VQ	None	1CV38322/3833 fail closed on loss of power and loss of air. 1MOV651 is normally closed and fails as-is.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ
WY	None	1CV1584/1592/1585/1593 fail open on loss of power.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	AA	MACS1Q	MACS1Q	12
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	AA	MAHP1Q	MAHP1Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AA	MAHP3Q	MAHP3Q	12
A119	1PUMPSILPSI11	11 LOW PRESS SAFETY INJECTION PUMP (1MA104)	AA	MALP1Q	MALP1Q	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	AB	MACS2Q	MACS2Q	12
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	AB	MAHP2Q	MAHP2Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AB	MAHP4Q	MAHP4Q	12
A118	1PUMPSILPSI12	12 LOW PRESS SAFETY INJECTION PUMP (1MA404)	AB	MALP2Q	MALP2Q	12
A101	2PUMPSICS21	21 CONTAINMENT SPRAY PUMP (2MA107)	AC	MACS3Q	MACS3Q	24
A101	2PUMPHPSI21	SI HPSI PUMP 21 (2MA108)	AC	MAHP5Q	MAHP5Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AC	MAHP7Q	MAHP7Q	12
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A102	2PUMPSICS22	22 CONTAINMENT SPRAY PUMP (2MA407)	AD	MACS4Q	MACS4Q	12
A101	2PUMPHPSI22	SI HPSI PUMP 22 (2MA408)	AD	MAHP6Q	MAHP6Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AD	MAHP8Q	MAHP8Q	12
A102	2PUMPSILPSI22	22 LOW PRESS SAFETY INJECTION PUMP (2MA404)	AD	MALP4Q	MALP4Q	12
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11B	0
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11P	0
A119	1MOV663	SDC RECIRC TO 11 HPSI PP	CS	CS0103	MV663T	0
A119	1CV3828	11 SDC HX OUTLET	CS	CSHX11	CV828P	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CSHX11	CV828P	0
A119	1CV3828	11 SDC HX OUTLET	CS	CV828O	CV828O	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CV828O	CV828O	0
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107R	MA107R	12
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107S	MA107S	12
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12B	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12P	0
A118	1MOV662	SDC RECIRC TO 13 HPSI PP	CT	CT0103	MV662T	0
A118	1CV3830	12 SDC HX OUTLET	CT	CTXH12	CV830P	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CTXH12	CV830P	0
A118	1CV3830	12 SDC HX OUTLET	CT	CV830O	CV830O	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CV830O	CV830O	0
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407R	MA407R	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407S	MA407S	12
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS224R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	DL	DLA11A	MV617P	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	DL	DLA11B	MV627P	0
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615O	19
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615P	19
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625O	0
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625P	0
A316	1MOV616	11A HPSI LOOP ISOL	DL	DLM11A	MV616P	0
A316	1MOV626	11B HPSI LOOP ISOL	DL	DLM11B	MV626P	0
A316	1MOV616	11A HPSI LOOP ISOL	DL	MV616O	MV618O	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	DL	MV617O	MV617O	0
A316	1MOV626	11B HPSI LOOP ISOL	DL	MV626O	MV626O	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	DL	MV627O	MV627O	0
A316	1CV4520	11 S/G AFW BLOCK VLV	F1	CV4520	CV520P	0
A316	1SV4520	11 S/G AFW BLOCK SV	F1	CV4520	CV520P	0
A316	1CV4521	11 S/G AFW BLOCK VLV	F1	CV4521	CV521P	0
A316	1SV4521	11 S/G AFW BLOCK SV	F1	CV4521	CV521P	0
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A316	1CV4530	12 S/G AFW BLOCK VLV	F1	CV4530	CV530P	0
A316	1SV4530	12 S/G AFW BLOCK SV	F1	CV4530	CV530P	0
A316	1CV4531	12 S/G AFW BLOCK VLV	F1	CV4531	CV531P	0
A316	1SV4531	12 S/G AFW BLOCK SV	F1	CV4531	CV531P	0
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070O	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070O	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070P	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070P	0
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV70	C870AO	0
A316	1SV4070A	11 S/G AFW MAIN STM BYP VALVE	F1	F1CV70	C870AO	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071O	12
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071O	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071P	12
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071P	0
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV71	C871AO	0
A316	1SV4071A	12 S/G AFW MAIN STM BYP VLV	F1	F1CV71	C871AO	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	F1	F1TLV1	C6511P	0
A316	1I/P4511A	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511P	0
A316	1I/P4511B	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	F1	F1TLV1	C6511R	0
A316	1I/P4511A	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511R	0
A316	1I/P4511B	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511R	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	F1	F1TLV2	C6512P	0
A316	1I/P4512A	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512P	0
A316	1I/P4512B	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512P	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	F1	F1TLV2	C6512R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	1I/P4512A	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512R	0
A316	1I/P4512B	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F3	BHEF31	Open	0
A316	1SV4070A	11 S/G AFW MAIN STM BYP VALVE	F3	BHEF31	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	F3	BHEF31	Open	0
A316	1SV4071A	12 S/G AFW MAIN STM BYP VLV	F3	BHEF31	Open	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50O	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516C	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516T	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517C	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517T	0
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AP	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BP	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AB	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AP	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BB	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BP	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1B	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1P	0
A119	1MOV656	AUX HPSI HDR ISOL	HA	HADISA	MV656P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A316	1MOV617	11A AUX HPSI LOOP ISOL	HA	HATRTL	MV617C	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HA	HATRTL	MV617T	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HA	HATRTL	MV627C	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HA	HATRTL	MV627T	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011R	MA011R	24
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011S	MA011S	24
A316	1MOV616	11A HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AP	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BP	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AB	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AP	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BB	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BP	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3B	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3P	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	HBTRTL	MV616C	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	HBTRTL	MV616T	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	HBTRTL	MV626C	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	HBTRTL	MV626T	0
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013R	MA013R	12
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013S	MA013S	12
A118	1MOV654	HPSI HDR ISOL	HB	MV654P	MV654P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	HU	BHEF1B	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	HU	BHEF1B	Throttle	0
A316	1/P4511A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	1/P4511B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	1/P4512A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	1/P4512B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A118	1PUMPHPSI12	12 HIGH PRESS SAFETY INJECTION PUMP	HW	BHEHW1	Start	12
A119	1MOV656	AUX HPSI HDR ISOL	HW	HADISA	MV656P	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HW	HATRTL	MV617C	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HW	HATRTL	MV617T	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HW	HATRTL	MV627C	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HW	HATRTL	MV627T	0
A316	1MOV616	11A HPSI LOOP ISOL	HW	HBTRTL	MV616C	0
A316	1MOV616	11A HPSI LOOP ISOL	HW	HBTRTL	MV616T	0
A316	1MOV626	11B HPSI LOOP ISOL	HW	HBTRTL	MV626C	0
A316	1MOV626	11B HPSI LOOP ISOL	HW	HBTRTL	MV626T	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AP	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BP	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AB	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AP	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BB	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BP	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2B	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2P	0
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012R	MA012R	24
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012S	MA012S	24
A118	1MOV653	HPSI HDR X-CONN	HW	MV653O	MV653O	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653P	MV653P	0
A118	1MOV654	HPSI HDR ISOL	HW	MV654P	MV654P	0
A119	1MOV655	HPSI HDR X-CONN	HW	MV655P	MV655P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	HX	BHEF1A	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	HX	BHEF1A	Throttle	0
A316	1I/P4511A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	1I/P4511B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	1I/P4512A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	1I/P4512B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A316	1CV3832	CONTMT SUPPLY CV	K3	C3832C	C3832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K3	C3832C	C3832C	0
A316	1CV3832	CONTMT SUPPLY CV	K3	C3832T	C3832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K3	C3832T	C3832T	0
A316	1CV3833	CONTMT RETN CV	K3	C3833C	C3833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K3	C3833C	C3833C	0
A316	1CV3833	CONTMT RETN CV	K3	C3833T	C3833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K3	C3833T	C3833T	0
A419	1CV3840	EVAP INLET CV	K3	C3840C	C3840C	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K3	C3840C	C3840C	0
A419	1CV3840	EVAP INLET CV	K3	C3840T	C3840T	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K3	C3840T	C3840T	0
A419	1CV3842	EVAPS INLET CV	K3	C3842C	C3842C	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K3	C3842C	C3842C	0
A419	1CV3842	EVAPS INLET CV	K3	C3842T	C3842T	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K3	C3842T	C3842T	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A316	1CV3832	CONTMT SUPPLY CV	K4	C3832C	C3832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K4	C3832C	C3832C	0
A316	1CV3832	CONTMT SUPPLY CV	K4	C3832T	C3832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K4	C3832T	C3832T	0
A316	1CV3833	CONTMT RETN CV	K4	C3833C	C3833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K4	C3833C	C3833C	0
A316	1CV3833	CONTMT RETN CV	K4	C3833T	C3833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K4	C3833T	C3833T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A419	1CV3840	EVAP INLET CV	K4	C3840C	C3840C	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K4	C3840C	C3840C	0
A419	1CV3840	EVAP INLET CV	K4	C3840T	C3840T	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K4	C3840T	C3840T	0
A419	1CV3842	EVAPS INLET CV	K4	C3842C	C3842C	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K4	C3842C	C3842C	0
A419	1CV3842	EVAPS INLET CV	K4	C3842T	C3842T	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K4	C3842T	C3842T	0
A226	1FIC5212	12B SRWX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A316	1CV3832	CONTMT SUPPLY CV	KS	KSCV32	C3832P	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	KS	KSCV32	C3832P	0
A316	1CV3833	CONTMT RETN CV	KS	KSCV33	C3833P	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	KS	KSCV33	C3833P	0
A315	1MOV4516	11 SG FW ISOL	LF	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MNBYP2	MV417P	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516O	MV516O	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516P	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517O	MV517O	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517P	MV517P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	M1	M1FPPR	VD48AQ	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	M1	M1FPPR	VD48BQ	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	M1	M1FPPR	VD48CQ	22
A316	1MOV616	11A HPSI LOOP ISOL	M1	MVM16Q	MVM16Q	0
A316	1MOV626	11B HPSI LOOP ISOL	M1	MVM17Q	MVM17Q	0
A118	1MOV654	HPSI HDR ISOL	M1	MVM21Q	MVM21Q	0
A118	1MOV653	HPSI HDR X-CONN	M1	MVM22Q	MVM22Q	0
A316	1MOV6200	NO 1 CNTMT ISOL VLV	M1	MVM23Q	MVM23Q	0
A315	1MOV4517	12 SG FW ISOL	M1	MVM26Q	MVM26Q	0
A315	1MOV4052	MSIV 12 BYP VLV	M1	MVM28Q	MVM28Q	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	M1	MVM30Q	MVM30Q	0
A118	1MOV660	MINI FLOW RETN TO RWT	M1	MVM32Q	MVM32Q	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	M1	MVM44Q	MVM44Q	0
A316	1MOV6903	H2 PURGE REPLACE AIR CONTMT ISOL	M1	MVM52Q	MVM52Q	0
A316	1MOV6902	H2 PURGE FLOW CONTROL DAMPER	M1	MVM56Q	MVM56Q	0
A316	1FANHP11	H2 PURGE REP BLOWER (1M0403)	M1	VAM03Q	VAM03Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	M2	M2FPPR	VD48AQ	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	M2	M2FPPR	VD48BQ	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	M2	M2FPPR	VD48CQ	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	M2	M2FPPR	VD48DQ	22
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A227	1MOV615	11A LPSI LOOP ISOL	M2	MVN07Q	MVN07Q	19
A227	1MOV625	11B LPSI LOOP ISOL	M2	MVN08Q	MVN08Q	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	M2	MVN14Q	MVN14Q	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	M2	MVN16Q	MVN16Q	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	M2	MVN17Q	MVN17Q	0
A119	1MOV656	AUX HPSI HDR ISOL	M2	MVN21Q	MVN21Q	0
A119	1MOV655	HPSI HDR X-CONN	M2	MVN22Q	MVN22Q	0
A315	1MOV4516	11 SG FW ISOL	M2	MVN26Q	MVN26Q	0
A315	1MOV4045	MSIV 11 BYP VLV	M2	MVN28Q	MVN28Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A118	1MOV659	MINI FLOW RETN TO RWT	M2	MVN32Q	MVN32Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A122	1MOV4144	CONTMT SUMP OUT ISOL	M2	MVN44Q	MVN44Q	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	M2	MVN53Q	MVN53Q	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	M2	MVN57Q	MVN57Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A102	2FAN0448A	ECCS PP RM CLR 22 FAN A (2M0448A)	M3	M3FPPR	VD48AQ	22
A102	2FAN0448B	ECCS PP RM CLR 22 FAN B (2M0448B)	M3	M3FPPR	VD48BQ	22
A102	2FAN0448C	ECCS PP RM CLR 22 FAN C (2M0448C)	M3	M3FPPR	VD48CQ	22
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A102	2MOV654	HPSI HDR ISOL	M3	MVO21Q	MVO21Q	0
A102	2MOV653	HPSI HDR X-CONN	M3	MVO22Q	MVO22Q	0
A309	2MOV4517	22 SG FW ISOL	M3	MVO26Q	MVO26Q	0
A309	2MOV4052	22 MSIV BYP VLV	M3	MVO28Q	MVO28Q	0
A120	2MOV5463	U-2 CONTMT RECIRC PIPE TUNNEL	M3	MVO30Q	MVO30Q	0
A102	2MOV660	MINI FLOW RETN TO RWT	M3	MVO32Q	MVO32Q	0
A120	2MOV4145	CONTMT SUMP OUTLET ISOL	M3	MVO44Q	MVO44Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A309	2MOV4516	21 SG FW ISOL	M4	MVN26Q	MVN26Q	0
A309	2MOV4045	21 MSIV BYP VLV	M4	MVN28Q	MVN28Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A102	2MOV659	MINI FLOW RETN TO RWT	M4	MVN32Q	MVN32Q	0
A120	2MOV4144	CONTMT SUMP OUTLET ISOL	M4	MVN44Q	MVN44Q	0
A120	2MOV5462	U-2 CONTMT RECIRC PIPE TUNNEL	M4	MVN57Q	MVN57Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A315	1PCV4415	COND PP 11 SEAL WTR REG	MC	PC415R	PC415R	0
A315	1PCV4422	COND PP 12 SEAL WTR REG	MC	PC422R	PC422R	0
A315	1PCV4506	COND PP 13 SEAL WTR REG	MC	PC506R	PC506R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	MH	BHEF1I	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	MH	BHEF1I	Open	0
A315	1MOV4516	11 SG FW ISOL	MN	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	MN	MNBYP2	MV517P	0
A228	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A315	1CV4043	MSIV 11	MS	MT043C	MT043C	0
A315	1CV4048	MSIV 12	MS	MT048C	MT048C	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659P	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659X	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660P	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660X	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A316	1CV4520	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4521	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4530	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4531	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1SV4520	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4521	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4530	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4531	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1MOV616	11A HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV626	11B HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	RH	BHERH1	Open	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	RH	BHERH1	Start	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	RH	BHERH1	Start	12
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1HXSrw11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSrw11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSrw11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSrw11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1I/P5157	12A/12B SRW HX SW OUT IP	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW708P	0
A226	1HXSrw12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSrw12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSrw-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSrw-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW710P	0
A226	1HXSrw12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSrw12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	SG	MV691C	MV691C	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	SG	MV691T	MV691T	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A316	1MOV6902	H2 PURGE FLOW CONTROL DAMPER	SG	SGMV01	MV692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A316	1MOV6903	H2 PURGE REPLACE AIR CONTMT ISOL	SG	SGMV02	MV693T	0
A316	1CV5292	CONTMT ATMOS SMPL ISOL	SH	IC292C	IC292C	0
A316	1SV5292	CONTMT ATMOS SMPL ISOL	SH	IC292C	IC292C	0
A316	1CV5460	U-1 CONTMT ISOL	SH	IC460T	IC460T	0
A316	1SV5460	U-1 CONTMT ISOL SV	SH	IC460T	IC460T	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	SH	MV080T	MV080T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A111	OPCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A316	1CV5460	U-1 CONTMT ISOL	SH	SHIC01	IC460C	0
A316	1SV5460	U-1 CONTMT ISOL SV	SH	SHIC01	IC460C	0
A316	1CV5292	CONTMT ATMOS SMPL ISOL	SH	SHIC03	IC292T	0
A316	1SV5292	CONTMT ATMOS SMPL ISOL	SH	SHIC03	IC292T	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	SH	SHMV01	MV080C	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SHSV02	SV07BT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SHSV05	SV07CT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SHSV08	SV07DT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SV07BD	SV07BD	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SV07CD	SV07CD	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SV07DD	SV07DD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GD	SV07GD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GT	SV07GT	0
A316	1CV1411	CPA SUPP ISOL CV	SI	IC411C	IC411C	0
A316	1SV1411	CPA SUPP ISOL CV CONT	SI	IC411C	IC411C	0
A316	1CV1413	CPA EXH ISOL CV	SI	IC413C	IC413C	0
A316	1SV1413	CPA EXH ISOL CV CONT	SI	IC413C	IC413C	0
A316	1CV1411	CPA SUPP ISOL CV	SI	SICV02	IC411T	0
A316	1SV1411	CPA SUPP ISOL CV CONT	SI	SICV02	IC411T	0
A316	1CV1413	CPA EXH ISOL CV	SI	SICV04	IC413T	0
A316	1SV1413	CPA EXH ISOL CV CONT	SI	SICV04	IC413T	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144C	MV144C	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144T	MV144T	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145C	MV145C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145T	MV145T	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462C	MV462C	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462T	MV462T	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463C	MV463C	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463T	MV463T	0
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615C	MV615C	19
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615T	MV615T	19
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625C	MV625C	0
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625T	MV625T	0
A226	1SV1637	TURB LUBE&EHC OIL SERVWTR ISOL	TA	TAFB01	C3637P	0
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	MV1440	MV1440	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	TE0101	MV144P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	TG	BHEF1Y	Close/Open	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	TG	BHEF1Y	Close/Open	0
A316	1I/P4511A	11 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	1I/P4511B	11 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	1I/P4512A	12 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	1I/P4512B	12 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	TG	BHEF1Y	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	TG	BHEF1Y	Open	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	TH(HD2)	BHER3B	Open	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	MV145O	MV145O	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	TW0101	MV145P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	UQ	BHEUQ1	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	UQ	BHEUQ1	Throttle	0
A316	1I/P4511A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	1I/P4511B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	1I/P4512A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	1I/P4512B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	TS404D	TS404D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC170P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1TEMP	TS404R	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205B	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205P	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AR	VD11AR	22
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AS	VD11AS	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BR	VD11BR	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BS	VD11BS	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CR	VD11CR	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CS	VD11CS	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DR	VD11DR	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DS	VD11DS	22
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170D	WC170D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170O	WC170O	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171D	WC171D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171O	WC171O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	TS405D	TS405D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2INLT	WC173P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2TEMP	TS405R	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207B	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AR	VD12AR	22
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AS	VD12AS	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BR	VD12BR	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BS	VD12BS	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CR	VD12CR	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CS	VD12CS	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173D	WC173D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173O	WC173O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	VM(RM1)	BHEV1T	Start	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM2)	BHEV1T	Open	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	VM(RM2)	BHEV1T	Start	22
A316	1CV3832	CONTMT SUPPLY CV	VQ	IC832C	IC832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	VQ	IC832C	IC832C	0
A316	1CV3832	CONTMT SUPPLY CV	VQ	IC832T	IC832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	VQ	IC832T	IC832T	0
A316	1CV3833	CONTMT RETN CV	VQ	IC833C	IC833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	VQ	IC833C	IC833C	0
A316	1CV3833	CONTMT RETN CV	VQ	IC833T	IC833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	VQ	IC833T	IC833T	0
A316	1MOV651	SDC RETN ISOL	VQ	MV651C	MV651C	0
A316	1MOV651	SDC RETN ISOL	VQ	MV651X	MV651X	0
A316	1MOV651	SDC RETN ISOL	VQ	VQMV01	MV651T	0
A316	1CV5460	U-1 CONTMT ISOL	WJ	BHESH1	Shut	0
A316	1SV5460	U-1 CONTMT ISOL SV	WJ	BHESH1	Shut	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	WJ	BHESH2	Shut	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	WJ	BHESH2	Shut	0
A316	1CV1581	11 CNTMT CLG U NORM INLET	WY	CV581O	CV581O	0
A316	1/P1581	CNTMT CLR 11 SERV WTR INLT	WY	CV581O	CV581O	0
A316	1SV1581	CNTMT CLR 11 INLT VLV CONTROL	WY	CV581O	CV581O	0
A316	1CV1582	11 CNTMT CLG U EMER DISCH	WY	CV582O	CV582O	0
A316	1SV1582	CNTMT CLR 11 SERV WTR OUT	WY	CV582O	CV582O	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	CV584O	CV584O	0
A221	1/P1584	CNTMT CLR 12 SERV WTR INLT	WY	CV584O	CV584O	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	CV584O	CV584O	0
A316	1CV1589	13 CNTMT CLG U NORM INLET	WY	CV589O	CV589O	0
A316	1/P1589	CNTMT CLR 13 SERV WTR INLT	WY	CV589O	CV589O	0
A316	1SV1589	CNTMT CLR 13 INLT VLV CONTROL	WY	CV589O	CV589O	0
A316	1CV1590	13 CNTMT CLG U EMER DISCH	WY	CV590O	CV590O	0
A316	1SV1590	CNTMT CLR 13 OUTLT VLV CONTROL	WY	CV590O	CV590O	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	CV592O	CV592O	0
A221	1/P1592	CNTMT CLR 14 SERV WTR INLT	WY	CV592O	CV592O	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	CV592O	CV592O	0
A316	1CV1581	11 CNTMT CLG U NORM INLET	WY	WA102F	CV581P	0
A316	1/P1581	CNTMT CLR 11 SERV WTR INLT	WY	WA102F	CV581P	0
A316	1SV1581	CNTMT CLR 11 INLT VLV CONTROL	WY	WA102F	CV581P	0
A316	1CV1582	11 CNTMT CLG U EMER DISCH	WY	WAHVCV	CV582P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	1SV1582	CNTMT CLR 11 SERV WTR OUT	WY	WAHVCV	CV582P	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	WB102F	CV584P	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	WB102F	CV584P	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	WB102F	CV584P	0
A316	1CV1589	13 CNTMT CLG U NORM INLET	WY	WC102F	CV589P	0
A316	1I/P1589	CNTMT CLR 13 SERV WTR INLT	WY	WC102F	CV589P	0
A316	1SV1589	CNTMT CLR 13 INLT VLV CONTROL	WY	WC102F	CV589P	0
A316	1CV1590	13 CNTMT CLG U EMER DISCH	WY	WCHVCV	CV590P	0
A316	1SV1590	CNTMT CLR 13 OUTLT VLV CONTROL	WY	WCHVCV	CV590P	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	WD102F	CV592P	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	WD102F	CV592P	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	WD102F	CV592P	0

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**Flood Evaluation Query****CF-18A-M421AM***19-Nov-98*

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<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
GG	F	EDG 1B fails.	PAJ
M1	1BKR	1 breaker challenge.	PAJ

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ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A421	1MCC1BG	1B EDG MCC 1BG	GG	BU12GR	BU12GR	7
A421	1EDG1BG	EDG 1B GENERATOR	GG	DGA12D	DGA12D	7
A421	1EDG1BG	EDG 1B GENERATOR	GG	DGA12R	DGA12R	7
A421	1EDG1BG	EDG 1B GENERATOR	GG	DGA12W	DGA12W	7
A421	1SV4834	1B DG AIR START VALVE (AS1)	GG	FF834O	FF834O	0
A421	1CV4834	1B DG STARTING AIR DIESEL AIR START CONTROL VALVE	GG	FF834O	FF834O	7
A421	1SV4835	1B DG AIR START VLV (AS2)	GG	FF835O	FF835O	0
A421	1CV4835	1B DG STARTING AIR DIESEL AIR START CONTROL VALVE	GG	FF835O	FF835O	7
A421	1COMP4833	1B EDG AIR COMPR	GG	GGAIRE	MSD2EP	7
A421	1ACC4835	1B DG AIR RECEIVER EAST HDR	GG	GGAIRE	MSD2ER	7
A421	1YS4835	1B DG FO START AIR STRAIN	GG	GGAIRE	YS835P	7
A421	1ACC4834	1B DG AIR RECEIVER WEST HDR	GG	GGAIRW	MSD2WP	7
A421	1ACC4834	1B DG AIR RECEIVER WEST HDR	GG	GGAIRW	MSD2WR	7
A421	1YS4834	1B DG FO START AIR STRAIN	GG	GGAIRW	YS834P	7
A421	1DISC83-10411	1B EDG INTERMEDIATE XFER DISC - MCC 104R	GG	GGB12G	RY411P	7
A421	1DISC83-1BG05	1B DG MCC 12G XFER DISC	GG	GGB12G	RYG05T	7
A421	1DISC83-1BG06	1B DG MCC 12G XFER DISC	GG	GGB12G	RYG06P	7
A421	1HS4819	DIESEL 1B FO TRANSFER PMP CONT	GG	GGFOE2	HS819T	7
A421	1YS4819	1B DG FO TRANSFER STRAINER	GG	GGFOE2	YS819P	7
A421	1LS4819	1B EDG FO DAY TK HI LS - XFER PP STOP	GG	GGFOE3	LS819R	7
A421	1PUMPDFOXFR1B	1B DG FO XFER PUMP (1M1BG02)	GG	GGFOE3	MFG12R	7
A421	1LS4819	1B EDG FO DAY TK HI LS - XFER PP STOP	GG	GGFOE4	LS819D	7
A421	1PUMPDFOXFR1B	1B DG FO XFER PUMP (1M1BG02)	GG	GGFOE4	MFG12S	7
A421	1YS4823	1B DG FO STRAINER	GG	GGFOEX	YS823P	7
A421	1DISC189-1403A	DG 1B TO DISC SW 1NA403	GG	GGOUTT	LK06AT	7
A421	1RY1B/151G	EDG 1B GROUND OVERCURRENT REL	GG	GGOUTT	RYC11T	7
A421	1RY1B/132	EDG 1B REVERSE POWER RELAY	GG	GGOUTT	RYC31T	7
A421	1RY1B/140	EDG 1B LOSS OF FIELD RELAY	GG	GGOUTT	RYC41T	7
A421	1RY1DG1BD/186A	1B DG GEN LOCKOUT AUX RELAY	GG	GGOUTT	RYC63T	7
A421	1RY1B/187	EDG 1B DIFFERENTIAL RELAY	GG	GGOUTT	RYC71T	7
A421	1RY1B/181U/DB	EDG 1B UNDER REQUENCY RELAY	GG	GGOUTT	RYC81T	7
A421	1RY1B/194	12 DG U/F & REVERSE PWR RELAY	GG	GGOUTT	RYC91T	7
A421	1RY1DG1BA/SDR	1B EDG ENGINE CNTRL RY - SHUTDOWN	GG	GGOUTT	RYCD1T	7
A421	1RY1DG1BA/SDRX3	EDG 1B SHUTDOWN AUX RELAY	GG	GGOUTT	RYCD3T	7
A421	1RY1DG1BA/ERA	1B EDG ENGINE CNTRL RY - ENGINE NORMAL SPEED	GG	GGRLYB	RYCERE	7
A421	1RY1DG1BA/4A	1B DG AIR START BLOCK RELAY	GG	GGRYST	RYB4AD	7
A421	1RY1DG1BA/4B	1B DG AIR START BLOCK RELAY	GG	GGRYST	RYB4BD	7
A421	1HX4786	1B DG LUBE OIL COOLER	GG	GGSRWE	HX012B	7
A421	1HX4776	1B DG AIR COOLER	GG	GGSRWE	HXB12B	7
A421	1HX4776	1B DG AIR COOLER	GG	GGSRWE	HXB12P	7
A421	1HX4786	1B DG LUBE OIL COOLER	GG	GGSRWE	HX012P	7
A421	1HX4806	1B DG JACKET WATER COOLER	GG	GGSRWE	HXW12P	7
A421	1HS5431	DIESEL RM 1B COOLING FAN CONT	GG	GGVEN2	PO433O	7
A421	1PO5431	DIESEL RM 1B EXHAUST DAMPER	GG	GGVEN2	PO433O	7
A421	1SV5431	DIESEL RM 1B EXHAUST DAMPER	GG	GGVEN2	PO433O	0
A421	1SV5432	DIESEL GEN RM 1B SUPPLY DMPRS	GG	GGVEN2	PO434O	0
A421	1HS5432	DIESEL GEN RM 1B VENT FAN 1B	GG	GGVEN2	PO434O	0
A421	1PO5432	DIESEL RM 1B SUPPLY DAMPERS	GG	GGVEN2	PO434O	7
A421	1HS5432	DIESEL GEN RM 1B VENT FAN 1B	GG	GGVEN2	PP34AC	0
A421	1PO5432A	DIESEL RM 1B SUPPLY DAMPER	GG	GGVEN2	PP34AC	7
A421	1SV5432	DIESEL GEN RM 1B SUPPLY DMPRS	GG	GGVEN2	PP34AC	0
A421	1RY42/1BBG01	CNTRLS 1B DG RM VENTILATION	GG	GGVEN2	RYB42E	7
A421	1FANHVACEDGS1B	1B DG RM SPLY FAN (1M1BG01)	GG	GGVEN2	VDV12S	7
A421	1HS5431	DIESEL RM 1B COOLING FAN CONT	GG	GGVENT	HS433T	7
A421	1PCV5432	AIR SUPPLY TO EDG 1B VENT DAMPER	GG	GGVENT	PC434R	7
A421	1SV5431	DIESEL RM 1B EXHAUST DAMPER	GG	GGVENT	PO433P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A421	1PO5431	DIESEL RM 1B EXHAUST DAMPER	GG	GGVENT	PO433P	7
A421	1HS5431	DIESEL RM 1B COOLING FAN CONT	GG	GGVENT	PO433P	7
A421	1HS5432	DIESEL GEN RM 1B VENT FAN 1B	GG	GGVENT	PO434P	0
A421	1SV5432	DIESEL GEN RM 1B SUPPLY DMPRS	GG	GGVENT	PO434P	0
A421	1PO5432	DIESEL RM 1B SUPPLY DAMPERS	GG	GGVENT	PO434P	7
A421	1PO5432A	DIESEL RM 1B SUPPLY DAMPER	GG	GGVENT	PP34AT	7
A421	1SV5432	DIESEL GEN RM 1B SUPPLY DMPRS	GG	GGVENT	PP34AT	0
A421	1HS5432	DIESEL GEN RM 1B VENT FAN 1B	GG	GGVENT	PP34AT	0
A421	1RY42/1BBG01	CNTRLS 1B DG RM VENTILATION	GG	GGVENT	RYB42P	7
A421	1TC5432	1 HVAC/A DIESEL RM 1B FAN D TC	GG	GGVENT	TC434R	7
A421	1SV1588	1B DG CLR SW IN CNTR VLV SOL	GG	GV287P	GV287P	0
A421	1CV1588	1B DG SRW SUPPLY WATER SUPPLY CONTROL VALVE	GG	GV287P	GV287P	7
A421	1CV1588	1B DG SRW SUPPLY WATER SUPPLY CONTROL VALVE	GG	GVD12O	GVD12O	7
A421	1SV1588	1B DG CLR SW IN CNTR VLV SOL	GG	GVD12O	GVD12O	0
A421	1RY1DG18A/5A	EDG 1B AUX STOP RELAY	GG	RYB5AT	RYB5AT	7
A421	1RY1DG18A/LSAX	1B EDG ENGINE CNTRL RY - ENGINE LOW SPEED AUX	GG	RYBAXE	RYBAXE	7
A421	1FANHVACEDGS1B	1B DG RM SPLY FAN (1M1BG01)	GG	VDV12R	VDV12R	7
A421	1MCC1BG	1B EDG MCC 1BG	M1	BUM11Q	BUM11Q	7



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**Flood Evaluation Query****CF-18B-M421AN \****19-Nov-98*

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<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
GG	F	EDG 1B fails.	PAJ
M1	1BKR	1 breaker challenge.	PAJ

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\* This Flood is deleted. See note 12 in  
RAN 98-065 sect 5.4.

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A421	1MCC1BG	1B EDG MCC 1BG	GG	BU12GR	BU12GR	7
A421	1EDG1BG	EDG 1B GENERATOR	GG	DGA12D	DGA12D	7
A421	1EDG1BG	EDG 1B GENERATOR	GG	DGA12R	DGA12R	7
A421	1EDG1BG	EDG 1B GENERATOR	GG	DGA12W	DGA12W	7
A421	1CV4834	1B DG STARTING AIR DIESEL AIR START CONTROL VALVE	GG	FF834O	FF834O	7
A421	1SV4834	1B DG AIR START VALVE (AS1)	GG	FF834O	FF834O	0
A421	1CV4835	1B DG STARTING AIR DIESEL AIR START CONTROL VALVE	GG	FF835O	FF835O	7
A421	1SV4835	1B DG AIR START VLV (AS2)	GG	FF835O	FF835O	0
A421	1COMP4833	1B EDG AIR COMPR	GG	GGAIRE	MSD2EP	7
A421	1ACC4835	1B DG AIR RECEIVER EAST HDR	GG	GGAIRE	MSD2ER	7
A421	1YS4835	1B DG FO START AIR STRAIN	GG	GGAIRE	YS835P	7
A421	1ACC4834	1B DG AIR RECEIVER WEST HDR	GG	GGAIRW	MSD2WP	7
A421	1ACC4834	1B DG AIR RECEIVER WEST HDR	GG	GGAIRW	MSD2WR	7
A421	1YS4834	1B DG FO START AIR STRAIN	GG	GGAIRW	YS834P	7
A421	1DISC83-10411	1B EDG INTERMEDIATE XFER DISC - MCC 104R	GG	GGB12G	RY411P	7
A421	1DISC83-1BG05	1B DG MCC 12G XFER DISC	GG	GGB12G	RYG05T	7
A421	1DISC83-1BG06	1B DG MCC 12G XFER DISC	GG	GGB12G	RYG06P	7
A421	1HS4819	DIESEL 1B FO TRANSFER PMP CONT	GG	GGFOE2	HS819T	7
A421	1YS4819	1B DG FO TRANSFER STRAINER	GG	GGFOE2	YS819P	7
A421	1LS4819	1B EDG FO DAY TK HI LS - XFER PP STOP	GG	GGFOE3	LS819R	7
A421	1PUMPDOXFR1B	1B DG FO XFER PUMP (1M1BG02)	GG	GGFOE3	MFG12R	7
A421	1LS4819	1B EDG FO DAY TK HI LS - XFER PP STOP	GG	GGFOE4	LS819D	7
A421	1PUMPDOXFR1B	1B DG FO XFER PUMP (1M1BG02)	GG	GGFOE4	MFG12S	7
A421	1YS4823	1B DG FO STRAINER	GG	GGFOEX	YS823P	7
A421	1DISC189-1403A	DG 1B TO DISC SW 1NA403	GG	GGOUTT	LK06AT	7
A421	1RY1B/151G	EDG 1B GROUND OVERCURRENT REL	GG	GGOUTT	RYC11T	7
A421	1RY1B/132	EDG 1B REVERSE POWER RELAY	GG	GGOUTT	RYC31T	7
A421	1RY1B/140	EDG 1B LOSS OF FIELD RELAY	GG	GGOUTT	RYC41T	7
A421	1RY1DG1BD/186A	1B DG GEN LOCKOUT AUX RELAY	GG	GGOUTT	RYC63T	7
A421	1RY1B/187	EDG 1B DIFFERENTIAL RELAY	GG	GGOUTT	RYC71T	7
A421	1RY1B/181U/DB	EDG 1B UNDER REQUENCY RELAY	GG	GGOUTT	RYC81T	7
A421	1RY1B/194	12 DG U/F & REVERSE PWR RELAY	GG	GGOUTT	RYC91T	7
A421	1RY1DG1BA/SDR	1B EDG ENGINE CNTRL RY - SHUTDOWN	GG	GGOUTT	RYCD1T	7
A421	1RY1DG1BA/SDRX3	EDG 1B SHUTDOWN AUX RELAY	GG	GGOUTT	RYCD3T	7
A421	1RY1DG1BA/ERA	1B EDG ENGINE CNTRL RY - ENGINE NORMAL SPEED	GG	GGRLYB	RYCERE	7
A421	1RY1DG1BA/4A	1B DG AIR START BLOCK RELAY	GG	GGRYST	RYB4AD	7
A421	1RY1DG1BA/4B	1B DG AIR START BLOCK RELAY	GG	GGRYST	RYB4BD	7
A421	1HX4786	1B DG LUBE OIL COOLER	GG	GGSRWE	HX012B	7
A421	1HX4776	1B DG AIR COOLER	GG	GGSRWE	HXB12B	7
A421	1HX4776	1B DG AIR COOLER	GG	GGSRWE	HXB12P	7
A421	1HX4786	1B DG LUBE OIL COOLER	GG	GGSRWE	HX012P	7
A421	1HX4806	1B DG JACKET WATER COOLER	GG	GGSRWE	HXW12P	7
A421	1HS5431	DIESEL RM 1B COOLING FAN CONT	GG	GGVEN2	PO433O	7
A421	1PO5431	DIESEL RM 1B EXHAUST DAMPER	GG	GGVEN2	PO433O	7
A421	1SV5431	DIESEL RM 1B EXHAUST DAMPER	GG	GGVEN2	PO433O	0
A421	1HS5432	DIESEL GEN RM 1B VENT FAN 1B	GG	GGVEN2	PO434O	0
A421	1PO5432	DIESEL RM 1B SUPPLY DAMPERS	GG	GGVEN2	PO434O	7
A421	1SV5432	DIESEL GEN RM 1B SUPPLY DMPRS	GG	GGVEN2	PO434O	0
A421	1HS5432	DIESEL GEN RM 1B VENT FAN 1B	GG	GGVEN2	PP34AC	0
A421	1PO5432A	DIESEL RM 1B SUPPLY DAMPER	GG	GGVEN2	PP34AC	7
A421	1SV5432	DIESEL GEN RM 1B SUPPLY DMPRS	GG	GGVEN2	PP34AC	0
A421	1RY42/1BBG01	CNTRLS 1B DG RM VENTILATION	GG	GGVEN2	RYB42E	7
A421	1FANHVACEDGS1B	1B DG RM SPLY FAN (1M1BG01)	GG	GGVEN2	VDV12S	7
A421	1HS5431	DIESEL RM 1B COOLING FAN CONT	GG	GGVENT	HS433T	7
A421	1PCV5432	AIR SUPPLY TO EDG 1B VENT DAMPER	GG	GGVENT	PC434R	7
A421	1HS5431	DIESEL RM 1B COOLING FAN CONT	GG	GGVENT	PO433P	7

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A421	1PO5431	DIESEL RM 1B EXHAUST DAMPER	GG	GGVENT	PO433P	7
A421	1SV5431	DIESEL RM 1B EXHAUST DAMPER	GG	GGVENT	PO433P	0
A421	1HS5432	DIESEL GEN RM 1B VENT FAN 1B	GG	GGVENT	PO434P	0
A421	1PO5432	DIESEL RM 1B SUPPLY DAMPERS	GG	GGVENT	PO434P	7
A421	1SV5432	DIESEL GEN RM 1B SUPPLY DMPRS	GG	GGVENT	PO434P	0
A421	1HS5432	DIESEL GEN RM 1B VENT FAN 1B	GG	GGVENT	PP34AT	0
A421	1PO5432A	DIESEL RM 1B SUPPLY DAMPER	GG	GGVENT	PP34AT	7
A421	1SV5432	DIESEL GEN RM 1B SUPPLY DMPRS	GG	GGVENT	PP34AT	0
A421	1RY42/1BBG01	CNTRLS 1B DG RM VENTILATION	GG	GGVENT	RYB42P	7
A421	1TC5432	1 HVAC/A DIESEL RM 1B FAN D TC	GG	GGVENT	TC434R	7
A421	1CV1588	1B DG SRW SUPPLY WATER SUPPLY CONTROL VALVE	GG	GV287P	GV287P	7
A421	1SV1588	1B DG CLR SW IN CNTR VLV SOL	GG	GV287P	GV287P	0
A421	1CV1588	1B DG SRW SUPPLY WATER SUPPLY CONTROL VALVE	GG	GVD12O	GVD12O	7
A421	1SV1588	1B DG CLR SW IN CNTR VLV SOL	GG	GVD12O	GVD12O	0
A421	1RY1DG1BA/5A	EDG 1B AUX STOP RELAY	GG	RYB5AT	RYB5AT	7
A421	1RY1DG1BA/LSAX	1B EDG ENGINE CNTRL RY - ENGINE LOW SPEED AUX	GG	RYBAXE	RYBAXE	7
A421	1FANHVACEDGS1B	1B DG RM SPLY FAN (1M1BG01)	GG	VDV12R	VDV12R	7
A421	1MCC18G	1B EDG MCC 18G	M1	BUM11Q	BUM11Q	7

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**Flood Evaluation Query****CF-19A-M422AM***19-Nov-98*

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<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
GH	F	EDG 2A fails.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenge.</del>	<del>PAJ</del>

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ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A422	2GENEDG2A	EDG 2A GENERATOR	GH	DGA11D	DGA11D	7
A422	2GENEDG2A	EDG 2A GENERATOR	GH	DGA11R	DGA11R	7
A422	2GENEDG2A	EDG 2A GENERATOR	GH	DGA11W	DGA11W	7
A422	2CV4830	2A DG START AIR CONTROL VALVE	GH	FF8300	FF8300	7
A422	2SV4830	2A DG AIR START VALVE (AS1)	GH	FF8300	FF8300	0
A422	2CV4831	2A DG START AIR DIESEL AIR START CONTROL VALVE	GH	FF8310	FF8310	7
A422	2SV4831	2A DG AIR START VALVE (AS2)	GH	FF8310	FF8310	0
A422	2ACC4830	2A DG AIR RECEIVER EAST HDR	GH	GHAIRE	MSD11P	7
A422	2ACC4830	2A DG AIR RECEIVER EAST HDR	GH	GHAIRE	MSD11R	7
A422	2YS4831	2A DG START AIR STRAINER	GH	GHAIRE	YS831P	7
A422	2ACC4831	2A DG AIR RECEIVER WEST HDR	GH	GHAIRW	MSD1WP	7
A422	2ACC4831	2A DG AIR RECEIVER WEST HDR	GH	GHAIRW	MSD1WR	7
A422	2YS4830	2A DG W START AIR STRAINER	GH	GHAIRW	YS830P	7
A422	2MCC2AG	480V MCC 2AG	GH	GHC11G	BU11GR	6
A422	2HS4814	DIESEL 2A FO TRANSFER PUMP CONT	GH	GHFOE2	HS814T	7
A422	2LS4814	2A DG FO TRANSFER PMP STOP	GH	GHFOE2	LS814R	7
A422	2YS4814	2A DG FUEL OIL STRAINER	GH	GHFOE2	YS814P	7
A422	2PUMPDOXFR2A	2A DG FO XFER PUMP (2M2AG02)	GH	GHFOE3	MFG11R	7
A422	2LS4816	2A DG FO DAY TANK START	GH	GHFOE4	LS816D	7
A422	2PUMPDOXFR2A	2A DG FO XFER PUMP (2M2AG02)	GH	GHFOE4	MFG11S	7
A422	2YS4818	2A DG FUEL OIL STRAINER	GH	GHFOEX	YS818P	7
A422	2DISC189-2103A	2A DG TO DISC SW 2NA103	GH	GHOUTT	LK03AT	7
A422	2RY2A/151G	DG 2A GROUND OVERCURRENT RELY	GH	GHOUTT	RYX11T	7
A422	2RY2A/132	DG 2A REVERSE POWER RELAY	GH	GHOUTT	RYX32T	7
A422	2RY2A/140	DG 2A LOSS OF FIELD RELAY	GH	GHOUTT	RYX41T	7
A422	2RY2A/186	DG 2A GEN LOCKOUT RELAY	GH	GHOUTT	RYX83T	7
A422	2RY2A/187	DG 2A DIFFERENTIAL RELAY	GH	GHOUTT	RYX71T	7
A422	2RY2A/181U/DB	DG 2A UNDER FREQUENCY RELAY	GH	GHOUTT	RYX81T	7
A422	2RY2A/194	DG 2A U/F & RESERVE PWR RELAY	GH	GHOUTT	RYX91T	7
A422	2RY2DG2AA/SDR	EDG 2A SHUTDOWN RELAY	GH	GHOUTT	RYXE2T	7
A422	2RY2DG2AA/SDRX	EDG 2A SHUTDOWN AUX RELAY	GH	GHOUTT	RYXSXT	7
A422	2RY2DG2AA/ERA	EDG 2A ENG NORMAL SPEED RELAY	GH	GHRYL B	RYXE1E	7
A422	2RY2DG2AA/4A	EDG 2A AIR START BLOCK RELAY	GH	GHRYST	RYA4AD	7
A422	2RY2DG2AA/4B	EDG 2A AIR START BLOCK RELAY	GH	GHRYST	RYA4BD	7
A422	2HX4775	2A DG AIR COOLER	GH	GHSRWE	HXA11B	7
A422	2HX4775	2A DG AIR COOLER	GH	GHSRWE	HXA11P	7
A422	2HX4778	2A DG LUBE OIL COOLER	GH	GHSRWE	HXO11B	7
A422	2HX4778	2A DG LUBE OIL COOLER	GH	GHSRWE	HXO11P	7
A422	2HX4802	2A DG JACKET WTR CLR	GH	GHSRWE	HXW11P	7
A422	2HS5429	DIESEL RM 2A COOLING FAN CONT	GH	GHVEN2	PO429O	7
A422	2PO5429	2A DG ROOM VENTILATION EXHAUST DAMPER	GH	GHVEN2	PO429O	7
A422	2SV5429	2 HVAC/A DIESEL GEN RM 2A EXH D SV	GH	GHVEN2	PO429O	7
A422	2HS5430	DIESEL GEN RM 2A VENT FAN 11	GH	GHVEN2	PO430O	0
A422	2PO5430	2A DG ROOM VENTILATION FAN RECIRC DAMPER	GH	GHVEN2	PO430O	7
A422	2SV5430	2 HVAC/A DIESEL GEN RM 2A SUPPLY D SV	GH	GHVEN2	PO430O	7
A422	2HS5430	DIESEL GEN RM 2A VENT FAN 11	GH	GHVEN2	PP30AC	0
A422	2PO5430A	2A DG ROOM VENTILATION FAN SUPPLY DAMPER	GH	GHVEN2	PP30AC	7
A422	2SV5430	2 HVAC/A DIESEL GEN RM 2A SUPPLY D SV	GH	GHVEN2	PP30AC	7
A422	2RY42/2BAG01	CONTROLS DG 2A RM VENT	GH	GHVEN2	RYA42E	7
A422	2FANHVACEDGS2A	2A DG RM SPLY FAN (2M2AG01)	GH	GHVEN2	VDV11S	7
A422	2HS5429	DIESEL RM 2A COOLING FAN CONT	GH	GHVENT	HS429T	7
A422	2PCV5430	U-1 IA SUPPLY TO 2A DG ROOM HVAC CONTROLS PRESSURE CONT	GH	GHVENT	PC430R	7
A422	2HS5429	DIESEL RM 2A COOLING FAN CONT	GH	GHVENT	PO429P	7
A422	2PO5429	2A DG ROOM VENTILATION EXHAUST DAMPER	GH	GHVENT	PO429P	7
A422	2SV5429	2 HVAC/A DIESEL GEN RM 2A EXH D SV	GH	GHVENT	PO429P	7
A422	2HS5430	DIESEL GEN RM 2A VENT FAN 11	GH	GHVENT	PO430P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A422	2PO5430	2A DG ROOM VENTILATION FAN RECIRC DAMPER	GH	GHVENT	PO430P	7
A422	2SV5430	2 HVAC/A DIESEL GEN RM 2A SUPPLY D SV	GH	GHVENT	PO430P	7
A422	2HS5430	DIESEL GEN RM 2A VENT FAN 11	GH	GHVENT	PP30AT	0
A422	2PO5430A	2A DG ROOM VENTILATION FAN SUPPLY DAMPER	GH	GHVENT	PP30AT	7
A422	2SV5430	2 HVAC/A DIESEL GEN RM 2A SUPPLY D SV	GH	GHVENT	PP30AT	7
A422	2RY42/2BAG01	CONTROLS DG 2A RM VENT	GH	GHVENT	RYA42P	7
A422	2TC5430	DIESEL RM 2A FAN DAMPERS CONT	GH	GHVENT	TC430R	7
A422	2CV1588	DIESEL CLR 2A SERV WTR INLET	GH	GV588O	GV588O	7
A422	2SV1588	2A DG CLR SW IN CNTR VLV SOL	GH	GV588O	GV588O	0
A422	2CV1588	DIESEL CLR 2A SERV WTR INLET	GH	GV588P	GV588P	7
A422	2SV1588	2A DG CLR SW IN CNTR VLV SOL	GH	GV588P	GV588P	0
A422	2RY2DG2AA/5A	EDG 2A AUX STOP RELAY	GH	RYA5AT	RYA5AT	7
A422	2FANHVACEDGS2A	2A DG RM SPLY FAN (2M2AG01)	GH	VDV11R	VDV11R	7
A422	2MCC2AG	480V MCC 2AG	M4	BUN11Q	BUN11Q	6

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**Flood Evaluation Query****CF-19B-M422AN \***

19-Nov-98

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<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
GH	F	EDG 2A fails.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenge.</del>	<del>PAJ</del>

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\* This flood is deleted. see note 12 in  
RAN 98-065 sect 5.4

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A422	2GENEDG2A	EDG 2A GENERATOR	GH	DGA11D	DGA11D	7
A422	2GENEDG2A	EDG 2A GENERATOR	GH	DGA11R	DGA11R	7
A422	2GENEDG2A	EDG 2A GENERATOR	GH	DGA11W	DGA11W	7
A422	2CV4830	2A DG START AIR CONTROL VALVE	GH	FF830O	FF830O	7
A422	2SV4830	2A DG AIR START VALVE (AS1)	GH	FF830O	FF830O	0
A422	2CV4831	2A DG START AIR DIESEL AIR START CONTROL VALVE	GH	FF831O	FF831O	7
A422	2SV4831	2A DG AIR START VALVE (AS2)	GH	FF831O	FF831O	0
A422	2ACC4830	2A DG AIR RECEIVER EAST HDR	GH	GHAIRE	MSD11P	7
A422	2ACC4830	2A DG AIR RECEIVER EAST HDR	GH	GHAIRE	MSD11R	7
A422	2YS4831	2A DG START AIR STRAINER	GH	GHAIRE	YS831P	7
A422	2ACC4831	2A DG AIR RECEIVER WEST HDR	GH	GHAIRW	MSD1WP	7
A422	2ACC4831	2A DG AIR RECEIVER WEST HDR	GH	GHAIRW	MSD1WR	7
A422	2YS4830	2A DG W START AIR STRAINER	GH	GHAIRW	YS830P	7
A422	2MCC2AG	480V MCC 2AG	GH	GHC11G	BU11GR	6
A422	2HS4814	DIESEL 2A FO TRANSFER PUMP CONT	GH	GHFOE2	HS814T	7
A422	2LS4814	2A DG FO TRANSFER PMP STOP	GH	GHFOE2	LS814R	7
A422	2YS4814	2A DG FUEL OIL STRAINER	GH	GHFOE2	YS814P	7
A422	2PUMPDFOXFR2A	2A DG FO XFER PUMP (2M2AG02)	GH	GHFOE3	MFG11R	7
A422	2LS4816	2A DG FO DAY TANK START	GH	GHFOE4	LS816D	7
A422	2PUMPDFOXFR2A	2A DG FO XFER PUMP (2M2AG02)	GH	GHFOE4	MFG11S	7
A422	2YS4818	2A DG FUEL OIL STRAINER	GH	GHFOEX	YS818P	7
A422	2DISC189-2103A	2A DG TO DISC SW 2NA103	GH	GHOUTT	LK03AT	7
A422	2RY2A/151G	DG 2A GROUND OVERCURRENT RELY	GH	GHOUTT	RYX11T	7
A422	2RY2A/132	DG 2A REVERSE POWER RELAY	GH	GHOUTT	RYX32T	7
A422	2RY2A/140	DG 2A LOSS OF FIELD RELAY	GH	GHOUTT	RYX41T	7
A422	2RY2A/186	DG 2A GEN LOCKOUT RELAY	GH	GHOUTT	RYX63T	7
A422	2RY2A/187	DG 2A DIFFERENTIAL RELAY	GH	GHOUTT	RYX71T	7
A422	2RY2A/181U/DB	DG 2A UNDER FREQUENCY RELAY	GH	GHOUTT	RYX81T	7
A422	2RY2A/194	DG 2A U/F & RESERVE PWR RELAY	GH	GHOUTT	RYX91T	7
A422	2RY2DG2AA/SDR	EDG 2A SHUTDOWN RELAY	GH	GHOUTT	RYXE2T	7
A422	2RY2DG2AA/SDRX	EDG 2A SHUTDOWN AUX RELAY	GH	GHOUTT	RYXSXT	7
A422	2RY2DG2AA/ERA	EDG 2A ENG NORMAL SPEED RELAY	GH	GHRYL B	RYXE1E	7
A422	2RY2DG2AA/4A	EDG 2A AIR START BLOCK RELAY	GH	GHRYS T	RYA4AD	7
A422	2RY2DG2AA/4B	EDG 2A AIR START BLOCK RELAY	GH	GHRYS T	RYA4BD	7
A422	2HX4775	2A DG AIR COOLER	GH	GHSRWE	HXA11B	7
A422	2HX4775	2A DG AIR COOLER	GH	GHSRWE	HXA11P	7
A422	2HX4778	2A DG LUBE OIL COOLER	GH	GHSRWE	HXO11B	7
A422	2HX4778	2A DG LUBE OIL COOLER	GH	GHSRWE	HXO11P	7
A422	2HX4802	2A DG JACKET WTR CLR	GH	GHSRWE	HXW11P	7
A422	2HS5429	DIESEL RM 2A COOLING FAN CONT	GH	GHVEN2	PO429O	7
A422	2PO5429	2A DG ROOM VENTILATION EXHAUST DAMPER	GH	GHVEN2	PO429O	7
A422	2SV5429	2 HVAC/A DIESEL GEN RM 2A EXH D SV	GH	GHVEN2	PO429O	7
A422	2HS5430	DIESEL GEN RM 2A VENT FAN 11	GH	GHVEN2	PO430O	0
A422	2PO5430	2A DG ROOM VENTILATION FAN RECIRC DAMPER	GH	GHVEN2	PO430O	7
A422	2SV5430	2 HVAC/A DIESEL GEN RM 2A SUPPLY D SV	GH	GHVEN2	PO430O	7
A422	2HS5430	DIESEL GEN RM 2A VENT FAN 11	GH	GHVEN2	PP30AC	0
A422	2PO5430A	2A DG ROOM VENTILATION FAN SUPPLY DAMPER	GH	GHVEN2	PP30AC	7
A422	2SV5430	2 HVAC/A DIESEL GEN RM 2A SUPPLY D SV	GH	GHVEN2	PP30AC	7
A422	2RY42/2BAG01	CONTROLS DG 2A RM VENT	GH	GHVEN2	RYA42E	7
A422	2FANHVACEDGS2A	2A DG RM SPLY FAN (2M2AG01)	GH	GHVEN2	VDV11S	7
A422	2HS5429	DIESEL RM 2A COOLING FAN CONT	GH	GHVENT	HS429T	7
A422	2PCV5430	U-1 IA SUPPLY TO 2A DG ROOM HVAC CONTROLS PRESS	GH	GHVENT	PC430R	7
A422	2HS5429	DIESEL RM 2A COOLING FAN CONT	GH	GHVENT	PO429P	7
A422	2PO5429	2A DG ROOM VENTILATION EXHAUST DAMPER	GH	GHVENT	PO429P	7
A422	2SV5429	2 HVAC/A DIESEL GEN RM 2A EXH D SV	GH	GHVENT	PO429P	7
A422	2HS5430	DIESEL GEN RM 2A VENT FAN 11	GH	GHVENT	PO430P	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A422	2PO5430	2A DG ROOM VENTILATION FAN RECIRC DAMPER	GH	GHVENT	PO430P	7
A422	2SV5430	2 HVAC/A DIESEL GEN RM 2A SUPPLY D SV	GH	GHVENT	PO430P	7
A422	2HS5430	DIESEL GEN RM 2A VENT FAN 11	GH	GHVENT	PP30AT	0
A422	2PO5430A	2A DG ROOM VENTILATION FAN SUPPLY DAMPER	GH	GHVENT	PP30AT	7
A422	2SV5430	2 HVAC/A DIESEL GEN RM 2A SUPPLY D SV	GH	GHVENT	PP30AT	7
A422	2RY42/2BAG01	CONTROLS DG 2A RM VENT	GH	GHVENT	RYA42P	7
A422	2TC5430	DIESEL RM 2A FAN DAMPERS CONT	GH	GHVENT	TC430R	7
A422	2CV1588	DIESEL CLR 2A SERV WTR INLET	GH	GV588O	GV588O	7
A422	2SV1588	2A DG CLR SW IN CNTR VLV SOL	GH	GV588O	GV588O	0
A422	2CV1588	DIESEL CLR 2A SERV WTR INLET	GH	GV588P	GV588P	7
A422	2SV1588	2A DG CLR SW IN CNTR VLV SOL	GH	GV588P	GV588P	0
A422	2RY2DG2AA/5A	EDG 2A AUX STOP RELAY	GH	RYA5AT	RYA5AT	7
A422	2FANHVACEDGS2A	2A DG RM SPLY FAN (2M2AG01)	GH	VDV11R	VDV11R	7
A422	2MCC2AG	480V MCC 2AG	M4	BUN11Q	BUN11Q	6

# Flood Evaluation Query

CF-20A-M428AM (note 46) \*

23-Nov-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
DL	Spec Impt	11A and 11B LPSI Loop Isol MOVs (1MOV615 and 1MOV625), Fail to Open on Demand. LPSIs only used in large break LOCAs. Flood cannot cause a large break LOCA, therefore this top is not affected for LPSI's. HPSI MOV'S (1MOV616/617/626/627) fail to open on demand. These valves are normally closed and fail as-is. Flow paths via MOV's 636/637/646/647 are still available, therefore this top is only impacted.	PAJ
F1	None <del>Spec Impt</del>	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. (Note 2) * (note 3)	PAJ
F3	None	Steam Admission SV's 1SV4070/4071 are covered under top event F1.	PAJ
FT	Spec Impt	1MOV4516/4517 are normally open and fail as-is. Therefore, if the SGFPs do not trip (which they should), then this top event will fail.	PAJ
HA	F	1MOV617/627 are normally open and fail as-is during this particular scenario. They are normally closed, but when this top event is used, they will be open and need to close in order not to cavitate the HPSI pumps. Other flow paths exist, but we will conservatively fail for now.	PAJ
HB	F	1MOV616/617/626/627 are normally open and fail as-is during this particular scenario. They are normally closed, but when this top event is used, they will be open and need to close in order not to cavitate the HPSI pumps. Other flow paths exist, but we will conservatively fail for now. Operators will be unable to throttle flow.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	F	1MOV616/617/626/627 are normally open and fail as-is during this particular scenario. They are normally closed, but when this top event is used, they will be open and need to close in order not to cavitate the HPSI pumps. Other flow paths exist, but we will conservatively fail for now.	PAJ
HX	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
K3	None	1CV3832/3833/3840/3842 fail closed on loss of power and loss of air.	PAJ
K4	None	1CV3832/3833/3840/3842 fail closed on loss of power and loss of air.	PAJ

\* See notes in RAN 98-065 sect 5.4

TOP	PM	EVALUATION	RI
KS	F	1CV3832/3833 fail closed on loss of power and loss of air.	PAJ
LF	None	1MOV4516/4517 are normally open and fail as-is.	PAJ
M1	8BKR	8 breaker challenges.	PAJ
M2	11BKR	11 breaker challenges.	PAJ
M3	4BKR	4 breaker challenges.	PAJ
<del>M4</del>	<del>3BKR</del>	<del>3 breaker challenges.</del>	<del>PAJ</del>
MC	None	Has 3 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MH	Spec Impt	1CV4070/4071 are normally closed and fail as-is on loss of power. These valves must be locally vented.	PAJ
MN	None	1MOV4516/4517 are normally open and fail as-is.	PAJ
MS	F	1CV4043/4048 are normally open and fail as-is.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4520/4521/4530/4531) are normally open and fail as-is on loss of power.	PAJ

TOP	PM	EVALUATION	RI
RH	F	This human action requires operators to open 1MOV616/617/626/627. These MOVs are normally closed and fail as-is, therefore not allowing operators to open.	PAJ
SG	<del>None</del> Spec-Impt	The hydrogen purge hand switches for MOVs 6901/6902/6903 fail. <sup>(Note 5)</sup> It is assumed that the MOVs will fail to the undesired position. This does impact the top but does not fail it. There is a check valve or MOV downstream of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed. 1MOV2080 has a check valve downstream of the MOV that isolates containment.	PAJ
SI	None	1CV1411/1413 were deleted. No longer as-built. These valves are normally closed and fail closed on loss of power and loss of air.	PAJ
SR	None	1MOV615/625 are normally closed and fail as-is. Both also have a check valve downstream of the MOV to isolate containment.	PAJ
TG	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. Covered under Top F1.	PAJ
UQ	None	1CV4511/4512 will fail open. This top is only fails when an under feed to the SG occurs.	PAJ
VQ	None	1CV38322/3833 fail closed on loss of power and loss of air. 1MOV651 is normally closed and fails as-is.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ
WY	None	1CV1581/1582/1589/1590 fail open on loss of power.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	DL	DLA11A	MV617P	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	DL	DLA11B	MV627P	0
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615O	19
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615P	19
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625O	0
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625P	0
A316	1MOV616	11A HPSI LOOP ISOL	DL	DLM11A	MV616P	0
A316	1MOV626	11B HPSI LOOP ISOL	DL	DLM11B	MV626P	0
A316	1MOV616	11A HPSI LOOP ISOL	DL	MV616O	MV616O	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	DL	MV617O	MV617O	0
A316	1MOV626	11B HPSI LOOP ISOL	DL	MV626O	MV626O	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	DL	MV627O	MV627O	0
A316	1CV4520	11 S/G AFW BLOCK VLV	F1	CV4520	CV520P	0
A316	1SV4520	11 S/G AFW BLOCK SV	F1	CV4520	CV520P	0
A316	1CV4521	11 S/G AFW BLOCK VLV	F1	CV4521	CV521P	0
A316	1SV4521	11 S/G AFW BLOCK SV	F1	CV4521	CV521P	0
A316	1CV4530	12 S/G AFW BLOCK VLV	F1	CV4530	CV530P	0
A316	1SV4530	12 S/G AFW BLOCK SV	F1	CV4530	CV530P	0
A316	1CV4531	12 S/G AFW BLOCK VLV	F1	CV4531	CV531P	0
A316	1SV4531	12 S/G AFW BLOCK SV	F1	CV4531	CV531P	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070O	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070O	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070P	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070P	0
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV70	C870AO	0
A316	1SV4070A	11 S/G AFW MAIN STM BYP VALVE	F1	F1CV70	C870AO	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071O	12
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071O	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071P	12
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071P	0
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV71	C871AO	0
A316	1SV4071A	12 S/G AFW MAIN STM BYP VLV	F1	F1CV71	C871AO	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	F1	F1TLV1	C6511P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511P	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	F1	F1TLV1	C6511R	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511R	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511R	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	F1	F1TLV2	C6512P	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512P	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512P	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	F1	F1TLV2	C6512R	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512R	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F3	BHEF31	Open	0
A316	1SV4070A	11 S/G AFW MAIN STM BYP VALVE	F3	BHEF31	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	F3	BHEF31	Open	0
A316	1SV4071A	12 S/G AFW MAIN STM BYP VLV	F3	BHEF31	Open	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516C	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516T	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517C	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517T	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HA	HATRTL	MV617C	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HA	HATRTL	MV617T	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HA	HATRTL	MV627C	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HA	HATRTL	MV627T	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	HBTRTL	MV616C	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	HBTRTL	MV616T	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	HBTRTL	MV626C	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	HBTRTL	MV626T	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	HU	BHEF1B	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	HU	BHEF1B	Throttle	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HW	HATRTL	MV617C	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HW	HATRTL	MV617T	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HW	HATRTL	MV627C	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HW	HATRTL	MV627T	0
A316	1MOV616	11A HPSI LOOP ISOL	HW	HBTRTL	MV616C	0
A316	1MOV616	11A HPSI LOOP ISOL	HW	HBTRTL	MV616T	0
A316	1MOV626	11B HPSI LOOP ISOL	HW	HBTRTL	MV626C	0
A316	1MOV626	11B HPSI LOOP ISOL	HW	HBTRTL	MV626T	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	HX	BHEF1A	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	HX	BHEF1A	Throttle	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	1CV3832	CONTMT SUPPLY CV	K3	C3832C	C3832C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K3	C3832C	C3832C	0
A316	1CV3832	CONTMT SUPPLY CV	K3	C3832T	C3832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K3	C3832T	C3832T	0
A316	1CV3833	CONTMT RETN CV	K3	C3833C	C3833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K3	C3833C	C3833C	0
A316	1CV3833	CONTMT RETN CV	K3	C3833T	C3833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K3	C3833T	C3833T	0
A419	1CV3840	EVAP INLET CV	K3	C3840C	C3840C	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K3	C3840C	C3840C	0
A419	1CV3840	EVAP INLET CV	K3	C3840T	C3840T	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K3	C3840T	C3840T	0
A419	1CV3842	EVAPS INLET CV	K3	C3842C	C3842C	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K3	C3842C	C3842C	0
A419	1CV3842	EVAPS INLET CV	K3	C3842T	C3842T	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K3	C3842T	C3842T	0
A316	1CV3832	CONTMT SUPPLY CV	K4	C3832C	C3832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K4	C3832C	C3832C	0
A316	1CV3832	CONTMT SUPPLY CV	K4	C3832T	C3832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K4	C3832T	C3832T	0
A316	1CV3833	CONTMT RETN CV	K4	C3833C	C3833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K4	C3833C	C3833C	0
A316	1CV3833	CONTMT RETN CV	K4	C3833T	C3833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K4	C3833T	C3833T	0
A419	1CV3840	EVAP INLET CV	K4	C3840C	C3840C	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K4	C3840C	C3840C	0
A419	1CV3840	EVAP INLET CV	K4	C3840T	C3840T	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K4	C3840T	C3840T	0
A419	1CV3842	EVAPS INLET CV	K4	C3842C	C3842C	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K4	C3842C	C3842C	0
A419	1CV3842	EVAPS INLET CV	K4	C3842T	C3842T	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K4	C3842T	C3842T	0
A316	1CV3832	CONTMT SUPPLY CV	KS	KSCV32	C3832P	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	KS	KSCV32	C3832P	0
A316	1CV3833	CONTMT RETN CV	KS	KSCV33	C3833P	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	KS	KSCV33	C3833P	0
A315	1MOV4516	11 SG FW ISOL	LF	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MNBYP2	MV417P	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516O	MV516O	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516P	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517O	MV517O	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517P	MV517P	0
A316	1MOV616	11A HPSI LOOP ISOL	M1	MVM16Q	MVM16Q	0
A316	1MOV626	11B HPSI LOOP ISOL	M1	MVM17Q	MVM17Q	0
A316	1MOV6200	NO 1 CNTMT ISOL VLV	M1	MVM23Q	MVM23Q	0
A315	1MOV4517	12 SG FW ISOL	M1	MVM26Q	MVM26Q	0
A315	1MOV4052	MSIV 12 BYP VLV	M1	MVM28Q	MVM28Q	0
A316	1MOV6903	H2 PURGE REPLACE AIR CONTMT ISOL	M1	MVM52Q	MVM52Q	0
A316	1MOV6902	H2 PURGE FLOW CONTROL DAMPER	M1	MVM56Q	MVM56Q	0
A316	1FANHP11	H2 PURGE REP BLOWER (1M0403)	M1	VAM03Q	VAM03Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A227	1MOV615	11A LPSI LOOP ISOL	M2	MVN07Q	MVN07Q	19
A227	1MOV625	11B LPSI LOOP ISOL	M2	MVN08Q	MVN08Q	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	M2	MVN14Q	MVN14Q	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	M2	MVN16Q	MVN16Q	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	M2	MVN17Q	MVN17Q	0
A315	1MOV4516	11 SG FW ISOL	M2	MVN26Q	MVN26Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A315	1MOV4045	MSIV 11 BYP VLV	M2	MVN28Q	MVN28Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	M2	MVN53Q	MVN53Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A309	2MOV4517	22 SG FW ISOL	M3	MVO26Q	MVO26Q	0
A309	2MOV4052	22 MSIV BYP VLV	M3	MVO28Q	MVO28Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A309	2MOV4516	21 SG FW ISOL	M4	MVN26Q	MVN26Q	0
A309	2MOV4045	21 MSIV BYP VLV	M4	MVN28Q	MVN28Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A315	1PCV4415	COND PP 11 SEAL WTR REG	MC	PC415R	PC415R	0
A315	1PCV4422	COND PP 12 SEAL WTR REG	MC	PC422R	PC422R	0
A315	1PCV4506	COND PP 13 SEAL WTR REG	MC	PC506R	PC506R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	MH	BHEF1I	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	MH	BHEF1I	Open	0
A315	1MOV4516	11 SG FW ISOL	MN	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	MN	MNBYP2	MV517P	0
A315	1CV4043	MSIV 11	MS	MT043C	MT043C	0
A315	1CV4048	MSIV 12	MS	MT048C	MT048C	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A316	1CV4520	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4521	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4530	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4531	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1SV4520	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4521	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4530	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4531	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1MOV616	11A HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV626	11B HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	SG	MV691C	MV691C	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	SG	MV691T	MV691T	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A316	1MOV6902	H2 PURGE FLOW CONTROL DAMPER	SG	SGMV01	MV692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A316	1MOV6903	H2 PURGE REPLACE AIR CONTMT ISOL	SG	SGMV02	MV693T	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A316	1CV5292	CONTMT ATMOS SMPL ISOL	SH	IC292C	IC292C	0
A316	1SV5292	CONTMT ATMOS SMPL ISOL	SH	IC292C	IC292C	0
A316	1CV5460	U-1 CONTMT ISOL	SH	IC460T	IC460T	0
A316	1SV5460	U-1 CONTMT ISOL SV	SH	IC460T	IC460T	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	SH	MV080T	MV080T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A316	1CV5460	U-1 CONTMT ISOL	SH	SHIC01	IC460C	0
A316	1SV5460	U-1 CONTMT ISOL SV	SH	SHIC01	IC460C	0
A316	1CV5292	CONTMT ATMOS SMPL ISOL	SH	SHIC03	IC292T	0
A316	1SV5292	CONTMT ATMOS SMPL ISOL	SH	SHIC03	IC292T	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	SH	SHMV01	MV080C	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135° E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135° E 1-SX-5900D	SH	SV00DD	SV00DD	0
A316	1CV1411	CPA SUPP ISOL CV	SI	IC411C	IC411C	0
A316	1SV1411	CPA SUPP ISOL CV CONT	SI	IC411C	IC411C	0
A316	1CV1413	CPA EXH ISOL CV	SI	IC413C	IC413C	0
A316	1SV1413	CPA EXH ISOL CV CONT	SI	IC413C	IC413C	0
A316	1CV1411	CPA SUPP ISOL CV	SI	SICV02	IC411T	0
A316	1SV1411	CPA SUPP ISOL CV CONT	SI	SICV02	IC411T	0
A316	1CV1413	CPA EXH ISOL CV	SI	SICV04	IC413T	0
A316	1SV1413	CPA EXH ISOL CV CONT	SI	SICV04	IC413T	0
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615C	MV615C	19
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615T	MV615T	19
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625C	MV625C	0
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625T	MV625T	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	TG	BHEF1Y	Close/Open	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	TG	BHEF1Y	Close/Open	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	TG	BHEF1Y	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	TG	BHEF1Y	Open	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	UQ	BHEUQ1	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	UQ	BHEUQ1	Throttle	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	1CV3832	CONTMT SUPPLY CV	VQ	IC832C	IC832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	VQ	IC832C	IC832C	0
A316	1CV3832	CONTMT SUPPLY CV	VQ	IC832T	IC832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	VQ	IC832T	IC832T	0
A316	1CV3833	CONTMT RETN CV	VQ	IC833C	IC833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	VQ	IC833C	IC833C	0
A316	1CV3833	CONTMT RETN CV	VQ	IC833T	IC833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	VQ	IC833T	IC833T	0
A316	1MOV651	SDC RETN ISOL	VQ	MV651C	MV651C	0
A316	1MOV651	SDC RETN ISOL	VQ	MV651X	MV651X	0
A316	1MOV651	SDC RETN ISOL	VQ	VQMV01	MV651T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	1CV5460	U-1 CONTMT ISOL	WJ	BHESH1	Shut	0
A316	1SV5460	U-1 CONTMT ISOL SV	WJ	BHESH1	Shut	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0
A316	1CV1581	11 CNTMT CLG U NORM INLET	WY	CV581O	CV581O	0
A316	1I/P1581	CNTMT CLR 11 SERV WTR INLT	WY	CV581O	CV581O	0
A316	1SV1581	CNTMT CLR 11 INLT VLV CONTROL	WY	CV581O	CV581O	0
A316	1CV1582	11 CNTMT CLG U EMER DISCH	WY	CV582O	CV582O	0
A316	1SV1582	CNTMT CLR 11 SERV WTR OUT	WY	CV582O	CV582O	0
A316	1CV1589	13 CNTMT CLG U NORM INLET	WY	CV589O	CV589O	0
A316	1I/P1589	CNTMT CLR 13 SERV WTR INLT	WY	CV589O	CV589O	0
A316	1SV1589	CNTMT CLR 13 INLT VLV CONTROL	WY	CV589O	CV589O	0
A316	1CV1590	13 CNTMT CLG U EMER DISCH	WY	CV590O	CV590O	0
A316	1SV1590	CNTMT CLR 13 OUTLT VLV CONTROL	WY	CV590O	CV590O	0
A316	1CV1581	11 CNTMT CLG U NORM INLET	WY	WA102F	CV581P	0
A316	1I/P1581	CNTMT CLR 11 SERV WTR INLT	WY	WA102F	CV581P	0
A316	1SV1581	CNTMT CLR 11 INLT VLV CONTROL	WY	WA102F	CV581P	0
A316	1CV1582	11 CNTMT CLG U EMER DISCH	WY	WAHVCV	CV582P	0
A316	1SV1582	CNTMT CLR 11 SERV WTR OUT	WY	WAHVCV	CV582P	0
A316	1CV1589	13 CNTMT CLG U NORM INLET	WY	WC102F	CV589P	0
A316	1I/P1589	CNTMT CLR 13 SERV WTR INLT	WY	WC102F	CV589P	0
A316	1SV1589	CNTMT CLR 13 INLT VLV CONTROL	WY	WC102F	CV589P	0
A316	1CV1590	13 CNTMT CLG U EMER DISCH	WY	WCHVCV	CV590P	0
A316	1SV1590	CNTMT CLR 13 OUTLT VLV CONTROL	WY	WCHVCV	CV590P	0

# Flood Evaluation Query

CF-20B-M428AN \*

23-Nov-98

TOP	PM	EVALUATION	RI
AA	4BKR	4 breaker challenges.	PAJ
AB	4BKR	4 breaker challenges.	PAJ
AC	2BKR	2 breaker challenges.	PAJ
AD	5BKR	5 breaker challenges.	PAJ
CS	F	CS Pump 11 is lost.	PAJ
CT	F	CS Pump 12 is lost.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
DL	Spec Impt	11A and 11B LPSI Loop Isol MOVs (1MOV615 and 1MOV625), Fail to Open on Demand. LPSIs only used in large break LOCAs. Flood cannot cause a large break LOCA, therefore this top is not affected for LPSI's. HPSI MOV'S (1MOV616/617/626/627) fail to open on demand. These valves are normally closed and fail as-is. Flow paths via MOV's 636/637/646/647 are still available, therefore this top is only impacted.	PAJ
F1	Spec Impt	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be.	PAJ
F3	None	Steam Admission SV's 1SV4070/4071 are covered under top event F1.	PAJ
F7	F	Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ

\* This flood is deleted. see note 12 in RAN 98-065 sec.5.4  
 JPK

TOP	PM	EVALUATION	RI
FT	Spec Impt	1MOV4516/4517 are normally open and fail as-is. Therefore, if the SGFPs do not trip (which they should), then this top event will fail.	PAJ
GW	None	2CV5152, 2CV5153 and 2CV5212 fail open on loss of power and loss of air.	PAJ
GZ	None	2CV5150 and 2CV5210 fail open on loss of power and loss of air.	PAJ
HA	F	11 HPSI Pump fails.	PAJ
HB	F	13 HPSI Pump fails.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	F	12 HPSI is lost. Also 1MOV653, 1MOV654, 1MOV655 and 1MOV656 fail as-is.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks. 1CV3832/3833/3840/3842 fail closed on loss of power and loss of air.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks. 1CV3832/3833/3840/3842 fail closed on loss of power and loss of air.	PAJ
KS	F	1CV3832/3833 fail closed on loss of power and loss of air.	PAJ
LF	None	1MOV4516/4517 are normally open and fail as-is.	PAJ
M1	15BKR	15 breaker challenges.	PAJ
M2	18BKR	18 breaker challenges.	PAJ
M3	11BKR	11 breaker challenges.	PAJ
M4	7BKR	7 breaker challenges.	PAJ
MC	None	Has 3 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MH	Spec Impt	1CV4070/4071 are normally closed and fail as-is on loss of power. These valves must be locally vented.	PAJ

TOP	PM	EVALUATION	RI
MN	None	1MOV4516/4517 are normally open and fail as-is.	PAJ
MS	F	1CV4043/4048 are normally open and fail as-is.	PAJ
MV	None	1MOV659/660 fail as-is and are normally electrically locked open, there will be no flood impact.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
NR(TC)	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1.	PAJ
NS	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4520/4521/4522/4523/4530/ 4531/ 4532/4533) are normally open and fail as-is on loss of power.	PAJ
RH	F	This human action requires the operator to start 11 and 13 HPSI Pumps. Both pumps are assumed not to start/run during a flood scenario.	PAJ
S3	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5148 (FO), 1CV5148A (FC), 1CV5151 (FO), 1CV5151A (FC) and 1CV5209 (FO).	PAJ
S4	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5158 (FO), 1CV5158A (FC), 1CV5159 (FO), 1CV5159A (FC), 1CV5211 (FO), 1CV5153 (FO) and 1CV5157 (FC).	PAJ

TOP	PM	EVALUATION	RI
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
SI	None	1CV1411/1413 were deleted. No longer as-built. These valves are normally closed and fail closed on loss of power and loss of air.	PAJ
SR	None	All MOVs (1MOV4144/4145/5462/5463/615/625) are closed and fail close.	PAJ
TA	F	1CV1637/1639 fail close on loss of power / loss of air.	PAJ
TB	F	1CV1600/1638 fail close on loss of power / loss of air.	PAJ
TE	F	1MOV4144 is normally in the closed position and will fail as-is. Therefore, the East Recirculation Header will not function properly.	PAJ
TG	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. Covered under Top F1.	PAJ
TH(HD1)	None	1CV5210 will fail to it's appropriate position not allowing the operator to throttle valve. Covered by Top S3 or K3.	PAJ
TH(HD2)	None	1CV5212 will fail to it's appropriate position not allowing the operator to throttle valve. Covered by Top S4 or K4.	PAJ
TW	F	1MOV4145 is normally in the closed position and will fail as-is. Therefore, the West Recirculation Header will not function properly.	PAJ
UQ	None	1CV4511/4512/4525/4535 will fail open. This top is only fails when an under feed to the SG occurs.	PAJ
V1	F	All ECCS Pump Room Fans fail to start/run.	PAJ
V2	F	All ECCS Pump Room Fans fail to start/run.	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
VM(RM1)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V1.	PAJ

<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
VM(RM2)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V2.	PAJ
VQ	None	1CV38322/3833 fail closed on loss of power and loss of air. 1MOV651 is normally closed and fails as-is.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ
WY	None	1CV1584/1592/1585/1593 fail open on loss of power.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	AA	MACS1Q	MACS1Q	12
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	AA	MAHP1Q	MAHP1Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AA	MAHP3Q	MAHP3Q	12
A119	1PUMPSILPSI11	11 LOW PRESS SAFETY INJECTION PUMP (1MA104)	AA	MALP1Q	MALP1Q	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	AB	MACS2Q	MACS2Q	12
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	AB	MAHP2Q	MAHP2Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AB	MAHP4Q	MAHP4Q	12
A118	1PUMPSILPSI12	12 LOW PRESS SAFETY INJECTION PUMP (1MA404)	AB	MALP2Q	MALP2Q	12
A101	2PUMPSICS21	21 CONTAINMENT SPRAY PUMP (2MA107)	AC	MACS3Q	MACS3Q	24
A101	2PUMPHPSI21	SI HPSI PUMP 21 (2MA108)	AC	MAHP5Q	MAHP5Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AC	MAHP7Q	MAHP7Q	12
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	18
A102	2PUMPSICS22	22 CONTAINMENT SPRAY PUMP (2MA407)	AD	MACS4Q	MACS4Q	12
A101	2PUMPHPSI22	SI HPSI PUMP 22 (2MA408)	AD	MAHP6Q	MAHP6Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AD	MAHP8Q	MAHP8Q	12
A102	2PUMPSILPSI22	22 LOW PRESS SAFETY INJECTION PUMP (2MA404)	AD	MALP4Q	MALP4Q	12
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11B	0
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11P	0
A119	1MOV663	SDC RECIRC TO 11 HPSI PP	CS	CS0103	MV663T	0
A119	1CV3828	11 SDC HX OUTLET	CS	CSHX11	CV828P	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CSHX11	CV828P	0
A119	1CV3828	11 SDC HX OUTLET	CS	CV8280	CV8280	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CV8280	CV8280	0
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107R	MA107R	12
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107S	MA107S	12
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12B	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12P	0
A118	1MOV662	SDC RECIRC TO 13 HPSI PP	CT	CT0103	MV662T	0
A118	1CV3830	12 SDC HX OUTLET	CT	CTXH12	CV830P	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CTXH12	CV830P	0
A118	1CV3830	12 SDC HX OUTLET	CT	CV8300	CV8300	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CV8300	CV8300	0
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407R	MA407R	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407S	MA407S	12
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	DL	DLA11A	MV617P	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	DL	DLA11B	MV627P	0
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615O	19
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615P	19
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625O	0
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625P	0
A316	1MOV616	11A HPSI LOOP ISOL	DL	DLM11A	MV616P	0
A316	1MOV626	11B HPSI LOOP ISOL	DL	DLM11B	MV626P	0
A316	1MOV616	11A HPSI LOOP ISOL	DL	MV616O	MV616O	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	DL	MV617O	MV617O	0
A316	1MOV626	11B HPSI LOOP ISOL	DL	MV626O	MV626O	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	DL	MV627O	MV627O	0
A316	1CV4520	11 S/G AFW BLOCK VLV	F1	CV4520	CV520P	0
A316	1SV4520	11 S/G AFW BLOCK SV	F1	CV4520	CV520P	0
A316	1CV4521	11 S/G AFW BLOCK VLV	F1	CV4521	CV521P	0
A316	1SV4521	11 S/G AFW BLOCK SV	F1	CV4521	CV521P	0
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A316	1CV4530	12 S/G AFW BLOCK VLV	F1	CV4530	CV530P	0
A316	1SV4530	12 S/G AFW BLOCK SV	F1	CV4530	CV530P	0
A316	1CV4531	12 S/G AFW BLOCK VLV	F1	CV4531	CV531P	0
A316	1SV4531	12 S/G AFW BLOCK SV	F1	CV4531	CV531P	0
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070O	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070O	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070P	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070P	0
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV70	C870AO	0
A316	1SV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV70	C870AO	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071O	12
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071O	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071P	12
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071P	0
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV71	C871AO	0
A316	1SV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV71	C871AO	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	F1	F1TLV1	C6511P	0
A316	1I/P4511A	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511P	0
A316	1I/P4511B	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	F1	F1TLV1	C6511R	0
A316	1I/P4511A	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511R	0
A316	1I/P4511B	11 AFW FLO CONTR VLV I/P	F1	F1TLV1	C6511R	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	F1	F1TLV2	C6512P	0
A316	1I/P4512A	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512P	0
A316	1I/P4512B	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512P	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	F1	F1TLV2	C6512R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	1I/P4512A	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512R	0
A316	1I/P4512B	12 AFW FLO CONTR VLV I/P	F1	F1TLV2	C6512R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F3	BHEF31	Open	0
A316	1SV4070A	11 S/G AFW MAIN STM BYP VALVE	F3	BHEF31	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	F3	BHEF31	Open	0
A316	1SV4071A	12 S/G AFW MAIN STM BYP VLV	F3	BHEF31	Open	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50O	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516C	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516T	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517C	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517T	0
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AP	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BP	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AB	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AP	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BB	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BP	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1B	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1P	0
A119	1MOV656	AUX HPSI HDR ISOL	HA	HADISA	MV656P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	1MOV617	11A AUX HPSI LOOP ISOL	HA	HATRTL	MV617C	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HA	HATRTL	MV617T	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HA	HATRTL	MV627C	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HA	HATRTL	MV627T	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011R	MA011R	24
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011S	MA011S	24
A316	1MOV616	11A HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HB	BHEHW1	Throttle	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AP	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BP	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AB	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AP	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BB	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BP	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HX9C3B	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HX9C3P	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	HBTRTL	MV616C	0
A316	1MOV616	11A HPSI LOOP ISOL	HB	HBTRTL	MV616T	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	HBTRTL	MV626C	0
A316	1MOV626	11B HPSI LOOP ISOL	HB	HBTRTL	MV626T	0
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013R	MA013R	12
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013S	MA013S	12
A118	1MOV654	HPSI HDR ISOL	HB	MV654P	MV654P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	HU	BHEF1B	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	HU	BHEF1B	Throttle	0
A316	1/P4511A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	1/P4511B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	1/P4512A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A316	1/P4512B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A118	1PUMPHSI12	12 HIGH PRESS SAFETY INJECTION PUMP	HW	BHEHW1	Start	12
A119	1MOV656	AUX HPSI HDR ISOL	HW	HADISA	MV656P	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HW	HATRTL	MV617C	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	HW	HATRTL	MV617T	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HW	HATRTL	MV627C	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	HW	HATRTL	MV627T	0
A316	1MOV616	11A HPSI LOOP ISOL	HW	HBTRTL	MV616C	0
A316	1MOV616	11A HPSI LOOP ISOL	HW	HBTRTL	MV616T	0
A316	1MOV626	11B HPSI LOOP ISOL	HW	HBTRTL	MV626C	0
A316	1MOV626	11B HPSI LOOP ISOL	HW	HBTRTL	MV626T	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AP	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BP	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AB	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AP	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BB	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BP	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2B	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2P	0
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012R	MA012R	24
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012S	MA012S	24
A118	1MOV653	HPSI HDR X-CONN	HW	MV653O	MV653O	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653P	MV653P	0
A118	1MOV654	HPSI HDR ISOL	HW	MV654P	MV654P	0
A119	1MOV655	HPSI HDR X-CONN	HW	MV655P	MV655P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	HX	BHEF1A	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	HX	BHEF1A	Throttle	0
A316	1I/P4511A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	1I/P4511B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	1I/P4512A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A316	1I/P4512B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A316	1CV3832	CONTMT SUPPLY CV	K3	C3832C	C3832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K3	C3832C	C3832C	0
A316	1CV3832	CONTMT SUPPLY CV	K3	C3832T	C3832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K3	C3832T	C3832T	0
A316	1CV3833	CONTMT RETN CV	K3	C3833C	C3833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K3	C3833C	C3833C	0
A316	1CV3833	CONTMT RETN CV	K3	C3833T	C3833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K3	C3833T	C3833T	0
A419	1CV3840	EVAP INLET CV	K3	C3840C	C3840C	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K3	C3840C	C3840C	0
A419	1CV3840	EVAP INLET CV	K3	C3840T	C3840T	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K3	C3840T	C3840T	0
A419	1CV3842	EVAPS INLET CV	K3	C3842C	C3842C	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K3	C3842C	C3842C	0
A419	1CV3842	EVAPS INLET CV	K3	C3842T	C3842T	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K3	C3842T	C3842T	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A316	1CV3832	CONTMT SUPPLY CV	K4	C3832C	C3832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K4	C3832C	C3832C	0
A316	1CV3832	CONTMT SUPPLY CV	K4	C3832T	C3832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	K4	C3832T	C3832T	0
A316	1CV3833	CONTMT RETN CV	K4	C3833C	C3833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K4	C3833C	C3833C	0
A316	1CV3833	CONTMT RETN CV	K4	C3833T	C3833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	K4	C3833T	C3833T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
A419	1CV3840	EVAP INLET CV	K4	C3840C	C3840C	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K4	C3840C	C3840C	0
A419	1CV3840	EVAP INLET CV	K4	C3840T	C3840T	228
A419	1SV3840	LIQ WST EVAP COMP CLG ISOL VLV	K4	C3840T	C3840T	0
A419	1CV3842	EVAPS INLET CV	K4	C3842C	C3842C	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K4	C3842C	C3842C	0
A419	1CV3842	EVAPS INLET CV	K4	C3842T	C3842T	228
A419	1SV3842	COMP CLG TO LIQ WSTE EVAP ISOL	K4	C3842T	C3842T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A316	1CV3832	CONTMT SUPPLY CV	KS	KSCV32	C3832P	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	KS	KSCV32	C3832P	0
A316	1CV3833	CONTMT RETN CV	KS	KSCV33	C3833P	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	KS	KSCV33	C3833P	0
A315	1MOV4516	11 SG FW ISOL	LF	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MNBYP2	MV417P	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516O	MV516O	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516P	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517O	MV517O	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517P	MV517P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	M1	M1FPPR	VD48AQ	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	M1	M1FPPR	VD48BQ	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	M1	M1FPPR	VD48CQ	22
A316	1MOV616	11A HPSI LOOP ISOL	M1	MVM16Q	MVM16Q	0
A316	1MOV626	11B HPSI LOOP ISOL	M1	MVM17Q	MVM17Q	0
A118	1MOV654	HPSI HDR ISOL	M1	MVM21Q	MVM21Q	0
A118	1MOV653	HPSI HDR X-CONN	M1	MVM22Q	MVM22Q	0
A316	1MOV6200	NO 1 CNTMT ISOL VLV	M1	MVM23Q	MVM23Q	0
A315	1MOV4517	12 SG FW ISOL	M1	MVM26Q	MVM26Q	0
A315	1MOV4052	MSIV 12 BYP VLV	M1	MVM28Q	MVM28Q	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	M1	MVM30Q	MVM30Q	0
A118	1MOV660	MINI FLOW RETN TO RWT	M1	MVM32Q	MVM32Q	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	M1	MVM44Q	MVM44Q	0
A316	1MOV6903	H2 PURGE REPLACE AIR CONTMT ISOL	M1	MVM52Q	MVM52Q	0
A316	1MOV6902	H2 PURGE FLOW CONTROL DAMPER	M1	MVM56Q	MVM56Q	0
A316	1FANHP11	H2 PURGE REP BLOWER (1M0403)	M1	VAM03Q	VAM03Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	M2	M2FPPR	VD48AQ	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	M2	M2FPPR	VD48BQ	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	M2	M2FPPR	VD48CQ	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	M2	M2FPPR	VD48DQ	22
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A227	1MOV615	11A LPSI LOOP ISOL	M2	MVN07Q	MVN07Q	19
A227	1MOV625	11B LPSI LOOP ISOL	M2	MVN08Q	MVN08Q	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	M2	MVN14Q	MVN14Q	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	M2	MVN16Q	MVN16Q	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	M2	MVN17Q	MVN17Q	0
A119	1MOV656	AUX HPSI HDR ISOL	M2	MVN21Q	MVN21Q	0
A119	1MOV655	HPSI HDR X-CONN	M2	MVN22Q	MVN22Q	0
A315	1MOV4516	11 SG FW ISOL	M2	MVN26Q	MVN26Q	0
A315	1MOV4045	MSIV 11 BYP VLV	M2	MVN28Q	MVN28Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A118	1MOV659	MINI FLOW RETN TO RWT	M2	MVN32Q	MVN32Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A122	1MOV4144	CONTMT SUMP OUT ISOL	M2	MVN44Q	MVN44Q	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	M2	MVN53Q	MVN53Q	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	M2	MVN57Q	MVN57Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A102	2FAN0448A	ECCS PP RM CLR 22 FAN A (2M0448A)	M3	M3FPPR	VD48AQ	22
A102	2FAN0448B	ECCS PP RM CLR 22 FAN B (2M0448B)	M3	M3FPPR	VD48BQ	22
A102	2FAN0448C	ECCS PP RM CLR 22 FAN C (2M0448C)	M3	M3FPPR	VD48CQ	22
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A102	2MOV654	HPSI HDR ISOL	M3	MVO21Q	MVO21Q	0
A102	2MOV653	HPSI HDR X-CONN	M3	MVO22Q	MVO22Q	0
A309	2MOV4517	22 SG FW ISOL	M3	MVO26Q	MVO26Q	0
A309	2MOV4052	22 MSIV BYP VLV	M3	MVO28Q	MVO28Q	0
A120	2MOV5463	U-2 CONTMT RECIRC PIPE TUNNEL	M3	MVO30Q	MVO30Q	0
A102	2MOV660	MINI FLOW RETN TO RWT	M3	MVO32Q	MVO32Q	0
A120	2MOV4145	CONTMT SUMP OUTLET ISOL	M3	MVO44Q	MVO44Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A309	2MOV4516	21 SG FW ISOL	M4	MVN26Q	MVN26Q	0
A309	2MOV4045	21 MSIV BYP VLV	M4	MVN28Q	MVN28Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A102	2MOV659	MINI FLOW RETN TO RWT	M4	MVN32Q	MVN32Q	0
A120	2MOV4144	CONTMT SUMP OUTLET ISOL	M4	MVN44Q	MVN44Q	0
A120	2MOV5462	U-2 CONTMT RECIRC PIPE TUNNEL	M4	MVN57Q	MVN57Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A315	1PCV4415	COND PP 11 SEAL WTR REG	MC	PC415R	PC415R	0
A315	1PCV4422	COND PP 12 SEAL WTR REG	MC	PC422R	PC422R	0
A315	1PCV4506	COND PP 13 SEAL WTR REG	MC	PC506R	PC506R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	MH	BHEF1I	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	MH	BHEF1I	Open	0
A315	1MOV4516	11 SG FW ISOL	MN	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	MN	MNBYP2	MV517P	0
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A315	1CV4043	MSIV 11	MS	MT043C	MT043C	0
A315	1CV4048	MSIV 12	MS	MT048C	MT048C	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659P	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659X	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660P	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660X	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A316	1CV4520	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4521	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4530	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1CV4531	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	0
A316	1SV4520	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4521	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4530	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1SV4531	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A316	1MOV616	11A HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV617	11A AUX HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV626	11B HPSI LOOP ISOL	RH	BHERH1	Open	0
A316	1MOV627	11B AUX HPSI LOOP ISOL	RH	BHERH1	Open	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	RH	BHERH1	Start	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	RH	BHERH1	Start	12
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1I/P5157	12A/12B SRW HX SW OUT I/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	SG	MV691C	MV691C	0
A316	1MOV6901	H2 PURGE CONTMT ISOL (PER RM SIDE)	SG	MV691T	MV691T	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A316	1MOV6902	H2 PURGE FLOW CONTROL DAMPER	SG	SGMV01	MV692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A316	1MOV6903	H2 PURGE REPLACE AIR CONTMT ISOL	SG	SGMV02	MV693T	0
A316	1CV5292	CONTMT ATMOS SMPL ISOL	SH	IC292C	IC292C	0
A316	1SV5292	CONTMT ATMOS SMPL ISOL	SH	IC292C	IC292C	0
A316	1CV5460	U-1 CONTMT ISOL	SH	IC460T	IC460T	0
A316	1SV5460	U-1 CONTMT ISOL SV	SH	IC460T	IC460T	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	SH	MV080T	MV080T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	OPCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A316	1CV5460	U-1 CONTMT ISOL	SH	SHIC01	IC460C	0
A316	1SV5460	U-1 CONTMT ISOL SV	SH	SHIC01	IC460C	0
A316	1CV5292	CONTMT ATMOS SMPL ISOL	SH	SHIC03	IC292T	0
A316	1SV5292	CONTMT ATMOS SMPL ISOL	SH	SHIC03	IC292T	0
A316	1MOV2080	CNTMT IA ISOLATION MOV	SH	SHMV01	MV080C	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SHSV02	SV07BT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SHSV05	SV07CT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SHSV08	SV07DT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SV07BD	SV07BD	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SV07CD	SV07CD	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SV07DD	SV07DD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GD	SV07GD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GT	SV07GT	0
A316	1CV1411	CPA SUPP ISOL CV	SI	IC411C	IC411C	0
A316	1SV1411	CPA SUPP ISOL CV CONT	SI	IC411C	IC411C	0
A316	1CV1413	CPA EXH ISOL CV	SI	IC413C	IC413C	0
A316	1SV1413	CPA EXH ISOL CV CONT	SI	IC413C	IC413C	0
A316	1CV1411	CPA SUPP ISOL CV	SI	SICV02	IC411T	0
A316	1SV1411	CPA SUPP ISOL CV CONT	SI	SICV02	IC411T	0
A316	1CV1413	CPA EXH ISOL CV	SI	SICV04	IC413T	0
A316	1SV1413	CPA EXH ISOL CV CONT	SI	SICV04	IC413T	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144C	MV144C	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144T	MV144T	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145C	MV145C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145T	MV145T	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462C	MV462C	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462T	MV462T	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463C	MV463C	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463T	MV463T	0
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615C	MV615C	19
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615T	MV615T	19
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625C	MV625C	0
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625T	MV625T	0
A226	1SV1637	TURB LUBE&EHC OIL SERVWTR ISOL	TA	TAFB01	C3637P	0
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	MV144O	MV144O	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	TE0101	MV144P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	TG	BHEF1Y	Close/Open	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	TG	BHEF1Y	Close/Open	0
A316	11/P4511A	11 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	11/P4511B	11 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	11/P4512A	12 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A316	11/P4512B	12 AFW FLO CONTR VLV I/P	TG	BHEF1Y	Close/Open	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	TG	BHEF1Y	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	TG	BHEF1Y	Open	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A226	1FIC5210	11A SRWX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	TH(HD2)	BHER3B	Open	0
A226	1FIC5212	12B SRWX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	MV1450	MV1450	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	TW0101	MV145P	0
A316	1CV4511	11 S/G AFW FLOW CONT VALVE	UQ	BHEUQ1	Throttle	0
A316	1CV4512	12 S/G AFW FLOW CONT VALVE	UQ	BHEUQ1	Throttle	0
A316	1I/P4511A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	1I/P4511B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	1I/P4512A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A316	1I/P4512B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	TS404D	TS404D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC170P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1TEMP	TS404R	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205B	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205P	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AR	VD11AR	22
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AS	VD11AS	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BR	VD11BR	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BS	VD11BS	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CR	VD11CR	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CS	VD11CS	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DR	VD11DR	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DS	VD11DS	22
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170D	WC170D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170O	WC170O	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171D	WC171D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171O	WC171O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	TS405D	TS405D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2INLT	WC173P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2TEMP	TS405R	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207B	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AR	VD12AR	22
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AS	VD12AS	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BR	VD12BR	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BS	VD12BS	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CR	VD12CR	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CS	VD12CS	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173D	WC173D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173O	WC173O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	VM(RM1)	BHEV1T	Start	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM2)	BHEV1T	Open	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	VM(RM2)	BHEV1T	Start	22
A316	1CV3832	CONTMT SUPPLY CV	VQ	IC832C	IC832C	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	VQ	IC832C	IC832C	0
A316	1CV3832	CONTMT SUPPLY CV	VQ	IC832T	IC832T	0
A316	1SV3832	COMP CLG INTO CNTMT VLV CONT	VQ	IC832T	IC832T	0
A316	1CV3833	CONTMT RETN CV	VQ	IC833C	IC833C	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	VQ	IC833C	IC833C	0
A316	1CV3833	CONTMT RETN CV	VQ	IC833T	IC833T	0
A316	1SV3833	COMP CLG OUTLT CNTMT ISOL CONT	VQ	IC833T	IC833T	0
A316	1MOV651	SDC RETN ISOL	VQ	MV651C	MV651C	0
A316	1MOV651	SDC RETN ISOL	VQ	MV651X	MV651X	0
A316	1MOV651	SDC RETN ISOL	VQ	VQMV01	MV651T	0
A316	1CV5460	U-1 CONTMT ISOL	WJ	BHESH1	Shut	0
A316	1SV5460	U-1 CONTMT ISOL SV	WJ	BHESH1	Shut	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	WJ	BHESH2	Shut	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	WJ	BHESH2	Shut	0
A316	1CV1581	11 CNTMT CLG U NORM INLET	WY	CV581O	CV581O	0
A316	1I/P1581	CNTMT CLR 11 SERV WTR INLT	WY	CV581O	CV581O	0
A316	1SV1581	CNTMT CLR 11 INLT VLV CONTROL	WY	CV581O	CV581O	0
A316	1CV1582	11 CNTMT CLG U EMER DISCH	WY	CV582O	CV582O	0
A316	1SV1582	CNTMT CLR 11 SERV WTR OUT	WY	CV582O	CV582O	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	CV584O	CV584O	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	CV584O	CV584O	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	CV584O	CV584O	0
A316	1CV1589	13 CNTMT CLG U NORM INLET	WY	CV589O	CV589O	0
A316	1I/P1589	CNTMT CLR 13 SERV WTR INLT	WY	CV589O	CV589O	0
A316	1SV1589	CNTMT CLR 13 INLT VLV CONTROL	WY	CV589O	CV589O	0
A316	1CV1590	13 CNTMT CLG U EMER DISCH	WY	CV590O	CV590O	0
A316	1SV1590	CNTMT CLR 13 OUTLT VLV CONTROL	WY	CV590O	CV590O	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	CV592O	CV592O	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	CV592O	CV592O	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	CV592O	CV592O	0
A316	1CV1581	11 CNTMT CLG U NORM INLET	WY	WA102F	CV581P	0
A316	1I/P1581	CNTMT CLR 11 SERV WTR INLT	WY	WA102F	CV581P	0
A316	1SV1581	CNTMT CLR 11 INLT VLV CONTROL	WY	WA102F	CV581P	0
A316	1CV1582	11 CNTMT CLG U EMER DISCH	WY	WAHVCV	CV582P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A316	1SV1582	CNTMT CLR 11 SERV WTR OUT	WY	WAHVCV	CV582P	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	WB102F	CV584P	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	WB102F	CV584P	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	WB102F	CV584P	0
A316	1CV1589	13 CNTMT CLG U NORM INLET	WY	WC102F	CV589P	0
A316	1I/P1589	CNTMT CLR 13 SERV WTR INLT	WY	WC102F	CV589P	0
A316	1SV1589	CNTMT CLR 13 INLT VLV CONTROL	WY	WC102F	CV589P	0
A316	1CV1590	13 CNTMT CLG U EMER DISCH	WY	WCHVCV	CV590P	0
A316	1SV1590	CNTMT CLR 13 OUTLT VLV CONTROL	WY	WCHVCV	CV590P	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	WD102F	CV592P	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	WD102F	CV592P	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	WD102F	CV592P	0

# Flood Evaluation Query

CF-21A-F429AM

10-Dec-98

TOP	PM	EVALUATION	RI
AE	1BKR	1 breaker challenge.	PAJ
AF	2BKR	2 breaker challenges.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
EA	<i>None</i> Spec Impt	<del>1PT5314A/5314B fail to the trip state on loss of power. This actuates CSAS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of CSAS should be coded into the plant model.</del> <i>(Note 44)</i>	PAJ
EB	<i>None</i> Spec Impt	<del>1PT5314A/5314B fail to the trip state on loss of power. This actuates CSAS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of CSAS should be coded into the plant model.</del> <i>(Note 44)</i>	PAJ
F1	<i>None</i> Spec Impt	Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. <i>(Note 2) (note 3)</i>	PAJ
F3	None	Steam Admission SV's 1SV4070/4071 are covered under top event F1.	PAJ
FT	Spec Impt	1MOV4516/4517 are normally open and fail as-is. Therefore, if the SGFPs do not trip (which they should), then this top event will fail.	PAJ
LF	F	1CV4405/4406 fail closed. 1MOV4516/4517 are normally open and fail as-is.	PAJ
M1	2BKR	2 breaker challenges.	PAJ
M2	5BKR	5 breaker challenges.	PAJ
M3	4BKR	4 breaker challenges.	PAJ
M4	3BKR	3 breaker challenges.	PAJ
M7	12BKR	12 breaker challenges.	PAJ
M8	17BKR	17 breaker challenges.	PAJ
MC	F	11, 12 and 13 Condensate Pumps fail.	PAJ

See notes in RAN 98-065 sect. 5.4 *jon*

TOP	PM	EVALUATION	RI
MH	Spec Impt	1CV4070/4071 are normally closed and fail as-is on loss of power. These valves must be locally vented.	PAJ
MN	None	1MOV4516/4517 are normally open and fail as-is.	PAJ
MS	F	1CV4043/4048 are normally open and fail as-is.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	1BKR	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
PA	Spec Impt	1PTS315A/5315B fail to the trip state on loss of power. This actuates CIS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of CIS should be coded into the plant model. (Note 33)	PAJ
PB	Spec Impt	1PTS315A/5315B fail to the trip state on loss of power. This actuates CIS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of CIS should be coded into the plant model. (Note 33)	PAJ
QC	2BKR	2 breaker challenges.	PAJ
SA	<del>Spec Impt</del> None	1PTS313A/5313B fail to the trip state on loss of power. This actuates SIAS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of SIAS should be coded into the plant model. (Note 44)	PAJ
SB	<del>Spec Impt</del> None	1PTS313A/5313B fail to the trip state on loss of power. This actuates SIAS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of SIAS should be coded into the plant model. (Note 44)	PAJ

TOP	PM	EVALUATION	RI
SG	<i>None</i> Spec Impt	<del>The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.</del> (Note 5)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
T1	None	ICV4406 fails closed on loss of power and loss of air.	PAJ
TG	None	Steam admission Control valves ICV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. Covered under Top F1.	PAJ
VC	F	All Condenser Vacuum Pumps Fail. Only 11, 12 and 13 are in the fault trees.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ
WY	None	ICV1584/1592 fail open on loss of power.	PAJ



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	AE	MYCP1Q	MYCP1Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	AF	MYCP2Q	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	AF	MYCP3Q	MYCP3Q	0
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A429	1PT5314A	1 HVAC/P CNTMT PT TO CSAS	EA	EASEND	PTD4AR	38
A429	1PT5314B	1 HVAC/P CNTMT PT TO CSAS	EA	EASENE	PTE4BR	38
A429	1PT5314A	1 HVAC/P CNTMT PT TO CSAS	EB	EASEND	PTD4AR	38
A429	1PT5314B	1 HVAC/P CNTMT PT TO CSAS	EB	EASENE	PTE4BR	38
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070O	12
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070P	12
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV70	C870AO	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071O	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071P	12
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV71	C871AO	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516C	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516T	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517C	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517T	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1CV4405	HOTWELL TO COND STORAGE VLV	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1I/P4405	HOTWELL TO COND STORAGE CONT	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	LF	LFMUCV	LT405R	0
A315	1MOV4516	11 SG FW ISOL	LF	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MNBYP2	MV417P	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516O	MV516O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A315	1MOV4516	11 SG FW ISOL	LF	MV516P	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517O	MV517O	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517P	MV517P	0
A315	1MOV4517	12 SG FW ISOL	M1	MVM26Q	MVM26Q	0
A315	1MOV4052	MSIV 12 BYP VLV	M1	MVM28Q	MVM28Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A315	1MOV4516	11 SG FW ISOL	M2	MVN26Q	MVN26Q	0
A315	1MOV4045	MSIV 11 BYP VLV	M2	MVN28Q	MVN28Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A309	2MOV4517	22 SG FW ISOL	M3	MVO28Q	MVO28Q	0
A309	2MOV4052	22 MSIV BYP VLV	M3	MVO28Q	MVO28Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A309	2MOV4516	21 SG FW ISOL	M4	MVN26Q	MVN26Q	0
A309	2MOV4045	21 MSIV BYP VLV	M4	MVN28Q	MVN28Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
1TB12-2 (CP)	1PNL1C51	11A AMERTAP CNTL PNL 1C51	M7	BUP23Q	BUP23Q	0
1TB12-2 (CP)	1PNL1C52	11B AMERTAP CNTL PNL 1C52	M7	BUP24Q	BUP24Q	0
1TB12-2 (CP)	1PNL1C53	12A AMERTAP CNTL PNL 1C53	M7	BUP25Q	BUP25Q	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1M217)	M7	MB217Q	MB217Q	0
1TB12-2 (CP)	1PUMPM5BD11	11 AUX BD TK PUMP (1M0671)	M7	MBP71Q	MBP71Q	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	M7	MMP07Q	MMP07Q	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	M7	MMP36Q	MMP36Q	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	M7	MMP37Q	MMP37Q	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	M7	MVP02Q	MVP02Q	0
1TB12-3 (CP)	1MOV5228	11B COND'R INLET STRNR VLV	M7	MVP03Q	MVP03Q	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	M7	MVP04Q	MVP04Q	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	M7	VAP59Q	VAP59Q	0
1TB12-2 (CP)	1RECEPTMCC116A	POWER RECEPT MCC116 (1W48, 1W49, 1W50, 1W51)	M8	BUQ05Q	BUQ05Q	0
1TB12-2 (CP)	1PNL1C54	12B AMERTAP CNTL PNL 1C54	M8	BUQ23Q	BUQ23Q	0
1TB12-2 (CP)	1PNL1C55	13A AMERTAP CNTL PNL 1C55	M8	BUQ24Q	BUQ24Q	0
1TB12-2 (CP)	1PNL1C56	13B AMERTAP CNTL PNL 1C56	M8	BUQ25Q	BUQ25Q	0
1TB12-2 (CP)	1PUMPCAR14	14 CAR VAC PP (1M317)	M8	MB317Q	MB317Q	0
1TB12-2 (CP)	1PUMPSMP11TB11	11 TURB BLDG SUMP 11 PP (1M1642)	M8	MBQ42Q	MBQ42Q	0
1TB12-2 (CP)	1PUMPSMP11TB12	11 TURB BLDG SUMP 12 PP (1M1643)	M8	MBQ43Q	MBQ43Q	0
1TB12-2 (CP)	1PUMPM5BD12	12 AUX BD TK PUMP (1M1656)	M8	MBQ56Q	MBQ56Q	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	M8	MMQ06Q	MMQ06Q	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	M8	MMQ07Q	MMQ07Q	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	M8	MMQ36Q	MMQ36Q	0
1TB12-2 (CP)	1PUMPCARSWP14	14 CAR SEAL WTR PUMP (1M1637)	M8	MMQ37Q	MMQ37Q	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	M8	MVQ02Q	MVQ02Q	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	M8	MVQ03Q	MVQ03Q	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	M8	MVQ04Q	MVQ04Q	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	M8	VAQ59Q	VAQ59Q	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	M8	VAQ60Q	VAQ60Q	0
1TB12-3 (CP)	1YS4414	COND PMP MOTOR 11 OIL STRAINER	MC	MCPP10	YS414P	0
1TB12-3 (CP)	1YS4421	COND PMP MOTOR 12 OIL STRAINER	MC	MCPP20	YS421P	0
1TB12-3 (CP)	1YS4428	COND PMP MOTOR 13 OIL STRAINER	MC	MCPP30	YS428P	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	MC	MML11R	MML11R	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	MC	MML12R	MML12R	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	MC	MML13R	MML13R	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	MC	MYC11R	MYC11R	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	MC	MYC12R	MYC12R	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	MC	MYC13R	MYC13R	0
A315	1PCV4415	COND PP 11 SEAL WTR REG	MC	PC415R	PC415R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A315	1PCV4422	COND PP 12 SEAL WTR REG	MC	PC422R	PC422R	0
A315	1PCV4506	COND PP 13 SEAL WTR REG	MC	PC506R	PC506R	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	MC	VAL11R	VAL11R	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	MC	VAL12R	VAL12R	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	MC	VAL13R	VAL13R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A315	1MOV4516	11 SG FW ISOL	MN	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	MN	MNBYP2	MV517P	0
A315	1CV4043	MSIV 11	MS	MT043C	MT043C	0
A315	1CV4048	MSIV 12	MS	MT048C	MT048C	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A429	1NB430	14A RC PZR HTR 12 PROP CONTR	N3	TC430Q	TC430Q	0
A429	1NB1NB422	H2 RECOMBINER 12 POWER SUPPLY	N4	HR422Q	HR422Q	7
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A429	1PT5315A	1 HVAC/P CNTMT PT TO CIS	PA	PASEND	PTD5AR	38
A429	1PT5315B	1 HVAC/P CNTMT PT TO CIS	PA	PASENE	PTE5BR	38
A429	1PT5315A	1 HVAC/P CNTMT PT TO CIS	PB	PASEND	PTD5AR	38
A429	1PT5315B	1 HVAC/P CNTMT PT TO CIS	PB	PASENE	PTE5BR	38
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	QC	QCMISC	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	QC	QCMISC	MYCP3Q	0
A429	1PT5313A	1 HVAC/P CNTMT PT TO SIAS	SA	SASEND	PTD3AR	38
A429	1PT5313B	1 HVAC/P CNTMT PT TO SIAS	SA	SASENE	PTE3BR	38
A429	1PT5313A	1 HVAC/P CNTMT PT TO SIAS	SB	SASEND	PTD3AR	38
A429	1PT5313B	1 HVAC/P CNTMT PT TO SIAS	SB	SASENE	PTE3BR	38
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SHSV02	SV07BT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SHSV05	SV07CT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SHSV08	SV07DT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SV07BD	SV07BD	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SV07CD	SV07CD	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SV07DD	SV07DD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GD	SV07GD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GT	SV07GT	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	T1	T1CS1F	LT405R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	VC	MMS11R	MMS11R	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	VC	MMS12R	MMS12R	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	VC	MMS13R	MMS13R	0
1TB12-2 (CP)	1PUMPCAR11	11 CAR VAC PP (1MB203)	VC	MMV11R	MMV11R	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	VC	MMV12R	MMV12R	0
1TB12-2 (CP)	1PUMPCAR13	13 CAR VAC PP (1MB303)	VC	MMV13R	MMV13R	0
1TB12-3 (CP)	1HS5225	11 CW PP WTRBX INL VLV HS	VC	VCCW1A	HS225T	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	VC	VCCW1A	MV225P	0
1TB12-3 (CP)	1HS5229	12 CW PP WTRBX INL VLV HS	VC	VCCW2A	HS229T	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	VC	VCCW2A	MV229P	0
1TB12-3 (CP)	1HS5233	13 CW PP WTRBX INL VLV HS	VC	VCCW3A	HS233T	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	VC	VCCW3A	MV233P	0
1TB12-3 (CP)	1HS5237	14 CW PP WTRBX INL VLV HS	VC	VCCW4A	HS237T	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	VC	VCCW4A	MV237P	0
1TB12-3 (CP)	1HS5241	15 CW PP WTRBX INL VLV HS	VC	VCCW5A	HS241T	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	VC	VCCW5A	MV241P	0
1TB12-3 (CP)	1HS5245	15 CW PP WTRBX INL VLV HS	VC	VCCW6A	HS245T	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	VC	VCCW6A	MV245P	0
1TB12-2 (CP)	1CV1754	11 CAR UNIT MOTIVE AIR	VC	VCP011	C3754P	0
1TB12-2 (CP)	1CV1755	11 CAR UNIT SYS DIAPHRAM	VC	VCP011	C3755P	0
1TB12-2 (CP)	1LCV1753	11 CAR SEP	VC	VCP011	LC753R	0
1TB12-2 (CP)	1PS1755	11 CAR CNDSR VAC PP SEAL LOW PRESSURE WTR P	VC	VCP011	PS755R	0
1TB12-2 (CP)	1CV1757	12 CAR UNIT MOTIVE AIR	VC	VCP012	C3757P	0
1TB12-2 (CP)	1CV1758	12 CAR UNIT SYS DIAPHRAM	VC	VCP012	C3758P	0
1TB12-2 (CP)	1LCV1756	12 CAR SEP LO LVL CONTROL	VC	VCP012	LC756R	0
1TB12-2 (CP)	1PS1758	12 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE P	VC	VCP012	PS758R	0
1TB12-2 (CP)	1CV1760	13 CAR UNIT MOTIVE AIR	VC	VCP013	C3760P	0
1TB12-2 (CP)	1CV1761	13 CAR UNIT SYS DIAPHRAM	VC	VCP013	C3761P	0
1TB12-2 (CP)	1LCV1759	SEP LO LVL CONTROL	VC	VCP013	LC759R	0
1TB12-2 (CP)	1PS1761	13 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE P	VC	VCP013	PS761R	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11B	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11P	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12B	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12P	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13B	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13P	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	WJ	BHESH2	Shut	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	WJ	BHESH2	Shut	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	CV584O	CV584O	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	CV584O	CV584O	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	CV584O	CV584O	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	CV592O	CV592O	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	CV592O	CV592O	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	CV592O	CV592O	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	WB102F	CV584P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A221	11/P1584	CNTMT CLR 12 SERV WTR INLT	WY	WB102F	CV584P	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	WB102F	CV584P	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	WD102F	CV592P	0
A221	11/P1592	CNTMT CLR 14 SERV WTR INLT	WY	WD102F	CV592P	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	WD102F	CV592P	0

# Flood Evaluation Query

CF-21B-F429AN \*

10-Dec-98

TOP	PM	EVALUATION	RI
AE	1BKR	1 breaker challenge.	PAJ
AF	2BKR	2 breaker challenges.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
EA	Spec Impt	1PT5314A/5314B fail to the trip state on loss of power. This actuates CSAS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of CSAS should be coded into the plant model.	PAJ
EB	Spec Impt	1PT5314A/5314B fail to the trip state on loss of power. This actuates CSAS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of CSAS should be coded into the plant model.	PAJ
F1	Spec Impt	Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be.	PAJ
F3	None	Steam Admission SV's 1SV4070/4071 are covered under top event F1.	PAJ
FT	Spec Impt	1MOV4516/4517 are normally open and fail as-is. Therefore, if the SGFPs do not trip (which they should), then this top event will fail.	PAJ
LF	F	1CV4405/4406 fail closed. 1MOV4516/4517 are normally open and fail as-is.	PAJ
M1	2BKR	2 breaker challenges.	PAJ
M2	5BKR	5 breaker challenges.	PAJ
M3	4BKR	4 breaker challenges.	PAJ
M4	3BKR	3 breaker challenges.	PAJ
M7	12BKR	12 breaker challenges.	PAJ
M8	17BKR	17 breaker challenges.	PAJ
MC	F	11, 12 and 13 Condensate Pumps fail.	PAJ

\* This flood is deleted. See note 12 in RAN 98-065  
sect 5.4 JPN

TOP	PM	EVALUATION	RI
MH	Spec Impt	1CV4070/4071 are normally closed and fail as-is on loss of power. These valves must be locally vented.	PAJ
MN	None	1MOV4516/4517 are normally open and fail as-is.	PAJ
MS	F	1CV4043/4048 are normally open and fail as-is.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	1BKR	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
PA	Spec Impt	1PT5315A/5315B fail to the trip state on loss of power. This actuates CIS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of CIS should be coded into the plant model.	PAJ
PB	Spec Impt	1PT5315A/5315B fail to the trip state on loss of power. This actuates CIS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of CIS should be coded into the plant model.	PAJ
QC	2BKR	2 breaker challenges.	PAJ
SA	Spec Impt	1PT5313A/5313B fail to the trip state on loss of power. This actuates SIAS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of SIAS should be coded into the plant model.	PAJ
SB	Spec Impt	1PT5313A/5313B fail to the trip state on loss of power. This actuates SIAS 2 of 4 logic. This is not the desired effect, so it should be noted that a spurious actuation of SIAS should be coded into the plant model.	PAJ

TOP	PM	EVALUATION	RI
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
T1	None	1CV4406 fails closed on loss of power and loss of air.	PAJ
TG	None	Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. Covered under Top F1.	PAJ
VC	F	All Condenser Vacuum Pumps Fail. Only 11, 12 and 13 are in the fault trees.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ
WY	None	1CV1584/1592 fail open on loss of power.	PAJ



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FL
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	AE	MYCP1Q	MYCP1Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	AF	MYCP2Q	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	AF	MYCP3Q	MYCP3Q	0
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A429	1PT5314A	1 HVAC/P CNTMT PT TO CSAS	EA	EASEND	PTD4AR	38
A429	1PT5314B	1 HVAC/P CNTMT PT TO CSAS	EA	EASENE	PTE4BR	38
A429	1PT5314A	1 HVAC/P CNTMT PT TO CSAS	EB	EASEND	PTD4AR	38
A429	1PT5314B	1 HVAC/P CNTMT PT TO CSAS	EB	EASENE	PTE4BR	38
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070O	12
A315	1CV4070	11 S/G MS TO AFW PP TURB	F1	F1CV70	C8070P	12
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV70	C870AO	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071O	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	F1	F1CV71	C8071P	12
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F1	F1CV71	C871AO	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4070A	11 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A315	1CV4071	12 S/G MS TO AFW PP TURB	F3	BHEF31	Open	12
A315	1CV4071A	12 S/G AFW MAIN STM BYPASS VALVE	F3	BHEF31	Open	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516C	0
A315	1MOV4516	11 SG FW ISOL	FT	FTFW10	MV516T	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517C	0
A315	1MOV4517	12 SG FW ISOL	FT	FTFW20	MV517T	0
1TB12-3 (CP)	1CV4406	CST TO HTWL MU CV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1CV4406	CST TO HTWL MU CV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1CV4405	HOTWELL TO COND STORAGE VLV	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1I/P4405	HOTWELL TO COND STORAGE CONT	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	LF	LFMUCV	LT405R	0
A315	1MOV4516	11 SG FW ISOL	LF	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MNBYP2	MV417P	0
A315	1MOV4516	11 SG FW ISOL	LF	MV516O	MV516O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	** ABOVE FL
A315	1MOV4516	11 SG FW ISOL	LF	MV516P	MV516P	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517O	MV517O	0
A315	1MOV4517	12 SG FW ISOL	LF	MV517P	MV517P	0
A315	1MOV4517	12 SG FW ISOL	M1	MVM26Q	MVM26Q	0
A315	1MOV4052	MSIV 12 BYP VLV	M1	MVM28Q	MVM28Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A315	1MOV4516	11 SG FW ISOL	M2	MVN26Q	MVN26Q	0
A315	1MOV4045	MSIV 11 BYP VLV	M2	MVN28Q	MVN28Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A309	2MOV4517	22 SG FW ISOL	M3	MVO26Q	MVO26Q	0
A309	2MOV4052	22 MSIV BYP VLV	M3	MVO28Q	MVO28Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A309	2MOV4516	21 SG FW ISOL	M4	MVN26Q	MVN26Q	0
A309	2MOV4045	21 MSIV BYP VLV	M4	MVN28Q	MVN28Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
1TB12-2 (CP)	1PNL1C51	11A AMERTAP CNTL PNL 1C51	M7	BUP23Q	BUP23Q	0
1TB12-2 (CP)	1PNL1C52	11B AMERTAP CNTL PNL 1C52	M7	BUP24Q	BUP24Q	0
1TB12-2 (CP)	1PNL1C53	12A AMERTAP CNTL PNL 1C53	M7	BUP25Q	BUP25Q	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	M7	MB217Q	MB217Q	0
1TB12-2 (CP)	1PUMPM5BD11	11 AUX BD TK PUMP (1M0671)	M7	MBP71Q	MBP71Q	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	M7	MMP07Q	MMP07Q	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	M7	MMP36Q	MMP36Q	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	M7	MMP37Q	MMP37Q	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	M7	MVP02Q	MVP02Q	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	M7	MVP03Q	MVP03Q	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	M7	MVP04Q	MVP04Q	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	M7	VAP59Q	VAP59Q	0
1TB12-2 (CP)	1RECEPTMCC116A	POWER RECEPT MCC116 (1W48, 1W49, 1W50, 1W51)	M8	BUQ05Q	BUQ05Q	0
1TB12-2 (CP)	1PNL1C54	12B AMERTAP CNTL PNL 1C54	M8	BUQ23Q	BUQ23Q	0
1TB12-2 (CP)	1PNL1C55	13A AMERTAP CNTL PNL 1C55	M8	BUQ24Q	BUQ24Q	0
1TB12-2 (CP)	1PNL1C56	13B AMERTAP CNTL PNL 1C56	M8	BUQ25Q	BUQ25Q	0
1TB12-2 (CP)	1PUMPCAR14	14 CAR VAC PP (1MB317)	M8	MB317Q	MB317Q	0
1TB12-2 (CP)	1PUMPSMP11TB11	11 TURB BLDG SUMP 11 PP (1M1642)	M8	MBQ42Q	MBQ42Q	0
1TB12-2 (CP)	1PUMPSMP11TB12	11 TURB BLDG SUMP PP 12 (1M1643)	M8	MBQ43Q	MBQ43Q	0
1TB12-2 (CP)	1PUMPM5BD12	12 AUX BD TK PUMP (1M1656)	M8	MBQ56Q	MBQ56Q	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	M8	MMQ06Q	MMQ06Q	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	M8	MMQ07Q	MMQ07Q	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	M8	MMQ36Q	MMQ36Q	0
1TB12-2 (CP)	1PUMPCARSWP14	14 CAR SEAL WTR PUMP (1M1637)	M8	MMQ37Q	MMQ37Q	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	M8	MVQ02Q	MVQ02Q	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	M8	MVQ03Q	MVQ03Q	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	M8	MVQ04Q	MVQ04Q	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	M8	VAQ59Q	VAQ59Q	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	M8	VAQ60Q	VAQ60Q	0
1TB12-3 (CP)	1YS4414	COND PMP MOTOR 11 OIL STRAINER	MC	MCP10	YS414P	0
1TB12-3 (CP)	1YS4421	COND PMP MOTOR 12 OIL STRAINER	MC	MCP20	YS421P	0
1TB12-3 (CP)	1YS4428	COND PMP MOTOR 13 OIL STRAINER	MC	MCP30	YS428P	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	MC	MML11R	MML11R	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	MC	MML12R	MML12R	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	MC	MML13R	MML13R	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	MC	MYC11R	MYC11R	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	MC	MYC12R	MYC12R	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	MC	MYC13R	MYC13R	0
A315	1PCV4415	COND PP 11 SEAL WTR REG	MC	PC415R	PC415R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FL
A315	1PCV4422	COND PP 12 SEAL WTR REG	MC	PC422R	PC422R	0
A315	1PCV4506	COND PP 13 SEAL WTR REG	MC	PC506R	PC506R	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	MC	VAL11R	VAL11R	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	MC	VAL12R	VAL12R	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	MC	VAL13R	VAL13R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	MH	BHEF1I	Open	12
A315	1MOV4516	11 SG FW ISOL	MN	MNBYP1	MV516P	0
A315	1MOV4517	12 SG FW ISOL	MN	MNBYP2	MV517P	0
A315	1CV4043	MSIV 11	MS	MT043C	MT043C	0
A315	1CV4048	MSIV 12	MS	MT048C	MT048C	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A429	1NB430	14A RC PZR HTR 12 PROP CONTR	N3	TC430Q	TC430Q	0
A429	1NB1NB422	H2 RECOMBINER 12 POWER SUPPLY	N4	HR422Q	HR422Q	7
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A429	1PT5315A	1 HVAC/P CNTMT PT TO CIS	PA	PASEND	PTD5AR	38
A429	1PT5315B	1 HVAC/P CNTMT PT TO CIS	PA	PASENE	PTE5BR	38
A429	1PT5315A	1 HVAC/P CNTMT PT TO CIS	PB	PASEND	PTD5AR	38
A429	1PT5315B	1 HVAC/P CNTMT PT TO CIS	PB	PASENE	PTE5BR	38
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	QC	QCMISC	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	QC	QCMISC	MYCP3Q	0
A429	1PT5313A	1 HVAC/P CNTMT PT TO SIAS	SA	SASEND	PTD3AR	38
A429	1PT5313B	1 HVAC/P CNTMT PT TO SIAS	SA	SASENE	PTE3BR	38
A429	1PT5313A	1 HVAC/P CNTMT PT TO SIAS	SB	SASEND	PTD3AR	38
A429	1PT5313B	1 HVAC/P CNTMT PT TO SIAS	SB	SASENE	PTE3BR	38
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SHSV02	SV07BT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SHSV05	SV07CT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SHSV08	SV07DT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SV07BD	SV07BD	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SV07CD	SV07CD	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SV07DD	SV07DD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GD	SV07GD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GT	SV07GT	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FL
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	T1	T1CS1F	LT405R	0
A315	1CV4070	11 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
A315	1CV4071	12 S/G MS TO AFW PP TURB	TG	BHEF1Y	Open	12
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	VC	MMS11R	MMS11R	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	VC	MMS12R	MMS12R	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	VC	MMS13R	MMS13R	0
1TB12-2 (CP)	1PUMPCAR11	11 CAR VAC PP (1MB203)	VC	MMV11R	MMV11R	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	VC	MMV12R	MMV12R	0
1TB12-2 (CP)	1PUMPCAR13	13 CAR VAC PP (1MB303)	VC	MMV13R	MMV13R	0
1TB12-3 (CP)	1HS5225	11 CW PP WTRBX INL VLV HS	VC	VCCW1A	HS225T	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	VC	VCCW1A	MV225P	0
1TB12-3 (CP)	1HS5229	12 CW PP WTRBX INL VLV HS	VC	VCCW2A	HS229T	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	VC	VCCW2A	MV229P	0
1TB12-3 (CP)	1HS5233	13 CW PP WTRBX INL VLV HS	VC	VCCW3A	HS233T	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	VC	VCCW3A	MV233P	0
1TB12-3 (CP)	1HS5237	14 CW PP WTRBX INL VLV HS	VC	VCCW4A	HS237T	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	VC	VCCW4A	MV237P	0
1TB12-3 (CP)	1HS5241	15 CW PP WTRBX INL VLV HS	VC	VCCW5A	HS241T	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	VC	VCCW5A	MV241P	0
1TB12-3 (CP)	1HS5245	15 CW PP WTRBX INL VLV HS	VC	VCCW6A	HS245T	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	VC	VCCW6A	MV245P	0
1TB12-2 (CP)	1CV1754	11 CAR UNIT MOTIVE AIR	VC	VCP011	C3754P	0
1TB12-2 (CP)	1CV1755	11 CAR UNIT SYS DIAPHRAM	VC	VCP011	C3755P	0
1TB12-2 (CP)	1LCV1753	11 CAR SEP	VC	VCP011	LC753R	0
1TB12-2 (CP)	1PS1755	11 CAR CNDSR VAC PP SEAL LOW PRESSURE WTR PS	VC	VCP011	PS755R	0
1TB12-2 (CP)	1CV1757	12 CAR UNIT MOTIVE AIR	VC	VCP012	C3757P	0
1TB12-2 (CP)	1CV1758	12 CAR UNIT SYS DIAPHRAM	VC	VCP012	C3758P	0
1TB12-2 (CP)	1LCV1756	12 CAR SEP LO LVL CONTROL	VC	VCP012	LC756R	0
1TB12-2 (CP)	1PS1758	12 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP012	PS758R	0
1TB12-2 (CP)	1CV1760	13 CAR UNIT MOTIVE AIR	VC	VCP013	C3760P	0
1TB12-2 (CP)	1CV1761	13 CAR UNIT SYS DIAPHRAM	VC	VCP013	C3761P	0
1TB12-2 (CP)	1LCV1759	SEP LO LVL CONTROL	VC	VCP013	LC759R	0
1TB12-2 (CP)	1PS1761	13 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP013	PS761R	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11B	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11P	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12B	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12P	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13B	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13P	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	WJ	BHESH2	Shut	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	WJ	BHESH2	Shut	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	CV584O	CV584O	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	CV584O	CV584O	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	CV584O	CV584O	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	CV592O	CV592O	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	CV592O	CV592O	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	CV592O	CV592O	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	WB102F	CV584P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FL
A221	11/P1584	CNTMT CLR 12 SERV WTR INLT	WY	WB102F	CV584P	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	WB102F	CV584P	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	WD102F	CV592P	0
A221	11/P1592	CNTMT CLR 14 SERV WTR INLT	WY	WD102F	CV592P	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	WD102F	CV592P	0

# Flood Evaluation Query

CF-22A-M520AM

(note 46)\*

23-Nov-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
HL	None	Fire Damper. Mechanical operation only.	PAJ
HR	None	Fire Damper. Mechanical operation only.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
M4	1BKR	1 breaker challenge.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	None Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 5)*	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

\* See note 5 in RAN 98-065 sect. 5.4 JPK

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY08	PS24ZR	0
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A520	0FD520E1	CONTROL RM/CSR EXHAUST FROM RM 512 TO 520 FD	HL	HLEXP	FDRP4I	0
A520	0FD520S2	CONTROL RM/CSR EXHAUST FROM RM 520 TO 521 FD	HL	HLEXP	FDRP5I	0
A520	0FD520S1	CONTROL RM/CSR SUPPLY FROM RM 520 TO 521 FD	HL	HLINFP	FDRJ2I	0
A520	0FD520E4	CONTROL RM/CSR SUPPLY FROM RM 512 TO 520 FD	HL	HLINFP	FDRJ3I	0
A520	0FD520N3	GNTRL RM/CSR EXH FROM RM	HR	FDRO1I	FDRO1I	0
A520	0FD520E7	CONTROL RM/CSR EXHAUST FROM RM 512 TO 520 FD	HR	HREXP	FDRO4I	0
A520	0FD520N1	CONTROL RM/CSR SUPPLY FROM RM 520 TO PWY FD	HR	HRINFP	FDR12I	0
A520	0FD520E3	CONTROL RM/CSR SUPPLY FROM RM 512 TO 520 FD	HR	HRINFP	FDR13I	0
A520	0FD520N2	CONTROL RM/CSR EXHAUST FROM RM 520 TO PWY FD	HR	HRODSA	FDRO3I	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	OPCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV08	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0



# Flood Evaluation Query

CF-22B-M520AN \*

23-Nov-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
HL	None	Fire Damper. Mechanical operation only.	PAJ
HR	None	Fire Damper. Mechanical operation only.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
M4	1BKR	1 breaker challenge.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

\* This flood is deleted. See note 12 in RAN 98-065  
sect 5.4

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS224R	0
A103	1PS224ZA	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A520	0FD520E1	CONTROL RM/CSR EXHAUST FROM RM 512 TO 520 FD	HL	HLEXP	FDRP4I	0
A520	0FD520S2	CONTROL RM/CSR EXHAUST FROM RM 520 TO 521 FD	HL	HLEXP	FDRP5I	0
A520	0FD520S1	CONTROL RM/CSR SUPPLY FROM RM 520 TO 521 FD	HL	HLINFP	FDRJ2I	0
A520	0FD520E4	CONTROL RM/CSR SUPPLY FROM RM 512 TO 520 FD	HL	HLINFP	FDRJ3I	0
A520	0FD520N3	CNTRL RM/CSR EXH FROM RM	HR	FDRO1I	FDRO1I	0
A520	0FD520E7	CONTROL RM/CSR EXHAUST FROM RM 512 TO 520 FD	HR	HREXP	FDRO4I	0
A520	0FD520N1	CONTROL RM/CSR SUPPLY FROM RM 520 TO PWY FD	HR	HRINFP	FDR12I	0
A520	0FD520E3	CONTROL RM/CSR SUPPLY FROM RM 512 TO 520 FD	HR	HRINFP	FDR13I	0
A520	0FD520N2	CONTROL RM/CSR EXHAUST FROM RM 520 TO PWY F	HR	HRODSA	FDR03I	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

**Flood Evaluation Query**

CF-23A-M524AM (note 46) \*

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
HF	None	It is assumed that the fire dampers will not prematurely activate (close) during a flood.	PAJ
HG	None	It is assumed that the fire dampers will not prematurely activate (close) during a flood.	PAJ
HS	F	11 and 12 Switchgear Room Supply Fans fail.	PAJ
M1	2BKR	2 breaker challenges.	PAJ
M2	5BKR	5 breaker challenges.	PAJ
M3	3BKR	3 breaker challenges.	PAJ
M4	1BKR	1 breaker challenge.	PAJ
N1	2BKR	2 breaker challenges.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N3	1BKR	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
RL	None	1CV1565 and 1CV1579 fail open on loss of power and loss of air.	PAJ

\* See note in RAN 98-065 sect 5.4 *JMK*

TOP	PM	EVALUATION	RI
SG	<i>None</i> Spec-Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. <i>(Note 5)</i>	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

*See notes in RAN 98-065 in sect 5.4. JPK*

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A524	1FD524F6	SWGR RM SUPPLY FROM RM 524 TO 430 FD	HF	HFDMP	FD24II	0
A524	1FD524F5	SWGR RM EXHAUST FROM RM 524 TO 430 FD	HF	HFDMP	FD24OI	0
A524	1FD524F6	SWGR RM SUPPLY FROM RM 524 TO 430 FD	HG	HFDMP	FD24II	0
A524	1FD524F5	SWGR RM EXHAUST FROM RM 524 TO 430 FD	HG	HFDMP	FD24OI	0
A524	1SV5426	1 HVAC/A SWGR RM HVAC UNIT 12 SUPP D SV	HS	HSOPR1	IV426T	0
A524	1PCV5426	AIR SUPPLY TO SWGR RM HVAC	HS	HSOPR1	PC426R	0
A524	1TC5426	1 HVAC/A SWGR RM RETURN AIR TC	HS	HSOPR1	TC426R	0
A524	1TT5426	1 HVAC/A SWGR RM TEMPERATURE INDICATOR TRANSFORME	HS	HSOPR1	TT426R	0
A524	1PCV5426A	AIR SUPPLY TO SWGR RM HVAC	HS	HSOPR2	PC26AR	0
A524	1TC5426A	1 HVAC/A SWGR RM RETURN AIR TC	HS	HSOPR2	TC26AR	0
A524	1TT5426A	1 HVAC/A SWGR RM TEMPERATURE INDICATOR TRANSFORME	HS	HSOPR2	TT26AR	0
A524	1HS5426	1 HVAC/A SWGR RM HVAC UNIT 11 FAN HS	HS	HSU11D	HSU11D	0
A524	1HS5426	1 HVAC/A SWGR RM HVAC UNIT 11 FAN HS	HS	HSU11T	HSU11T	0
A524	1HS5426A	1 HVAC/A SWGR RM HVAC UNIT 12 FAN HS	HS	HSU12D	HSU12D	0
A524	1HS5426A	1 HVAC/A SWGR RM HVAC UNIT 12 FAN HS	HS	HSU12T	HSU12T	0
A524	1DAMP5426B	11 U RECIRC AIR DMPR	HS	PO11BP	PO11BP	0
A524	1DAMP5426D	12 U RECIRC AIR DMPR	HS	PO122P	PO122P	0
A524	1DAMP5426A	11 U OUTSIDE AIR DMPR	HS	PP011O	PP011O	0
A524	1DAMP5426A	11 U OUTSIDE AIR DMPR	HS	PP011P	PP011P	0
A524	1DAMP5426C	12 U OUTSIDE AIR DMPR	HS	PP121O	PP121O	0
A524	1DAMP5426C	12 U OUTSIDE AIR DMPR	HS	PP121P	PP121P	0
A524	1FANHVACSWGRS11	11 SWGR RM SPLY FAN (1M1436)	HS	VDU11R	VDU11R	0
A524	1FANHVACSWGRS11	11 SWGR RM SPLY FAN (1M1436)	HS	VDU11S	VDU11S	0
A524	1FANHVACSWGRS12	12 SWGR RM SPLY FAN (1M0436)	HS	VDU12R	VDU12R	0
A524	1FANHVACSWGRS12	12 SWGR RM SPLY FAN (1M0436)	HS	VDU12S	VDU12S	0
A524	1DAMP5413	MAIN EXH FAN 12 DISCH DAMPER (1M05413)	M1	MDM55Q	MDM55Q	0
A524	1FANHVACSWGRS12	12 SWGR RM SPLY FAN (1M0436)	M1	VDM36Q	VDM36Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A524	1DAMP5412	MAIN EXH FAN 11 DISCH DAMPER (1M05412)	M2	MDN55Q	MDN55Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A524	1FANHVACSWGRS11	11 SWGR RM SPLY FAN (1M1436)	M2	VDN36Q	VDN36Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A524	0FAN5362	CR/CSR BATT SPLY FAN (2M0437)	M3	VDO37Q	VDO37Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A524	1COMP5427	SWGR RM A/C COMPRESSOR 11 (1MB110)	N1	CQ110Q	CQ110Q	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A524	1FANHVACABE11	11 AUX BLDG MAIN EXH (1MB117)	N2	VA117Q	VA117Q	0
A524	1COMP5431	SWGR RM A/C COMPRESSOR 12 (1MB410)	N3	CQ410Q	CQ410Q	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A524	1FANHVACABE12	12 AUX BLDG MAIN EXH (1MB417)	N4	VA417Q	VA417Q	0
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A524	1CV1565	SRW HD TK 12 AUTO FILL	RL	CV565O	CV565O	0
A524	1SV1565	SERV WTR HEAD TNK 12 FILL VLV	RL	CV565O	CV565O	0
A524	1CV1579	SRW HD TK 11 AUTO FILL	RL	CV579O	CV579O	0
A524	1SV1579	SERV WTR HEAD TNK 11 FILL VLV	RL	CV579O	CV579O	0
A524	1LS1565	12 SRW HD TK LS	RL	LS565D	LS565D	0
A524	1LS1579	12 SRW HD TK LS	RL	LS579D	LS579D	0
A524	1CV1579	SRW HD TK 11 AUTO FILL	RL	RLHT1F	CV579P	0
A524	1SV1579	SERV WTR HEAD TNK 11 FILL VLV	RL	RLHT1F	CV579P	0
A524	1LS1579	12 SRW HD TK LS	RL	RLHT1F	LS579R	0
A524	1CV1565	SRW HD TK 12 AUTO FILL	RL	RLHT2F	CV565P	0
A524	1SV1565	SERV WTR HEAD TNK 12 FILL VLV	RL	RLHT2F	CV565P	0
A524	1LS1565	12 SRW HD TK LS	RL	RLHT2F	LS565R	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-23B-M524AN \*

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
HF	None	It is assumed that the fire dampers will not prematurely activate (close) during a flood.	PAJ
HG	None	It is assumed that the fire dampers will not prematurely activate (close) during a flood.	PAJ
HS	F	11 and 12 Switchgear Room Supply Fans fail.	PAJ
M1	2BKR	2 breaker challenges.	PAJ
M2	5BKR	5 breaker challenges.	PAJ
M3	3BKR	3 breaker challenges.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1-breaker-challenge.</del>	<del>PAJ</del>
N1	2BKR	2 breaker challenges.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N3	1BKR	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
RL	None	1CV1565 and 1CV1579 fail open on loss of power and loss of air.	PAJ

\* This flood is deleted. See note 12 in DAN 98-065 sect 5.4

*jon*



TOP	PM	EVALUATION	RI
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS224R	0
A103	1PS224ZA	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A524	1FD524F6	SWGR RM SUPPLY FROM RM 524 TO 430 FD	HF	HFDMP	FD24II	0
A524	1FD524F5	SWGR RM EXHAUST FROM RM 524 TO 430 FD	HF	HFDMP	FD24OI	0
A524	1FD524F6	SWGR RM SUPPLY FROM RM 524 TO 430 FD	HG	HFDMP	FD24II	0
A524	1FD524F5	SWGR RM EXHAUST FROM RM 524 TO 430 FD	HG	HFDMP	FD24OI	0
A524	1SV5426	1 HVAC/A SWGR RM HVAC UNIT 12 SUPP D SV	HS	HSOPR1	IV426T	0
A524	1PCV5426	AIR SUPPLY TO SWGR RM HVAC	HS	HSOPR1	PC426R	0
A524	1TC5426	1 HVAC/A SWGR RM RETURN AIR TC	HS	HSOPR1	TC426R	0
A524	1TT5426	1 HVAC/A SWGR RM TEMPERATURE INDICATOR TRANSFORME	HS	HSOPR1	TT426R	0
A524	1PCV5426A	AIR SUPPLY TO SWGR RM HVAC	HS	HSOPR2	PC26AR	0
A524	1TC5426A	1 HVAC/A SWGR RM RETURN AIR TC	HS	HSOPR2	TC26AR	0
A524	1TT5426A	1 HVAC/A SWGR RM TEMPERATURE INDICATOR TRANSFORME	HS	HSOPR2	TT26AR	0
A524	1HS5426	1 HVAC/A SWGR RM HVAC UNIT 11 FAN HS	HS	HSU11D	HSU11D	0
A524	1HS5426	1 HVAC/A SWGR RM HVAC UNIT 11 FAN HS	HS	HSU11T	HSU11T	0
A524	1HS5426A	1 HVAC/A SWGR RM HVAC UNIT 12 FAN HS	HS	HSU12D	HSU12D	0
A524	1HS5426A	1 HVAC/A SWGR RM HVAC UNIT 12 FAN HS	HS	HSU12T	HSU12T	0
A524	1DAMP5426B	11 U RECIRC AIR DMPR	HS	PO11BP	PO11BP	0
A524	1DAMP5426D	12 U RECIRC AIR DMPR	HS	PO122P	PO122P	0
A524	1DAMP5426A	11 U OUTSIDE AIR DMPR	HS	PP011O	PP011O	0
A524	1DAMP5426A	11 U OUTSIDE AIR DMPR	HS	PP011P	PP011P	0
A524	1DAMP5426C	12 U OUTSIDE AIR DMPR	HS	PP121O	PP121O	0
A524	1DAMP5426C	12 U OUTSIDE AIR DMPR	HS	PP121P	PP121P	0
A524	1FANHVACSWGRS11	11 SWGR RM SPLY FAN (1M1436)	HS	VDU11R	VDU11R	0
A524	1FANHVACSWGRS11	11 SWGR RM SPLY FAN (1M1436)	HS	VDU11S	VDU11S	0
A524	1FANHVACSWGRS12	12 SWGR RM SPLY FAN (1M0436)	HS	VDU12R	VDU12R	0
A524	1FANHVACSWGRS12	12 SWGR RM SPLY FAN (1M0436)	HS	VDU12S	VDU12S	0
A524	1DAMP5413	MAIN EXH FAN 12 DISCH DAMPER (1M05413)	M1	MDM55Q	MDM55Q	0
A524	1FANHVACSWGRS12	12 SWGR RM SPLY FAN (1M0436)	M1	VDM36Q	VDM36Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A524	1DAMP5412	MAIN EXH FAN 11 DISCH DAMPER (1M05412)	M2	MDN55Q	MDN55Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A524	1FANHVACSWGRS11	11 SWGR RM SPLY FAN (1M1436)	M2	VDN36Q	VDN36Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A524	0FAN5362	CR/CSR BATT SPLY FAN (2M0437)	M3	VDO37Q	VDO37Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A524	1COMP5427	SWGR RM A/C COMPRESSOR 11 (1MB110)	N1	CQ110Q	CQ110Q	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A524	1FANHVACABE11	11 AUX BLDG MAIN EXH (1MB117)	N2	VA117Q	VA117Q	0
A524	1COMP5431	SWGR RM A/C COMPRESSOR 12 (1MB410)	N3	CQ410Q	CQ410Q	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A524	1FANHVACABE12	12 AUX BLDG MAIN EXH (1MB417)	N4	VA417Q	VA417Q	0
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A524	1CV1565	SRW HD TK 12 AUTO FILL	RL	CV565O	CV565O	0
A524	1SV1565	SERV WTR HEAD TNK 12 FILL VLV	RL	CV565O	CV565O	0
A524	1CV1579	SRW HD TK 11 AUTO FILL	RL	CV579O	CV579O	0
A524	1SV1579	SERV WTR HEAD TNK 11 FILL VLV	RL	CV579O	CV579O	0
A524	1LS1565	12 SRW HD TK LS	RL	LS565D	LS565D	0
A524	1LS1579	12 SRW HD TK LS	RL	LS579D	LS579D	0
A524	1CV1579	SRW HD TK 11 AUTO FILL	RL	RLHT1F	CV579P	0
A524	1SV1579	SERV WTR HEAD TNK 11 FILL VLV	RL	RLHT1F	CV579P	0
A524	1LS1579	12 SRW HD TK LS	RL	RLHT1F	LS579R	0
A524	1CV1565	SRW HD TK 12 AUTO FILL	RL	RLHT2F	CV565P	0
A524	1SV1565	SERV WTR HEAD TNK 12 FILL VLV	RL	RLHT2F	CV565P	0
A524	1LS1565	12 SRW HD TK LS	RL	RLHT2F	LS565R	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-24A-M525AM (note 46)\*

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
K5	None	1CV3820 fail open on loss of power and loss of air.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenge.</del>	<del>PAJ</del>
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	<i>None Spec Impt</i>	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 5)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

\* See notes in RAN 98-065 sect. 5.4 *John*

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A525	1CV3820	M/U CV TO CC HD TK	K5	CV820O	CV820O	0
A525	1SV3820	COMP CLG HEAD TNK LVL CONTROL	K5	CV820O	CV820O	0
A525	1CV3820	M/U CV TO CC HD TK	K5	K5CY11	CV820P	0
A525	1SV3820	COMP CLG HEAD TNK LVL CONTROL	K5	K5CY11	CV820P	0
A525	1LS3820	11 CC HD TK LVL SW	K5	K5CY11	LS820R	0
A525	1LS3820	11 CC HD TK LVL SW	K5	LS820D	LS820D	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-24B-M525AN \*

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
K5	None	1CV3820 fail open on loss of power and loss of air.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
M4	1BKR	1 breaker challenge.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

\* This flood is deleted. See note 12 in RAN 98-065  
 sect. 5.4 JBN

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A525	1CV3820	M/U CV TO CC HD TK	K5	CV8200	CV8200	0
A525	1SV3820	COMP CLG HEAD TNK LVL CONTROL	K5	CV8200	CV8200	0
A525	1CV3820	M/U CV TO CC HD TK	K5	K5CY11	CV820P	0
A525	1SV3820	COMP CLG HEAD TNK LVL CONTROL	K5	K5CY11	CV820P	0
A525	1LS3820	11 CC HD TK LVL SW	K5	K5CY11	LS820R	0
A525	1LS3820	11 CC HD TK LVL SW	K5	LS820D	LS820D	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-25A-M530AM

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenge.</del>	<del>PAJ</del>
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	<del>None</del> Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. <sup>(Note 5)</sup> It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

see notes in RAN 98-665 sect. 5.4 JPK

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-25B-M530AN \*

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenge.</del>	<del>PAJ</del>
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

\* This flood is deleted. See note 12 in RAN 98-065 sect 5.4

JOK

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS224R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-26A-M536AM

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
M4	1BKR	1 breaker challenge.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	<del>None</del> Spec Impt	(Note 5) The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

See Notes in RAN 98-065 sect. 5.4. Jan



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER1	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER1	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER1	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS224R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-26B-M536AN \*

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
M4	1BKR	1 breaker challenge.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

\* This flood is deleted. See note 12 in PAN 98-065  
sect 5.4 JON

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRV02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRV05	PS224R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRV06	PS24ZR	0
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-27A-M537AM

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenge.</del>	<del>PAJ</del>
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	None Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 5)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

See notes in RAN 98-065 sect 5.4

*JMR*

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0



# Flood Evaluation Query

CF-27B-M537AN \*

09-Dec-98

TOP	PM	EVALUATION	RI
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenge.</del>	<del>PAJ</del>
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

\* This Flood is deleted. See note 12 in PAN 98-065  
sect 5.4 JFM

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS224R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-28A-N603AR

23-Nov-98

TOP	PM	EVALUATION	RI
AA	3BKR	3 breaker challenges.	PAJ
AB	1BKR	1 breaker challenge.	PAJ
CV	A.F F gna	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F1	None	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. (Note 1) (Note 2)	PAJ
F7	F	Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G. (note 14)	PAJ
FC	None Spec Impt	AFW Pump Room Emergency Vent Fans 11 & 12 fail along with NSR A/C Unit fail. (Note 14)	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
M1	3BKR	3 breaker challenges.	PAJ
M2	6BKR	6 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
N1	1BKR	1 breaker challenge.	PAJ

See notes in RAN 98-065 sect. 5.4

TOP	PM	EVALUATION	RI
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
S3	<del>F</del> None	<del>11 and 13 SRW Pumps fail.</del> (note 1)	PAJ
S4	<del>F</del> None	<del>12 and 13 SRW Pumps fail.</del> (note 1)	PAJ
SG	<del>Spec Impt</del> None	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 5)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
TA	<del>F</del> None	<del>1CV1637/1639 fail close on loss of power / loss of air.</del> (Note 1)	PAJ
TB	<del>F</del> None	<del>1CV1600/1638 fail close on loss of power / loss of air.</del> (Note 1)	PAJ
TF	F	11 AFW TD Pump fails.	PAJ
TG	F	12 AFW TD Pump fails.	PAJ
TH(HD1)	None	1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3.	PAJ
TH(HD2)	None	1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4.	PAJ
UQ	None	1CV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
V5	F	TOP EVENT V5 is no longer used. <i>gan</i> <del>11 and 12 ECCS exhaust fans fails to start/run.</del>	PAJ

TOP	PM	EVALUATION	RI
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE F
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	AA	MWSR1Q	MWSR1Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AA	MWSR3Q	MWSR3Q	32
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	AB	MWSR2Q	MWSR2Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AB	MWSR4Q	MWSR4Q	32
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A226	1CV4522	11 S/G AFW BLOCK VLV	F1	CV4522	CV522P	40
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1CV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1CV4532	12 S/G AFW BLOCK VLV	F1	CV4532	CV532P	40
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A226	11/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	11/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	11/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	11/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	11/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	11/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	11/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	11/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11R	0
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11S	0
A225	1HS5472	MCC-101-BT BKR 52-10150 AFW PP RM A/C UNIT 11	FC	FCAC11	HS472T	0
A225	1HS5470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470D	18
A225	1HS5470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470T	18
A225	1HS5471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471D	18
A225	1HS5471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471T	18
T603	1FDAFWW1	AFW RM SUPPLY FROM RM 225 TO 1AFW FD	FC	FDAMPR	FD001I	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE F
A226	11/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	11/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	11/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	11/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	11/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	11/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	11/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	11/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1CV5210	11 SRW HX SW OUTLET CV	K3	C2210C	C2210C	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A226	1CV5210	11 SRW HX SW OUTLET CV	K3	K3CLOS	C2210T	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	C2212C	C2212C	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	K4ISO1	C2212T	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A225	1FANHVACPENETE12	12 PENET RM EXH FAN (1M0402)	M1	VDM02Q	VDM02Q	18.75
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	M1	VDM13Q	VDM13Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A225	1FANHVACPENETE11	11 PENET RM EXH FAN (1M1402)	M2	VDN02Q	VDN02Q	18.75
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	M2	VDN13Q	VDN13Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFP CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFP OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE F
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A226	1CV4522	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1CV4532	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1CV5150	11 SRW HX SW INLET	S3	C1150P	C1150P	60
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11R	MWS11R	32
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11S	MWS11S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13S	MWS13S	32
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE F
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1CV5210	11 SRW HX SW OUTLET CV	S3	S3H1BV	C2210P	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1I/P5157	12A/12B SRW HX SW OUT I/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	C2212O	C2212O	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12R	MWS12R	32

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE F
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12S	MWS12S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13S	MWS13S	32
A226	1CV5152	12 SRW HX SW INLET	S4	S4CV52	C1152P	60
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	S4H2BV	C2212P	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A226	1SV1637	TURB LUBE&EHC OIL SERVWTR ISOL	TA	TAFB01	C3637P	0
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RR	AW11RR	30
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RS	AW11RS	30
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	TF11TP	VT986P	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	TF11TP	VT986P	0
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	VT986O	VT986O	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	VT986O	VT986O	0
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RR	AW12RR	30

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE F
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RS	AW12RS	30
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	TGTP12	VT988P	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	TGTP12	VT988P	0
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	VT988O	VT988O	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	VT988O	VT988O	0
A226	1CV5210	11 SRW HX SW OUTLET CV	TH(HD1)	BHER3B	Throttle	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A226	1CV5212	12 SRW HX SW OUT CV	TH(HD2)	BHER3B	Throttle	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11R	VDF11R	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11S	VDF11S	0
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12R	VDF12R	0
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12S	VDF12S	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-28B-N603AN

23-Nov-98

TOP	PM	EVALUATION	RI
AA	3BKR	3 breaker challenges.	PAJ
AB	1BKR	1 breaker challenge.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F1	None	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. <i>(Note 1) (Note 2)</i>	PAJ
F7	F	Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G. <i>(Note 14)</i>	PAJ
FC	<i>None</i> <del>Spec Impt</del>	AFW Pump Room Emergency Vent Fans 11 & 12 fail along with NSR A/C Unit fail. <i>(Note 14)</i>	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
M1	3BKR	3 breaker challenges.	PAJ
M2	6BKR	6 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenges.</del>	<del>PAJ</del>
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ

See notes in RAN 98-065 sect. 5.4

*JMSK*

TOP	PM	EVALUATION	RI
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
S3	<del>F</del> None	11 and 13 SRW Pumps fail. (Note 1)	PAJ
S4	<del>F</del> None	12 and 13 SRW Pumps fail. (Note 1)	PAJ
SG	<del>Spec Impt</del> None	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 5)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
TA	<del>F</del> None	1CV1637/1639 fail close on loss of power / loss of air. (Note 1)	PAJ
TB	<del>F</del> None	1CV1600/1638 fail close on loss of power / loss of air. (Note 1)	PAJ
TF	F	11 AFW TD Pump fails.	PAJ
TG	F	12 AFW TD Pump fails.	PAJ
TH(HD1)	None	1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3. (Note 1)	PAJ
TH(HD2)	None	1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4. (Note 1)	PAJ

TOP	PM	EVALUATION	RI
UQ	None	1CV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
<del>V5</del>	<del>F</del>	<del>11 and 12 ECCS exhaust fans fails to start/run.</del> <i>TOP EVENT VS no longer used. gsm</i>	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	AA	MWSR1Q	MWSR1Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AA	MWSR3Q	MWSR3Q	32
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	AB	MWSR2Q	MWSR2Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AB	MWSR4Q	MWSR4Q	32
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRV02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRV05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRV06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A226	1CV4522	11 S/G AFW BLOCK VLV	F1	CV4522	CV522P	40
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1CV4532	12 S/G AFW BLOCK VLV	F1	CV4532	CV532P	40
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11R	0
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11S	0
A225	1HS5472	MCC-101-BT BKR 52-10150 AFW PP RM A/C UNIT 11	FC	FCAC11	HS472T	0
A225	1HS5470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470D	18
A225	1HS5470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470T	18
A225	1HS5471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471D	18
A225	1HS5471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471T	18
T603	1FDAFWW1	AFW RM SUPPLY FROM RM 225 TO 1AFW FD	FC	FDAMPR	FD001I	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1CV5210	11 SRW HX SW OUTLET CV	K3	C2210C	C2210C	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A226	1CV5210	11 SRW HX SW OUTLET CV	K3	K3CLOS	C2210T	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	C2212C	C2212C	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	K4ISO1	C2212T	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A225	1FANHVACPENETE12	12 PENET RM EXH FAN (1M0402)	M1	VDM02Q	VDM02Q	18.75
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	M1	VDM13Q	VDM13Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A225	1FANHVACPENETE11	11 PENET RM EXH FAN (1M1402)	M2	VDN02Q	VDN02Q	18.75
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	M2	VDN13Q	VDN13Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	** ABOVE FLOOR
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A226	1CV4522	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1CV4532	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1CV5150	11 SRW HX SW INLET	S3	C1150P	C1150P	60
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11R	MWS11R	32
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11S	MWS11S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13S	MWS13S	32
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1CV5210	11 SRW HX SW OUTLET CV	S3	S3H1BV	C2210P	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1P/P5157	12A/12B SRW HX SW OUT 1/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	C2212O	C2212O	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C22120	C22120	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C22120	C22120	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C22120	C22120	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C22120	C22120	0
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12R	MWS12R	32
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12S	MWS12S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13S	MWS13S	32
A226	1CV5152	12 SRW HX SW INLET	S4	S4CV52	C1152P	60
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PH	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PH	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	S4H2BV	C2212P	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A226	1SV1637	TURB LUBE&EHC OIL SERWTR ISOL	TA	TAFB01	C3637P	0
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RR	AW11RR	30
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RS	AW11RS	30

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	TF11TP	VT986P	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	TF11TP	VT986P	0
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	VT986O	VT986O	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	VT986O	VT986O	0
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RR	AW12RR	30
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RS	AW12RS	30
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	TGTP12	VT988P	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	TGTP12	VT988P	0
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	VT988O	VT988O	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	VT988O	VT988O	0
A226	1CV5210	11 SRW HX SW OUTLET CV	TH(HD1)	BHER3B	Throttle	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A226	1CV5212	12 SRW HX SW OUT CV	TH(HD2)	BHER3B	Throttle	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11R	VDF11R	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11S	VDF11S	0
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12R	VDF12R	0
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12S	VDF12S	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-28C-F603AM

23-Nov-98

TOP	PM	EVALUATION	RI
AA	1BKR	1 breaker challenge.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F1	None	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. <i>(Note 1) (Note 2)</i>	PAJ
F7	<i>None</i> <del>F</del>	<del>Loss the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.</del> <i>(Note 1)</i>	PAJ
FC	<i>None</i> Spec Impt	NSR A/C Unit fails. <i>(Note 34)</i>	PAJ
FH	None	<del>Loss the ability to start AFW MD Pump 13.</del> Covered under Top F7. <i>(Note 1)</i>	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
M1	1BKR	1 breaker challenges.	PAJ
M2	4BKR	4 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenges.</del>	<del>PAJ</del>
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
N1	1BKR	1 breaker challenge.	PAJ

See notes in RAN 98-065 sect. 5.4 *gdn*

TOP	PM	EVALUATION	RI
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
S3	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5148 (FO), 1CV5148A (FC), 1CV5151 (FO), 1CV5151A (FC) and 1CV5209 (FO).	PAJ
S4	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5158 (FO), 1CV5158A (FC), 1CV5159 (FO), 1CV5159A (FC), 1CV5211 (FO), 1CV5153 (FO) and 1CV5157 (FC).	PAJ
SG	<del>None</del> Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 5)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
TA	<del>None</del> F	1CV1637/1639 fail close on loss of power / loss of air. (Note 1)	PAJ
TB	<del>None</del> F	1CV1600/1638 fail close on loss of power / loss of air. (Note 1)	PAJ
TF	F	11 AFW TD Pump fails.	PAJ
TG	F	12 AFW TD Pump fails.	PAJ
TH(HD1)	None	<del>Top Event TH deleted</del> 1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3.	PAJ
TH(HD2)	None	<del>TH Deleted</del> 1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4.	PAJ

TOP	PM	EVALUATION	RI
UQ	None	1CV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK118B	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK128B	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK138B	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11R	0
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11S	0
T603	1FDAFWW1	AFW RM SUPPLY FROM RM 225 TO 1AFW FD	FC	FDAMPR	FD001I	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1U/P5157	12A/12B SRW HX SW OUT IP	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERter VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERter SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERter VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERter SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PH	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PH	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERter VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERter SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERter VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A226	1SV1637	TURB LUBE&EHC OIL SERVWTR ISOL	TA	TAFB01	C3637P	0
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RR	AW11RR	30
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RS	AW11RS	30
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	TF11TP	VT988P	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	TF11TP	VT988P	0
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	VT986O	VT986O	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	VT986O	VT986O	0
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RR	AW12RR	30
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RS	AW12RS	30
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	TGTP12	VT988P	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	TGTP12	VT988P	0
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	VT988O	VT988O	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	VT988O	VT988O	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-28D-F603AN \*

23-Nov-98

TOP	PM	EVALUATION	RI
AA	4BKR	4 breaker challenges.	PAJ
AB	4BKR	4 breaker challenges.	PAJ
AC	2BKR	2 breaker challenges.	PAJ
AD	5BKR	5 breaker challenges.	PAJ
CS	F	CS Pump 11 is lost.	PAJ
CT	F	CS Pump 12 is lost.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F1	None	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX.	PAJ
F7	F	Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
FC	Spec Impt	11 AFW Pump Room A/C Unit fails.	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
GW	None	2CV5152, 2CV5153 and 2CV5212 fail open on loss of power and loss of air.	PAJ
GZ	None	2CV5150 and 2CV5210 fail open on loss of power and loss of air.	PAJ
HA	F	11 HPSI Pump fails.	PAJ
HB	F	13 HPSI Pump fails.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ

\* This flood is deleted. See RAN 98-065 sect 5.4, note 12  
*John*

TOP	PM	EVALUATION	RI
HW	F	12 HPSI is lost. Also 1MOV653, 1MOV654, 1MOV655 and 1MOV656 fail as-is.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
M1	7BKR	7 breaker challenges.	PAJ
M2	10BKR	10 breaker challenges.	PAJ
M3	9BKR	9 breaker challenges.	PAJ
<del>M4</del>	<del>5BKR</del>	<del>5 breaker challenges.</del>	<del>PAJ</del>
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MV	None	1MOV659/660 fail as-is and are normally electrically locked open, there will be no flood impact.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ

TOP	PM	EVALUATION	RI
NR(TC)	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1.	PAJ
NS	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4520/4521/4522/4523/4530/ 4531/ 4532/4533) are normally open and fail as-is on loss of power.	PAJ
RH	F	This human action requires the operator to start 11 and 13 HPSI Pumps. Both pumps are assumed not to start/run during a flood scenario.	PAJ
S3	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5148 (FO), 1CV5148A (FC), 1CV5151 (FO), 1CV5151A (FC) and 1CV5209 (FO).	PAJ
S4	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5158 (FO), 1CV5158A (FC), 1CV5159 (FO), 1CV5159A (FC), 1CV5211 (FO), 1CV5153 (FO) and 1CV5157 (FC).	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
SR	None	All MOVs (1MOV4144/4145/5462/5463) are closed and fail close.	PAJ
TA	F	1CV1637/1639 fail close on loss of power / loss of air.	PAJ
TB	F	1CV1600/1638 fail close on loss of power / loss of air.	PAJ
TE	F	1MOV4144 is normally in the closed position and will fail as-is. Therefore, the East Recirculation Header will not function properly.	PAJ
TF	F	11 AFW TD Pump fails.	PAJ
TG	F	12 AFW TD Pump fails.	PAJ
TH(HD1)	None	1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3.	PAJ
TH(HD2)	None	1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4.	PAJ



TOP	PM	EVALUATION	RI
TW	F	1MOV4145 is normally in the closed position and will fail as-is. Therefore, the West Recirculation Header will not function properly.	PAJ
UQ	None	1CV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
V1	F	All ECCS Pump Room Fans fail to start/run.	PAJ
V2	F	All ECCS Pump Room Fans fail to start/run.	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
VM(RM1)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V1.	PAJ
VM(RM2)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V2.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	AA	MACS1Q	MACS1Q	12
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	AA	MAHP1Q	MAHP1Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AA	MAHP3Q	MAHP3Q	12
A119	1PUMPSILPSI11	11 LOW PRESS SAFETY INJECTION PUMP (1MA104)	AA	MALP1Q	MALP1Q	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	AB	MACS2Q	MACS2Q	12
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	AB	MAHP2Q	MAHP2Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AB	MAHP4Q	MAHP4Q	12
A118	1PUMPSILPSI12	12 LOW PRESS SAFETY INJECTION PUMP (1MA404)	AB	MALP2Q	MALP2Q	12
A101	2PUMPSICS21	21 CONTAINMENT SPRAY PUMP (2MA107)	AC	MACS3Q	MACS3Q	24
A101	2PUMPHPSI21	SI HPSI PUMP 21 (2MA108)	AC	MAHP5Q	MAHP5Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AC	MAHP7Q	MAHP7Q	12
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A102	2PUMPSICS22	22 CONTAINMENT SPRAY PUMP (2MA407)	AD	MACS4Q	MACS4Q	12
A101	2PUMPHPSI22	SI HPSI PUMP 22 (2MA408)	AD	MAHP6Q	MAHP6Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AD	MAHP8Q	MAHP8Q	12
A102	2PUMPSILPSI22	22 LOW PRESS SAFETY INJECTION PUMP (2MA404)	AD	MALP4Q	MALP4Q	12
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11B	0
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11P	0
A119	1MOV663	SDC RECIRC TO 11 HPSI PP	CS	CS0103	MV663T	0
A119	1CV3828	11 SDC HX OUTLET	CS	CSHX11	CV828P	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CSHX11	CV828P	0
A119	1CV3828	11 SDC HX OUTLET	CS	CV828O	CV828O	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CV828O	CV828O	0
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107R	MA107R	12
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107S	MA107S	12
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12B	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12P	0
A118	1MOV662	SDC RECIRC TO 13 HPSI PP	CT	CT0103	MV662T	0
A118	1CV3830	12 SDC HX OUTLET	CT	CTXH12	CV830P	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CTXH12	CV830P	0
A118	1CV3830	12 SDC HX OUTLET	CT	CV830O	CV830O	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CV830O	CV830O	0
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407R	MA407R	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407S	MA407S	12
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A226	11/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	11/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	11/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	11/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	11/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	11/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	11/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	11/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50O	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11R	0
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11S	0
T603	1FDAFWW1	AFW RM SUPPLY FROM RM 225 TO 1AFW FD	FC	FDAMPR	FD001I	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AP	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BP	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AB	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AP	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BB	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BP	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1B	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1P	0
A119	1MOV656	AUX HPSI HDR ISOL	HA	HADISA	MV656P	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011R	MA011R	24
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011S	MA011S	24
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AP	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BP	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AB	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AP	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BB	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BP	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3B	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3P	0
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013R	MA013R	12
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013S	MA013S	12
A118	1MOV654	HPSI HDR ISOL	HB	MV654P	MV654P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A118	1PUMPHPSI12	12 HIGH PRESS SAFETY INJECTION PUMP	HW	BHEHW1	Start	12
A119	1MOV658	AUX HPSI HDR ISOL	HW	HADISA	MV656P	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AP	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BP	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AB	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AP	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BB	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BP	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2B	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2P	0
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012R	MA012R	24
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012S	MA012S	24
A118	1MOV653	HPSI HDR X-CONN	HW	MV653O	MV653O	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653P	MV653P	0
A118	1MOV654	HPSI HDR ISOL	HW	MV654P	MV654P	0
A119	1MOV655	HPSI HDR X-CONN	HW	MV655P	MV655P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	M1	M1FPPR	VD48AQ	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	M1	M1FPPR	VD48BQ	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	M1	M1FPPR	VD48CQ	22
A118	1MOV654	HPSI HDR ISOL	M1	MVM21Q	MVM21Q	0
A118	1MOV653	HPSI HDR X-CONN	M1	MVM22Q	MVM22Q	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	M1	MVM30Q	MVM30Q	0
A118	1MOV660	MINI FLOW RETN TO RWT	M1	MVM32Q	MVM32Q	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	M1	MVM44Q	MVM44Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	M2	M2FPPR	VD48AQ	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	M2	M2FPPR	VD48BQ	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	M2	M2FPPR	VD48CQ	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	M2	M2FPPR	VD48DQ	22
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A119	1MOV656	AUX HPSI HDR ISOL	M2	MVN21Q	MVN21Q	0
A119	1MOV655	HPSI HDR X-CONN	M2	MVN22Q	MVN22Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A118	1MOV659	MINI FLOW RETN TO RWT	M2	MVN32Q	MVN32Q	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	M2	MVN44Q	MVN44Q	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	M2	MVN57Q	MVN57Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A102	2FAN0448A	ECCS PP RM CLR 22 FAN A (2M0448A)	M3	M3FPPR	VD48AQ	22
A102	2FAN0448B	ECCS PP RM CLR 22 FAN B (2M0448B)	M3	M3FPPR	VD48BQ	22
A102	2FAN0448C	ECCS PP RM CLR 22 FAN C (2M0448C)	M3	M3FPPR	VD48CQ	22
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A102	2MOV654	HPSI HDR ISOL	M3	MVO21Q	MVO21Q	0
A102	2MOV653	HPSI HDR X-CONN	M3	MVO22Q	MVO22Q	0
A120	2MOV5463	U-2 CONTMT RECIRC PIPE TUNNEL	M3	MVO30Q	MVO30Q	0
A102	2MOV660	MINI FLOW RETN TO RWT	M3	MVO32Q	MVO32Q	0
A120	2MOV4145	CONTMT SUMP OUTLET ISOL	M3	MVO44Q	MVO44Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A102	2MOV659	MINI FLOW RETN TO RWT	M4	MVN32Q	MVN32Q	0
A120	2MOV4144	CONTMT SUMP OUTLET ISOL	M4	MVN44Q	MVN44Q	0
A120	2MOV5462	U-2 CONTMT RECIRC PIPE TUNNEL	M4	MVN57Q	MVN57Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFP CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFP OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MVOA11	MV659P	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MVOA11	MV659X	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MVOA11	MV660P	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MVOA11	MV660X	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	RH	BHERH1	Start	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	RH	BHERH1	Start	12
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1HXSrw11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSrw11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSrw11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSrw11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1I/P5157	12A/12B SRW HX SW OUT WP	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A228	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144C	MV144C	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144T	MV144T	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145C	MV145C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145T	MV145T	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462C	MV462C	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462T	MV462T	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463C	MV463C	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463T	MV463T	0
A226	1SV1637	TURB LUBE&EHC OIL SERWTR ISOL	TA	TAFB01	C3637P	0
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	MV144O	MV144O	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	TE0101	MV144P	0
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RR	AW11RR	30
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RS	AW11RS	30
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	TF11TP	VT986P	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	TF11TP	VT986P	0
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	VT986O	VT986O	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	VT986O	VT986O	0
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RR	AW12RR	30
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RS	AW12RS	30
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	TGTP12	VT988P	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	TGTP12	VT988P	0
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	VT988O	VT988O	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	VT988O	VT988O	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	TH(HD2)	BHER3B	Open	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	MV145O	MV145O	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	TW0101	MV145P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	TS404D	TS404D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC170P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1TEMP	TS404R	0
A119	1HXHVACECS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205B	0
A119	1HXHVACECS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205P	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AR	VD11AR	22
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AS	VD11AS	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BR	VD11BR	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BS	VD11BS	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CR	VD11CR	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CS	VD11CS	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DR	VD11DR	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DS	VD11DS	22
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170D	WC170D	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC1700	WC1700	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171D	WC171D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171O	WC171O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	TS405D	TS405D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2INLT	WC173P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2TEMP	TS405R	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207B	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AR	VD12AR	22
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AS	VD12AS	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BR	VD12BR	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BS	VD12BS	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CR	VD12CR	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CS	VD12CS	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173D	WC173D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173O	WC173O	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	VM(RM1)	BHEV1T	Start	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM2)	BHEV1T	Open	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	VM(RM2)	BHEV1T	Start	22
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-28E-D603AM

23-Nov-98

TOP	PM	EVALUATION	RI
AA	1BKR	1 breaker challenge.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F1	None	11 and 12 S/G AFW Block Valves fail. <sup>(Note 1)</sup> These valves are normally open and will fail open. <sup>(Note 2)</sup> Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX.	PAJ
F7	<del>F</del> None	<del>Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.</del> <sup>(Note 1)</sup>	PAJ
FC	<del>Spec Impt</del> None	NSR A/C Unit fails. <sup>(Note 34)</sup>	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
M1	1BKR	1 breaker challenges.	PAJ
M2	4BKR	4 breaker challenges.	PAJ
M3	2BKR	2 breaker challenges.	PAJ
<del>M4</del>	<del>1BKR</del>	<del>1 breaker challenges.</del>	<del>PAJ</del>
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
N1	1BKR	1 breaker challenge.	PAJ

See notes in RAN 98-065 sect. 5.4 *gpm*

TOP	PM	EVALUATION	RI
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
S3	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5148 (FO), 1CV5148A (FC), 1CV5151 (FO), 1CV5151A (FC) and 1CV5209 (FO).	PAJ
S4	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5158 (FO), 1CV5158A (FC), 1CV5159 (FO), 1CV5159A (FC), 1CV5211 (FO), 1CV5153 (FO) and 1CV5157 (FC).	PAJ
SG	<del>None</del> Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 5)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
TA	<del>F</del>	<del>1CV1637/1639 fail close on loss of power / loss of air.</del> (Note 1)	PAJ
TB	<del>F</del>	<del>1CV1600/1638 fail close on loss of power / loss of air.</del> (Note 1)	PAJ
TF	F	11 AFW TD Pump fails.	PAJ
TG	F	12 AFW TD Pump fails.	PAJ
<del>TH(HD1)</del>	<del>None</del>	<del>1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3.</del> <sup>Top Event deleted JPH</sup>	<del>PAJ</del>
<del>TH(HD2)</del>	<del>None</del>	<del>1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4.</del> <sup>Top Event deleted JPH</sup>	<del>PAJ</del>

<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
UQ	None	ICV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11R	0
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11S	0
T603	1FDAFWW1	AFW RM SUPPLY FROM RM 225 TO 1AFW FD	FC	FDAMPR	FD001I	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1HXS11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXS11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXS11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXS11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1I/P5157	12A/12B SRW HX SW OUT I/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PH	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PH	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A226	1SV1637	TURB LUBE&EHC OIL SERVWTR ISOL	TA	TAFB01	C3637P	0
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RR	AW11RR	30
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RS	AW11RS	30
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	TF11TP	VT986P	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	TF11TP	VT986P	0
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	VT986O	VT986O	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	VT986O	VT986O	0
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RR	AW12RR	30
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RS	AW12RS	30
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	TGTP12	VT988P	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	TGTP12	VT988P	0
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	VT988O	VT988O	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	VT988O	VT988O	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A226	11/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	11/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	11/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	11/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-29A-N605AR \*

23-Nov-98

TOP	PM	EVALUATION	RI
AC	1BKR	1 breaker challenge.	PAJ
AD	3BKR	3 breaker challenges.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
GW	<del>F</del> <sup>None</sup>	<del>22 and 23 SRW Pump fail.</del> (Note 1)	PAJ
GZ	<del>F</del> <sup>None</sup>	<del>21 and 23 SRW Pump fail.</del> (Note 1)	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	5BKR	5 breaker challenges.	PAJ
<del>M4</del>	<del>3BKR</del>	<del>3 breaker challenges.</del>	<del>PAJ</del>
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
NR(TC)	<del>Spec Impt</del> <sup>None</sup>	<del>2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1.</del> (Note 1)	PAJ
NS	Spec Impt	<del>2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.</del> (Note 1)	PAJ

See notes in RAN 98-065 sect. 5.4 JSM  
 \* This flood is re-designated N605AM in RAN 94-001 CF-29 JSM

TOP	PM	EVALUATION	RI
SG	<del>Spec Impt</del> None	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	AC	MWSR5Q	MWSR5Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AC	MWSR7Q	MWSR7Q	32
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	AD	MWSR6Q	MWSR6Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AD	MWSR8Q	MWSR8Q	32
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS224R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	CVB22C	CVB22C	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	CVB32C	CVB32C	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50O	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB22T	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB32T	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A205	2CV5212	22 SRW HX SW OUT CV	GW	C2S12O	C2S12O	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22R	MWT22R	32
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22S	MWT22S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23S	MWT23S	32
A205	2CV5152	22 SRW HX SW INLET	GW	S8CV52	C1S52P	60
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A205	2CV5212	22 SRW HX SW OUT CV	GW	S8H2CV	C2S12P	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21R	MWT21R	32
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21S	MWT21S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23S	MWT23S	32
A205	2CV5150	21 SRW HX SW INLET	GZ	S7H2CV	C1S50P	60
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2CV5210	21 SRW HX SW OUTLET CV	GZ	S7H2CV	C2S10P	60
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A204	2FANHVAOPENETE22	22 PENET RM EXH FAN (2M1402)	M3	VDO02Q	VDO02Q	18.75
A204	2FANHVAECCSE22	22 ECCS PUMP RM EXH (2M0413)	M3	VDO13Q	VDO13Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A204	2FANHVAOPENETE21	21 PENET RM EXH FAN (2M0402)	M4	VDN02Q	VDN02Q	18.75
A204	2FANHVAECCSE21	21 ECCS PUMP RM EXH (2M1413)	M4	VDN13Q	VDN13Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

**Flood Evaluation Query**

CF-29B-N605AN \*

23-Nov-98

TOP	PM	EVALUATION	RI
AC	1BKR	1 breaker challenge.	PAJ
AD	3BKR	3 breaker challenges.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
GW	F	22 and 23 SRW Pump fail.	PAJ
GZ	F	21 and 23 SRW Pump fail.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	5BKR	5 breaker challenges.	PAJ
<del>M4</del>	<del>4BKR</del>	<del>4 breaker challenges.</del>	<del>PAJ</del>
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ

\*This flood is deleted. See note 12 in RAN 98-065 sect. 5.4





TOP	PM	EVALUATION	RI
NR(TC)	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1.	PAJ
NS	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	AC	MWSR5Q	MWSR5Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AC	MWSR7Q	MWSR7Q	32
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	AD	MWSR6Q	MWSR6Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AD	MWSR8Q	MWSR8Q	32
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	CVB22C	CVB22C	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	CVB32C	CVB32C	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B500	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB22T	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB32T	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A205	2CV5212	22 SRW HX SW OUT CV	GW	C2S12O	C2S12O	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22R	MWT22R	32
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22S	MWT22S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23S	MWT23S	32
A205	2CV5152	22 SRW HX SW INLET	GW	S8CV52	C1S52P	60
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2CV5212	22 SRW HX SW OUT CV	GW	S8H2CV	C2S12P	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21R	MWT21R	32
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21S	MWT21S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23S	MWT23S	32
A205	2CV5150	21 SRW HX SW INLET	GZ	S7H2CV	C1S50P	60
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2CV5210	21 SRW HX SW OUTLET CV	GZ	S7H2CV	C2S10P	60
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A204	2FANHVACPENETE22	22 PENET RM EXH FAN (2M1402)	M3	VDO02Q	VDO02Q	18.75
A204	2FANHVACECCSE22	22 ECCS PUMP RM EXH (2M0413)	M3	VDO13Q	VDO13Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A204	2FANHVACPENETE21	21 PENET RM EXH FAN (2M0402)	M4	VDN02Q	VDN02Q	18.75
A204	2FANHVACECCSE21	21 ECCS PUMP RM EXH (2M1413)	M4	VDN13Q	VDN13Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-29C-F605AM

23-Nov-98

TOP	PM	EVALUATION	RI
AD	1BKR	1 breaker challenges.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F9	<del>F</del> None	<del>Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as is (open) on loss of power.</del> (Note 1)	PAJ
GW	None	2CV5152, 2CV5153 and 2CV5212 fail open on loss of power and loss of air.	PAJ
GZ	None	2CV5150 and 2CV5210 fail open on loss of power and loss of air.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	3BKR	3 breaker challenges.	PAJ
<del>M4</del>	<del>2BKR</del>	<del>2 breaker challenges.</del>	<del>PAJ</del>
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
NR(TC)	<del>Spec-Impt</del> None	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1. (Note 1)	PAJ

See notes in RAN 98-065 sect 5.4 *gsm*

TOP	PM	EVALUATION	RI
NS	None Spec Impt	<del>2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.</del> (Note 1)	PAJ
SG	None Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Notes)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50O	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A205	2/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135° E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135° E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135° E 1-SX-5900D	WJ	BHESH2	Shut	0



# Flood Evaluation Query

CF-29D-F605AN \*

01-Dec-98

TOP	PM	EVALUATION	RI
AA	4BKR	4 breaker challenges.	PAJ
AB	4BKR	4 breaker challenges.	PAJ
AC	2BKR	2 breaker challenges.	PAJ
AD	5BKR	5 breaker challenges.	PAJ
CS	F	CS Pump 11 is lost.	PAJ
CT	F	CS Pump 12 is lost.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F1	None	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX.	PAJ
F7	F	Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
GW	None	2CV5152, 2CV5153 and 2CV5212 fail open on loss of power and loss of air.	PAJ
GZ	None	2CV5150 and 2CV5210 fail open on loss of power and loss of air.	PAJ
HA	F	11 HPSI Pump fails.	PAJ
HB	F	13 HPSI Pump fails.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	F	12 HPSI is lost. Also IMOV653, IMOV654, IMOV655 and IMOV656 fail as-is.	PAJ

\* This flood is deleted. See note 12 in RAN 98-065 sect. 5.4

*John*

TOP	PM	EVALUATION	RI
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
M1	7BKR	7 breaker challenges.	PAJ
M2	10BKR	10 breaker challenges.	PAJ
M3	9BKR	9 breaker challenges.	PAJ
<del>M4</del>	<del>5BKR</del>	<del>5-breaker-challenges.</del>	<del>PAJ</del>
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MV	None	1MOV659/660 fail as-is and are normally electrically locked open, there will be no flood impact.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
NR(TC)	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1.	PAJ

TOP	PM	EVALUATION	RI
NS	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
RH	F	This human action requires the operator to start 11 and 13 HPSI Pumps. Both pumps are assumed not to start/run during a flood scenario.	PAJ
S3	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5148 (FO), 1CV5148A (FC), 1CV5151 (FO), 1CV5151A (FC) and 1CV5209 (FO).	PAJ
S4	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5158 (FO), 1CV5158A (FC), 1CV5159 (FO), 1CV5159A (FC), 1CV5211 (FO), 1CV5153 (FO) and 1CV5157 (FC).	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
SR	None	All MOVs (1MOV4144/4145/5462/5463) are closed and fail close.	PAJ
TA	F	1CV1637/1639 fail close on loss of power / loss of air.	PAJ
TB	F	1CV1600/1638 fail close on loss of power / loss of air.	PAJ
TE	F	1MOV4144 is normally in the closed position and will fail as-is. Therefore, the East Recirculation Header will not function properly.	PAJ
TH(HD1)	None	1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3.	PAJ
TH(HD2)	None	1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4.	PAJ
TW	F	1MOV4145 is normally in the closed position and will fail as-is. Therefore, the West Recirculation Header will not function properly.	PAJ
UQ	None	1CV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
V1	F	All ECCS Pump Room Fans fail to start/run.	PAJ

TOP	PM	EVALUATION	RI
V2	F	All ECCS Pump Room Fans fail to start/run.	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
VM(RM1)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V1.	PAJ
VM(RM2)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V2.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	AA	MACS1Q	MACS1Q	12
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	AA	MAHP1Q	MAHP1Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AA	MAHP3Q	MAHP3Q	12
A119	1PUMPSILPSI11	11 LOW PRESS SAFETY INJECTION PUMP (1MA104)	AA	MALP1Q	MALP1Q	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	AB	MACS2Q	MACS2Q	12
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	AB	MAHP2Q	MAHP2Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AB	MAHP4Q	MAHP4Q	12
A118	1PUMPSILPSI12	12 LOW PRESS SAFETY INJECTION PUMP (1MA404)	AB	MALP2Q	MALP2Q	12
A101	2PUMPSICS21	21 CONTAINMENT SPRAY PUMP (2MA107)	AC	MACS3Q	MACS3Q	24
A101	2PUMPHPSI21	SI HPSI PUMP 21 (2MA108)	AC	MAHP5Q	MAHP5Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AC	MAHP7Q	MAHP7Q	12
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A102	2PUMPSICS22	22 CONTAINMENT SPRAY PUMP (2MA407)	AD	MACS4Q	MACS4Q	12
A101	2PUMPHPSI22	SI HPSI PUMP 22 (2MA408)	AD	MAHP6Q	MAHP6Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AD	MAHP8Q	MAHP8Q	12
A102	2PUMPSILPSI22	22 LOW PRESS SAFETY INJECTION PUMP (2MA404)	AD	MALP4Q	MALP4Q	12
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11B	0
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11P	0
A119	1MOV663	SDC RECIRC TO 11 HPSI PP	CS	CS0103	MV663T	0
A119	1CV3828	11 SDC HX OUTLET	CS	CSHX11	CV828P	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CSHX11	CV828P	0
A119	1CV3828	11 SDC HX OUTLET	CS	CV828O	CV828O	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CV828O	CV828O	0
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107R	MA107R	12
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107S	MA107S	12
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12B	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12P	0
A118	1MOV662	SDC RECIRC TO 13 HPSI PP	CT	CT0103	MV662T	0
A118	1CV3830	12 SDC HX OUTLET	CT	CTXH12	CV830P	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CTXH12	CV830P	0
A118	1CV3830	12 SDC HX OUTLET	CT	CV830O	CV830O	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CV830O	CV830O	0
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407R	MA407R	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407S	MA407S	12
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50O	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AP	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BP	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AB	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AP	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BB	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BP	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1B	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1P	0
A119	1MOV656	AUX HPSI HDR ISOL	HA	HADISA	MV656P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011R	MA011R	24
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011S	MA011S	24
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AP	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BP	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AB	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AP	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BB	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BP	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3B	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3P	0
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013R	MA013R	12
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013S	MA013S	12
A118	1MOV654	HPSI HDR ISOL	HB	MV654P	MV654P	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A118	1PUMPHPSI12	12 HIGH PRESS SAFETY INJECTION PUMP	HW	BHEHW1	Start	12
A119	1MOV656	AUX HPSI HDR ISOL	HW	HADISA	MV656P	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AP	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BP	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AB	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AP	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BB	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BP	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2B	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2P	0
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012R	MA012R	24
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012S	MA012S	24
A118	1MOV653	HPSI HDR X-CONN	HW	MV653O	MV653O	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653P	MV653P	0
A118	1MOV654	HPSI HDR ISOL	HW	MV654P	MV654P	0
A119	1MOV655	HPSI HDR X-CONN	HW	MV655P	MV655P	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1FIC5212	12B SRWX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	M1	M1FPPR	VD48AQ	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	M1	M1FPPR	VD48BQ	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	M1	M1FPPR	VD48CQ	22
A118	1MOV654	HPSI HDR ISOL	M1	MVM21Q	MVM21Q	0
A118	1MOV653	HPSI HDR X-CONN	M1	MVM22Q	MVM22Q	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	M1	MVM30Q	MVM30Q	0
A118	1MOV660	MINI FLOW RETN TO RWT	M1	MVM32Q	MVM32Q	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	M1	MVM44Q	MVM44Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	M2	M2FPPR	VD48AQ	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	M2	M2FPPR	VD48BQ	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	M2	M2FPPR	VD48CQ	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	M2	M2FPPR	VD48DQ	22
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A119	1MOV656	AUX HPSI HDR ISOL	M2	MVN21Q	MVN21Q	0
A119	1MOV655	HPSI HDR X-CONN	M2	MVN22Q	MVN22Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A118	1MOV659	MINI FLOW RETN TO RWT	M2	MVN32Q	MVN32Q	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	M2	MVN44Q	MVN44Q	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	M2	MVN57Q	MVN57Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A102	2FAN0448A	ECCS PP RM CLR 22 FAN A (2M0448A)	M3	M3FPPR	VD48AQ	22
A102	2FAN0448B	ECCS PP RM CLR 22 FAN B (2M0448B)	M3	M3FPPR	VD48BQ	22
A102	2FAN0448C	ECCS PP RM CLR 22 FAN C (2M0448C)	M3	M3FPPR	VD48CQ	22
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A102	2MOV654	HPSI HDR ISOL	M3	MVO21Q	MVO21Q	0
A102	2MOV653	HPSI HDR X-CONN	M3	MVO22Q	MVO22Q	0
A120	2MOV5463	U-2 CONTMT RECIRC PIPE TUNNEL	M3	MVO30Q	MVO30Q	0
A102	2MOV660	MINI FLOW RETN TO RWT	M3	MVO32Q	MVO32Q	0
A120	2MOV4145	CONTMT SUMP OUTLET ISOL	M3	MVO44Q	MVO44Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A102	2MOV659	MINI FLOW RETN TO RWT	M4	MVN32Q	MVN32Q	0
A120	2MOV4144	CONTMT SUMP OUTLET ISOL	M4	MVN44Q	MVN44Q	0
A120	2MOV5462	U-2 CONTMT RECIRC PIPE TUNNEL	M4	MVN57Q	MVN57Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659P	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659X	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660P	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660X	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	RH	BHERH1	Start	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	RH	BHERH1	Start	12
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERter VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERter VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERter VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERter SV	S3	S3H1BV	C2151P	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1P/P5157	12A/12B SRW HX SW OUT I/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERter VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERter SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERter VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERter SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144C	MV144C	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144T	MV144T	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145C	MV145C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145T	MV145T	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462C	MV462C	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462T	MV462T	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463C	MV463C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463T	MV463T	0
A226	1SV1637	TURB LUBE&EHC OIL SERVWTR ISOL	TA	TAFB01	C3637P	0
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	MV144O	MV144O	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	TE0101	MV144P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	TH(HD2)	BHER3B	Open	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	MV145O	MV145O	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	TW0101	MV145P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	TS404D	TS404D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC170P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1TEMP	TS404R	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205B	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205P	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AR	VD11AR	22
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AS	VD11AS	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BR	VD11BR	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BS	VD11BS	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CR	VD11CR	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CS	VD11CS	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DR	VD11DR	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DS	VD11DS	22
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170D	WC170D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170O	WC170O	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171D	WC171D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171O	WC171O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	TS405D	TS405D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2INLT	WC173P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2TEMP	TS405R	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207B	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AR	VD12AR	22
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AS	VD12AS	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BR	VD12BR	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BS	VD12BS	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CR	VD12CR	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CS	VD12CS	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173D	WC173D	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC1730	WC1730	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	VM(RM1)	BHEV1T	Start	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM2)	BHEV1T	Open	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	VM(RM2)	BHEV1T	Start	22
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-29E-D605AM \*

23-Nov-98

TOP	PM	EVALUATION	RI
AD	1BKR	1 breaker challenges.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
GW	None	2CV5152, 2CV5153 and 2CV5212 fail open on loss of power and loss of air.	PAJ
GZ	None	2CV5150 and 2CV5210 fail open on loss of power and loss of air.	PAJ
M2	3BKR	3 breaker challenges.	PAJ
M3	3BKR	3 breaker challenges.	PAJ
<del>M4</del>	<del>2BKR</del>	<del>2 breaker challenges.</del>	<del>PAJ</del>
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
NR(TC)	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1.	PAJ

\* This flood is deleted because there is no Demineralized water piping in Room 605. JBR

<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
NS	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B500	0
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S120	C2S120	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S120	C2S120	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S120	C2S120	0
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-30A-F205AN

04-Dec-98

TOP	PM	EVALUATION	RI
AA	4BKR	4 breaker challenges.	PAJ
AB	4BKR	4 breaker challenges.	PAJ
AC	3BKR	3 breaker challenges.	PAJ
AD	7BKR	7 breaker challenges.	PAJ
CS	None F	<del>CS Pump 11 is lost.</del> (Note 26)	PAJ
CT	None F	<del>CS Pump 12 is lost.</del> (Note 26)	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
F1	None	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. (Note 2)(Note 19)	PAJ
F7	None F	<del>Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G</del> (Note 19)	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
FO	F	Use FO SF where M3 and M4 fail. 21A SWAC fails and 22A SWAC fails. The Unit 1 Plant Model does not credit anything other than the use of the SWACs. As a result, this function should be considered failed.	PAJ
GW	F	22 and 23 SRW Pump fail.	PAJ
GZ	F	21 and 23 SRW Pump fail.	PAJ
HA	F	<del>11 HPSI Pump fails.</del> (Note 26)	PAJ
HB	F	<del>13 HPSI Pump fails.</del> (Note 26)	PAJ

See notes in RAN 98-065 Sect. 5.4 JON

TOP	PM	EVALUATION	RI
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	None <del>F</del>	<del>12 HPSI is lost. Also 1MOV653, 1MOV654, 1MOV655 and 1MOV656 fail as-is.</del> (Note 20)	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
M1	7BKR	7 breaker challenges.	PAJ
M2	10BKR	10 breaker challenges.	PAJ
M3	10BKR	10 breaker challenges.	PAJ
M4	6BKR	6 breaker challenges.	PAJ
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MV	None	1MOV659/660 fail as-is and are normally electrically locked open, there will be no flood impact.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	1BKR	1 breaker challenge.	PAJ

TOP	PM	EVALUATION	RI
N8	1BKR	1 breaker challenge.	PAJ
NR(TC)	<del>None</del> <del>Spec Impt</del>	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1. (Note 35)	PAJ
NS	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2. (Note 35)	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
RH	<del>None</del> <del>F</del>	<del>This human action requires the operator to start 11 and 13 HPSI Pumps. Both pumps are assumed not to start/run during a flood scenario.</del> (Note 20)	PAJ
S3	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5148 (FO), 1CV5148A (FC), 1CV5151 (FO), 1CV5151A (FC) and 1CV5209 (FO).	PAJ
S4	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5158 (FO), 1CV5158A (FC), 1CV5159 (FO), 1CV5159A (FC), 1CV5211 (FO), 1CV5153 (FO) and 1CV5157 (FC).	PAJ
SG	<del>None</del> <del>Spec Impt</del>	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 5)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
SR	None	All MOVs (1MOV4144/4145/5462/5463) are closed and fail close.	PAJ
TA	<del>None</del> <del>F</del>	<del>1CV1637/1639 fail close on loss of power/loss of air.</del> (Note 20) 19	PAJ
TB	<del>None</del> <del>F</del>	<del>1CV1600/1638 fail close on loss of power/loss of air.</del> (Note 20) 19	PAJ
TE	<del>None</del> <del>F</del>	<del>1MOV4144 is normally in the closed position and will fail as-is. Therefore, the East Recirculation Header will not function properly.</del> (Note 20)	PAJ
<del>TH(HD1)</del>	<del>None</del>	<del>1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3.</del> Top Event TH deleted	<del>PAJ</del>
<del>TH(HD2)</del>	<del>None</del>	<del>1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4.</del> Top Event TH deleted	<del>PAJ</del>
TW	<del>None</del> <del>F</del>	<del>1MOV4145 is normally in the closed position and will fail as-is. Therefore, the West Recirculation Header will not function properly.</del> (Note 20)	PAJ

TOP	PM	EVALUATION	RI
UQ	None	ICV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
V1	<del>F</del>	<del>All ECCS Pump Room Fans fail to start/run.</del> (Note 20)	PAJ
V2	<del>F</del>	<del>All ECCS Pump Room Fans fail to start/run.</del> (Note 20)	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
VM(RM1)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V1.	PAJ
VM(RM2)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V2.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	AA	MACS1Q	MACS1Q	12
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	AA	MAHP1Q	MAHP1Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AA	MAHP3Q	MAHP3Q	12
A119	1PUMPSILPSI11	11 LOW PRESS SAFETY INJECTION PUMP (1MA104)	AA	MALP1Q	MALP1Q	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	AB	MACS2Q	MACS2Q	12
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	AB	MAHP2Q	MAHP2Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AB	MAHP4Q	MAHP4Q	12
A118	1PUMPSILPSI12	12 LOW PRESS SAFETY INJECTION PUMP (1MA404)	AB	MALP2Q	MALP2Q	12
A101	2PUMPSICS21	21 CONTAINMENT SPRAY PUMP (2MA107)	AC	MACS3Q	MACS3Q	24
A101	2PUMPHPSI21	SI HPSI PUMP 21 (2MA108)	AC	MAHP5Q	MAHP5Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AC	MAHP7Q	MAHP7Q	12
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	AC	MWSR5Q	MWSR5Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AC	MWSR7Q	MWSR7Q	32
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A102	2PUMPSICS22	22 CONTAINMENT SPRAY PUMP (2MA407)	AD	MACS4Q	MACS4Q	12
A101	2PUMPHPSI22	SI HPSI PUMP 22 (2MA408)	AD	MAHP6Q	MAHP6Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AD	MAHP8Q	MAHP8Q	12
A102	2PUMPSILPSI22	22 LOW PRESS SAFETY INJECTION PUMP (2MA404)	AD	MALP4Q	MALP4Q	12
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	AD	MWSR6Q	MWSR6Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AD	MWSR8Q	MWSR8Q	32
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11B	0
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11P	0
A119	1MOV663	SDC RECIRC TO 11 HPSI PP	CS	CS0103	MV663T	0
A119	1CV3828	11 SDC HX OUTLET	CS	CSHX11	CV828P	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CSHX11	CV828P	0
A119	1CV3828	11 SDC HX OUTLET	CS	CV8280	CV8280	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CV8280	CV8280	0
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107R	MA107R	12
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107S	MA107S	12
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12B	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12P	0
A118	1MOV662	SDC RECIRC TO 13 HPSI PP	CT	CT0103	MV662T	0
A118	1CV3830	12 SDC HX OUTLET	CT	CTXH12	CV830P	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CTXH12	CV830P	0
A118	1CV3830	12 SDC HX OUTLET	CT	CV8300	CV8300	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CV8300	CV8300	0
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407R	MA407R	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407S	MA407S	12
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	CVB22C	CVB22C	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	CVB23C	CVB23C	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	CVB32C	CVB32C	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	CVB33C	CVB33C	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50O	144
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50O	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50P	144
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB22T	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB23T	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB32T	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB33T	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A205	2COMP SWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21R	144
A205	2COMP SWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21S	144
A205	2COMP SWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22R	144
A205	2COMP SWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22S	144
A205	2LS5200	21 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS200R	144
A205	2LS5201	22 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS201R	144
A205	2TS5200	21 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS200R	144
A205	2TS5201	22 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS201R	144
A205	2CV5212	22 SRW HX SW OUT CV	GW	C2S12O	C2S12O	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22R	MWT22R	32
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22S	MWT22S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23S	MWT23S	32
A205	2CV5152	22 SRW HX SW INLET	GW	S8CV52	C1S52P	60
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2CV5212	22 SRW HX SW OUT CV	GW	S8H2CV	C2S12P	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2HXSRLW22	22 SRW HX	GW	S8HX22	HXS22B	144
A205	2HXSRLW22	22 SRW HX	GW	S8HX22	HXS22P	144
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21R	MWT21R	32
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21S	MWT21S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23S	MWT23S	32
A205	2CV5150	21 SRW HX SW INLET	GZ	S7H2CV	C1S50P	60
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2CV5210	21 SRW HX SW OUTLET CV	GZ	S7H2CV	C2S10P	60
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2HXSRLW21	21 SRW HX	GZ	S7HX21	HXS21B	144
A205	2HXSRLW21	21 SRW HX	GZ	S7HX21	HXS21P	144
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AP	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BP	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AB	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AP	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BB	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BP	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1B	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1P	0
A119	1MOV656	AUX HPSI HDR ISOL	HA	HADISA	MV656P	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011R	MA011R	24
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011S	MA011S	24
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AP	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BP	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AB	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AP	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BB	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BP	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3B	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3P	0
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013R	MA013R	12
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013S	MA013S	12
A118	1MOV654	HPSI HDR ISOL	HB	MV654P	MV654P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A118	1PUMPHPSI12	12 HIGH PRESS SAFETY INJECTION PUMP	HW	BHEHW1	Start	12
A119	1MOV656	AUX HPSI HDR ISOL	HW	HADISA	MV656P	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AP	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BP	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AB	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AP	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BB	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BP	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2B	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2P	0
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012R	MA012R	24
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012S	MA012S	24
A118	1MOV653	HPSI HDR X-CONN	HW	MV653O	MV653O	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653P	MV653P	0
A118	1MOV654	HPSI HDR ISOL	HW	MV654P	MV654P	0
A119	1MOV655	HPSI HDR X-CONN	HW	MV655P	MV655P	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	M1	M1FPPR	VD48AQ	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	M1	M1FPPR	VD48BQ	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	M1	M1FPPR	VD48CQ	22
A118	1MOV654	HPSI HDR ISOL	M1	MVM21Q	MVM21Q	0
A118	1MOV653	HPSI HDR X-CONN	M1	MVM22Q	MVM22Q	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	M1	MVM30Q	MVM30Q	0
A118	1MOV660	MINI FLOW RETN TO RWI	M1	MVM32Q	MVM32Q	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	M1	MVM44Q	MVM44Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	M2	M2FPPR	VD48AQ	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	M2	M2FPPR	VD48BQ	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	M2	M2FPPR	VD48CQ	22

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	M2	M2FPPR	VD48DQ	22
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A119	1MOV656	AUX HPSI HDR ISOL	M2	MVN21Q	MVN21Q	0
A119	1MOV655	HPSI HDR X-CONN	M2	MVN22Q	MVN22Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A118	1MOV659	MINI FLOW RETN TO RWT	M2	MVN32Q	MVN32Q	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	M2	MVN44Q	MVN44Q	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	M2	MVN57Q	MVN57Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A102	2FAN0448A	ECCS PP RM CLR 22 FAN A (2M0448A)	M3	M3FPPR	VD48AQ	22
A102	2FAN0448B	ECCS PP RM CLR 22 FAN B (2M0448B)	M3	M3FPPR	VD48BQ	22
A102	2FAN0448C	ECCS PP RM CLR 22 FAN C (2M0448C)	M3	M3FPPR	VD48CQ	22
A205	2COMP5WAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	M3	M3FSWC	CM05AQ	144
A205	2COMP5WAC22B	22 SW AIR COMPRESSOR MOTOR B (2M0405B)	M3	M3FSWC	CM05BQ	144
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A102	2MOV654	HPSI HDR ISOL	M3	MVO21Q	MVO21Q	0
A102	2MOV653	HPSI HDR X-CONN	M3	MVO22Q	MVO22Q	0
A120	2MOV5463	U-2 CONTMT RECIRC PIPE TUNNEL	M3	MVO30Q	MVO30Q	0
A102	2MOV660	MINI FLOW RETN TO RWT	M3	MVO32Q	MVO32Q	0
A120	2MOV4145	CONTMT SUMP OUTLET ISOL	M3	MVO44Q	MVO44Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A205	2COMP5WAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	M4	M4FCRC	CM05AQ	144
A205	2COMP5WAC21B	21 SW AIR COMPRESSOR MOTOR B (2M1405B)	M4	M4FCRC	CM05BQ	144
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A102	2MOV659	MINI FLOW RETN TO RWT	M4	MVN32Q	MVN32Q	0
A120	2MOV4144	CONTMT SUMP OUTLET ISOL	M4	MVN44Q	MVN44Q	0
A120	2MOV5462	U-2 CONTMT RECIRC PIPE TUNNEL	M4	MVN57Q	MVN57Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659P	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659X	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660P	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660X	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
A205	2CV1637	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2CV1600	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2ACC4070	IA ACCUMULATOR	NS	NSIA99	TKS70B	144
A205	2ACC4071	IA ACCUMULATOR	NS	NSIA99	TKS71B	144
A205	2CV1638	TB SRW HDR ISOL	NS	NSSRW	N/A	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2CV1637	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2CV1600	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	RH	BHERH1	Start	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	RH	BHERH1	Start	12
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1HXS11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXS11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1P/P5157	12A/12B SRW HX SW OUT I/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158C	C2158C	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158C	C2158C	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159C	C2159C	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW708P	0
A226	1HXSrw12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSrw12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW710P	0
A226	1HXSrw12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSrw12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144C	MV144C	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144T	MV144T	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145C	MV145C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145T	MV145T	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462C	MV462C	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462T	MV462T	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463C	MV463C	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463T	MV463T	0
A226	1SV1637	TURB LUBE&HC OIL SERVWTR ISOL	TA	TAFB01	C3637P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	MV144O	MV144O	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	TE0101	MV144P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	TH(HD2)	BHER3B	Open	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	MV145O	MV145O	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	TW0101	MV145P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	TS404D	TS404D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC170P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1TEMP	TS404R	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205B	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205P	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AR	VD11AR	22
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AS	VD11AS	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BR	VD11BR	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BS	VD11BS	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CR	VD11CR	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CS	VD11CS	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DR	VD11DR	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DS	VD11DS	22
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170D	WC170D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170O	WC170O	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171D	WC171D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171O	WC171O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	TS405D	TS405D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2INLT	WC173P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2TEMP	TS405R	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207B	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AR	VD12AR	22
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AS	VD12AS	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BR	VD12BR	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BS	VD12BS	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CR	VD12CR	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CS	VD12CS	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173D	WC173D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173O	WC173O	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	VM(RM1)	BHEV1T	Start	22
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM2)	BHEV1T	Open	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	VM(RM2)	BHEV1T	Start	22
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0

# Flood Evaluation Query

CF-30B-S205AR

03-Dec-98

TOP	PM	EVALUATION	RI
AA	6BKR	6 breaker challenges.	PAJ
AB	5BKR	5 breaker challenges.	PAJ
AC	4BKR	4 breaker challenges.	PAJ
AD	7BKR	7 breaker challenges.	PAJ
CS	F	CS Pump 11 is lost.	PAJ
CT	F	CS Pump 12 is lost.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
DL	None	11A and 11B LPSI Loop Isol MOVs (IMOV615 and IMOV625), Fail to Open on Demand. LPSIs only used in large break LOCAs. Flood cannot cause a large break LOCA, therefore this top is not affected.	PAJ
F1	<del>Spec Impt</del> None	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be.	(Note 2) (Note 19) PAJ
F3	None	Steam Admission SV's 1SV4070/4071 are covered under top event F1.	PAJ
F7	<del>F</del> None	Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.	(Note 19) PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
FC	<del>Spec Impt</del> None	AFW Pump Room Emergency Vent Fans 11 & 12 fail along with NSR A/C Unit.	(Note 19) PAJ
FF	None	Both 11 and 12 AFW Pump Room Exhaust fans fail to start. Covered under Top FC.	(Note 19) PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ

See Notes in RAN 98-065 Sect. 5.4 JPK



TOP	PM	EVALUATION	RI
FO	F	Use FO SF where M3 and M4 fail. 21A SWAC fails and 22A SWAC fails. The Unit 1 Plant Model does not credit anything other than the use of the SWACs. As a result, this function should be considered failed.	PAJ
GG	None	1CV1645 / 1CV1646 are both locked open. Both valves have been retired in place and can only be manipulated manually.	PAJ
GW	F	22 and 23 SRW Pump fail.	PAJ
GZ	F	21 and 23 SRW Pump fail.	PAJ
HA	F	11 HPSI Pump fails.	PAJ
HB	F	13 HPSI Pump fails.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	F	12 HPSI is lost. Also 1MOV653, 1MOV654, 1MOV655 and 1MOV656 fail as-is.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
I1	<del>F</del> None	<del>11 SWAC fails.</del> (Note 19)	PAJ
I2	<del>F</del> None	<del>12 SWAC fails.</del> (Note 19)	PAJ
IL	None	Air accumulators only. Mechanical operation only.	PAJ
IN	None	Air accumulators only. Mechanical operation only.	PAJ
IP	None	Air accumulators only. Mechanical operation only.	PAJ
K3	None	Since KX, KY and KZ fail, this top event will be set to success.	PAJ
K4	None	Since KX, KY and KZ fail, this top event will be set to success.	PAJ
KH(PP1)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to start 11 CCW Pump. 11 Component Cooling Pump fails to start.	PAJ
KH(PP2)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to start 12 CCW Pump. 12 Component Cooling Pump fails to start.	PAJ

TOP	PM	EVALUATION	RI
KH(PP3)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to start 13 CCW Pump. 13 Component Cooling Pump fails to start.	PAJ
KI(HX1)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to open, close or modulate two valves (1CV3824 and 1CV5206). 1CV3824 will fail in the appropriate position. 1CV5206 will not. This valve will fail open neglecting the capability to throttle this valve. Therefore this top will fail.	PAJ
KI(HX2)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to open, close or modulate two valves (1CV3826 and 1CV5208). 1CV3826 will fail in the appropriate position. 1CV5208 will not. This valve will fail open neglecting the capability to throttle this valve. Therefore this top will fail.	PAJ
KM	None	Since KX, KY and KZ fail, this top event will be set to success. Also 1CV3823 will transfer close, which is the undesired affect. But it does not fail top unless 1HVCC-149 transfers shut or 1HXCC11 plugs during operation. Since mechanical components are screened for flood, it will not fail this top, only degrade it.	PAJ
KN	None	Since KX, KY and KZ fail, this top event will be set to success. Also 1CV3825 will transfer close, which is the undesired affect. But it does not fail top unless 1HVCC-156 transfers shut or 1HXCC12 plugs during operation. Since mechanical components are screened for flood, it will not fail this top, only degrade it.	PAJ
KX	<del>F</del>	<del>11 CCW Pump will fail to start/run.</del> (Note 19)	PAJ
KY	<del>F</del>	<del>12 CCW Pump will fail to start/run.</del> (Note 19)	PAJ
KZ	<del>F</del>	<del>13 CCW Pump will fail to start/run.</del> (Note 19)	PAJ
M1	15BKR	15 breaker challenges.	PAJ
M2	24BKR	24 breaker challenges.	PAJ
M3	18BKR	18 breaker challenges.	PAJ
<del>M4</del>	<del>21BKR</del>	<del>21 breaker challenges.</del>	<del>PAJ</del>
MH	<del>None</del> Spec Impt	<del>1CV4070/4071 are normally closed and fail as-is on loss of power. These valves must be locally vented.</del> (Note 19)	PAJ
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MV	None	1MOV659/660 fail as-is and are normally electrically locked open, there will be no flood impact.	PAJ

TOP	PM	EVALUATION	RI
N1	2BKR	2 breaker challenges.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N3	1BKR	1 breaker challenge.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	1BKR	1 breaker challenge.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N7	2BKR	2 breaker challenges.	PAJ
N8	2BKR	2 breaker challenges.	PAJ
NR	None	Air accumulators only. Mechanical operation only.	PAJ
NR(TC)	<i>None</i> <del>Spec Impt</del>	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1. <i>(Note 35)</i>	PAJ
NS	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
RH	<i>None</i> <del>F</del>	This human action requires the operator to start 11 and 13 HPSI Pumps. Both pumps are assumed not to start/run during a flood scenario. <i>(Note 9)</i>	PAJ
S3	<i>None</i> <del>F</del>	<del>11 and 13 SRW Pumps fail.</del> <i>(Note 19)</i>	PAJ
S4	<i>None</i> <del>F</del>	<del>12 and 13 SRW Pumps fail.</del> <i>(Note 19)</i>	PAJ
SG	<i>None</i> <del>Spec Impt</del>	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. <i>(Note 5)</i>	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
SP(PP1)	None	11 CC Pumps fails to start/run. Accounted for by Top KX.	PAJ

TOP	PM	EVALUATION	RI
SP(PP2)	None	12 CC Pumps fails to start/run. Accounted for by Top KY.	PAJ
SP(PP3)	None	13 CC Pumps fails to start/run. Accounted for by Top KZ.	PAJ
SR	<del>None</del> <i>Spec. Impt</i>	All MOVs (1MOV4144/4145/5462/5463/615/625) are closed and fail close. (note 1a)	PAJ
TA	<del>F</del> <i>None</i>	1CV1637/1639 fail close on loss of power / loss of air. (Note 19)	PAJ
TB	<del>F</del> <i>None</i>	1CV1600/1638 fail close on loss of power / loss of air. (Note 19)	PAJ
TE	F	1MOV4144 is normally in the closed position and will fail as-is. Therefore, the East Recirculation Header will not function properly.	PAJ
TG	None	Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is (closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. Covered under Top F1.	PAJ
TH(HD1)	None	1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3. Also, 1CV5170/5171 fails open on loss of power and loss of air.	PAJ
TH(HD2)	None	1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4. Also, 1CV5173 fails open on loss of power and loss of air.	PAJ
TW	F	1MOV4145 is normally in the closed position and will fail as-is. Therefore, the West Recirculation Header will not function properly.	PAJ
TX	None	Has 6 PSs. It is assumed that a flood will not prevent PS activation.	PAJ
UQ	None	1CV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
V1	F	All ECCS Pump Room Fans fail to start/run.	PAJ
V2	F	All ECCS Pump Room Fans fail to start/run.	PAJ
<del>V5</del>	<del>F</del>	<del>11 and 12 ECCS exhaust fans fails to start/run.</del> <i>Top Event V5 no longer used. JPK</i>	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
VM(RM1)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V1.	PAJ

TOP	PM	EVALUATION	RI
VM(RM2)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V2.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ
WY	None	ICV1584/1592 fail open loss of power.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	AA	MACS1Q	MACS1Q	12
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	AA	MAHP1Q	MAHP1Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AA	MAHP3Q	MAHP3Q	12
A119	1PUMPSILPSI11	11 LOW PRESS SAFETY INJECTION PUMP (1MA104)	AA	MALP1Q	MALP1Q	12
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	AA	MWSR1Q	MWSR1Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AA	MWSR3Q	MWSR3Q	32
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	AB	MACS2Q	MACS2Q	12
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	AB	MAHP2Q	MAHP2Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AB	MAHP4Q	MAHP4Q	12
A118	1PUMPSILPSI12	12 LOW PRESS SAFETY INJECTION PUMP (1MA404)	AB	MALP2Q	MALP2Q	12
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	AB	MWSR2Q	MWSR2Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AB	MWSR4Q	MWSR4Q	32
A101	2PUMPSICS21	21 CONTAINMENT SPRAY PUMP (2MA107)	AC	MACS3Q	MACS3Q	24
A101	2PUMPHPSI21	SI HPSI PUMP 21 (2MA108)	AC	MAHP5Q	MAHP5Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AC	MAHP7Q	MAHP7Q	12
A101	2PUMPSILPSI21	21 LOW PRESS SAFETY INJECTION PUMP (2MA104)	AC	MALP3Q	MALP3Q	39
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	AC	MWSR5Q	MWSR5Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AC	MWSR7Q	MWSR7Q	32
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A102	2PUMPSICS22	22 CONTAINMENT SPRAY PUMP (2MA407)	AD	MACS4Q	MACS4Q	12
A101	2PUMPHPSI22	SI HPSI PUMP 22 (2MA408)	AD	MAHP6Q	MAHP6Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AD	MAHP8Q	MAHP8Q	12
A102	2PUMPSILPSI22	22 LOW PRESS SAFETY INJECTION PUMP (2MA404)	AD	MALP4Q	MALP4Q	12
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	AD	MWSR6Q	MWSR6Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AD	MWSR8Q	MWSR8Q	32
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11B	0
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11P	0
A119	1MOV663	SDC RECIRC TO 11 HPSI PP	CS	CS0103	MV663T	0
A119	1CV3828	11 SDC HX OUTLET	CS	CSHX11	CV828P	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CSHX11	CV828P	0
A119	1CV3828	11 SDC HX OUTLET	CS	CV828O	CV828O	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CV828O	CV828O	0
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107R	MA107R	12
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107S	MA107S	12
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12B	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12P	0
A118	1MOV662	SDC RECIRC TO 13 HPSI PP	CT	CT0103	MV662T	0
A118	1CV3830	12 SDC HX OUTLET	CT	CTXH12	CV830P	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CTXH12	CV830P	0
A118	1CV3830	12 SDC HX OUTLET	CT	CV830O	CV830O	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CV830O	CV830O	0
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407R	MA407R	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407S	MA407S	12
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A218	1CV500	VOL CONT TNK INLT VLV	CV	CVHV03	CV500O	0
A218	1LC227A	VOLUME CONTROL TNK LEVEL HIGH	CV	CVHV03	CV500O	0
A218	1SV500	VOL CONT TANK INLET CONT VLV	CV	CVHV03	CV500O	0
A218	1CV500	VOL CONT TNK INLT VLV	CV	CVHV03	CV500P	0
A218	1LC227A	VOLUME CONTROL TNK LEVEL HIGH	CV	CVHV03	CV500P	0
A218	1SV500	VOL CONT TANK INLET CONT VLV	CV	CVHV03	CV500P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A217	1MOV514	BAPP TO CHG PP SUCT DIRECT FD	CV	CVMV01	MV514O	6
A217	1MOV514	BAPP TO CHG PP SUCT DIRECT FD	CV	CVMV01	MV514P	6
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PSZ24R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A217	1PUMPCVCBA11	11 CVC BORIC ACID PUMP (1M1406)	CV	MP011R	MP011R	12
A217	1PUMPCVCBA11	11 CVC BORIC ACID PUMP (1M1406)	CV	MP011S	MP011S	12
A217	1PUMPCVCBA12	12 CVC BORIC ACID PUMP (1M0406)	CV	MP012R	MP012R	12
A217	1PUMPCVCBA12	12 CVC BORIC ACID PUMP (1M0406)	CV	MP012S	MP012S	12
A217	1MOV508	12 BAST GRAVITY FD	CV	MV508O	MV508O	6
A217	1MOV508	12 BAST GRAVITY FD	CV	MV508P	MV508P	6
A217	1MOV509	11 BAST GRAVITY FD	CV	MV509O	MV509O	6
A217	1MOV509	11 BAST GRAVITY FD	CV	MV509P	MV509P	6
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615O	19
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615P	19
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625O	0
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625P	0
A226	1CV4522	11 S/G AFW BLOCK VLV	F1	CV4522	CV522P	40
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1CV4523	11 S/G AFW BLOCK VLV	F1	CV4523	CV523P	144
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1CV4532	12 S/G AFW BLOCK VLV	F1	CV4532	CV532P	40
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1CV4533	12 S/G AFW BLOCK VLV	F1	CV4533	CV533P	144
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070O	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070P	0
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071O	0
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	F1	F1MLV1	C6525P	144
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	F1	F1MLV1	C6525R	144
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1CV4535	12 S/G AFW FLOW CONT VLV	F1	F1MLV2	C6535P	144
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1CV4535	12 S/G AFW FLOW CONT VLV	F1	F1MLV2	C6535R	144
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F3	BHEF31	Open	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A227	1SV4071	12 S/G MS TO AFW PP	F3	BHEF31	Open	0
A228	1CV4550	U-1 TO U-2 AFW X-CONN VLV	F7	F7MPVA	C3550T	144
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	CVB22C	CVB22C	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	CVB23C	CVB23C	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	CVB32C	CVB32C	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	CVB33C	CVB33C	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50O	144
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50O	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50P	144
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB22T	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB23T	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB32T	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB33T	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A225	1HSS472	MCC-101-BT BKR 52-10150 AFW PP RM A/C UNIT 11	FC	FCAC11	HS472T	0
A225	1HSS470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470D	18
A225	1HSS470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470T	18
A225	1HSS471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471D	18
A225	1HSS471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471T	18
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	FC	VDA11R	VDA11R	36
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	FC	VDA11S	VDA11S	36
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	FC	VDA12R	VDA12R	36
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	FC	VDA12S	VDA12S	36
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	FF	BHEFCB	Start	36
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	FF	BHEFCB	Start	36
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A205	2COMPSWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21R	144
A205	2COMPSWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21S	144
A205	2COMPSWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22R	144
A205	2COMPSWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22S	144
A205	2LS5200	21 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS200R	144
A205	2LS5201	22 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS201R	144
A205	2TS5200	21 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS200R	144
A205	2TS5201	22 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS201R	144
A224	1CV1645	1B DG SUPP FROM U-1 SRW	GG	GGSRW1	CVA45P	6
A224	1CV1646	1B DG RTN TO U-1 SRW	GG	GGSRW1	CVA46P	6
A205	2CV5212	22 SRW HX SW OUT CV	GW	C2S12O	C2S12O	48
A205	2VPS212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22R	MWT22R	32



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22S	MWT22S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23S	MWT23S	32
A205	2CV5152	22 SRW HX SW INLET	GW	S8CV52	C1S52P	60
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2CV5212	22 SRW HX SW OUT CV	GW	S8H2CV	C2S12P	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2HXSRW22	22 SRW HX	GW	S8HX22	HXS22B	144
A205	2HXSRW22	22 SRW HX	GW	S8HX22	HXS22P	144
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21R	MWT21R	32
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21S	MWT21S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23S	MWT23S	32
A205	2CV5150	21 SRW HX SW INLET	GZ	S7H2CV	C1S50P	60
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2CV5210	21 SRW HX SW OUTLET CV	GZ	S7H2CV	C2S10P	60
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2HXSRW21	21 SRW HX	GZ	S7HX21	HXS21B	144
A205	2HXSRW21	21 SRW HX	GZ	S7HX21	HXS21P	144
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AP	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BP	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AB	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AP	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BB	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BP	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1B	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1P	0
A119	1MOV656	AUX HPSI HDR ISOL	HA	HADISA	MV656P	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011R	MA011R	24
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011S	MA011S	24
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AP	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BP	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AB	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AP	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BB	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BP	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3B	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3P	0
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013R	MA013R	12
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013S	MA013S	12
A118	1MOV654	HPSI HDR ISOL	HB	MV654P	MV654P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	HU	BHEF1B	Throttle	144
A226	1CV4535	12 S/G AFW FLOW CONT VLV	HU	BHEF1B	Throttle	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A118	1PUMPHPSI12	12 HIGH PRESS SAFETY INJECTION PUMP	HW	BHEHW1	Start	12
A119	1MOV656	AUX HPSI HDR ISOL	HW	HADISA	MV656P	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AP	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BP	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AB	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AP	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BB	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BP	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2B	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2P	0
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012R	MA012R	24
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012S	MA012S	24
A118	1MOV653	HPSI HDR X-CONN	HW	MV653O	MV653O	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653P	MV653P	0
A118	1MOV654	HPSI HDR ISOL	HW	MV654P	MV654P	0
A119	1MOV655	HPSI HDR X-CONN	HW	MV655P	MV655P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	HX	BHEF1A	Throttle	144
A226	1CV4535	12 S/G AFW FLOW CONT VLV	HX	BHEF1A	Throttle	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1COMPSWAC11	11 SW AIR COMPRESSOR (1M1404)	I1	CMS11R	CMS11R	144
A226	1COMPSWAC11	11 SW AIR COMPRESSOR (1M1404)	I1	CMS11S	CMS11S	144
A226	1LS5200	11 IA SW AIR COMP LS	I1	I1CNTL	LS200R	144
A226	1TS5200	11 IA SW AIR COMP TS	I1	I1CNTL	TS200R	144
A226	1COMPSWAC12	12 SW AIR COMPRESSOR (1M0404)	I2	CMS12R	CMS12R	144
A226	1COMPSWAC12	12 SW AIR COMPRESSOR (1M0404)	I2	CMS12S	CMS12S	144
A226	1LS5201	12 IA SW AIR COMP LS	I2	I2CNTL	LS201R	144
A226	1TS5201	12 IA SW AIR COMP TS	I2	I2CNTL	TS201R	144
A228	1ACC5170	AIR ACCUMULATOR FOR 1CV5170	IL	ILIA99	TK170B	0
A228	1ACC5171	AIR ACCUMULATOR FOR 1CV5171	IL	ILIA99	TK171B	0
A228	1ACC5174	AIR ACCUMULATOR FOR 1CV5174	IL	ILIA99	TK174B	0
A228	1ACC5175	AIR ACCUMULATOR FOR 1CV5175	IL	ILIA99	TK175B	0
A228	1ACC5177	AIR ACCUMULATOR FOR 1CV5177	IL	ILIA99	TK177B	0
A228	1ACC5178	AIR ACCUMULATOR FOR 1CV5178	IL	ILIA99	TK178B	0
A228	1ACC5173	AIR ACCUMULATOR FOR 1CV5173	IN	INIA99	TK173B	0
A224	1ACC1645	AIR ACCUMULATOR FOR 1CV1645	IP	IPIA99	TK645B	0
A224	1ACC1646	AIR ACCUMULATOR FOR 1CV1646	IP	IPIA99	TK646B	0
A228	1CV5160	11 CC HX SW INLET	K3	C11600	C11600	0
A228	1SV5160	COMP CLG HTEX 11 SALT WTR INLT	K3	C11600	C11600	0
A228	1CV5206	11 CC HX SW OUTLET	K3	C22060	C22060	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	K3	C22060	C22060	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	K3	C22060	C22060	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	K3	C22060	C22060	0
A226	1CV5210	11 SRWX HX SW OUTLET CV	K3	C2210C	C2210C	60
A226	1FIC5210	11A SRWX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A228	1CV3823	11 CC HX TEMP CONT BYP	K3	CT823R	CT823R	0
A228	1TIC3823	11 CC HX BYP VLV TEMP CONTL	K3	CT823R	CT823R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1CV5210	11 SRW HX SW OUTLET CV	K3	K3CLOS	C2210T	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A228	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A228	1CV3823	11 CC HX TEMP CONT BYP	K3	K3COMP	CT823T	0
A228	1TIC3823	11 CC HX BYP VLV TEMP CONTL	K3	K3COMP	CT823T	0
A228	1CV5160	11 CC HX SW INLET	K3	K3OTLT	C1160P	0
A228	1SV5160	COMP CLG HTEX 11 SALT WTR INLT	K3	K3OTLT	C1160P	0
A228	1CV5206	11 CC HX SW OUTLET	K3	K3OTLT	C2206P	0
A228	1/P5206	SALT WTR OUT COMPONT CLG HTEX	K3	K3OTLT	C2206P	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	K3	K3OTLT	C2206P	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	K3	K3OTLT	C2206P	0
A228	1CV5162	12 CC HX SW INLET	K4	C1162O	C1162O	0
A228	1SV5162	COMP CLG HTEX 12 SALT WTR INLT	K4	C1162O	C1162O	0
A228	1CV5163	12 CC HX SW NORM B/U OUTLET	K4	C1163O	C1163O	0
A228	1SV5163	COMP CLG HTEX 12 SALT WTR OUT	K4	C1163O	C1163O	0
A228	1CV5208	12 CC HX SW NORM OUT	K4	C2208O	C2208O	0
A228	1/P5208	SALT WTR OUT COMPONT CLG HTEX	K4	C2208O	C2208O	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	K4	C2208O	C2208O	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	K4	C2208O	C2208O	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	C2212C	C2212C	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A228	1CV3825	12 CC HX TEMP CONT BYP	K4	CT825R	CT825R	0
A228	1TIC3825	12 CC HX BYP VLV TEMP CONTL	K4	CT825R	CT825R	0
A228	1CV3825	12 CC HX TEMP CONT BYP	K4	K4CMP1	CT825T	0
A228	1TIC3825	12 CC HX BYP VLV TEMP CONTL	K4	K4CMP1	CT825T	0
A228	1CV5162	12 CC HX SW INLET	K4	K4INLT	C1162P	0
A228	1SV5162	COMP CLG HTEX 12 SALT WTR INLT	K4	K4INLT	C1162P	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	K4ISO1	C2212T	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A228	1CV5165	12 CC HX SW AUX OUT	K4	K4OPN2	C4165O	0
A228	1SV5165	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4165O	0
A228	1CV5165	12 CC HX SW AUX OUT	K4	K4OPN2	C4165P	0
A228	1SV5165	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4165P	0
A228	1CV5166	12 CC HX SW AUX B/U OUTLET	K4	K4OPN2	C4166O	0
A228	1SV5166	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4166O	0
A228	1CV5166	12 CC HX SW AUX B/U OUTLET	K4	K4OPN2	C4166P	0
A228	1SV5166	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4166P	0
A228	1CV5163	12 CC HX SW NORM B/U OUTLET	K4	K4OTLT	C1163P	0
A228	1SV5163	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OTLT	C1163P	0
A228	1CV5208	12 CC HX SW NORM OUT	K4	K4OTLT	C2208P	0
A228	1/P5208	SALT WTR OUT COMPONT CLG HTEX	K4	K4OTLT	C2208P	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OTLT	C2208P	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OTLT	C2208P	0
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KH(PP1)	BHEKC1	Start	12
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KH(PP1)	BHEKZ1	Start	12

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KH(PP2)	BHEKC1	Start	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KH(PP2)	BHEKZ1	Start	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KH(PP3)	BHEKC1	Start	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KH(PP3)	BHEKZ1	Start	12
A228	1CV3826	12 CC HX OUTLET	KI(HX1)	BHEK31	Close	0
A228	1CV5208	12 CC HX SW NORM OUT	KI(HX1)	BHEK31	Close	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	KI(HX1)	BHEK31	Close	0
A228	1SV3826	COMP CLG HTEX 12 DISCH CONTROL	KI(HX1)	BHEK31	Close	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	KI(HX1)	BHEK31	Close	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	KI(HX1)	BHEK31	Close	0
A228	1CV3824	11 CC HX OUTLET	KI(HX1)	BHEK31	Open	0
A228	1SV3824	COMP CLG HX 11 DISCH CONTROL	KI(HX1)	BHEK31	Open	0
A228	1CV5206	11 CC HX SW OUTLET	KI(HX1)	BHEK31	Throttle	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	KI(HX1)	BHEK31	Throttle	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	KI(HX1)	BHEK31	Throttle	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	KI(HX1)	BHEK31	Throttle	0
A228	1CV3824	11 CC HX OUTLET	KI(HX2)	BHEK31	Close	0
A228	1CV5206	11 CC HX SW OUTLET	KI(HX2)	BHEK31	Close	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	KI(HX2)	BHEK31	Close	0
A228	1SV3824	COMP CLG HX 11 DISCH CONTROL	KI(HX2)	BHEK31	Close	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	KI(HX2)	BHEK31	Close	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	KI(HX2)	BHEK31	Close	0
A228	1CV3826	12 CC HX OUTLET	KI(HX2)	BHEK31	Open	0
A228	1SV3826	COMP CLG HTEX 12 DISCH CONTROL	KI(HX2)	BHEK31	Open	0
A228	1CV5208	12 CC HX SW NORM OUT	KI(HX2)	BHEK31	Throttle	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	KI(HX2)	BHEK31	Throttle	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	KI(HX2)	BHEK31	Throttle	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	KI(HX2)	BHEK31	Throttle	0
A228	1HXCC11	11 COMPONENT COOLING WTR	KM	HXC11B	HXC11B	13
A228	1CV3823	11 CC HX TEMP CONT BYP	KM	KMBYPS	CT823P	0
A228	1TIC3823	11 CC HX BYP VLV TEMP CONTL	KM	KMBYPS	TC823R	0
A228	1CV3824	11 CC HX OUTLET	KM	KMCV24	CV824P	0
A228	1SV3824	COMP CLG HX 11 DISCH CONTROL	KM	KMCV24	CV824P	0
A228	1HXCC11	11 COMPONENT COOLING WTR	KM	KMPATH	HXC11P	13
A228	1HXCC12	12 COMPONENT COOLING WTR	KN	HXC12B	HXC12B	13
A228	1CV3825	12 CC HX TEMP CONT BYP	KN	KNBYP	CT825P	0
A228	1TIC3825	12 CC HX BYP VLV TEMP CONTL	KN	KNBYP	TC825R	0
A228	1CV3826	12 CC HX OUTLET	KN	KNCV26	CV826P	0
A228	1SV3826	COMP CLG HTEX 12 DISCH CONTROL	KN	KNCV26	CV826P	0
A228	1HXCC12	12 COMPONENT COOLING WTR	KN	KNPATH	HXC12P	13
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KX	MZC11R	MZC11R	12
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KX	MZC11S	MZC11S	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KY	MZC12R	MZC12R	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KY	MZC12S	MZC12S	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KZ	MZC13R	MZC13R	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KZ	MZC13S	MZC13S	12
A226	1COMP SWAC12	12 SW AIR COMPRESSOR (1M0404)	M1	CMM04Q	CMM04Q	144
A217	1U0409	11 BA TK HTR B	M1	HTM09Q	HTM09Q	6
A217	1U0434	12 BA TK HTR B	M1	HTM34Q	HTM34Q	6
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	M1	M1FPPR	VD48AQ	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	M1	M1FPPR	VD48BQ	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	M1	M1FPPR	VD48CQ	22
A217	1PUMPCVCBA12	12 CVC BORIC ACID PUMP (1M0406)	M1	MBM06Q	MBM06Q	12
A118	1MOV654	HPSI HDR ISOL	M1	MVM21Q	MVM21Q	0
A118	1MOV653	HPSI HDR X-CONN	M1	MVM22Q	MVM22Q	0
A217	1MOV514	BAPP TO CHG PP SUCT DIRECT FD	M1	MVM25Q	MVM25Q	6

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	M1	MVM30Q	MVM30Q	0
A118	1MOV660	MINI FLOW RETN TO RWT	M1	MVM32Q	MVM32Q	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	M1	MVM44Q	MVM44Q	0
A225	1FANHVACPENETE12	12 PENET RM EXH FAN (1M0402)	M1	VDM02Q	VDM02Q	18.75
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	M1	VDM12Q	VDM12Q	36
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	M1	VDM13Q	VDM13Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A226	1COMP5WAC11	11 SW AIR COMPRESSOR (1M1404)	M2	CMN04Q	CMN04Q	144
A217	1U1409	11 CVC BA TK HTR A	M2	HTN09Q	HTN09Q	6
A217	1U1434	12 BA TK HTR A	M2	HTN34Q	HTN34Q	6
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	M2	M2FPPR	VD48AQ	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	M2	M2FPPR	VD48BQ	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	M2	M2FPPR	VD48CQ	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	M2	M2FPPR	VD48DQ	22
A217	1PUMPCVCBA11	11 CVC BORIC ACID PUMP (1M1406)	M2	MBN06Q	MBN06Q	12
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A227	1MOV615	11A LPSI LOOP ISOL	M2	MVN07Q	MVN07Q	19
A227	1MOV625	11B LPSI LOOP ISOL	M2	MVN08Q	MVN08Q	0
A119	1MOV656	AUX HPSI HDR ISOL	M2	MVN21Q	MVN21Q	0
A119	1MOV655	HPSI HDR X-CONN	M2	MVN22Q	MVN22Q	0
A218	1MOV504	RWT TO CHG PP	M2	MVN23Q	MVN23Q	19
A217	1MOV509	11 BAST GRAVITY FD	M2	MVN24Q	MVN24Q	6
A217	1MOV508	12 BAST GRAVITY FD	M2	MVN30Q	MVN30Q	6
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A118	1MOV659	MINI FLOW RETN TO RWT	M2	MVN32Q	MVN32Q	0
A224	1MOV399	SDC HX RECIRC STOP	M2	MVN37Q	MVN37Q	6
A122	1MOV4144	CONTMT SUMP OUT ISOL	M2	MVN44Q	MVN44Q	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	M2	MVN57Q	MVN57Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A217	1X11	1 CVC BA HEAT TRACING XFMR	M2	TMN33Q	TMN33Q	6
A225	1FANHVACPENETE11	11 PENET RM EXH FAN (1M1402)	M2	VDN02Q	VDN02Q	18.75
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	M2	VDN12Q	VDN12Q	36
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	M2	VDN13Q	VDN13Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A215	2U0409	21 CVC BA TK HTR B	M3	HTO09Q	HTO09Q	0
A215	2U0434	22 CVC BA TK HTR B	M3	HTO34Q	HTO34Q	0
A102	2FAN0448A	ECCS PP RM CLR 22 FAN A (2M0448A)	M3	M3FPPR	VD48AQ	22
A102	2FAN0448B	ECCS PP RM CLR 22 FAN B (2M0448B)	M3	M3FPPR	VD48BQ	22
A102	2FAN0448C	ECCS PP RM CLR 22 FAN C (2M0448C)	M3	M3FPPR	VD48CQ	22
A205	2COMP5WAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	M3	M3FSWC	CMO5AQ	144
A205	2COMP5WAC22B	22 SW AIR COMPRESSOR MOTOR B (2M0405B)	M3	M3FSWC	CMO5BQ	144
A215	2PUMPCVCBA22	22 CVC BORIC ACID PUMP (2M0406)	M3	MBO06Q	MBO06Q	6
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A102	2MOV654	HPSI HDR ISOL	M3	MVO21Q	MVO21Q	0
A102	2MOV653	HPSI HDR X-CONN	M3	MVO22Q	MVO22Q	0
A215	2MOV514	BAPP'S TO CHG PP SUCT DIRECT FD	M3	MVO25Q	MVO25Q	0
A120	2MOV5463	U-2 CONTMT RECIRC PIPE TUNNEL	M3	MVO30Q	MVO30Q	0
A102	2MOV660	MINI FLOW RETN TO RWT	M3	MVO32Q	MVO32Q	0
A120	2MOV4145	CONTMT SUMP OUTLET ISOL	M3	MVO44Q	MVO44Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A203	2MOV399	SDC HX RECIRC ISOL	M3	MVO58Q	MVO58Q	6
A204	2FANHVACPENETE22	22 PENET RM EXH FAN (2M1402)	M3	VDO02Q	VDO02Q	18.75
A204	2FANHVACAFWE22	22 AFW PUMP RM EXH (2M0412)	M3	VDO12Q	VDO12Q	36
A204	2FANHVACECCSE22	22 ECCS PUMP RM EXH (2M0413)	M3	VDO13Q	VDO13Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A215	2U1409	21 CVC BA TK HTR A	M4	HTN09Q	HTN09Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A215	2U1434	22 CVC BA TK HTR A	M4	HTN34Q	HTN34Q	0
A205	2COMPSWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	M4	M4FCRC	CM05AQ	144
A205	2COMPSWAC21B	21 SW AIR COMPRESSOR MOTOR B (2M1405B)	M4	M4FCRC	CM05BQ	144
A101	2FAN1448A	ECCS PP RM CLR 21 FAN A (2M1448A)	M4	M4FPPR	VD48AQ	72
A101	2FAN1448B	ECCS PP RM CLR 21 FAN B (2M1448B)	M4	M4FPPR	VD48BQ	72
A101	2FAN1448C	ECCS PP RM CLR 21 FAN C (2M1448C)	M4	M4FPPR	VD48CQ	72
A101	2FAN1448D	ECCS PP RM CLR 21 FAN D (2M1448D)	M4	M4FPPR	VD48DQ	72
A215	2PUMPCVCBA21	21 CVC BORIC ACID PUMP (2M1406)	M4	MBN06Q	MBN06Q	6
A208	2MOV615	21B LPSI OUTLET MOV	M4	MVN07Q	MVN07Q	24
A208	2MOV625	21A LPSI LOOP ISOL	M4	MVN08Q	MVN08Q	24
A101	2MOV656	AUX HPSI HDR ISOL	M4	MVN21Q	MVN21Q	54
A101	2MOV655	HPSI HDR X-CONN	M4	MVN22Q	MVN22Q	48
A212	2MOV504	RWT TO CHG PP	M4	MVN23Q	MVN23Q	24
A215	2MOV509	21 BAST GRAVITY FD	M4	MVN24Q	MVN24Q	0
A215	2MOV508	22 BAST GRAVITY FD	M4	MVN30Q	MVN30Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A102	2MOV659	MINI FLOW RETN TO RWT	M4	MVN32Q	MVN32Q	0
A120	2MOV4144	CONTMT SUMP OUTLET ISOL	M4	MVN44Q	MVN44Q	0
A120	2MOV5462	U-2 CONTMT RECIRC PIPE TUNNEL	M4	MVN57Q	MVN57Q	0
A215	2X11	BA HEAT TRACE XFMR 21	M4	TMN04Q	TMN04Q	0
A204	2FANHVCAPENETE21	21 PENET RM EXH FAN (2M0402)	M4	VDN02Q	VDN02Q	18.75
A204	2FANHVACAFWE21	21 AFW PUMP RM EXH (2M1412)	M4	VDN12Q	VDN12Q	36
A204	2FANHVACECCSE21	21 ECCS PUMP RM EXH (2M1413)	M4	VDN13Q	VDN13Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	MH	BHEF1I	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	MH	BHEF1I	Open	0
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFP CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFP OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659P	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659X	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660P	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660X	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A228	1PUMPC11	11 COMPONENT COOLING PUMP (1MB106)	N1	MZ106Q	MZ106Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A228	1PUMPC13	13 COMPONENT COOLING PUMP (1MB116)	N2	MZ116Q	MZ116Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A228	1PUMPC12	12 COMPONENT COOLING PUMP (1MB406)	N3	MZ406Q	MZ406Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A228	1PUMPC13	13 COMPONENT COOLING PUMP (1MB116)	N4	MZ416Q	MZ416Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A201	2PUMPC21	21 COMPONENT COOLING PUMP (2MB106)	N5	MZT06Q	MZT06Q	12
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A201	2PUMPC23	23 COMPONENT COOLING PUMP (2MB116)	N6	MZT16Q	MZT16Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A201	2PUMPC22	22 COMPONENT COOLING PUMP (2MB406)	N7	MZT26Q	MZT26Q	12
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A201	2PUMPC23	23 COMPONENT COOLING PUMP (2MB116)	N8	MZT36Q	MZT36Q	12
A228	1ACC5170	AIR ACCUMULATOR FOR 1CV5170	NR	ILIA99	TK170B	0
A228	1ACC5171	AIR ACCUMULATOR FOR 1CV5171	NR	ILIA99	TK171B	0
A228	1ACC5174	AIR ACCUMULATOR FOR 1CV5174	NR	ILIA99	TK174B	0
A228	1ACC5175	AIR ACCUMULATOR FOR 1CV5175	NR	ILIA99	TK175B	0
A228	1ACC5177	AIR ACCUMULATOR FOR 1CV5177	NR	ILIA99	TK177B	0
A228	1ACC5178	AIR ACCUMULATOR FOR 1CV5178	NR	ILIA99	TK178B	0
A228	1ACC5173	AIR ACCUMULATOR FOR 1CV5173	NR	INIA99	TK173B	0
A224	1ACC1645	AIR ACCUMULATOR FOR 1CV1645	NR	IPIA99	TK645B	0
A224	1ACC1646	AIR ACCUMULATOR FOR 1CV1646	NR	IPIA99	TK646B	0
A226	1ACC4070	11 S/G AFW STM VLV ACCUM	NR	NRIA99	TK070B	144
A226	1ACC4071	12 S/G STM VLV ACCUM	NR	NRIA99	TK071B	144
A205	2CV1637	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERV WTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2CV1600	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2ACC4070	IA ACCUMULATOR	NS	NSIA99	TKS70B	144
A205	2ACC4071	IA ACCUMULATOR	NS	NSIA99	TKS71B	144
A205	2CV1638	TB SRW HDR ISOL	NS	NSSRW	N/A	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2CV1637	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERV WTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2CV1600	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A226	1CV4522	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1CV4523	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	144
A226	1CV4532	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1CV4533	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	144
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	RH	BHERH1	Start	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	RH	BHERH1	Start	12
A226	1CV5150	11 SRW HX SW INLET	S3	C1150P	C1150P	60
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11R	MWS11R	32
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11S	MWS11S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13S	MWS13S	32
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1CV5210	11 SRW HX SW OUTLET CV	S3	S3H1BV	C2210P	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1/P5157	12A/12B SRW HX SW OUT I/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	C2212O	C2212O	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12R	MWS12R	32
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12S	MWS12S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13S	MWS13S	32
A226	1CV5152	12 SRW HX SW INLET	S4	S4CV52	C1152P	60
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	S4H2BV	C2212P	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A208	1CV2181	U-1 CONTMT WG HDR B/U ISOL	SH	IC181C	IC181C	12
A208	1SV2181	1-WGS-2181-CV SV	SH	IC181C	IC181C	12
A208	1CV2181	U-1 CONTMT WG HDR B/U ISOL	SH	IC181T	IC181T	12
A208	1SV2181	1-WGS-2181-CV SV	SH	IC181T	IC181T	12
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SHSV02	SV07BT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SHSV05	SV07CT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SHSV08	SV07DT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SV07BD	SV07BD	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SV07CD	SV07CD	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SV07DD	SV07DD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GD	SV07GD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GT	SV07GT	0
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	SP(PP1)	BHEK12	Start	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	SP(PP2)	BHEK12	Start	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	SP(PP3)	BHEK12	Start	12
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144C	MV144C	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144T	MV144T	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145C	MV145C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145T	MV145T	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462C	MV462C	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462T	MV462T	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463C	MV463C	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463T	MV463T	0
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615C	MV615C	19
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615T	MV615T	19
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625C	MV625C	0
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625T	MV625T	0
A226	1CV1637	TURB BLDG SRW HDR 11 ISOL	TA	TAFB01	C3637P	144
A226	1SV1637	TURB LUBE&EHC OIL SERWTR ISOL	TA	TAFB01	C3637P	0
A226	1CV1639	TURB BLDG SRW HDR 11 ISOL	TA	TAFB01	C3639P	144
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1CV1600	TURB BLDG SRW HDR 12 ISOL	TB	TBFB01	C3600P	72
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A226	1CV1638	TURB BLDG SRW HDR 12 ISOL	TB	TBFB01	C3638P	72
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	MV1440	MV1440	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	TE0101	MV144P	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	TG	BHEF1Y	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	TG	BHEF1Y	Open	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	TH(HD1)	BHER3B	Open	13
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	TH(HD1)	BHER3B	Open	0
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	TH(HD1)	BHER3B	Open	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A228	1CV5206	11 CC HX SW OUTLET	TH(HD1)	BHER3B	Throttle	0
A226	1CV5210	11 SRW HX SW OUTLET CV	TH(HD1)	BHER3B	Throttle	60
A228	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A228	1SV5208	COMP CLG HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	TH(HD2)	BHER3B	Open	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	TH(HD2)	BHER3B	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	TH(HD2)	BHER3B	Open	0
A228	1CV5208	12 CC HX SW NORM OUT	TH(HD2)	BHER3B	Throttle	0
A226	1CV5212	12 SRW HX SW OUT CV	TH(HD2)	BHER3B	Throttle	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	MV1450	MV1450	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	TW0101	MV145P	0
A224	1PS4404	11 MT CONDENSER LOW VACUUM PS	TX	PS404D	PS404D	0
A224	1PS4405	11 MT CONDENSER LOW VACUUM PS	TX	PS405D	PS405D	0
A224	1PS4407	12 MT CONDENSER LOW VACUUM PS	TX	PS407D	PS407D	0
A224	1PS4408	12 MT CONDENSER LOW VACUUM PS	TX	PS408D	PS408D	0
A224	1PS4410	13 MT CONDENSER LOW VACUUM PS	TX	PS410D	PS410D	0
A224	1PS4411	13 MT CONDENSER LOW VACUUM PS	TX	PS411D	PS411D	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	UQ	BHEUQ1	Throttle	144
A226	1CV4535	12 S/G AFW FLOW CONT VLV	UQ	BHEUQ1	Throttle	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	TS404D	TS404D	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	V1	V1CLSE	WC170P	13
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	V1	V1CLSE	WC170P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC170P	0
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	V1	V1CLSE	WC171P	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC171P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1TEMP	TS404R	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205B	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205P	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AR	VD11AR	22
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AS	VD11AS	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BR	VD11BR	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BS	VD11BS	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CR	VD11CR	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CS	VD11CS	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DR	VD11DR	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DS	VD11DS	22
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	V1	WC170D	WC170D	13
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	V1	WC170D	WC170D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170D	WC170D	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	V1	WC170O	WC170O	13
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	V1	WC170O	WC170O	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170O	WC170O	0
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	V1	WC171D	WC171D	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	V1	WC171D	WC171D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171D	WC171D	0
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	V1	WC171O	WC171O	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	V1	WC171O	WC171O	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171O	WC171O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	TS405D	TS405D	0
A228	1CV5174	12 ECCS PP RM AIR CLR SW NORM OUTLET	V2	V2CLSE	WC174P	0
A228	1SV5174	ECCS PP RM HTEX 12 SLT WTR OUT	V2	V2CLSE	WC174P	0
A228	1CV5175	12 ECCS PP RM AIR CLR SW NORM B/U OUT	V2	V2CLSE	WC175P	0
A228	1SV5175	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2CLSE	WC175P	0
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	V2	V2INLT	WC173P	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	V2	V2INLT	WC173P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2INLT	WC173P	0
A228	1CV5177	12 ECCS PP RM AIR CLR SW AUX OUTLET	V2	V2OTLT	C4177O	0
A228	1SV5177	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4177O	0
A228	1CV5177	12 ECCS PP RM AIR CLR SW AUX OUTLET	V2	V2OTLT	C4177P	0
A228	1SV5177	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4177P	0
A228	1CV5178	12 ECCS PP RM AIR CLR SW AUX B/U OUT	V2	V2OTLT	C4178O	0
A228	1SV5178	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4178O	0
A228	1CV5178	12 ECCS PP RM AIR CLR SW AUX B/U OUT	V2	V2OTLT	C4178P	0
A228	1SV5178	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4178P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2TEMP	TS405R	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207B	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AR	VD12AR	22
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AS	VD12AS	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BR	VD12BR	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BS	VD12BS	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CR	VD12CR	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CS	VD12CS	22
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	V2	WC173D	WC173D	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	V2	WC173D	WC173D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173D	WC173D	0
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	V2	WC173O	WC173O	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	V2	WC173O	WC173O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173O	WC173O	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11R	VDF11R	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11S	VDF11S	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A225	1FANHFACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12R	VDF12R	0
A225	1FANHFACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12S	VDF12S	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	VM(RM1)	BHEV1T	Open	13
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	VM(RM1)	BHEV1T	Open	0
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	VM(RM1)	BHEV1T	Open	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	VM(RM1)	BHEV1T	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	VM(RM1)	BHEV1T	Start	22
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	VM(RM2)	BHEV1T	Open	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	VM(RM2)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM2)	BHEV1T	Open	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	VM(RM2)	BHEV1T	Start	22
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	WJ	BHESH2	Shut	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	WJ	BHESH2	Shut	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	CV584O	CV584O	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	CV584O	CV584O	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	CV584O	CV584O	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	CV592O	CV592O	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	CV592O	CV592O	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	CV592O	CV592O	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	WB102F	CV584P	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	WB102F	CV584P	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	WB102F	CV584P	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	WD102F	CV592P	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	WD102F	CV592P	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	WD102F	CV592P	0

# Flood Evaluation Query

CF-30C-S205AN

03-Dec-98

TOP	PM	EVALUATION	RI
AA	6BKR	6 breaker challenges.	PAJ
AB	5BKR	5 breaker challenges.	PAJ
AC	4BKR	4 breaker challenges.	PAJ
AD	7BKR	7 breaker challenges.	PAJ
CS	F	CS Pump 11 is lost.	PAJ
CT	F	CS Pump 12 is lost.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
DL	None	11A and 11B LPSI Loop Isol MOVs (1MOV615 and 1MOV625), Fail to Open on Demand. LPSIs only used in large break LOCAs. Flood cannot cause a large break LOCA, therefore this top is not affected.	PAJ
F1	<del>Spec Impt</del> <i>None</i>	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be. <i>(Note 2) (Note 40)</i>	PAJ
F3	None	Steam Admission SV's 1SV4070/4071 are covered under top event F1.	PAJ
F7	F	Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
FC	Spec Impt	AFW Pump Room Emergency Vent Fans 11 & 12 fail along with NSR A/C Unit fail.	PAJ
FF	None	Both 11 and 12 AFW Pump Room Exhaust fans fail to start. Covered under Top FC.	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ

See notes in RAN 98-065 Sect. 5.4 *JPK*

TOP	PM	EVALUATION	RI
FO	F	Use FO SF where M3 and M4 fail. 21A SWAC fails and 22A SWAC fails. The Unit 1 Plant Model does not credit anything other than the use of the SWACs. As a result, this function should be considered failed.	PAJ
GG	None	1CV1645 / 1CV1646 are both locked open. Both valves have been retired in place and can only be manipulated manually.	PAJ
GW	F	22 and 23 SRW Pump fail.	PAJ
GZ	F	21 and 23 SRW Pump fail.	PAJ
HA	F	11 HPSI Pump fails.	PAJ
HB	F	13 HPSI Pump fails.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	F	12 HPSI is lost. Also IMOV653, IMOV654, IMOV655 and IMOV656 fail as-is.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
11	<del>F</del> None	<del>11 SWAC fails.</del> (note 40) *	PAJ
12	<del>F</del> None	<del>12 SWAC fails.</del> (note 40) *	PAJ
IL	None	Air accumulators only. Mechanical operation only.	PAJ
IN	None	Air accumulators only. Mechanical operation only.	PAJ
IP	None	Air accumulators only. Mechanical operation only.	PAJ
K3	None	Since KX, KY and KZ fail, this top event will be set to success.	PAJ
K4	None	Since KX, KY and KZ fail, this top event will be set to success.	PAJ
KH(PP1)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to start 11 CCW Pump. 11 Component Cooling Pump fails to start.	PAJ
KH(PP2)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to start 12 CCW Pump. 12 Component Cooling Pump fails to start.	PAJ

TOP	PM	EVALUATION	RI
KH(PP3)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to start 13 CCW Pump. 13 Component Cooling Pump fails to start.	PAJ
KI(HX1)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to open, close or modulate two valves (1CV3824 and 1CV5206). 1CV3824 will fail in the appropriate position. 1CV5206 will not. This valve will fail open neglecting the capability to throttle this valve. Therefore this top will fail.	PAJ
KI(HX2)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to open, close or modulate two valves (1CV3826 and 1CV5208). 1CV3826 will fail in the appropriate position. 1CV5208 will not. This valve will fail open neglecting the capability to throttle this valve. Therefore this top will fail.	PAJ
KM	None	Since KX, KY and KZ fail, this top event will be set to success.	PAJ
KN	None	Since KX, KY and KZ fail, this top event will be set to success.	PAJ
KX	F	11 CCW Pump will fail to start/run.	PAJ
KY	F	12 CCW Pump will fail to start/run.	PAJ
KZ	F	13 CCW Pump will fail to start/run.	PAJ
M1	15BKR	15 breaker challenges.	PAJ
M2	24BKR	24 breaker challenges.	PAJ
M3	18BKR	18 breaker challenges.	PAJ
M4	21BKR	21 breaker challenges.	PAJ
MH	<del>Spec Impt</del> None	<del>1CV4070/4071 are normally closed and fail as-is on loss of power. These valves must be locally vented.</del> (Note 3)	PAJ
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MV	None	1MOV659/660 fail as-is and are normally electrically locked open, there will be no flood impact.	PAJ
N1	2BKR	2 breaker challenges.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N3	1BKR	1 breaker challenge. Charging Pump 13 is normally aligned to 480V Bus 11A.	PAJ



TOP	PM	EVALUATION	RI
N4	1BKR	1 breaker challenge. Component Cooling Pump 13 is normally aligned to 480V Bus 11B.	PAJ
N5	1BKR	1 breaker challenge. Charging Pump 23 is normally aligned to 480V Bus 24A.	PAJ
N6	1BKR	1 breaker challenge. Component Cooling Pump 23 is normally aligned to 480V Bus 24B.	PAJ
N7	2BKR	2 breaker challenges.	PAJ
N8	2BKR	2 breaker challenges.	PAJ
NR	<del>F</del> None	Air accumulators only. Mechanical operation only. (Note 8)	PAJ
NR(TC)	<del>F</del> Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1. (Note 8)	PAJ
NS	<del>F</del> Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2. (Note 8)	PAJ
QZ	None	11 & 12 AFW Block valves (ICV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
RH	<del>F</del> None	This human action requires the operator to start 11 and 13 HPSI Pumps. Both pumps are assumed not to start/run during a flood scenario. (Note 9)	PAJ
S3	F	11 and 13 SRW Pumps fail.	PAJ
S4	F	12 and 13 SRW Pumps fail.	PAJ
SG	<del>F</del> None Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 3)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
SP(PP1)	None	11 CC Pumps fails to start/run. Accounted for by Top KX.	PAJ
SP(PP2)	None	12 CC Pumps fails to start/run. Accounted for by Top KY.	PAJ
SP(PP3)	None	13 CC Pumps fails to start/run. Accounted for by Top KZ.	PAJ
SR	<del>Spec Impt</del> <del>None</del>	All MOVs (1MOV4144/4145/5462/5463/615/625) are closed and fail close. (Note 10)	PAJ

TOP	PM	EVALUATION	RI
TA	F	1CV1637/1639 fail close on loss of power / loss of air.	PAJ
TB	F	1CV1600/1638 fail close on loss of power / loss of air.	PAJ
TE	F	1MOV4144 is normally in the closed position and will fail as-is. Therefore, the East Recirculation Header will not function properly.	PAJ
TF	<del>F</del> None	<del>11 AFW TD Pump fails.</del> (note 40)	PAJ
TG	<del>F</del> None	<del>12 AFW TD Pump fails.</del> (note 40)	PAJ
TH(HD1)	None	1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3. Also, 1CV5170/5171 fails open on loss of power and loss of air.	PAJ
TH(HD2)	None	1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4. Also, 1CV5173 fails open on loss of power and loss of air.	PAJ
TW	F	1MOV4145 is normally in the closed position and will fail as-is. Therefore, the West Recirculation Header will not function properly.	PAJ
TX	None	Has 6 PSs. It is assumed that a flood will not prevent PS activation.	PAJ
UQ	None	1CV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
V1	F	All ECCS Pump Room Fans fail to start/run.	PAJ
V2	F	All ECCS Pump Room Fans fail to start/run.	PAJ
<del>V5</del>	<del>F</del>	<del>11 and 12 ECCS exhaust fans fails to start/run.</del> <i>V5 deleted</i>	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
VM(RM1)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V1.	PAJ
VM(RM2)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V2.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ
WY	None	1CV1584/1592 fail open loss of power.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	AA	MACS1Q	MACS1Q	12
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	AA	MAHP1Q	MAHP1Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AA	MAHP3Q	MAHP3Q	12
A119	1PUMPSILPSI11	11 LOW PRESS SAFETY INJECTION PUMP (1MA104)	AA	MALP1Q	MALP1Q	12
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	AA	MWSR1Q	MWSR1Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AA	MWSR3Q	MWSR3Q	32
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	AB	MACS2Q	MACS2Q	12
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	AB	MAHP2Q	MAHP2Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AB	MAHP4Q	MAHP4Q	12
A118	1PUMPSILPSI12	12 LOW PRESS SAFETY INJECTION PUMP (1MA404)	AB	MALP2Q	MALP2Q	12
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	AB	MWSR2Q	MWSR2Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AB	MWSR4Q	MWSR4Q	32
A101	2PUMPSICS21	21 CONTAINMENT SPRAY PUMP (2MA107)	AC	MACS3Q	MACS3Q	24
A101	2PUMPHPSI21	SI HPSI PUMP 21 (2MA108)	AC	MAHP5Q	MAHP5Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AC	MAHP7Q	MAHP7Q	12
A101	2PUMPSILPSI21	21 LOW PRESS SAFETY INJECTION PUMP (2MA104)	AC	MALP3Q	MALP3Q	39
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	AC	MWSR5Q	MWSR5Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AC	MWSR7Q	MWSR7Q	32
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A102	2PUMPSICS22	22 CONTAINMENT SPRAY PUMP (2MA407)	AD	MACS4Q	MACS4Q	12
A101	2PUMPHPSI22	SI HPSI PUMP 22 (2MA408)	AD	MAHP6Q	MAHP6Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AD	MAHP8Q	MAHP8Q	12
A102	2PUMPSILPSI22	22 LOW PRESS SAFETY INJECTION PUMP (2MA404)	AD	MALP4Q	MALP4Q	12
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	AD	MWSR6Q	MWSR6Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AD	MWSR8Q	MWSR8Q	32
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11B	0
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11P	0
A119	1MOV663	SDC RECIRC TO 11 HPSI PP	CS	CS0103	MV663T	0
A119	1CV3828	11 SDC HX OUTLET	CS	CSHX11	CV828P	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CSHX11	CV828P	0
A119	1CV3828	11 SDC HX OUTLET	CS	CV828O	CV828O	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CV828O	CV828O	0
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107R	MA107R	12
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107S	MA107S	12
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12B	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12P	0
A118	1MOV662	SDC RECIRC TO 13 HPSI PP	CT	CT0103	MV662T	0
A118	1CV3830	12 SDC HX OUTLET	CT	CTXH12	CV830P	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CTXH12	CV830P	0
A118	1CV3830	12 SDC HX OUTLET	CT	CV830O	CV830O	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CV830O	CV830O	0
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407R	MA407R	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407S	MA407S	12
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A218	1CV500	VOL CONT TNK INLT VLV	CV	CVHV03	CV500O	0
A218	1LC227A	VOLUME CONTROL TNK LEVEL HIGH	CV	CVHV03	CV500O	0
A218	1SV500	VOL CONT TANK INLET CONT VLV	CV	CVHV03	CV500O	0
A218	1CV500	VOL CONT TNK INLT VLV	CV	CVHV03	CV500P	0
A218	1LC227A	VOLUME CONTROL TNK LEVEL HIGH	CV	CVHV03	CV500P	0
A218	1SV500	VOL CONT TANK INLET CONT VLV	CV	CVHV03	CV500P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A217	1MOV514	BAPP TO CHG PP SUCT DIRECT FD	CV	CVMV01	MV514O	6
A217	1MOV514	BAPP TO CHG PP SUCT DIRECT FD	CV	CVMV01	MV514P	6
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS224R	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A217	1PUMPCVCBA11	11 CVC BORIC ACID PUMP (1M1406)	CV	MP011R	MP011R	12
A217	1PUMPCVCBA11	11 CVC BORIC ACID PUMP (1M1406)	CV	MP011S	MP011S	12
A217	1PUMPCVCBA12	12 CVC BORIC ACID PUMP (1M0406)	CV	MP012R	MP012R	12
A217	1PUMPCVCBA12	12 CVC BORIC ACID PUMP (1M0406)	CV	MP012S	MP012S	12
A217	1MOV508	12 BAST GRAVITY FD	CV	MV508O	MV508O	6
A217	1MOV508	12 BAST GRAVITY FD	CV	MV508P	MV508P	6
A217	1MOV509	11 BAST GRAVITY FD	CV	MV509O	MV509O	6
A217	1MOV509	11 BAST GRAVITY FD	CV	MV509P	MV509P	6
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615O	19
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615P	19
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625O	0
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625P	0
A226	1CV4522	11 S/G AFW BLOCK VLV	F1	CV4522	CV522P	40
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1CV4523	11 S/G AFW BLOCK VLV	F1	CV4523	CV523P	144
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1CV4532	12 S/G AFW BLOCK VLV	F1	CV4532	CV532P	40
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1CV4533	12 S/G AFW BLOCK VLV	F1	CV4533	CV533P	144
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070O	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070P	0
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071O	0
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	F1	F1MLV1	C6525P	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	F1	F1MLV1	C6525R	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1CV4535	12 S/G AFW FLOW CONT VLV	F1	F1MLV2	C6535P	144
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1CV4535	12 S/G AFW FLOW CONT VLV	F1	F1MLV2	C6535R	144
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F3	BHEF31	Open	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A227	1SV4071	12 S/G MS TO AFW PP	F3	BHEF31	Open	0
A226	1CV4550	U-1 TO U-2 AFW X-CONN VLV	F7	F7MPVA	C3550T	144
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	CVB22C	CVB22C	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	CVB23C	CVB23C	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	CVB32C	CVB32C	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	CVB33C	CVB33C	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50O	144
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50O	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50P	144
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB22T	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB23T	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB32T	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB33T	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11R	0
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11S	0
A225	1HS5472	MCC-101-BT BKR 52-10150 AFW PP RM A/C UNIT 11	FC	FCAC11	HS472T	0
A225	1HS5470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470D	18
A225	1HS5470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470T	18
A225	1HS5471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471D	18
A225	1HS5471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471T	18
T603	1FDAFWW1	AFW RM SUPPLY FROM RM 225 TO 1AFW FD	FC	FDAMPR	FD001I	0
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	FC	VDA11R	VDA11R	36
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	FC	VDA11S	VDA11S	36
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	FC	VDA12R	VDA12R	36
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	FC	VDA12S	VDA12S	36
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	FF	BHEFCB	Start	36
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	FF	BHEFCB	Start	36
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A205	2COMP SWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21R	144
A205	2COMP SWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21S	144
A205	2COMP SWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22R	144
A205	2COMP SWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22S	144
A205	2LS5200	21 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS200R	144
A205	2LS5201	22 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS201R	144
A205	2TS5200	21 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS200R	144
A205	2TS5201	22 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS201R	144
A224	1CV1645	1B DG SUPP FROM U-1 SRW	GG	GGSRW1	CVA45P	6
A224	1CV1646	1B DG RTN TO U-1 SRW	GG	GGSRW1	CVA46P	6
A205	2CV5212	22 SRW HX SW OUT CV	GW	C2S12O	C2S12O	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S12O	C2S12O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S12O	C2S12O	0
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22R	MWT22R	32
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22S	MWT22S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23S	MWT23S	32
A205	2CV5152	22 SRW HX SW INLET	GW	S8CV52	C1S52P	60
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2CV5212	22 SRW HX SW OUT CV	GW	S8H2CV	C2S12P	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2HXSRW22	22 SRW HX	GW	S8HX22	HXS22B	144
A205	2HXSRW22	22 SRW HX	GW	S8HX22	HXS22P	144
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21R	MWT21R	32
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21S	MWT21S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23S	MWT23S	32
A205	2CV5150	21 SRW HX SW INLET	GZ	S7H2CV	C1S50P	60
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2CV5210	21 SRW HX SW OUTLET CV	GZ	S7H2CV	C2S10P	60
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2HXSRW21	21 SRW HX	GZ	S7HX21	HXS21B	144
A205	2HXSRW21	21 SRW HX	GZ	S7HX21	HXS21P	144
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AP	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BP	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AB	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AP	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BB	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BP	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1B	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1P	0
A119	1MOV656	AUX HPSI HDR ISOL	HA	HADISA	MV656P	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011R	MA011R	24
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011S	MA011S	24
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AP	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BP	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AB	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AP	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BB	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BP	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3B	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3P	0
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013R	MA013R	12
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013S	MA013S	12
A118	1MOV654	HPSI HDR ISOL	HB	MV654P	MV654P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	HU	BHEF1B	Throttle	144
A226	1CV4535	12 S/G AFW FLOW CONT VLV	HU	BHEF1B	Throttle	144

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A118	1PUMPHPSI12	12 HIGH PRESS SAFETY INJECTION PUMP	HW	BHEHW1	Start	12
A119	1MOV656	AUX HPSI HDR ISOL	HW	HADISA	MV656P	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AP	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BP	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AB	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AP	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BB	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BP	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2B	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2P	0
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012R	MA012R	24
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012S	MA012S	24
A118	1MOV653	HPSI HDR X-CONN	HW	MV653O	MV653O	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653P	MV653P	0
A118	1MOV654	HPSI HDR ISOL	HW	MV654P	MV654P	0
A119	1MOV655	HPSI HDR X-CONN	HW	MV655P	MV655P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	HX	BHEF1A	Throttle	144
A226	1CV4535	12 S/G AFW FLOW CONT VLV	HX	BHEF1A	Throttle	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1COMP5WAC11	11 SW AIR COMPRESSOR (1M1404)	I1	CMS11R	CMS11R	144
A226	1COMP5WAC11	11 SW AIR COMPRESSOR (1M1404)	I1	CMS11S	CMS11S	144
A226	1LS5200	11 IA SW AIR COMP LS	I1	I1CNTL	LS200R	144
A226	1TS5200	11 IA SW AIR COMP TS	I1	I1CNTL	TS200R	144
A226	1COMP5WAC12	12 SW AIR COMPRESSOR (1M0404)	I2	CMS12R	CMS12R	144
A226	1COMP5WAC12	12 SW AIR COMPRESSOR (1M0404)	I2	CMS12S	CMS12S	144
A226	1LS5201	12 IA SW AIR COMP LS	I2	I2CNTL	LS201R	144
A226	1TS5201	12 IA SW AIR COMP TS	I2	I2CNTL	TS201R	144
A228	1ACC5170	AIR ACCUMULATOR FOR 1CV5170	IL	ILIA99	TK170B	0
A228	1ACC5171	AIR ACCUMULATOR FOR 1CV5171	IL	ILIA99	TK171B	0
A228	1ACC5174	AIR ACCUMULATOR FOR 1CV5174	IL	ILIA99	TK174B	0
A228	1ACC5175	AIR ACCUMULATOR FOR 1CV5175	IL	ILIA99	TK175B	0
A228	1ACC5177	AIR ACCUMULATOR FOR 1CV5177	IL	ILIA99	TK177B	0
A228	1ACC5178	AIR ACCUMULATOR FOR 1CV5178	IL	ILIA99	TK178B	0
A228	1ACC5173	AIR ACCUMULATOR FOR 1CV5173	IN	INIA99	TK173B	0
A224	1ACC1645	AIR ACCUMULATOR FOR 1CV1645	IP	IPIA99	TK645B	0
A224	1ACC1646	AIR ACCUMULATOR FOR 1CV1646	IP	IPIA99	TK646B	0
A228	1CV5160	11 CC HX SW INLET	K3	C1160O	C1160O	0
A228	1SV5160	COMP CLG HTEX 11 SALT WTR INLT	K3	C1160O	C1160O	0
A228	1CV5206	11 CC HX SW OUTLET	K3	C2206O	C2206O	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	K3	C2206O	C2206O	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	K3	C2206O	C2206O	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	K3	C2206O	C2206O	0
A226	1CV5210	11 SRW HX SW OUTLET CV	K3	C2210C	C2210C	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A228	1CV3823	11 CC HX TEMP CONT BYP	K3	CT823R	CT823R	0
A228	1TIC3823	11 CC HX BYP VLV TEMP CONTL	K3	CT823R	CT823R	0
A226	1CV5210	11 SRW HX SW OUTLET CV	K3	K3CLOS	C2210T	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A228	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A228	1CV3823	11 CC HX TEMP CONT BYP	K3	K3COMP	CT823T	0
A228	1TIC3823	11 CC HX BYP VLV TEMP CONTL	K3	K3COMP	CT823T	0
A228	1CV5160	11 CC HX SW INLET	K3	K3OTLT	C1160P	0
A228	1SV5160	COMP CLG HTEX 11 SALT WTR INLT	K3	K3OTLT	C1160P	0
A228	1CV5206	11 CC HX SW OUTLET	K3	K3OTLT	C2206P	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	K3	K3OTLT	C2206P	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	K3	K3OTLT	C2206P	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	K3	K3OTLT	C2206P	0
A228	1CV5162	12 CC HX SW INLET	K4	C11620	C11620	0
A228	1SV5162	COMP CLG HTEX 12 SALT WTR INLT	K4	C11620	C11620	0
A228	1CV5163	12 CC HX SW NORM B/U OUTLET	K4	C11630	C11630	0
A228	1SV5163	COMP CLG HTEX 12 SALT WTR OUT	K4	C11630	C11630	0
A228	1CV5208	12 CC HX SW NORM OUT	K4	C22080	C22080	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	K4	C22080	C22080	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	K4	C22080	C22080	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	K4	C22080	C22080	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	C2212C	C2212C	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A228	1CV3825	12 CC HX TEMP CONT BYP	K4	CT825R	CT825R	0
A228	1TIC3825	12 CC HX BYP VLV TEMP CONTL	K4	CT825R	CT825R	0
A228	1CV3825	12 CC HX TEMP CONT BYP	K4	K4CMP1	CT825T	0
A228	1TIC3825	12 CC HX BYP VLV TEMP CONTL	K4	K4CMP1	CT825T	0
A228	1CV5162	12 CC HX SW INLET	K4	K4INLT	C1162P	0
A228	1SV5162	COMP CLG HTEX 12 SALT WTR INLT	K4	K4INLT	C1162P	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	K4ISO1	C2212T	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A228	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A228	1CV5165	12 CC HX SW AUX OUT	K4	K4OPN2	C41650	0
A228	1SV5165	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C41650	0
A228	1CV5165	12 CC HX SW AUX OUT	K4	K4OPN2	C4165P	0
A228	1SV5165	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4165P	0
A228	1CV5166	12 CC HX SW AUX B/U OUTLET	K4	K4OPN2	C41660	0
A228	1SV5166	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C41660	0
A228	1CV5166	12 CC HX SW AUX B/U OUTLET	K4	K4OPN2	C4166P	0
A228	1SV5166	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4166P	0
A228	1CV5163	12 CC HX SW NORM B/U OUTLET	K4	K4OTLT	C1163P	0
A228	1SV5163	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OTLT	C1163P	0
A228	1CV5208	12 CC HX SW NORM OUT	K4	K4OTLT	C2208P	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	K4	K4OTLT	C2208P	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OTLT	C2208P	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OTLT	C2208P	0
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KH(PP1)	BHEKC1	Start	12
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KH(PP1)	BHEKZ1	Start	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KH(PP2)	BHEKC1	Start	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KH(PP2)	BHEKZ1	Start	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KH(PP3)	BHEKC1	Start	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KH(PP3)	BHEKZ1	Start	12
A228	1CV3826	12 CC HX OUTLET	KI(HX1)	BHEK31	Close	0
A228	1CV5208	12 CC HX SW NORM OUT	KI(HX1)	BHEK31	Close	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	KI(HX1)	BHEK31	Close	0
A228	1SV3826	COMP CLG HTEX 12 DISCH CONTROL	KI(HX1)	BHEK31	Close	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	KI(HX1)	BHEK31	Close	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	KI(HX1)	BHEK31	Close	0
A228	1CV3824	11 CC HX OUTLET	KI(HX1)	BHEK31	Open	0
A228	1SV3824	COMP CLG HX 11 DISCH CONTROL	KI(HX1)	BHEK31	Open	0
A228	1CV5206	11 CC HX SW OUTLET	KI(HX1)	BHEK31	Throttle	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	KI(HX1)	BHEK31	Throttle	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	KI(HX1)	BHEK31	Throttle	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	KI(HX1)	BHEK31	Throttle	0
A228	1CV3824	11 CC HX OUTLET	KI(HX2)	BHEK31	Close	0
A228	1CV5206	11 CC HX SW OUTLET	KI(HX2)	BHEK31	Close	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	KI(HX2)	BHEK31	Close	0
A228	1SV3824	COMP CLG HX 11 DISCH CONTROL	KI(HX2)	BHEK31	Close	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	KI(HX2)	BHEK31	Close	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	KI(HX2)	BHEK31	Close	0
A228	1CV3826	12 CC HX OUTLET	KI(HX2)	BHEK31	Open	0
A228	1SV3826	COMP CLG HTEX 12 DISCH CONTROL	KI(HX2)	BHEK31	Open	0
A228	1CV5208	12 CC HX SW NORM OUT	KI(HX2)	BHEK31	Throttle	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	KI(HX2)	BHEK31	Throttle	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	KI(HX2)	BHEK31	Throttle	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	KI(HX2)	BHEK31	Throttle	0
A228	1HXCC11	11 COMPONENT COOLING WTR	KM	HXC11B	HXC11B	13
A228	1CV3823	11 CC HX TEMP CONT BYP	KM	KMBYPS	CT823P	0
A228	1TIC3823	11 CC HX BYP VLV TEMP CONTL	KM	KMBYPS	TC823R	0
A228	1CV3824	11 CC HX OUTLET	KM	KMCV24	CV824P	0
A228	1SV3824	COMP CLG HX 11 DISCH CONTROL	KM	KMCV24	CV824P	0
A228	1HXCC11	11 COMPONENT COOLING WTR	KM	KMPATH	HXC11P	13
A228	1HXCC12	12 COMPONENT COOLING WTR	KN	HXC12B	HXC12B	13
A228	1CV3825	12 CC HX TEMP CONT BYP	KN	KNBYPS	CT825P	0
A228	1TIC3825	12 CC HX BYP VLV TEMP CONTL	KN	KNBYPS	TC825R	0
A228	1CV3826	12 CC HX OUTLET	KN	KNCV26	CV826P	0
A228	1SV3826	COMP CLG HTEX 12 DISCH CONTROL	KN	KNCV26	CV826P	0
A228	1HXCC12	12 COMPONENT COOLING WTR	KN	KNPATH	HXC12P	13
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KX	MZC11R	MZC11R	12
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KX	MZC11S	MZC11S	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KY	MZC12R	MZC12R	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KY	MZC12S	MZC12S	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KZ	MZC13R	MZC13R	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KZ	MZC13S	MZC13S	12
A226	1COMP5WAC12	12 SW AIR COMPRESSOR (1M0404)	M1	CMM04Q	CMM04Q	144
A217	1U0409	11 BA TK HTR B	M1	HTM09Q	HTM09Q	6
A217	1U0434	12 BA TK HTR B	M1	HTM34Q	HTM34Q	6
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	M1	M1FPPR	VD48AQ	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	M1	M1FPPR	VD48BQ	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	M1	M1FPPR	VD48CQ	22
A217	1PUMPCVCBA12	12 CVC BORIC ACID PUMP (1M0406)	M1	MBM06Q	MBM06Q	12

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A118	1MOV654	HPSI HDR ISOL	M1	MVM21Q	MVM21Q	0
A118	1MOV653	HPSI HDR X-CONN	M1	MVM22Q	MVM22Q	0
A217	1MOV514	BAPP TO CHG PP SUCT DIRECT FD	M1	MVM25Q	MVM25Q	6
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	M1	MVM30Q	MVM30Q	0
A118	1MOV660	MINI FLOW RETN TO RWT	M1	MVM32Q	MVM32Q	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	M1	MVM44Q	MVM44Q	0
A225	1FANHVACPENETE12	12 PENET RM EXH FAN (1M0402)	M1	VDM02Q	VDM02Q	18.75
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	M1	VDM12Q	VDM12Q	36
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	M1	VDM13Q	VDM13Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A226	1COMPSWAC11	11 SW AIR COMPRESSOR (1M1404)	M2	CMN04Q	CMN04Q	144
A217	1U1409	11 CVC BA TK HTR A	M2	HTN09Q	HTN09Q	6
A217	1U1434	12 BA TK HTR A	M2	HTN34Q	HTN34Q	6
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	M2	M2FPPR	VD48AQ	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	M2	M2FPPR	VD48BQ	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	M2	M2FPPR	VD48CQ	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	M2	M2FPPR	VD48DQ	22
A217	1PUMPCVCBA11	11 CVC BORIC ACID PUMP (1M1406)	M2	MBN06Q	MBN06Q	12
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A227	1MOV615	11A LPSI LOOP ISOL	M2	MVN07Q	MVN07Q	19
A227	1MOV625	11B LPSI LOOP ISOL	M2	MVN08Q	MVN08Q	0
A119	1MOV656	AUX HPSI HDR ISOL	M2	MVN21Q	MVN21Q	0
A119	1MOV655	HPSI HDR X-CONN	M2	MVN22Q	MVN22Q	0
A218	1MOV504	RWT TO CHG PP	M2	MVN23Q	MVN23Q	19
A217	1MOV509	11 BAST GRAVITY FD	M2	MVN24Q	MVN24Q	6
A217	1MOV508	12 BAST GRAVITY FD	M2	MVN30Q	MVN30Q	6
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A118	1MOV659	MINI FLOW RETN TO RWT	M2	MVN32Q	MVN32Q	0
A224	1MOV399	SDC HX RECIRC STOP	M2	MVN37Q	MVN37Q	6
A122	1MOV4144	CONTMT SUMP OUT ISOL	M2	MVN44Q	MVN44Q	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	M2	MVN57Q	MVN57Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A217	1X11	1 CVC BA HEAT TRACING XFMR	M2	TMN33Q	TMN33Q	6
A225	1FANHVACPENETE11	11 PENET RM EXH FAN (1M1402)	M2	VDN02Q	VDN02Q	18.75
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	M2	VDN12Q	VDN12Q	36
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	M2	VDN13Q	VDN13Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A215	2U0409	21 CVC BA TK HTR B	M3	HTO09Q	HTO09Q	0
A215	2U0434	22 CVC BA TK HTR B	M3	HTO34Q	HTO34Q	0
A102	2FAN0448A	ECCS PP RM CLR 22 FAN A (2M0448A)	M3	M3FPPR	VD48AQ	22
A102	2FAN0448B	ECCS PP RM CLR 22 FAN B (2M0448B)	M3	M3FPPR	VD48BQ	22
A102	2FAN0448C	ECCS PP RM CLR 22 FAN C (2M0448C)	M3	M3FPPR	VD48CQ	22
A205	2COMPSWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	M3	M3FSWC	CMO5AQ	144
A205	2COMPSWAC22B	22 SW AIR COMPRESSOR MOTOR B (2M0405B)	M3	M3FSWC	CMO5BQ	144
A215	2PUMPCVCBA22	22 CVC BORIC ACID PUMP (2M0406)	M3	MBO06Q	MBO06Q	6
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A102	2MOV654	HPSI HDR ISOL	M3	MVO21Q	MVO21Q	0
A102	2MOV653	HPSI HDR X-CONN	M3	MVO22Q	MVO22Q	0
A215	2MOV514	BAPP'S TO CHG PP SUCT DIRECT FD	M3	MVO25Q	MVO25Q	0
A120	2MOV5463	U-2 CONTMT RECIRC PIPE TUNNEL	M3	MVO30Q	MVO30Q	0
A102	2MOV660	MINI FLOW RETN TO RWT	M3	MVO32Q	MVO32Q	0
A120	2MOV4145	CONTMT SUMP OUTLET ISOL	M3	MVO44Q	MVO44Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A203	2MOV399	SDC HX RECIRC ISOL	M3	MVO58Q	MVO58Q	6
A204	2FANHVACPENETE22	22 PENET RM EXH FAN (2M1402)	M3	VDO02Q	VDO02Q	18.75
A204	2FANHVACAFWE22	22 AFW PUMP RM EXH (2M0412)	M3	VDO12Q	VDO12Q	36

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
A204	2FANHVACECCSE22	22 ECCS PUMP RM EXH (2M0413)	M3	VDO13Q	VDO13Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A215	2U1409	21 CVC BA TK HTR A	M4	HTN09Q	HTN09Q	0
A215	2U1434	22 CVC BA TK HTR A	M4	HTN34Q	HTN34Q	0
A205	2COMPSWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	M4	M4FCRC	CM05AQ	144
A205	2COMPSWAC21B	21 SW AIR COMPRESSOR MOTOR B (2M1405B)	M4	M4FCRC	CM05BQ	144
A101	2FAN1448A	ECCS PP RM CLR 21 FAN A (2M1448A)	M4	M4FPPR	VD48AQ	72
A101	2FAN1448B	ECCS PP RM CLR 21 FAN B (2M1448B)	M4	M4FPPR	VD48BQ	72
A101	2FAN1448C	ECCS PP RM CLR 21 FAN C (2M1448C)	M4	M4FPPR	VD48CQ	72
A101	2FAN1448D	ECCS PP RM CLR 21 FAN D (2M1448D)	M4	M4FPPR	VD48DQ	72
A215	2PUMPCVCBA21	21 CVC BORIC ACID PUMP (2M1406)	M4	MBN06Q	MBN06Q	6
A206	2MOV615	21B LPSI OUTLET MOV	M4	MVN07Q	MVN07Q	24
A206	2MOV625	21A LPSI LOOP ISOL	M4	MVN08Q	MVN08Q	24
A101	2MOV656	AUX HPSI HDR ISOL	M4	MVN21Q	MVN21Q	64
A101	2MOV655	HPSI HDR X-CONN	M4	MVN22Q	MVN22Q	48
A212	2MOV504	RWT TO CHG PP	M4	MVN23Q	MVN23Q	24
A215	2MOV509	21 BAST GRAVITY FD	M4	MVN24Q	MVN24Q	0
A215	2MOV508	22 BAST GRAVITY FD	M4	MVN30Q	MVN30Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A102	2MOV659	MINI FLOW RETN TO RWT	M4	MVN32Q	MVN32Q	0
A120	2MOV4144	CONTMT SUMP OUTLET ISOL	M4	MVN44Q	MVN44Q	0
A120	2MOV5462	U-2 CONTMT RECIRC PIPE TUNNEL	M4	MVN57Q	MVN57Q	0
A215	2X11	BA HEAT TRACE XFMR 21	M4	TMN04Q	TMN04Q	0
A204	2FANHVACPENETE21	21 PENET RM EXH FAN (2M0402)	M4	VDN02Q	VDN02Q	18.75
A204	2FANHVACAFWE21	21 AFW PUMP RM EXH (2M1412)	M4	VDN12Q	VDN12Q	36
A204	2FANHVACECCSE21	21 ECCS PUMP RM EXH (2M1413)	M4	VDN13Q	VDN13Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	MH	BHEF1I	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	MH	BHEF1I	Open	0
A228	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A228	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659P	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659X	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660P	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660X	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A228	1PUMPC11	11 COMPONENT COOLING PUMP (1MB106)	N1	MZ106Q	MZ106Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A228	1PUMPC13	13 COMPONENT COOLING PUMP (1MB116)	N2	MZ116Q	MZ116Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A228	1PUMPC12	12 COMPONENT COOLING PUMP (1MB406)	N3	MZ406Q	MZ406Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A228	1PUMPC13	13 COMPONENT COOLING PUMP (1MB116)	N4	MZ416Q	MZ416Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A201	2PUMPC12	21 COMPONENT COOLING PUMP (2MB106)	N5	MZT06Q	MZT06Q	12
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A201	2PUMPC23	23 COMPONENT COOLING PUMP (2MB116)	N6	MZT16Q	MZT16Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A201	2PUMPC22	22 COMPONENT COOLING PUMP (2MB406)	N7	MZT26Q	MZT26Q	12
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A201	2PUMPC23	23 COMPONENT COOLING PUMP (2MB116)	N8	MZT36Q	MZT36Q	12
A228	1ACC5170	AIR ACCUMULATOR FOR 1CV5170	NR	ILIA99	TK170B	0
A228	1ACC5171	AIR ACCUMULATOR FOR 1CV5171	NR	ILIA99	TK171B	0
A228	1ACC5174	AIR ACCUMULATOR FOR 1CV5174	NR	ILIA99	TK174B	0
A228	1ACC5175	AIR ACCUMULATOR FOR 1CV5175	NR	ILIA99	TK175B	0
A228	1ACC5177	AIR ACCUMULATOR FOR 1CV5177	NR	ILIA99	TK177B	0
A228	1ACC5178	AIR ACCUMULATOR FOR 1CV5178	NR	ILIA99	TK178B	0
A228	1ACC5173	AIR ACCUMULATOR FOR 1CV5173	NR	INIA99	TK173B	0
A224	1ACC1645	AIR ACCUMULATOR FOR 1CV1645	NR	IPIA99	TK645B	0
A224	1ACC1646	AIR ACCUMULATOR FOR 1CV1646	NR	IPIA99	TK646B	0
A228	1ACC4070	11 S/G AFW STM VLV ACCUM	NR	NRIA99	TK070B	144
A226	1ACC4071	12 S/G STM VLV ACCUM	NR	NRIA99	TK071B	144
A205	2CV1637	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2CV1600	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2ACC4070	IA ACCUMULATOR	NS	NSIA99	TKS70B	144
A205	2ACC4071	IA ACCUMULATOR	NS	NSIA99	TKS71B	144
A205	2CV1638	TB SRW HDR ISOL	NS	NSSRW	N/A	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2CV1637	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2CV1600	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A226	1CV4522	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1CV4523	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	144
A226	1CV4532	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1CV4533	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	144
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	RH	BHERH1	Start	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	RH	BHERH1	Start	12
A226	1CV5150	11 SRW HX SW INLET	S3	C1150P	C1150P	60
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A228	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERter VALVE	S3	C2148O	C2148O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11R	MWS11R	32
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11S	MWS11S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13S	MWS13S	32
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1CV5210	11 SRW HX SW OUTLET CV	S3	S3H1BV	C2210P	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1P/P5157	12A/12B SRW HX SW OUT I/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	C2212O	C2212O	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12R	MWS12R	32
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12S	MWS12S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13S	MWS13S	32
A226	1CV5152	12 SRW HX SW INLET	S4	S4CV52	C1152P	60
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	S4H2BV	C2212P	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A208	1CV2181	U-1 CONTMT WG HDR B/U ISOL	SH	IC181C	IC181C	12
A208	1SV2181	1-WGS-2181-CV SV	SH	IC181C	IC181C	12
A208	1CV2181	U-1 CONTMT WG HDR B/U ISOL	SH	IC181T	IC181T	12
A208	1SV2181	1-WGS-2181-CV SV	SH	IC181T	IC181T	12
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SHSV03	SV07BT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SHSV05	SV07CT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SHSV08	SV07DT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SV07BD	SV07BD	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SV07CD	SV07CD	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SV07DD	SV07DD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GD	SV07GD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GT	SV07GT	0
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	SP(PP1)	BHEK12	Start	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	SP(PP2)	BHEK12	Start	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	SP(PP3)	BHEK12	Start	12
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144C	MV144C	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144T	MV144T	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145C	MV145C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145T	MV145T	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462C	MV462C	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462T	MV462T	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463C	MV463C	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463T	MV463T	0
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615C	MV615C	19
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615T	MV615T	19
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625C	MV625C	0
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625T	MV625T	0
A226	1CV1637	TURB BLDG SRW HDR 11 ISOL	TA	TAFB01	C3637P	144
A226	1SV1637	TURB LUBE&EHC OIL SERVWTR ISOL	TA	TAFB01	C3637P	0
A226	1CV1639	TURB BLDG SRW HDR 11 ISOL	TA	TAFB01	C3639P	144

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1CV1600	TURB BLDG SRW HDR 12 ISOL	TB	TBFB01	C3600P	72
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1CV1638	TURB BLDG SRW HDR 12 ISOL	TB	TBFB01	C3638P	72
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	MV144O	MV144O	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	TE0101	MV144P	0
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RR	AW11RR	30
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RS	AW11RS	30
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	TF11TP	VT986P	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	TF11TP	VT986P	0
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	VT986O	VT986O	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	VT986O	VT986O	0
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RR	AW12RR	30
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RS	AW12RS	30
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	TG	BHEF1Y	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	TG	BHEF1Y	Open	0
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	TGTP12	VT988P	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	TGTP12	VT988P	0
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	VT988O	VT988O	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	VT988O	VT988O	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	TH(HD1)	BHER3B	Open	13
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	TH(HD1)	BHER3B	Open	0
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	TH(HD1)	BHER3B	Open	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A228	1CV5206	11 CC HX SW OUTLET	TH(HD1)	BHER3B	Throttle	0
A226	1CV5210	11 SRW HX SW OUTLET CV	TH(HD1)	BHER3B	Throttle	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	TH(HD2)	BHER3B	Open	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	TH(HD2)	BHER3B	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	TH(HD2)	BHER3B	Open	0
A228	1CV5208	12 CC HX SW NORM OUT	TH(HD2)	BHER3B	Throttle	0
A226	1CV5212	12 SRW HX SW OUT CV	TH(HD2)	BHER3B	Throttle	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	MV145O	MV145O	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	TW0101	MV145P	0
A224	1PS4404	11 MT CONDENSER LOW VACUUM PS	TX	PS404D	PS404D	0
A224	1PS4405	11 MT CONDENSER LOW VACUUM PS	TX	PS405D	PS405D	0
A224	1PS4407	12 MT CONDENSER LOW VACUUM PS	TX	PS407D	PS407D	0
A224	1PS4408	12 MT CONDENSER LOW VACUUM PS	TX	PS408D	PS408D	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A224	1PS4410	13 MT CONDENSER LOW VACUUM PS	TX	PS410D	PS410D	0
A224	1PS4411	13 MT CONDENSER LOW VACUUM PS	TX	PS411D	PS411D	0
A228	1CV4525	11 S/G AFW FLOW CONT VLV	UQ	BHEUQ1	Throttle	144
A226	1CV4535	12 S/G AFW FLOW CONT VLV	UQ	BHEUQ1	Throttle	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	TS404D	TS404D	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	V1	V1CLSE	WC170P	13
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	V1	V1CLSE	WC170P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC170P	0
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	V1	V1CLSE	WC171P	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1TEMP	TS404R	0
A119	1HXHVACECS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205B	0
A119	1HXHVACECS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205P	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AR	VD11AR	22
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AS	VD11AS	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BR	VD11BR	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BS	VD11BS	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CR	VD11CR	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CS	VD11CS	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DR	VD11DR	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DS	VD11DS	22
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	V1	WC170D	WC170D	13
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	V1	WC170D	WC170D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170D	WC170D	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	V1	WC1700	WC1700	13
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	V1	WC1700	WC1700	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC1700	WC1700	0
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	V1	WC171D	WC171D	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	V1	WC171D	WC171D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171D	WC171D	0
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	V1	WC1710	WC1710	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	V1	WC1710	WC1710	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC1710	WC1710	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	TS405D	TS405D	0
A228	1CV5174	12 ECCS PP RM AIR CLR SW NORM OUTLET	V2	V2CLSE	WC174P	0
A228	1SV5174	ECCS PP RM HTEX 12 SLT WTR OUT	V2	V2CLSE	WC174P	0
A228	1CV5175	12 ECCS PP RM AIR CLR SW NORM B/U OUT	V2	V2CLSE	WC175P	0
A228	1SV5175	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2CLSE	WC175P	0
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	V2	V2INLT	WC173P	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	V2	V2INLT	WC173P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2INLT	WC173P	0
A228	1CV5177	12 ECCS PP RM AIR CLR SW AUX OUTLET	V2	V2OTLT	C4177O	0
A228	1SV5177	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4177O	0
A228	1CV5177	12 ECCS PP RM AIR CLR SW AUX OUTLET	V2	V2OTLT	C4177P	0
A228	1SV5177	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4177P	0
A228	1CV5178	12 ECCS PP RM AIR CLR SW AUX B/U OUT	V2	V2OTLT	C4178O	0
A228	1SV5178	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4178O	0
A228	1CV5178	12 ECCS PP RM AIR CLR SW AUX B/U OUT	V2	V2OTLT	C4178P	0
A228	1SV5178	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4178P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2TEMP	TS405R	0
A118	1HXHVACECS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207B	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AR	VD12AR	22
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AS	VD12AS	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BR	VD12BR	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BS	VD12BS	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CR	VD12CR	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CS	VD12CS	22
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	V2	WC173D	WC173D	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	V2	WC173D	WC173D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173D	WC173D	0
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	V2	WC173O	WC173O	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	V2	WC173O	WC173O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173O	WC173O	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11R	VDF11R	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11S	VDF11S	0
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12R	VDF12R	0
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12S	VDF12S	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	VM(RM1)	BHEV1T	Open	13
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	VM(RM1)	BHEV1T	Open	0
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	VM(RM1)	BHEV1T	Open	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	VM(RM1)	BHEV1T	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	VM(RM1)	BHEV1T	Start	22
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	VM(RM2)	BHEV1T	Open	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	VM(RM2)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM2)	BHEV1T	Open	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	VM(RM2)	BHEV1T	Start	22
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	WJ	BHESH2	Shut	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	WJ	BHESH2	Shut	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	CV584O	CV584O	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	CV584O	CV584O	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	CV584O	CV584O	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	CV592O	CV592O	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	CV592O	CV592O	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	CV592O	CV592O	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	WB102F	CV584P	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	WB102F	CV584P	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	WB102F	CV584P	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	WD102F	CV592P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	WD102F	CV592P	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	WD102F	CV592P	0

# Flood Evaluation Query

CF-30D-N205LN

04-Dec-98

TOP	PM	EVALUATION	RI
AA	1BKR	1 breaker challenge.	PAJ
AC	1BKR	1 breaker challenge.	PAJ
AD	3BKR	3 breaker challenges.	PAJ
CS	None	1CV3828 fails open on loss of power and loss of air. 1MOV663 is normally closed and fails as-is.	PAJ
CT	None	1CV3830 fails open on loss of power and loss of air. 1MOV662 is normally closed and fails as-is.	PAJ
CV	None F	<del>Conservatively set to failure. CVCS relatively unimportant.</del> (Note 13)	PAJ
F1	None	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX.	PAJ
F7	None F	<del>Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.</del> (Note 19)	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 2 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
FO	None F	<del>Use FO SF where M3 and M4 fail. 21A SWAC fails and 22A SWAC fails. The Unit 1 Plant Model does not credit anything other than the use of the SWACs. As a result, this function should be considered failed.</del> (Note 43)	PAJ
GW	F	22 and 23 SRW Pump fail.	PAJ
GZ	F	21 and 23 SRW Pump fail.	PAJ
HA	None	1MOV656 is normally locked open and fails as-is.	PAJ
HB	None	1MOV654 is normally locked open and fails as-is.	PAJ

See notes in RAN 98-065 sect. 5.4 Jan

TOP	PM	EVALUATION	RI
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	None Spec Impt	(Note 21) 1MOV654/655/656 are normally locked open and fail as-is. 1MOV653 is normally locked shut. Therefore, HPSI 12 main header will be available, but the cross connect 1MOV653 (auxiliary header) will be unavailable.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
K3	None	1CV5210 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
K4	None	1CV5212 fails open on loss of power and loss of air. During a RAS, this valve needs to open for recirculation. It is assumed (Per Rob) that this top event will not fail during smaller LOCA size breaks.	PAJ
M1	6BKR	6 breaker challenges.	PAJ
M2	9BKR	9 breaker challenges.	PAJ
M3	12BKR	12 breaker challenges.	PAJ
<del>M4</del>	<del>9BKR</del>	<del>9 breaker challenges.</del>	<del>PAJ</del>
MN	None	Has 6 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
MV	None	1MOV659/660 fail as-is and are normally electrically locked open, there will be no flood impact.	PAJ
N1	1BKR	1 breaker challenge.	PAJ
N2	1BKR	1 breaker challenge.	PAJ
N3	None	13 Charging Pump is normally aligned to 480V Bus 11A (Top N1). See Key Assumption 393.	PAJ
N4	1BKR	1 breaker challenge.	PAJ
N5	None	23 Charging Pump is normally aligned to 480V Bus 24A (Top N7). See Key Assumption 393.	PAJ
N6	1BKR	1 breaker challenge.	PAJ

TOP	PM	EVALUATION	RI
N7	1BKR	1 breaker challenge.	PAJ
N8	1BKR	1 breaker challenge.	PAJ
NR(TC)	<del>Spec Impt</del> None	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 1. (Note 35)	PAJ
NS	Spec Impt	2CV1600/1637/1638/1639 fail close on loss of power, the undesirable position. Unable to use Unit 2 compressors for Unit 2.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
S3	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5148 (FO), 1CV5148A (FC), 1CV5151 (FO), 1CV5151A (FC) and 1CV5209 (FO).	PAJ
S4	None	All valves fail to their appropriate positions on loss of power and loss of air. 1CV5158 (FO), 1CV5158A (FC), 1CV5159 (FO), 1CV5159A (FC), 1CV5211 (FO), 1CV5153 (FO) and 1CV5157 (FC).	PAJ
SG	<del>Spec Impt</del> None	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment. (Note 5)	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
SR	<del>None</del> Spec Impt	All MOVs (1MOV4144/4145/5462/5463) are closed and fail close. (Note 10)	PAJ
TA	<del>F</del> None	<del>1CV1637/1639 fail close on loss of power / loss of air.</del> (Note 36)	PAJ
TB	<del>F</del> None	<del>1CV1600/1638 fail close on loss of power / loss of air.</del> (Note 36)	PAJ
TE	<del>F</del> None	<del>1MOV4144 is normally in the closed position and will fail as-is. Therefore, the East Recirculation Header will not function properly.</del> (Note 36)	PAJ
TH(HD1)	None	1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3.	PAJ
TH(HD2)	None	1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4.	PAJ
TW	<del>F</del> None	<del>1MOV4145 is normally in the closed position and will fail as-is. Therefore, the West Recirculation Header will not function properly.</del> (Note 36)	PAJ

TOP	PM	EVALUATION	RI
UQ	None	ICV4525/4535 are normally open and fail as-is on loss of power. This top only fails when an under feed to the SG occurs.	PAJ
V1	None <del>F</del>	<del>A flood can potentially blow the fuse (via ITS5404) in the 11 ECCS pump room cooling fans circuit. Thus not allowing the fans to cool the room.</del> (Note 36)	PAJ
V2	None <del>F</del>	<del>A flood can potentially blow the fuse (via ITS5405) in the 12 ECCS pump room cooling fans circuit. Thus not allowing the fans to cool the room.</del> (Note 36)	PAJ
VC	None	Has 6 PCVs. I am assuming that these will not fail during a flood.	PAJ
VM(RM1)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V1.	PAJ
VM(RM2)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V2.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	AC	MWSR5Q	MWSR5Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AC	MWSR7Q	MWSR7Q	32
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	AD	MWSR6Q	MWSR6Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AD	MWSR8Q	MWSR8Q	32
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11B	0
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11P	0
A119	1MOV663	SDC RECIRC TO 11 HPSI PP	CS	CS0103	MV663T	0
A119	1CV3828	11 SDC HX OUTLET	CS	CSHX11	CV828P	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CSHX11	CV828P	0
A119	1CV3828	11 SDC HX OUTLET	CS	CV828O	CV828O	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CV828O	CV828O	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12B	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12P	0
A118	1MOV662	SDC RECIRC TO 13 HPSI PP	CT	CT0103	MV662T	0
A118	1CV3830	12 SDC HX OUTLET	CT	CTXH12	CV830P	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CTXH12	CV830P	0
A118	1CV3830	12 SDC HX OUTLET	CT	CV830O	CV830O	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CV830O	CV830O	0
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	CVB22C	CVB22C	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	CVB23C	CVB23C	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	CVB32C	CVB32C	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	CVB33C	CVB33C	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B500	144
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B500	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50P	144
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB22T	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB23T	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB32T	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB33T	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A205	2COMP5WAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21R	144
A205	2COMP5WAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21S	144
A205	2COMP5WAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22R	144
A205	2COMP5WAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22S	144
A205	2LS5200	21 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS200R	144
A205	2LS5201	22 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS201R	144
A205	2TS5200	21 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS200R	144
A205	2TS5201	22 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS201R	144
A205	2CV5212	22 SRW HX SW OUT CV	GW	C2S120	C2S120	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S120	C2S120	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S120	C2S120	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S120	C2S120	0
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22R	MWT22R	32
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22S	MWT22S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23S	MWT23S	32
A205	2CV5152	22 SRW HX SW INLET	GW	S8CV52	C1S52P	60
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2CV5212	22 SRW HX SW OUT CV	GW	S8H2CV	C2S12P	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2HXS22	22 SRW HX	GW	S8HX22	HXS22B	144
A205	2HXS22	22 SRW HX	GW	S8HX22	HXS22P	144
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21R	MWT21R	32
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21S	MWT21S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23R	MWT23R	32

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23S	MWT23S	32
A205	2CV5150	21 SRW HX SW INLET	GZ	S7H2CV	C1S50P	60
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2CV5210	21 SRW HX SW OUTLET CV	GZ	S7H2CV	C2S10P	60
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2HXSRW21	21 SRW HX	GZ	S7HX21	HXS21B	144
A205	2HXSRW21	21 SRW HX	GZ	S7HX21	HXS21P	144
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AP	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BP	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AB	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AP	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BB	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BP	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1B	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1P	0
A119	1MOV656	AUX HPSI HDR ISOL	HA	HADISA	MV656P	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AP	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BP	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AB	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AP	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BB	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BP	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3B	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3P	0
A118	1MOV654	HPSI HDR ISOL	HB	MV654P	MV654P	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A119	1MOV656	AUX HPSI HDR ISOL	HW	HADISA	MV656P	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AP	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BP	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AB	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AP	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BB	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BP	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2B	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2P	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653O	MV653O	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653P	MV653P	0
A118	1MOV654	HPSI HDR ISOL	HW	MV654P	MV654P	0
A119	1MOV655	HPSI HDR X-CONN	HW	MV655P	MV655P	0
A226	1/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/PS210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/PS212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/PS212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A118	1MOV654	HPSI HDR ISOL	M1	MVM21Q	MVM21Q	0
A118	1MOV653	HPSI HDR X-CONN	M1	MVM22Q	MVM22Q	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	M1	MVM30Q	MVM30Q	0
A118	1MOV660	MINI FLOW RETN TO RWT	M1	MVM32Q	MVM32Q	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	M1	MVM44Q	MVM44Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A111	0PUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A119	1MOV656	AUX HPSI HDR ISOL	M2	MVN21Q	MVN21Q	0
A119	1MOV655	HPSI HDR X-CONN	M2	MVN22Q	MVN22Q	0
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A118	1MOV659	MINI FLOW RETN TO RWT	M2	MVN32Q	MVN32Q	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	M2	MVN44Q	MVN44Q	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	M2	MVN57Q	MVN57Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A205	2COMPSWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	M3	M3FSWC	CMO5AQ	144
A205	2COMPSWAC22B	22 SW AIR COMPRESSOR MOTOR B (2M0405B)	M3	M3FSWC	CMO5BQ	144
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A102	2MOV654	HPSI HDR ISOL	M3	MVO21Q	MVO21Q	0
A102	2MOV653	HPSI HDR X-CONN	M3	MVO22Q	MVO22Q	0
A120	2MOV5463	U-2 CONTMT RECIRC PIPE TUNNEL	M3	MVO30Q	MVO30Q	0
A102	2MOV660	MINI FLOW RETN TO RWT	M3	MVO32Q	MVO32Q	0
A120	2MOV4145	CONTMT SUMP OUTLET ISOL	M3	MVO44Q	MVO44Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A204	2FANHVACPENETE2	22 PENET RM EXH FAN (2M1402)	M3	VDO02Q	VDO02Q	18.75
A204	2FANHVACAFWE22	22 AFW PUMP RM EXH (2M0412)	M3	VDO12Q	VDO12Q	36
A204	2FANHVACECCSE22	22 ECCS PUMP RM EXH (2M0413)	M3	VDO13Q	VDO13Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A205	2COMPSWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	M4	M4FCRC	CMO5AQ	144
A205	2COMPSWAC21B	21 SW AIR COMPRESSOR MOTOR B (2M1405B)	M4	M4FCRC	CMO5BQ	144
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A102	2MOV659	MINI FLOW RETN TO RWT	M4	MVN32Q	MVN32Q	0
A120	2MOV4144	CONTMT SUMP OUTLET ISOL	M4	MVN44Q	MVN44Q	0
A120	2MOV5462	U-2 CONTMT RECIRC PIPE TUNNEL	M4	MVN57Q	MVN57Q	0
A204	2FANHVACPENETE2	21 PENET RM EXH FAN (2M0402)	M4	VDN02Q	VDN02Q	18.75
A204	2FANHVACAFWE21	21 AFW PUMP RM EXH (2M1412)	M4	VDN12Q	VDN12Q	36
A204	2FANHVACECCSE21	21 ECCS PUMP RM EXH (2M1413)	M4	VDN13Q	VDN13Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659P	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MV0A11	MV659X	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660P	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MV0A11	MV660X	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A105B	2PUMPCVCCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A205	2CV1637	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0
A205	2CV1600	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
A205	2ACC4070	IA ACCUMULATOR	NS	NSIA99	TKS70B	144
A205	2ACC4071	IA ACCUMULATOR	NS	NSIA99	TKS71B	144
A205	2CV1638	TB SRW HDR ISOL	NS	NSSRW	N/A	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
A205	2CV1637	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2CV1600	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	S3H1BV	C2151P	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1I/P5157	12A/12B SRW HX SW OUT I/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C2212O	C2212O	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C2212O	C2212O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2212O	C2212O	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C2212O	C2212O	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C2212O	C2212O	0
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PH	S4	S4H12A	HW708P	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSRW12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PH	S4	S4H12B	HW710P	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSRW12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144C	MV144C	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144T	MV144T	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145C	MV145C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145T	MV145T	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462C	MV462C	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462T	MV462T	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463C	MV463C	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463T	MV463T	0
A226	1SV1637	TURB LUBE&EHC OIL SERWTR ISOL	TA	TAFB01	C3637P	0
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	MV144O	MV144O	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	TE0101	MV144P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	TH(HD2)	BHER3B	Open	0
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	MV145O	MV145O	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	TW0101	MV145P	0
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	TS404D	TS404D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC170P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1TEMP	TS404R	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205B	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170D	WC170D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170O	WC170O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171D	WC171D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171O	WC171O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	TS405D	TS405D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2INLT	WC173P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2TEMP	TS405R	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207B	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173D	WC173D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173O	WC173O	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM2)	BHEV1T	Open	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0



# Flood Evaluation Query

CF-31A-ST12AR \*

02-Dec-98

TOP	PM	EVALUATION	RI
AE	4BKR	4 breaker challenges.	PAJ
AF	4BKR	4 breaker challenges.	PAJ
BS	Spec Impt	All TBVs fail closed on loss of power. An excessive steam demand will not occur.	PAJ
BV	F	All TBVs fail closed on loss of power.	PAJ
FC	Spec Impt	1MCC101BT fails. This MCC supplies power to AFW Turb PP Rm NSR A/C Unit.	PAJ
FN	None	Only has 1 PCV. I am assuming that these valves will not fail during a flood.	PAJ
FT	None	Stop valves fail closed. If SGFPs are secured, which they are (See Top MT), this top is successful.	PAJ
GW	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
GZ	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
IP	None	Air accumulator only. Mechanical operation only.	PAJ
K5	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
LF	F	1CV1105/1106/4405/4406 fail closed on loss of power and loss of air.	PAJ
M7	F	MCC 106T fails.	PAJ
M8	F	MCC 116T fails.	PAJ
MC	F	All condensate pumps fail.	PAJ
MN	F	Both SGFPs trip.	PAJ
MP	F	1CV1111/1121 are normally open and fail as-is.	PAJ
MT	None	SGFP trip in this scenario. See top MN.	PAJ

\* This flood is re-designated ST12AM. See RAN 94-001 CF 31 Rev 1  
*Jan*

TOP	PM	EVALUATION	RI
N1	1BKR	1 breaker challenge.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	1BKR	1 breaker challenge.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N8	3BKR	3 breaker challenges.	PAJ
NR	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail.	PAJ
NS	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail.	PAJ
QC	None -4BKR	-4 breaker challenges. (note 39)*	PAJ
QF	None -4BKR	-4 breaker challenges. (note 39)*	PAJ
RL	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
S3	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
S4	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
T1	None	1CV4406 and 2CV4406 fails closed.	PAJ
TT	None	Control and Stop valves fail closed.	PAJ
VC	F	All Condenser Vacuum Pumps Fail.	PAJ

\* See notes in RAN 98-065, SECT 5.4.

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	AE	MYCB1Q	MYCB1Q	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	AE	MYCB2Q	MYCB2Q	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	AE	MYCP1Q	MYCP1Q	0
1TB12-2	1PUMPHDV11	11 FW HEATER DRAIN PUMP (1MA206)	AE	MYHD1Q	MYHD1Q	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	AF	MYCB3Q	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	AF	MYCP2Q	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	AF	MYCP3Q	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	AF	MYHD2Q	MYHD2Q	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400O	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940T	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BS	BS3940	IV940T	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3940	IZ940R	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940I	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940R	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420O	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942T	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BS	BS3942	IV942T	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3942	IZ942R	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942I	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942R	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440O	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944T	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BS	BS3944	IV944T	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3944	IZ944R	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944I	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944R	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460O	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946T	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BS	BS3946	IV946T	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3946	IZ946R	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX946I	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX960R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1PT4056	MS TURB BYPASS VLV CONTROL PT	BS	BS4056	PT056R	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS940C	AB40BC	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40AD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40BD	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS942C	AB42BC	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	IV42AD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	IV42BD	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS944C	AB44BC	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	IV44AD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	IV44BD	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS946C	AB46BC	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	IV46AD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	IV46BD	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	C5940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	C5942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	C5944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	C5946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BV	BV3940	AB40BO	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	BV3940	C5940P	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3940	C5940P	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BV3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AD	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AT	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BT	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BV	BV3942	AB42BO	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	BV3942	C5942P	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3942	C5942P	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BV3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AD	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AT	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BT	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BV	BV3944	AB44BO	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	BV3944	C5944P	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3944	C5944P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BV3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AD	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AT	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BT	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BV	BV3946	AB46BO	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BV	BV3946	C5946P	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3946	C5946P	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BV3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AD	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AT	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BT	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BVCLVR	IV940T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BVCLVR	IV942T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BVCLVR	IV944T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BVCLVR	IV946T	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	C5940O	C5940O	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C5940O	C5940O	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	C5940O	C5940O	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	C5942O	C5942O	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C5942O	C5942O	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	C5942O	C5942O	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	C5944O	C5944O	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C5944O	C5944O	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	C5944O	C5944O	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BV	C5946O	C5946O	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C5946O	C5946O	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	C5946O	C5946O	0
1TB12-1	1AFWDOORS	AFW DOUBLE DOORS	FC	Dummy	N/A	0
1TB27-1	1MCC101BT	MCC 101BT	FC	FC1MCC	BU1BTR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	FC	FC1MCC	CB141T	0
1TB12	1PCV1600	AUX FD PP RM CLR TEMP REG VLV	FC	FCSRWC	CV600P	0
1TB12-1	1FDTB12W1	AFW RM SUPPLY FROM AFW TO TB12 FD	FC	FDAMPR	FD002I	0
1TB12	1PCV4510	11A AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV510P	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	FT	FTFW30	SV010D	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	FT	FTFW40	SV059D	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCO	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCT	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HSO	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HST	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCT	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LSO	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LST	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCT	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HSO	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HST	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCT	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LSO	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LST	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GW	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GW	S7TBAL	ATI22R	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	GW	S7TBAL	ATP21R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI22R	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	GZ	S7TBAL	ATP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	IP	IPIA99	TK11B	0
1TB27-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	K5	K5FIRE	K5FHSF	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106P	C3106P	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1CV4405	HOTWELL TO COND STORAGE VLV	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1I/P4405	HOTWELL TO COND STORAGE CONT	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	LF	LFMUCV	LT405R	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BP	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	LF	RY83AT	RY83AT	0
1TB27-1	1MCC106T	MCC 106T	M7	BU213Q	BU213Q	0
1TB27-1	1MCC106T	MCC 106T	M7	BUM06R	BUM06R	0
1TB12-2 (CP)	1PNL1C51	11A AMERTAP CNTL PNL 1C51	M7	BUP23Q	BUP23Q	0
1TB12-2 (CP)	1PNL1C52	11B AMERTAP CNTL PNL 1C52	M7	BUP24Q	BUP24Q	0
1TB12-2 (CP)	1PNL1C53	12A AMERTAP CNTL PNL 1C53	M7	BUP25Q	BUP25Q	0
1TB27-1	1BKR52-10602	MCC 106T CIRC H2O PP DISCH 1MOV-5225 BKR	M7	CBP02O	CBP02O	0
1TB27-1	1BKR52-10603	MCC 106T CIRC H2O PP 12 DISCH 1MOV-5229 BKR	M7	CBP03O	CBP03O	0
1TB27-1	1BKR52-10604	MCC 106T CIRC H2O PP 13 DISCH 1MOV-5233 BKR	M7	CBP04O	CBP04O	0
1TB27-1	1BKR52-10605	MCC 106T WELDING RECEPTACLES 1W40-1W43	M7	CBP05O	CBP05O	0
1TB27-1	1BKR52-10606	MCC 106T WELDING RECEPTACLES 1W44-1W47	M7	CBP06O	CBP06O	0
1TB27-1	1BKR52-10607	MCC 106T COND PP 11 LUBE OIL PP BKR	M7	CBP07O	CBP07O	0
1TB27-1	1BKR52-10608	MCC 106T CIRC WTR PRIMING PP 11 BKR	M7	CBP08O	CBP08O	0
1TB27-1	1BKR52-10609	MCC 106T CIRC WTR PRIMING PP 12 BKR	M7	CBP09O	CBP09O	0
1TB27-1	1BKR52-10610	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 11 BKR	M7	CBP10O	CBP10O	0
1TB27-1	1BKR52-10611	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 12 BKR	M7	CBP11O	CBP11O	0
1TB27-1	1BKR52-10612	MCC 106T SGFP 11 LUBE OIL CONDITIONER BKR	M7	CBP12O	CBP12O	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	M7	CBP13O	CBP13O	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	M7	CBP14O	CBP14O	0
1TB27-1	1BKR52-10615	SGFP 11 OIL VAPOR EXTRACTOR	M7	CBP15O	CBP15O	0
1TB27-1	1BKR52-10616	MCC 106T BEARING OIL VAPOR EXTR 11 BKR	M7	CBP16O	CBP16O	0
1TB27-1	1BKR52-10617	MCC 106T STM LEAD DRN 1MOV-4652(CV2) BKR	M7	CBP17O	CBP17O	0
1TB27-1	1BKR52-10618	MCC 106T STM LEAD DRN 1MOV-4651(CV4) BKR	M7	CBP18O	CBP18O	0
1TB27-1	1BKR52-10619	MCC 106T HYDRAULIC FLUID FILT PP 11 BKR	M7	CBP19O	CBP19O	0
1TB27-1	1BKR52-10620	MCC 106T MN OIL SEAL PP 11 (MN GEN)	M7	CBP20O	CBP20O	0
1TB27-1	1BKR52-10621	MCC 106T SEAL OIL RECIRC PP 11 BKR	M7	CBP21O	CBP21O	0
1TB27-1	1BKR52-10622	MCC 106T SEAL VACUUM PP 11 BKR	M7	CBP22O	CBP22O	0
1TB27-1	1BKR52-10623	MCC 106T 11A AMERTAP CONTR PNL 1C51 BKR	M7	CBP23O	CBP23O	0
1TB27-1	1BKR52-10624	MCC 106T 11B AMERTAP CONTR PNL 1C52	M7	CBP24O	CBP24O	0
1TB27-1	1BKR52-10625	MCC 106T 12A AMERTAP CONTR PNL 1C53 BKR	M7	CBP25O	CBP25O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-10626	MCC 106T UNIT HTR 9 BKR	M7	CBP26O	CBP26O	0
1TB27-1	1BKR52-10627	MCC 106T UNIT HTR 10 BKR	M7	CBP27O	CBP27O	0
1TB27-1	1BKR52-10628	MCC 106T SGFP 11 LP STOP VLV DRN B 1MOV-5090 BKR	M7	CBP28O	CBP28O	0
1TB27-1	1BKR52-10629	MCC 106T COMBINED CNTMT DRN 1MOV-4658(CV) BKR	M7	CBP29O	CBP29O	0
1TB27-1	1BKR52-10630	GLAND SEAL STEAM SUPPLY VALVE 1-MOV-4659	M7	CBP30O	CBP30O	0
1TB27-1	1BKR52-10631	MCC 106T STM SEAL BY-PASS 1MOV-4656(S2) BKR	M7	CBP31O	CBP31O	0
1TB27-1	1BKR52-10632	MCC 106T STM SEAL UNLOADING 1MOV-4657(B) BKR	M7	CBP32O	CBP32O	0
1TB27-1	1BKR52-10633	MCC 106T STM PACK EXH 11 BKR	M7	CBP33O	CBP33O	0
1TB27-1	1BKR52-10635	MCC 106T AUX BOILER FUEL PP 11 BKR	M7	CBP35O	CBP35O	0
1TB27-1	1BKR52-10636	MCC 106T COND VACUUM RECIRC SEAL PP 11 BKR	M7	CBP36O	CBP36O	0
1TB27-1	1BKR52-10637	MCC 106T COND VACUUM RECIRC SEAL PP 12 BKR	M7	CBP37O	CBP37O	0
1TB27-1	1BKR52-10638	SGFP 11 LP STOP VLV DRN 1-MOV-5089	M7	CBP38O	CBP38O	0
1TB27-1	1BKR52-10639	LIGHTING XFMR (1L11/1L17) L-208-218	M7	CBP39O	CBP39O	0
1TB27-1	1BKR52-10640	MCC 106T SGFP 11 EXH 1MOV-3964 BKR	M7	CBP40O	CBP40O	0
1TB27-1	1BKR52-10642	MCC 106T UNIT HTR 11 BKR	M7	CBP42O	CBP42O	0
1TB27-1	1BKR52-10643	MCC 106T UNIT HTR 12 BKR	M7	CBP43O	CBP43O	0
1TB27-1	1BKR52-10644	MCC 106T SGFP 11 HP STOP VLV DRN B 1MOV-5088 BKR	M7	CBP44O	CBP44O	0
1TB27-1	1BKR52-10645	ROADWAY LIGHTING PANEL 1L54	M7	CBP45O	CBP45O	0
1TB27-1	1BKR52-10646	MCC 106T SGFP 11 HP STOP VLV DRN A 1MOV-5087 BKR	M7	CBP46O	CBP46O	0
1TB27-1	1BKR52-10647	DISTRIBUTION XFMR 16 480-208/120V	M7	CBP47O	CBP47O	0
1TB27-1	1BKR52-10648	MCC 106T UNIT HTR 13 BKR	M7	CBP48O	CBP48O	0
1TB27-1	1BKR52-10649	MCC 106T SGFP 11 1ST STG DRN 1MOV-5091 BKR	M7	CBP49O	CBP49O	0
1TB27-1	1BKR52-10651	MCC 106T RHT STM SUPP 1MOV-4026 BKR	M7	CBP51O	CBP51O	0
1TB27-1	1BKR52-10652	MCC 106T MS TO MS RHTR 11 1MOV-4018 BKR	M7	CBP52O	CBP52O	0
1TB27-1	1BKR52-10653	MCC 106T EXTRACT STM TO MS RHTR 11 1MOV-4019 BKR	M7	CBP53O	CBP53O	0
1TB27-1	1BKR52-10654	SMOKE REMOVAL DAMPER 0M05390 (CLOSED	M7	CBP54O	CBP54O	0
1TB27-1	1BKR52-10656	CR & CBL SPREADING RM CHILL WTR SUPP PP 11	M7	CBP56O	CBP56O	0
1TB27-1	1BKR52-10657	MCC 106T TURB BLDG SUPP FAN 13 BKR	M7	CBP57O	CBP57O	0
1TB27-1	1BKR52-10658	MCC 106T TURB BLDG SUPP FAN 14 BKR	M7	CBP58O	CBP58O	0
1TB27-1	1BKR52-10659	MCC 106T COND PP 11 FAN BKR	M7	CBP59O	CBP59O	0
1TB27-1	1BKR52-10661	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP61O	CBP61O	0
1TB27-1	1BKR52-10662	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP62O	CBP62O	0
1TB27-1	1BKR52-10663	MCC 106T BOOSTER JOCKEY PP FIRE PROT SYS BKR	M7	CBP63O	CBP63O	0
1TB27-1	1BKR52-10667	MCC 106T TURB AREA OILY SUMP 11 PP 11 BKR	M7	CBP67O	CBP67O	0
1TB27-1	1BKR52-10668	MCC 106T TURB AREA OILY SUMP 11 PP 12 BKR	M7	CBP68O	CBP68O	0
1TB27-1	1BKR52-10669	MCC 106T SMOKE REMOVAL DMPR 0M05391 BKR	M7	CBP69O	CBP69O	0
1TB27-1	1BKR52-10670	MCC 106T SMOKE REMOVAL DMPR 0M05392 BKR	M7	CBP70O	CBP70O	0
1TB27-1	1BKR52-10671	MCC 106T AUX BD TK PP 11 BKR	M7	CBP71O	CBP71O	0
1TB27-1	1BKR52-10672	MCC 106T SPARE BKR	M7	CBP72O	CBP72O	0
1TB27-1	1BKR52-10673	SERV XFMR (P-13000-1) COOLING B (EMERGENCY)	M7	CBP73O	CBP73O	0
1TB27-1	1BKR52-10674	SERV XFMR (U-4000-11) COOLING A (NORMAL)	M7	CBP74O	CBP74O	0
1TB27-1	1BKR52-10675	SERV XFMR (U-4000-21) COOLING A (NORMAL)	M7	CBP75O	CBP75O	0
1TB27-1	1BKR52-10676	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11A BKR	M7	CBP76O	CBP76O	0
1TB27-1	1BKR52-10677	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11B BKR	M7	CBP77O	CBP77O	0
1TB27-1	1BKR52-10678	MCC 106T HTR DRN PP 11 LUBE OIL COOLER FAN BKR	M7	CBP78O	CBP78O	0
1TB27-1	1BKR52-10601	MAIN FEEDER BREAKER	M7	M7BCBM	CBP01T	0
1TB12-3	1PUMPSTC11	11 MG STATOR WTR CLG PUMP (1MB216)	M7	MB215Q	MB215Q	0
1TB12-4	1PUMPEHC11	11 MT EHC HYD UNIT PUMP (1MB216)	M7	MB216Q	MB216Q	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	M7	MB217Q	MB217Q	0
2TB27-8	0PUMPPHM11	11 MAIN HTG HWC PUMP (1MB225)	M7	MB225Q	MB225Q	0
1TB12-3	1PUMPWBP11	11 CW WTRBX PRMG PP (1M0608)	M7	MBP08Q	MBP08Q	0
1TB12-3	1PUMPWBP12	12 CW WTRBX PRMG PP (1M0609)	M7	MBP09Q	MBP09Q	0
1TB12-3	1PUMPWBPSWP11	11 CW WTRBX PRMG PP SEAL WTR PUMP (1M0610)	M7	MBP10Q	MBP10Q	0
1TB12-3	1PUMPWBPSWP12	12 CW WTRBX PRMG PP SEAL WTR PUMP (1M0611)	M7	MBP11Q	MBP11Q	0
1TB27-7	0PUMPBSTR9600	0 FP BSTR PUMP # 9600 (1M0663)	M7	MBP63Q	MBP63Q	0
1TB27-5W	1PUMPWOSMPTB11	TURB AREA OILY SUMP 11 PUMP 11 (1M0667)	M7	MBP67Q	MBP67Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-5W	1PUMPWOSMPTB12	TURB AREA OILY SUMP 11 PUMP 12 (1M0668)	M7	MBP68Q	MBP68Q	0
1TB12-2 (CP)	1PUMPMSBD11	11 AUX BD TK PUMP (1M0671)	M7	MBP71Q	MBP71Q	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	M7	MMP07Q	MMP07Q	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	M7	MMP13Q	MMP13Q	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	M7	MMP14Q	MMP14Q	0
1TB12-3	1PUMP2325	GEN H2 SEAL OIL SYS MAIN PUMP (1M0620)	M7	MMP20Q	MMP20Q	0
1TB12-3	1PUMP4624	GEN H2 SEAL OIL SYS RECIRC PUMP (1M0621)	M7	MMP21Q	MMP21Q	0
1TB12-3	1PUMP2316	MG H2 SEAL OIL VACUUM PUMP (1M0622)	M7	MMP22Q	MMP22Q	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	M7	MMP36Q	MMP36Q	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	M7	MMP37Q	MMP37Q	0
1TB12-2	1PUMPHDVLOP11A	11A HTR DRN PP LO CLR PP (1M0676)	M7	MMP76Q	MMP76Q	0
1TB12-2	1PUMPHDVLOP11B	11B HTR DRN PP LO CLR PP (1M0677)	M7	MMP77Q	MMP77Q	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	M7	MVP02Q	MVP02Q	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	M7	MVP03Q	MVP03Q	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	M7	MVP04Q	MVP04Q	0
1TB12-2	1MOV4652	14 STEAM LEAD DR	M7	MVP17Q	MVP17Q	0
1TB12-2	1MOV4651	12 STEAM LEAD DR	M7	MVP18Q	MVP18Q	0
1TB12-2	1MOV5090	11 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M7	MVP28Q	MVP28Q	0
1TB12-4	1MOV4658	MN CONT VLVS BEFORE SEAT DRN	M7	MVP29Q	MVP29Q	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	M7	MVP30Q	MVP30Q	0
1TB12-4	1MOV4656	1 GS MS SEAL REG BYP MOV	M7	MVP31Q	MVP31Q	0
1TB12-4	1MOV4657	1 GS SEAL DUMP BYP MOV	M7	MVP32Q	MVP32Q	0
1TB12-2	1MOV5089	11 SGFP LP STOP ABOVE SEAT DRN	M7	MVP38Q	MVP38Q	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	M7	MVP40Q	MVP40Q	0
1TB12-2	1MOV5088	11 SGFP HP STOP BELOW SEAT DRN	M7	MVP44Q	MVP44Q	0
1TB12-2	1MOV5087	11 SGFP HP STOP ABOVE SEAT DRN	M7	MVP46Q	MVP46Q	0
1TB12-2	1MOV5091	1FW SG FD PP 1ST STG EXH DRN	M7	MVP49Q	MVP49Q	0
1TB12-4	1MOV4026	MS TO 11 MSR 2ND STG	M7	MVP51Q	MVP51Q	0
1TB27-6	1MOV4018	MS TO 11 MSR 2ND STG CONT	M7	MVP52Q	MVP52Q	0
1TB27-6	1MOV4019	EXTRACTION STEAM TO MOISTURE SEPARATOR REHEAT	M7	MVP53Q	MVP53Q	0
1TB27-1	1XL-208-118	LTG XFMR L-208-118 TURB BLDG EL 27 FT	M7	TMP39Q	TMP39Q	0
1TB27-1	1XDT16	LTG DISTR XFMR 16	M7	TMP47Q	TMP47Q	0
1TB12-2	1FANFPTLOCDTRE11	11 SGFP LO COND VAP EXT (1M0612)	M7	VAP12Q	VAP12Q	0
1TB12-2	1FANFPTLORESVE11	11 SGFP LO RESV VAPOR EXT (1M0615)	M7	VAP15Q	VAP15Q	0
1TB12-4	1FANGSPACK11	11 GLAND STEAM PACKING EXH (1M0633)	M7	VAP33Q	VAP33Q	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	M7	VAP59Q	VAP59Q	0
1TB12-2	1FANHVACHDPS11	11 HTR DRN PUMP AREA CLR (1M0678)	M7	VAP78Q	VAP78Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BU313Q	BU313Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BUM16R	BUM16R	0
1TB12-2 (CP)	1RECEPTMCC116A	POWER RECEPT MCC116 (1W48, 1W49, 1W50, 1W51)	M8	BUQ05Q	BUQ05Q	0
1TB12-2 (CP)	1PNL1C54	12B AMERTAP CNTL PNL 1C54	M8	BUQ23Q	BUQ23Q	0
1TB12-2 (CP)	1PNL1C55	13A AMERTAP CNTL PNL 1C55	M8	BUQ24Q	BUQ24Q	0
1TB12-2 (CP)	1PNL1C56	13B AMERTAP CNTL PNL 1C56	M8	BUQ25Q	BUQ25Q	0
1TB27-1	1BKR52-11602	MCC 116T CIRC H2O PP 14 DISCH 1MOV-5237 BKR	M8	CBQ02O	CBQ02O	0
1TB27-1	1BKR52-11603	MCC 116T CIRC H2O PP 15 DISCH 1MOV-5241 BKR	M8	CBQ03O	CBQ03O	0
1TB27-1	1BKR52-11604	MCC 116T CIRC H2O PP 16 DISCH 1MOV-5245 BKR	M8	CBQ04O	CBQ04O	0
1TB27-1	1BKR52-11605	MCC 116T PWR RECEPTACLE BKR	M8	CBQ05O	CBQ05O	0
1TB27-1	1BKR52-11606	MCC 116T COND PP 12 LUBE OIL PP BKR	M8	CBQ06O	CBQ06O	0
1TB27-1	1BKR52-11607	MCC 116T COND PP 13 LUBE OIL PP BKR	M8	CBQ07O	CBQ07O	0
1TB27-1	1BKR52-11608	MCC 116T CIRC WTR PRIMING PP 13 BKR	M8	CBQ08O	CBQ08O	0
1TB27-1	1BKR52-11609	MCC 116T UNIT HTR 14 BKR	M8	CBQ09O	CBQ09O	0
1TB27-1	1BKR52-11610	MCC 116T CIRC WTR PRIMING PP RECIRC SEAL PP 13 BKR	M8	CBQ10O	CBQ10O	0
1TB27-1	1BKR52-11611	MCC 116T UNIT HTR 15 BKR	M8	CBQ11O	CBQ11O	0
1TB27-1	1BKR52-11612	MCC 116T SGFP 12 LUBE OIL CONDITIONER BKR	M8	CBQ12O	CBQ12O	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	M8	CBQ13O	CBQ13O	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	M8	CBQ14O	CBQ14O	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-11615	MCC 116T SGFP 12 OIL VAPOR EXTR BKR	M8	CBQ150	CBQ150	0
1TB27-1	1BKR52-11616	MCC 116T 13 KV SERVICE BUSES 11 & 12 SERVICE XFMR BK	M8	CBQ160	CBQ160	0
1TB27-1	1BKR52-11617	MCC 116T SPARE RCP MTR OIL LIFT PP BKR	M8	CBQ170	CBQ170	0
1TB27-1	1BKR52-11618	MCC 116T CNDSR VACUUM BKR 1MOV-6717 BKR	M8	CBQ180	CBQ180	0
1TB27-1	1BKR52-11620	MCC 116T CNDSR BULLETING PP 11 BKR	M8	CBQ200	CBQ200	0
1TB27-1	1BKR52-11621	MCC 116T TURB LUBE OIL CONDITIONER 11 BKR	M8	CBQ210	CBQ210	0
1TB27-1	1BKR52-11623	MCC 116T 12B AMERTAP CONTR PNL 1C54 BKR	M8	CBQ230	CBQ230	0
1TB27-1	1BKR52-11624	MCC 116T 13A AMERTAP CONTR PNL 1C55 BKR	M8	CBQ240	CBQ240	0
1TB27-1	1BKR52-11625	MCC 116T 13B AMERTAP CONTR PNL 1C56 BKR	M8	CBQ250	CBQ250	0
1TB27-1	1BKR52-11626	MCC 116T UNIT HTR 16 BKR	M8	CBQ260	CBQ260	0
1TB27-1	1BKR52-11627	MCC 116T UNIT HTR 17 BKR	M8	CBQ270	CBQ270	0
1TB27-1	1BKR52-11628	MCC 116T SGFP 12 HP STOP VLV DRN A 1MOV-5092 BKR	M8	CBQ280	CBQ280	0
1TB27-1	1BKR52-11629	MCC 116T RHT STM DRN 1MOV-4022 BKR	M8	CBQ290	CBQ290	0
1TB27-1	1BKR52-11630	MCC 116T RHT STM DRN 1MOV-4023 BKR	M8	CBQ300	CBQ300	0
1TB27-1	1BKR52-11631	MCC 116T STM SEAL AUX SUPP 1MOV-4678(SG) BKR	M8	CBQ310	CBQ310	0
1TB27-1	1BKR52-11633	MCC 116T STM PACK EXH 12 BKR	M8	CBQ330	CBQ330	0
1TB27-1	1BKR52-11635	MCC 116T AUX BOILER FUEL PP 12 BKR	M8	CBQ350	CBQ350	0
1TB27-1	1BKR52-11636	MCC 116T COND VACUUM RECIRC SEAL PP 13 BKR	M8	CBQ360	CBQ360	0
1TB27-1	1BKR52-11637	MCC 116T COND VACUUM RECIRC SEAL PP 14 BKR	M8	CBQ370	CBQ370	0
1TB27-1	1BKR52-11638	MCC 116T SGFP 12 LP STOP VLV DRN A 1MOV-5094 BKR	M8	CBQ380	CBQ380	0
1TB27-1	1BKR52-11639	MCC 116T LTG XFMR (L-208-112) BKR	M8	CBQ390	CBQ390	0
1TB27-1	1BKR52-11640	MCC 116T SGFP 12 EXH 1MOV-3981 BKR	M8	CBQ400	CBQ400	0
1TB27-1	1BKR52-11641	MCC 116T TURBINE LO XFMR PP 11 BKR	M8	CBQ410	CBQ410	0
1TB27-1	1BKR52-11642	MCC 116T TURB AREA SUMP 11 PP 11 BKR	M8	CBQ420	CBQ420	0
1TB27-1	1BKR52-11643	MCC 116T TURB AREA SUMP 11 PP 12 BKR	M8	CBQ430	CBQ430	0
1TB27-1	1BKR52-11644	MCC 116T SGFP 12 HP STOP VLV DRN 1MOV-5093 BKR	M8	CBQ440	CBQ440	0
1TB27-1	1BKR52-11645	MCC 116T LTG XFMR (L-208-119) BKR	M8	CBQ450	CBQ450	0
1TB27-1	1BKR52-11646	MCC 116T SGFP 12 LP STOP VLV DRN 1MOV-5095 BKR	M8	CBQ460	CBQ460	0
1TB27-1	1BKR52-11647	MCC 116T DISTR XFMR 116 BKR	M8	CBQ470	CBQ470	0
1TB27-1	1BKR52-11648	MCC 116T PWR RECEPTACLE BKR	M8	CBQ480	CBQ480	0
1TB27-1	1BKR52-11649	MCC 116T SGFP 12 FIRST STG DRN 1MOV-5096 BKR	M8	CBQ490	CBQ490	0
1TB27-1	1BKR52-11650	MCC 116T UNIT HTR 18 BKR	M8	CBQ500	CBQ500	0
1TB27-1	1BKR52-11651	MCC 116T RHT STM SUPP 1MOV-4025 BKR	M8	CBQ510	CBQ510	0
1TB27-1	1BKR52-11652	MCC 116T MS TO MS RHTR 12 1MOV-4017 BKR	M8	CBQ520	CBQ520	0
1TB27-1	1BKR52-11653	MCC 116T EXTR STM TO MS RHTR 12 1MOV-4020 BKR	M8	CBQ530	CBQ530	0
1TB27-1	1BKR52-11655	MCC 116T HYD PWR UNIT HTR 11 BKR	M8	CBQ550	CBQ550	0
1TB27-1	1BKR52-11656	MCC 116T AUX BD TK PP 12 BKR	M8	CBQ560	CBQ560	0
1TB27-1	1BKR52-11657	MCC 116T TURB BLDG SUPP FAN 15 BKR	M8	CBQ570	CBQ570	0
1TB27-1	1BKR52-11658	MCC 116T TURB BLDG SUPP FAN 16 BKR	M8	CBQ580	CBQ580	0
1TB27-1	1BKR52-11659	MCC 116T COND PP 12 FAN BKR	M8	CBQ590	CBQ590	0
1TB27-1	1BKR52-11660	MCC 116T COND PP 13 FAN BKR	M8	CBQ600	CBQ600	0
1TB27-1	1BKR52-11661	MCC 116T TURB BLDG HIGH BAY LTG BKR	M8	CBQ610	CBQ610	0
1TB27-1	1BKR52-11662	MCC 116T TURB BLDG LOW BAY LTG BKR	M8	CBQ620	CBQ620	0
1TB27-1	1BKR52-11663	MCC 116T TURB AREA SUMP 12 PP 11 BKR	M8	CBQ630	CBQ630	0
1TB27-1	1BKR52-11664	MCC 116T TURB AREA SUMP 12 PP 12 BKR	M8	CBQ640	CBQ640	0
1TB27-1	1BKR52-11665	MCC 116T LIGHTING TRANSFORMER 1L26 L-208-126	M8	CBQ650	CBQ650	0
1TB27-1	1BKR52-11667	MCC 116T TURBINE BLDG HTG CIRC PP 11 BKR	M8	CBQ670	CBQ670	0
1TB27-1	1BKR52-11668	MCC 116T CR & CSR CHILLED WTR SUPP PP #12 BKR	M8	CBQ680	CBQ680	0
1TB27-1	1BKR52-11669	MCC 116T XFMR 1X116 BKR	M8	CBQ690	CBQ690	0
1TB27-1	1BKR52-11670	MCC 116T MTR OPER DOOR 804 BKR	M8	CBQ700	CBQ700	0
1TB27-1	1BKR52-11671	MCC 116T COND COLLECTION TK 11 PP 11 BKR	M8	CBQ710	CBQ710	0
1TB27-1	1BKR52-11672	MCC 116T COND COLLECTION TK 11 PP 12 BKR	M8	CBQ720	CBQ720	0
1TB27-1	1BKR52-11673	MCC 116T SERVICE XFMR (P-13000-1) COOLING B BKR	M8	CBQ730	CBQ730	0
1TB27-1	1BKR52-11674	MCC 116T SERVICE XFMR (U-4000-11) COOLING B BKR	M8	CBQ740	CBQ740	0
1TB27-1	1BKR52-11675	MCC 116T SERVICE XFMR (U-4000-21) COOLING B BKR	M8	CBQ750	CBQ750	0
1TB27-1	1BKR52-11676	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12A BKR	M8	CBQ760	CBQ760	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
1TB27-1	1BKR52-11677	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12B BKR	M8	CBQ77O	CBQ77O	0
1TB27-1	1BKR52-11678	MCC 116T HTR DRN PP 12 LUBE OIL COOLER FAN BKR	M8	CBQ78O	CBQ78O	0
1TB27-1	1BKR52-11601	MCC 116T MN FDR BKR	M8	M8BCBM	CBQ01T	0
1TB12-3	1PUMPSTC12	12 MG STATOR WTR CLG PUMP (1M8316)	M8	MB315Q	MB315Q	0
1TB12-4	1PUMPEHC12	12 MT EHC HYD UNIT PUMP (1M8316)	M8	MB316Q	MB316Q	0
1TB12-2 (CP)	1PUMPCAR14	14 CAR VAC PP (1M8317)	M8	MB317Q	MB317Q	0
1TB12-3	1PUMPWBP13	13 CW WTRBX PRMG PP (1M1608)	M8	MBQ08Q	MBQ08Q	0
1TB12-3	1PUMPWBPSWP13	13 CW WTRBX PRMG PP SEAL WTR PUMP (1M1610)	M8	MBQ10Q	MBQ10Q	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	M8	MBQ13Q	MBQ13Q	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	M8	MBQ14Q	MBQ14Q	0
1TB27-7	0PUMPRCPSARE	SPARE RCP MTR OIL LIFT PP MTR (0M1617)	M8	MBQ17Q	MBQ17Q	0
1TB27-5E	1PUMPSWBSTR11	11 SW BOOSTER PUMP (1M1620)	M8	MBQ20Q	MBQ20Q	0
1TB12-2 (CP)	1PUMPSMP11TB11	11 TURB BLDG SUMP 11 PP (1M1642)	M8	MBQ42Q	MBQ42Q	0
1TB12-2 (CP)	1PUMPSMP11TB12	11 TURB BLDG SUMP PP 12 (1M1643)	M8	MBQ43Q	MBQ43Q	0
1TB12-2 (CP)	1PUMPSMBD12	12 AUX BD TK PUMP (1M1656)	M8	MBQ56Q	MBQ56Q	0
1TB27-5E	1PUMPSMP12TB11	12 TURB BLDG SUMP PP 11 (1M1663)	M8	MBQ63Q	MBQ63Q	0
1TB27-5E	1PUMPSMP12TB12	12 TURB BLDG SUMP 12 PP (1M1664)	M8	MBQ64Q	MBQ64Q	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	M8	MMQ06Q	MMQ06Q	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	M8	MMQ07Q	MMQ07Q	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	M8	MMQ36Q	MMQ36Q	0
1TB12-2 (CP)	1PUMPCARSWP14	14 CAR SEAL WTR PUMP (1M1637)	M8	MMQ37Q	MMQ37Q	0
2TB27-8	0PUMPPHTB11	11 HTG TURB BLDG HWC PUMP (0M1667)	M8	MMQ67Q	MMQ67Q	0
1TB12-2	1PUMPHDVLOP12A	12A HTR DRN PP LO CLR PP (1M1676)	M8	MMQ76Q	MMQ76Q	0
1TB12-2	1PUMPHDVLOP12B	12B HTR DRN PP LO CLR PP (1M1677)	M8	MMQ77Q	MMQ77Q	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	M8	MVQ02Q	MVQ02Q	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	M8	MVQ03Q	MVQ03Q	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	M8	MVQ04Q	MVQ04Q	0
1TB27-3	1MOV6717	COND VAC BKR	M8	MVQ18Q	MVQ18Q	0
1TB12-2	1MOV5092	12 SGFP HP STOP ABOVE SEAT DRN	M8	MVQ28Q	MVQ28Q	0
1TB12-4	1MOV4022	11 MSR 2ND STG RHT SUPP DRN	M8	MVQ29Q	MVQ29Q	0
1TB12-4	1MOV4023	12 MSR 2ND STAGE RHT SUPP DRN	M8	MVQ30Q	MVQ30Q	0
1TB12-4	1MOV4678	AUX STM SEAL SUPPLY VLV	M8	MVQ31Q	MVQ31Q	0
1TB12-2	1MOV5094	12 SGFP LP STOP ABOVE SEAT DRN	M8	MVQ38Q	MVQ38Q	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	M8	MVQ40Q	MVQ40Q	0
1TB12-2	1MOV5093	12 SGFP HP STOP BELOW SEAT DRN	M8	MVQ44Q	MVQ44Q	0
1TB12-2	1MOV5095	12 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M8	MVQ46Q	MVQ46Q	0
1TB12-2	1MOV5096	12 SGFP 1ST STG EXH DRN	M8	MVQ49Q	MVQ49Q	0
1TB12-4	1MOV4025	MS TO 11 MSR 2ND STG	M8	MVQ51Q	MVQ51Q	0
1TB27-5W	1MOV4017	MS TO 12 MSR 2ND STG CONT	M8	MVQ52Q	MVQ52Q	0
1TB27-6	1MOV4020	EXTRACTION STEAM TO MOISTURE SEPARATOR REHEAT	M8	MVQ53Q	MVQ53Q	0
1TB27-1	1XL-208-112	LTG XFMR L-208-112 TURB BLDG EL 27 FT	M8	TMQ39Q	TMQ39Q	0
1TB27-1	1XDT116	LTG DISTR XFMR 116	M8	TMQ47Q	TMQ47Q	0
1TB12-2	1FANFPTLOCDTRE12	12 SGFP LO COND FAN (1M1612)	M8	VAQ12Q	VAQ12Q	0
1TB12-2	1FANFPTLORESVE12	12 SGFP LO RESV VAPOR EXT (1M1615)	M8	VAQ15Q	VAQ15Q	0
1TB12-4	1M1633	12 STM PACKING EXH MTR (1M1633)	M8	VAQ33Q	VAQ33Q	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	M8	VAQ59Q	VAQ59Q	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	M8	VAQ60Q	VAQ60Q	0
1TB12-2	1M1678	12 HDV HTR DRN PP LUBE OIL CLR FAN 12 MTR (1M1678)	M8	VAQ78Q	VAQ78Q	0
1TB27-7	1PS4453	11 CD BOOSTER PP SUCTION LOW PS	MC	MCBP10	PS453R	0
1TB27-7	1PS4513	COND BOOSTER PUMP 11 PS	MC	MCBP10	PS513R	0
1TB27-7	1PS4460	12 CD BOOSTER PP SUCTION LOW PS	MC	MCBP20	PS460R	0
1TB27-7	1PS4514	COND BOOSTER PUMP 12 PS	MC	MCBP20	PS514R	0
1TB12-2	1PS4467	13 CD BOOSTER PP SUCTION LOW PS	MC	MCBP30	PS467R	0
1TB12-2	1PS4468	13 CD BOOSTER PP DISCHARGE LOW PS	MC	MCBP30	PS468D	0
1TB12-2	1PS4515	COND BOOSTER PUMP 13 PS	MC	MCBP30	PS515R	0
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEB	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEP	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AB	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AP	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BB	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BP	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CB	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CP	0
1TB27-4	1HXCCLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AB	0
1TB27-4	1HXCCLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AP	0
1TB27-4	1HXCCLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AB	0
1TB27-4	1HXCCLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AP	0
1TB27-4	1HXCCLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BB	0
1TB27-4	1HXCCLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BP	0
1TB27-4	1HXCCLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BB	0
1TB27-4	1HXCCLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BP	0
1TB27-4	1HXCCLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CB	0
1TB27-4	1HXCCLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CP	0
1TB27-4	1HXCCLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CB	0
1TB27-4	1HXCCLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CP	0
1TB12-1	1HXCCLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AB	0
1TB12-1	1HXCCLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AP	0
1TB27-2	1HXCCLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AB	0
1TB27-2	1HXCCLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AP	0
1TB12-1	1HXCCLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BB	0
1TB12-1	1HXCCLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BP	0
1TB27-2	1HXCCLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BB	0
1TB27-2	1HXCCLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BP	0
1TB27-7	1TCV1619	11 CBP LO CLR TCV	MC	MCL015	C7619P	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCL015	HXM11B	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCL015	HXM11P	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCL015	HXS1AB	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCL015	HXS1AP	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCL015	HXS1BB	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCL015	HXS1BP	0
1TB27-7	1TCV1620	12 CBP LO CLR TEMP TCV	MC	MCL025	C7620P	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCL025	HXM12B	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCL025	HXM12P	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCL025	HXS2AB	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCL025	HXS2AP	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCL025	HXS2BB	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCL025	HXS2BP	0
1TB12-2	1TCV1621	13 CBP LO CLR TCV	MC	MCL035	C7621P	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCL035	HXM13B	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCL035	HXM13P	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCL035	HXS3AB	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCL035	HXS3AP	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCL035	HXS3BB	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCL035	HXS3BP	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV4380	0
1TB27-4	1I/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV4380	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV4380	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438P	0
1TB27-4	1I/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV438P	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438P	0
1TB27-5E	1FT4438A	CD GLAND STEAM CONDENSER MINI FLOW CONTROL FT	MC	MCMN10	FT38AR	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV4860	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB27-3	1SV4486	COND BSTR PMP'S MIN FLOW CONT	MC	MCMN40	CV486O	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486P	0
1TB27-3	1SV4486	COND BSTR PMP'S MIN FLOW CONT	MC	MCMN40	CV486P	0
1TB12-3	1FIC4486	CD BOOSTER PP MINI FLOW CONTROL FIC	MC	MCMN40	FC486R	0
1TB12-1	1FY4486	CD BOOSTER PP MINI FLOW CONTROL FY	MC	MCMN40	FY486R	0
1TB12-1	1FT4484	11 SGFP SUCT FLO XMTR	MC	MCMN51	FT484R	0
1TB12-1	1FY4484	11 FW SGFP SUCT FLO DEVICE	MC	MCMN51	FY484R	0
1TB12-2	1FT4485	12 FW SGFP SUCT FLO XMTR	MC	MCMN52	FT485R	0
1TB12-1	1FY4485	11 & 12 COND BSTR PP MINI FLO DEVICE	MC	MCMN52	FY485R	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11B	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11P	0
1TB12-3 (CP)	1YS4414	COND PMP MOTOR 11 OIL STRAINER	MC	MCPP10	YS414P	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12B	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12P	0
1TB12-3 (CP)	1YS4421	COND PMP MOTOR 12 OIL STRAINER	MC	MCPP20	YS421P	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13B	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13P	0
1TB12-3 (CP)	1YS4428	COND PMP MOTOR 13 OIL STRAINER	MC	MCPP30	YS428P	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	MC	MML11R	MML11R	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	MC	MML12R	MML12R	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	MC	MML13R	MML13R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11R	MYB11R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11S	MYB11S	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12R	MYB12R	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12S	MYB12S	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13R	MYB13R	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13S	MYB13S	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	MC	MYC11R	MYC11R	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	MC	MYC12R	MYC12R	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	MC	MYC13R	MYC13R	0
1TB12-3	1PUMPCBP-LO-11	CBP-11 LUBE OIL PUMP	MC	NDL11R	NDL11R	0
1TB12-3	1PUMPCBP-LO-12	CBP-12 LUBE OIL PUMP	MC	NDL12R	NDL12R	0
1TB12-3	1PUMPCBP-LO-13	CBP-13 LUBE OIL PUMP	MC	NDL13R	NDL13R	0
1TB27-7	1TE1619	11 CD CBP LUBE OIL CLR TE	MC	TE619R	TE619R	0
1TB27-7	1TE1620	12 CD CBP LUBE OIL CLR OUT TE	MC	TE620R	TE620R	0
1TB12-2	1TE1621	13 CD CBP LUBE OIL CLR OUT TE	MC	TE621R	TE621R	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	MC	VAL11R	VAL11R	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	MC	VAL12R	VAL12R	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	MC	VAL13R	VAL13R	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106P	C3106P	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	MN	CB013T	CB013T	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	MN	CB014T	CB014T	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	MN	CB113T	CB113T	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	MN	CB114T	CB114T	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	CV484O	CV484O	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	CV484O	CV484O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	CV4840	CV4840	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	CV4840	CV4840	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	CV4840	CV4840	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	CV4840	CV4840	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	CV4840	CV4840	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	CV4850	CV4850	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	CV4850	CV4850	0
1TB12-2	1UP4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	CV4850	CV4850	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	CV4850	CV4850	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	CV4850	CV4850	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	CV4850	CV4850	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	CV4850	CV4850	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	CV4850	CV4850	0
1TB12-2	1PUMPFPTL0MOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BR	MB11BR	0
1TB12-2	1PUMPFPTL0MOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BS	MB11BS	0
1TB12-2	1PUMPFPTL0MOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BR	MB12BR	0
1TB12-2	1PUMPFPTL0MOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BS	MB12BS	0
1TB12-2	1PUMPFPTL0MOP11A	11A SGFP MAIN OIL PUMP (1M0613)	MN	MM11AR	MM11AR	0
1TB12-2	1PUMPFPTL0MOP12A	12A SGFP MAIN OIL PUMP (1M0614)	MN	MM12AR	MM12AR	0
1TB27-5E	1PUMPCDSGFPBSTR1	11 CD SGFP SEAL WTR BSTR PP (1M0112)	MN	MML11R	MML11R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12R	MML12R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12S	MML12S	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MN	MN011R	MN011R	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MN	MN012R	MN012R	0
1TB27-1	1MCC101AT	MCC 101AT	MN	MNF71B	BU01AR	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	MN	MNF71B	CB101T	0
1TB27-1	1MCC101BT	MCC 101BT	MN	MNF72B	BU01BR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	MN	MNF72B	CB141T	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BP	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	MNFW52	VT1HCP	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	MN	MNFW52	VT1HSP	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	MNFW53	VT1LCP	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	MN	MNFW53	VT1LSP	0
1TB12-2	1LS4705	11 GS GEN FEED PP TURBINE CASING HIGH LS	MN	MNFW54	LS705R	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	MN	MNFW54	MV964P	0
1TB12-2	1PS5002	BRG OIL HDR PS TO LOW PRESS TURB TRIPS	MN	MNFW54	PS002R	0
1TB12-2	1PS5025	11 FW SGFPT ACTIVE FRNT BTHR BRG PS	MN	MNFW54	PS025R	0
1TB12-2	1PS5027	11 FW SGFPT INACTIVE REAR THR BRG PS	MN	MNFW54	PS027R	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	MN	MNFW54	SV010T	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704P	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704T	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707P	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707T	0
1TB12-2	1CV4702	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV702P	0
1TB12-2	1CV4705	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV705P	0
1TB12-2	1PDC4702	11 CD SGFP INJECTION PDC	MN	MNFW57	PC702R	0
1TB12-2	1PC4704	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC704R	0
1TB12-2	1PDC4705	11 CD SGFP INJECTION PDC	MN	MNFW57	PC705R	0
1TB12-2	1PC4707	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC707R	0
1TB12-2	1CV4704OP	SGFP 11 PP SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX704R	0
1TB12-2	1CV4707OP	SGFP 11 TURB SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX707R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011B	0
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011P	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	MNFW59	CV484P	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	MNFW59	CV484P	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	MNFW59	CV484P	0
1TB12-1	1FT4484A	11 FW SGFP MINI FLO XMTR	MN	MNFW59	FT84AR	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	MNFW62	VT2HCP	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	MN	MNFW62	VT2HSP	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	MNFW63	VT2LCP	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	MN	MNFW63	VT2LSP	0
1TB12-2	1LS4711	12 GS GEN FEED PP TURBINE CASING LS	MN	MNFW64	LS711R	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	MN	MNFW64	MV981P	0
1TB12-2	1PS5051	LOW BRG OIL PRESS TURB TRIP PS	MN	MNFW64	PS051R	0
1TB12-2	1PS5074	12 FW SGFPT ACTIVE FRNT THR BRG PS	MN	MNFW64	PS074R	0
1TB12-2	1PS5076	12 FW SGFPT INACTIVE THR BRG PS	MN	MNFW64	PS076R	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	MN	MNFW64	SV059T	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710P	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710T	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713P	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713T	0
1TB12-2	1CV4708	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV708P	0
1TB12-2	1CV4711	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV711P	0
1TB12-2	1PDC4708	12 CD SGFP INJECTION PDC	MN	MNFW67	PC708R	0
1TB12-2	1PC4710	12 FW SEAL WTR DISCHARGE PC	MN	MNFW67	PC710R	0
1TB12-2	1PDC4711	12 CD SGFP INJECTION PDC	MN	MNFW67	PC711R	0
1TB12-2	1PC4713	12 FW SGFP SEAL WTR DISCHARGE PC	MN	MNFW67	PC713R	0
1TB12-2	1CV4710OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX710R	0
1TB12-2	1CV4713OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX713R	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012B	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012P	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	MNFW69	CV485P	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	MNFW69	CV485P	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	MNFW69	CV485P	0
1TB12-1	1FT4485A	12 FW SGFP MINI FLO XMTR	MN	MNFW69	FT85AR	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622P	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622P	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622R	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622R	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623P	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623P	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623R	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1PS5042A	12 FW SGFP AUX OIL PP PS	MN	PS42AD	PS42AD	0
1TB12-2	1PS4482	11 & 12 SGFP SUCT LO PS	MN	PS482R	PS482R	0
1TB12-2	1PS4483	11 & 12 SGFP SUCT LO PS	MN	PS483R	PS483R	0
1TB27-5E	1PS4486	CD SGFP SEAL WATER BOOSTER PPS SUCTION PS	MN	PS486R	PS486R	0
1TB12-4	1PS4487	CD SGFP SEAL WATER BOOSTER PPS DISCHARGE PS	MN	PS487D	PS487D	0
1TB12-2	1PS4490	11 FW SGFP DISCH PS	MN	PS490R	PS490R	0
1TB12-2	1PS4491	11 FW SGFP DISCH PS	MN	PS491R	PS491R	0
1TB12-2	1PS4495	12 FW SGFP DISCH PS	MN	PS495R	PS495R	0
1TB12-2	1PS4496	12 FW SGFP DISCH PS	MN	PS496R	PS496R	0
1TB12-2	1PS4992A	11 FW SGFP AUX OIL PUMP PS	MN	PS92AD	PS92AD	0
1TB12-2	1PY4482	SGFP 11 TURB TRIP & RESET	MN	RY482T	RY482T	0
1TB12-2	1PY4483	SGFP 11 TURB TRIP & RESET	MN	RY483T	RY483T	0
1TB12-2	1PY4482A	SGFP 12 LO SUCT PR ALARM	MN	RY82AT	RY82AT	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	MN	RY83AT	RY83AT	0
1TB12-2	1AY4483A	SGFP 12 LO SUCT PR TRIP	MN	RYA3AT	RYA3AT	0
1TB12-2	1AY4483	SGFP 11 TRIP & RESET	MN	RYA83T	RYA83T	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	VT1HCO	VT1HCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	VT1LCO	VT1LCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	VT2HCO	VT2HCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	VT2LCO	VT2LCO	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111C	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111T	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111T	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111T	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121C	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121T	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121T	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121T	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MT	BHEMT1	Trips	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MT	BHEMT1	Trips	0
1TB27-1	1MCC101AT	MCC 101AT	N1	BU109Q	BU109Q	0
1TB12-4	1COMPIA11	11 IA COMPR (1MB118)	N2	CM118Q	CM118Q	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	N2	CM123Q	CM123Q	0
1TB27-1	1MCC101BT	MCC 101BT	N4	BU419Q	BU419Q	0
1TB12-4	1COMPIA12	12 IA COMPR (1MB418)	N4	CM418Q	CM418Q	0
2TB27-7	2MCC201AT	MCC 201AT	N5	BUT59Q	BUT59Q	0
2TB12-4	2COMPIA21	21 IA COMPR (2MB118)	N6	CMT18Q	CMT18Q	0
2TB27-7	2MCC201BT	MCC 201BT	N8	BUT19Q	BUT19Q	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	N8	CMT21Q	CMT21Q	0
2TB12-4	2COMPIA22	22 IA COMPR (2MB418)	N8	CMT28Q	CMT28Q	0
2TB12-4	2TCV1636	PA COMP TCV	NR	C72S6O	C72S6O	0
1TB12-4	1TCV1634	12 1/4 COMPR TEMP REG VLV	NR	C7S34O	C7S34O	0
1TB12-4	1COMPIA11	11 IA COMPR (1MB118)	NR	CM011R	CM011R	0
1TB12-4	1COMPIA11	11 IA COMPR (1MB118)	NR	CM011S	CM011S	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012R	CM012R	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012S	CM012S	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CMP11R	CMP11R	0
2TB12-4	2COMP1A21	21 PA COMPR (2MB423)	NR	CMP21R	CMP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	IPIA99	TKA11B	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	IV2S6D	IV2S6D	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	IVS33D	IVS33D	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	IVS34D	IVS34D	0
1TB27-1	1MCC101AT	MCC 101AT	NR	NR1P01	BU1ATR	0
1TB27-1	1PNL1P11	LTG DISTR PNL 111	NR	NR1P01	BUP11R	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	NR	NR1P01	CB101T	0
1TB27-1	1BKR52-10116	MCC 101AT DISTR XFMR 11 BKR	NR	NR1P01	CB116T	0
1TB27-1	1XDT11	LTG DISTR XFMR 11	NR	NR1P01	TM1P1R	0
1TB12	1PCV1628	SRW TO I&P/A COMPR PCV	NR	NRC1SW	CV628P	0
1TB12-4	1TCV1630	11 I/A COMPR TEMP REG VLV	NR	NRIA11	C7630P	0
1TB12-4	1MUFFIAFIL11	11 IA COMPR FILTER SILENCER	NR	NRIA11	FL011P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11B	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062D	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062T	0
1TB12-4	1SV1629	11 I/A COMPR A/CLR SRW INLET	NR	NRIA11	IV629T	0
1TB12-4	1SV1630	11 I/A COMPR SRW INLET	NR	NRIA11	IV630T	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	NRIA11	PS062R	0
1TB12-4	1PS2063	11 IA COMPR OIL PS LOW	NR	NRIA11	PS063R	0
1TB12-4	1TE1630	11 SRW IA COMPR OUT TE	NR	NRIA11	TE630R	0
1TB12-4	1TS2063	11 IA COMPR A/CLR OUT TS HI	NR	NRIA11	TS063R	0
1TB12-4	1TS2082	11 IA COMPR I/CLR OUT TS	NR	NRIA11	TS082R	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	NRIA12	C7S34P	0
1TB12-4	1MUFFIAFIL12	12 IA COMPR FILTER SILENCER	NR	NRIA12	FLS12P	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA12	HXAS2P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2B	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2P	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064D	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064T	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	NRIA12	IVS33T	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	NRIA12	IVS34T	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	NRIA12	PS064R	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	NRIA12	PS067R	0
1TB12-4	1PS2065	12 IA COMPR OIL PS LOW	NR	NRIA12	PSS65R	0
1TB12-4	1TE1634	12 SRW IA COMPR OUT TE	NR	NRIA12	TES34R	0
1TB12-4	1TS2065	12 IA COMPR A/CLR OUT TS HI	NR	NRIA12	TSS65R	0
1TB12-4	1TS2084	12 IA COMPR I/CLR OUT TS	NR	NRIA12	TSS84R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA99	HXA11B	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA99	HXAS2B	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	NRIA99	TK011B	0
1TB12-4	1ACCIA12	12 IA COMPR RCVR	NR	NRIA99	TK012B	0
1TB12-2	1DRYIA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12AP	0
1TB12-2	1DRYIA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12BP	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001R	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001T	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002T	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003T	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004T	0
1TB12-4	1NP1113B	IA DRYER 12 LOCAL CONTROL PNL	NR	NRIAHD	COD12R	0
1TB12-4	1FU1NP113B/FU3	12 IA DRYER CONTR CKT FU	NR	NRIAHD	FUC12R	0
1TB12-2	1HS2004	12 IA DRYER HS	NR	NRIAHD	HS004T	0
1TB12-4	1PCV2003	IA DRYER 12 PILOT REG PCV	NR	NRIAHD	PC003R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA01	HXAP1B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA01	HXPA2B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NR	NRPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NR	NRPA01	TKP21B	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NR	NRPA11	C7636P	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NR	NRPA11	FLP11P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXAP1P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXPA1P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11B	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11P	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154T	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NR	NRPA11	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NR	NRPA11	IV636T	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NR	NRPA11	PS055R	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	NRPA11	PS154R	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NR	NRPA11	TE636R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NR	NRPA11	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NR	NRPA11	TS086R	0
2TB12-4	2TCV1636	PA COMP TCV	NR	NRPA21	C72S6P	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NR	NRPA21	CMP21S	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NR	NRPA21	CV228P	0
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NR	NRPA21	FLS21P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXP21B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXP21P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA21	HXPA2P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054T	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	NRPA21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	NRPA21	IV2S6T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	NRPA21	PS054R	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	NRPA21	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NR	NRPA21	PSS25R	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NR	NRPA21	TE2S6R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NR	NRPA21	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NR	NRPA21	TSS25R	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259R	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061O	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061O	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061P	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061P	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061D	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	PS056D	PS056D	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	PS062D	PS062D	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	PS064D	PS064D	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	PS067D	PS067D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	PS154D	PS154D	0
2TB12-4	2TCV1636	PA COMP TCV	NS	C72S6O	C72S6O	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	C7634O	C7634O	0
2TB12-4	2COMPIA21	21 IA COMPR (2MB118)	NS	CM021R	CM021R	0
2TB12-4	2COMPIA21	21 IA COMPR (2MB118)	NS	CM021S	CM021S	0
2TB12-4	2COMPIA22	22 IA COMPR (2MB418)	NS	CM022R	CM022R	0
2TB12-4	2COMPIA22	22 IA COMPR (2MB418)	NS	CM022S	CM022S	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	NS	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	CMP21R	CMP21R	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	IV2S6D	IV2S6D	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	IV633D	IV633D	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	IV634D	IV634D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154T	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	NRCMP1	PS154R	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	NRCMP2	PS054R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NS	NRDPP1	HXAP1P	0
1TB12-4	1HXPAV/CLR11	11 PA COMPR INTER COOLER	NS	NRDPP1	HXPI1B	0
2TB12-4	2HXPAV/CLR21	21 PA COMPR INTER COOLER	NS	NRDPP2	HXIP2B	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NS	NRHVP1	FLP11P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2MUFFPAFIL21	21 PA COMPR FILTER SILENCER	NS	NRHVP2	FLS21P	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NS	NRPSP1	PS055R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NS	NRPSP1	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NS	NRPSP1	TS086R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	NRPSP2	CMP21S	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	NRPSP2	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NS	NRPSP2	PSS25R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NRPSP2	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NS	NRPSP2	TSS25R	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NS	NRSW13	C7636P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NRSW13	HXPA1P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR INTER COOLER	NS	NRSW13	HXP11P	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NS	NRSW13	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NS	NRSW13	IV636T	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NS	NRSW13	TE636R	0
2TB12-4	2TCV1636	PA COMP TCV	NS	NRSW21	C72S6P	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NS	NRSW21	CV228P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR INTER COOLER	NS	NRSW21	HXIP2P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NS	NRSW21	HXPA2P	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	NRSW21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	NRSW21	IV2S6T	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NS	NRSW21	TE2S6R	0
2TB27-7	2MCC201AT	MCC 201AT	NS	NS1P01	BU2ATR	0
2TB27-7	2PNL2P01	LTG DISTR PNL 21	NS	NS1P01	BUP21R	0
2TB27-7	2BKR52-20101	MCC 201AT MN FDR BKR	NS	NS1P01	CB201T	0
2TB27-7	2BKR52-20116	DISTRIBUTION XFMR 480-208 120V	NS	NS1P01	CB216T	0
2TB27-7	2XDT21	LTG DISTR XFMR 21	NS	NS1P01	TM2P2R	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NS	NSC1SW	CVS28P	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262D	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262T	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	NSCMI1	PSS62R	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264D	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264T	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	NSCMI2	PSS64R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSDPI1	HXA21P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21B	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSDPI2	HXI22B	0
2TB12-4	2MUFFIAFIL21	21 IA COMPR FILTER SILENCER	NS	NSHV11	FL021P	0
2TB12-4	2MUFFIAFIL22	22 IA COMPR FILTER SILENCER	NS	NSHV12	FLS22P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSIA99	HXA21B	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSIA99	HXA22B	0
2TB12-4	2ACCIA21	21 IA COMPR RCVR	NS	NSIA99	TK021B	0
2TB27-8	2ACCIA22	22 IA COMPR RCVR	NS	NSIA99	TK022B	0
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22AP	0
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22BP	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201T	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202T	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203T	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204T	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2PNL2NP0103B	IA DRYER 22 CONTROLLER	NS	NSIAHD	COD22R	0
2TB27-8	2FU2NP0103B/FU3	22 IA DRYER CONTR CKT FU	NS	NSIAHD	FUC22R	0
2TB27-8	2HS2004	22 I/A DRYER H/S	NS	NSIAHD	HS204T	0
2TB27-8	2PCV2003	22 IA DRYER PILOT REG	NS	NSIAHD	PC203R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NS	NSPA01	HXAP1B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NS	NSPA01	HXPA2B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NS	NSPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NS	NSPA01	TKP21B	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259R	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261O	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261O	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261P	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261P	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61D	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61R	0
2TB12-4	2PS2063	21 IA COMPR OIL PS LOW	NS	NSPSI1	PSS63R	0
2TB12-4	2TS2063	21 IA COMPR A/CLR OUT TS	NS	NSPSI1	TS263R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NSPSI1	TS282R	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	NSPSI2	PSS67R	0
2TB12-4	2TS2065	22 IA COMPR A/CLR OUT TS	NS	NSPSI2	TS065R	0
2TB12-4	2TS2084	22 IA COMPR I/CLR OUT TS	NS	NSPSI2	TS084R	0
2TB12-4	2TCV1630	21 IA COMPR TCV	NS	NSSW11	C7S30P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSSW11	HXIA2P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSSW11	HXII2P	0
2TB12-4	2SV1629	21 IA COMPR A/CLR SRW INLET	NS	NSSW11	IVS29T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	# ABOVE FLOOR
2TB12-4	2SV1630	21 IA COMPR SRW INLET	NS	NSSW11	IVS30T	0
2TB12-4	2TE1630	21 IA COMP CLR SRW TCV TE	NS	NSSW11	TE163R	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	NSSW12	C7634P	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSSW12	HXA22P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSSW12	HXI22P	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	NSSW12	IV633T	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	NSSW12	IV634T	0
2TB12-4	2TE1634	22 IA COMPR CLR SRW TCV TE	NS	NSSW12	TE634R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	PS056D	PS056D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	PS154D	PS154D	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	PSS62D	PSS62D	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	PSS64D	PSS64D	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	PSS67D	PSS67D	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	QC	QCMISC	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	QC	QCMISC	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	QC	QCMISC	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	QC	QCMISC	MYHD2Q	0
2TB12-3	2PUMPCBP21	21 CD CBP (2MA204)	QF	QFMISC	MXCB1Q	0
2TB12-3	2PUMPCBP22	22 CD CBP (2MA205)	QF	QFMISC	MXCB2Q	0
2TB12-2 (CP)	2PUMPCD21	21 CONDENSATE PUMP (2MA207)	QF	QFMISC	MXCP1Q	0
2TB12-3	2PUMPHDV21	21 FW HEATER DRAIN PUMP (2MA206)	QF	QFMISC	MXHD1Q	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	RL	RLFHSF	RLFHSF	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA2R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	S3	S3TBAL	ATPA1R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA2R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	S4	S3TBAL	ATPA1R	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	T1	T1CS1F	LT405R	0
2TB27-2E	2CV4406	21 CST TO HTWL M/U CV	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2I/P4406	COND STORAGE TO HOTWELL CONTRL	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2LT4405	CD HOTWELL LEVEL CONTROL LT	T1	T1CS2F	LTB05R	0
1TB27-6	1CVMT-11	11 MT CV	TT	V1CV1C	V1CV1C	0
1TB27-6	1CVMT-12	12 MT CV	TT	V1CV2C	V1CV2C	0
1TB27-6	1CVMT-13	13 MT CV	TT	V1CV3C	V1CV3C	0
1TB27-6	1CVMT-14	14 MT CV	TT	V1CV4C	V1CV4C	0
1TB27-6	1FCVMT-11	11 MT STOP VLV	TT	V1SV1C	V1SV1C	0
1TB27-6	1FCVMT-12	12 MT STOP VLV	TT	V1SV2C	V1SV2C	0
1TB27-6	1FCVMT-13	13 MT STOP VLV	TT	V1SV3C	V1SV3C	0
1TB27-6	1FCVMT-14	14 MT STOP VLV	TT	V1SV4C	V1SV4C	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	VC	MMS11R	MMS11R	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	VC	MMS12R	MMS12R	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	VC	MMS13R	MMS13R	0
1TB12-2 (CP)	1PUMPCAR11	11 CAR VAC PP (1MB203)	VC	MMV11R	MMV11R	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	VC	MMV12R	MMV12R	0
1TB12-2 (CP)	1PUMPCAR13	13 CAR VAC PP (1MB303)	VC	MMV13R	MMV13R	0
1TB12-2	1CV1627	SRW TO COND VAC PP PCV	VC	VC0SRW	C3627P	0
1TB12-2	1PIC1627	10 SRW CNDSR PP VAC INL PIC	VC	VC0SRW	PC627R	0
1TB27-3	1MOV6717	COND VAC BKR	VC	VC717T	MV717T	0
1TB12-3 (CP)	1HS5225	11 CW PP WTRBX INL VLV HS	VC	VCCW1A	HS225T	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	VC	VCCW1A	MV225P	0
1TB12-3 (CP)	1HS5229	12 CW PP WTRBX INL VLV HS	VC	VCCW2A	HS229T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	VC	VCCW2A	MV229P	0
1TB12-3 (CP)	1HS5233	13 CW PP WTRBX INL VLV HS	VC	VCCW3A	HS233T	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	VC	VCCW3A	MV233P	0
1TB12-3 (CP)	1HS5237	14 CW PP WTRBX INL VLV HS	VC	VCCW4A	HS237T	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	VC	VCCW4A	MV237P	0
1TB12-3 (CP)	1HS5241	15 CW PP WTRBX INL VLV HS	VC	VCCW5A	HS241T	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	VC	VCCW5A	MV241P	0
1TB12-3 (CP)	1HS5245	15 CW PP WTRBX INL VLV HS	VC	VCCW6A	HS245T	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	VC	VCCW6A	MV245P	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098C	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098C	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098T	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098T	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098D	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098R	0
1TB12-2 (CP)	1CV1754	11 CAR UNIT MOTIVE AIR	VC	VCP011	C3754P	0
1TB12-2	1SV1753	11 CAR BYP & MOTIVE VLV	VC	VCP011	C3754P	0
1TB12-2 (CP)	1CV1755	11 CAR UNIT SYS DIAPHRAM	VC	VCP011	C3755P	0
1TB12-2 (CP)	1LCV1753	11 CAR SEP	VC	VCP011	LC753R	0
1TB12-2 (CP)	1PS1755	11 CAR CNDSR VAC PP SEAL LOW PRESSURE WTR PS	VC	VCP011	PS755R	0
1TB12-2 (CP)	1CV1757	12 CAR UNIT MOTIVE AIR	VC	VCP012	C3757P	0
1TB12-2	1SV1756	12 CAR BYP & MOTIVE VLVS	VC	VCP012	C3757P	0
1TB12-2 (CP)	1CV1758	12 CAR UNIT SYS DIAPHRAM	VC	VCP012	C3758P	0
1TB12-2 (CP)	1LCV1756	12 CAR SEP LO LVL CONTROL	VC	VCP012	LC756R	0
1TB12-2 (CP)	1PS1758	12 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP012	PS758R	0
1TB12-2 (CP)	1CV1760	13 CAR UNIT MOTIVE AIR	VC	VCP013	C3760P	0
1TB12-2	1SV1759	13 CAR BYP & MOTIVE VLVS	VC	VCP013	C3760P	0
1TB12-2 (CP)	1CV1761	13 CAR UNIT SYS DIAPHRAM	VC	VCP013	C3761P	0
1TB12-2 (CP)	1LCV1759	SEP LO LVL CONTROL	VC	VCP013	LC759R	0
1TB12-2 (CP)	1PS1761	13 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP013	PS761R	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11B	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11P	0
1TB27-1	1RY1B0636/1Y0636	11 RECIRC SEAL PP INTK RE	VC	VCS011	RY036P	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12B	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12P	0
1TB27-1	1RY1B0637/1Y0637	12 RECIRC SEAL PP INTK RELAY	VC	VCS012	RY037P	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13B	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13P	0
1TB27-1	1RY1B1636/1Y1636	13 RECIRC SEAL PP INTK RELAY	VC	VCS013	RY136P	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681O	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681P	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	VC	VCTGS1	MV659P	0
1TB12-4	1PC4681	GS STM SEAL FEED VLV CONTROL PC	VC	VCTGS1	PC681R	0

# Flood Evaluation Query

CF-31B-ST12AN \*

08-Dec-98

TOP	PM	EVALUATION	RI
AA	6BKR	6 breaker challenges.	PAJ
AB	5BKR	5 breaker challenges.	PAJ
AC	4BKR	4 breaker challenges.	PAJ
AD	7BKR	7 breaker challenges.	PAJ
AE	4BKR	4 breaker challenges.	PAJ
AF	4BKR	4 breaker challenges.	PAJ
BS	F	All TBVs fail closed on loss of power and loss of air.	PAJ
BV	F	All TBVs fail closed on loss of power and loss of air.	PAJ
CS	F	CS Pump 11 is lost.	PAJ
CT	F	CS Pump 12 is lost.	PAJ
CV	F	Conservatively set to failure. CVCS relatively unimportant.	PAJ
DL	None	11A and 11B LPSI Loop Isol MOVs (1MOV615 and 1MOV625), Fail to Open on Demand. LPSIs only used in large break LOCAs. Flood cannot cause a large break LOCA, therefore this top is not affected.	PAJ
F1	Spec Impt	11 and 12 S/G AFW Block Valves fail. These valves are normally open and will fail open. Therefore there is no impact on this top. Flow control valves failing open are addressed in top event HX. Steam admission Control valves 1CV4070/4071 are normally closed, and will fail as-is(closed) on loss of power. Therefore, operators will be unable to open valves. These valves continuously have air (closing the valve). The operators may bleed air to open valve if need be.	PAJ
F3	None	Steam Admission SV's 1SV4070/4071 are covered under top event F1.	PAJ
F7	F	Lost the ability to use Unit 1 AFW MD Pump 13 to supply Unit 1 S/G.	PAJ
F9	F	Loss the ability to use Unit 2 AFW MD Pump 23 to supply Unit 1 S/G. Also, 21 and 22 S/G AFW Block and Flow Valves fail. These valves are normally open and fail as-is (open) on loss of power.	PAJ

\* This flood is deleted. See RAN 94-001 CF 31 Rev 1. *gbr*

TOP	PM	EVALUATION	RI
FC	F	AFW Pump Room is submerged.	PAJ
FF	None	Both 11 and 12 AFW Pump Room Exhaust fans fail to start. Covered under Top FC.	PAJ
FH	None	Loss the ability to start AFW MD Pump 13. Covered under Top F7.	PAJ
FN	None	Only has 3 PCVs. I am assuming that these valves will not fail during a flood.	PAJ
FO	F	Use FO SF where M3 and M4 fail. 21A SWAC fails and 22A SWAC fails. The Unit 1 Plant Model does not credit anything other than the use of the SWACs. As a result, this function should be considered failed.	PAJ
FT	F	Stop valves fail closed.	PAJ
GG	None	1CV1645 / 1CV1646 are both locked open. Both valves have been retired in place and can only be manipulated manually.	PAJ
GW	F	22 and 23 SRW Pump fail.	PAJ
GZ	F	21 and 23 SRW Pump fail.	PAJ
HA	F	11 HPSI Pump fails.	PAJ
HB	F	13 HPSI Pump fails.	PAJ
HU	None	11 and 12 S/G AFW Flow Control Valves fail open. No Impact.	PAJ
HW	F	12 HPSI is lost. Also 1MOV653, 1MOV654, 1MOV655 and 1MOV656 fail as-is.	PAJ
HX	None	11 and 12 S/G AFW (motor driven feed line) flow control valves fail open. Impact already considered by Top F7 & F9 failure.	PAJ
I1	F	11 SWAC fails.	PAJ
I2	F	12 SWAC fails.	PAJ
IL	None	Air accumulators only. Mechanical operation only.	PAJ
IN	None	Air accumulators only. Mechanical operation only.	PAJ
IP	None	Air accumulators only. Mechanical operation only.	PAJ



TOP	PM	EVALUATION	RI
K3	None	Since KX, KY and KZ fail, this top event will be set to success.	PAJ
K4	None	Since KX, KY and KZ fail, this top event will be set to success.	PAJ
K5	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
KH(PP1)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to start 11 CCW Pump. 11 Component Cooling Pump fails to start.	PAJ
KH(PP2)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to start 12 CCW Pump. 12 Component Cooling Pump fails to start.	PAJ
KH(PP3)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to start 13 CCW Pump. 13 Component Cooling Pump fails to start.	PAJ
KI(HX1)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to open, close or modulate two valves (1CV3824 and 1CV5206). 1CV3824 will fail in the appropriate position. 1CV5206 will not. This valve will fail open neglecting the capability to throttle this valve. Therefore this top will fail.	PAJ
KI(HX2)	None	Since KX, KY and KZ fail, this top event will be set to success. This human action requires the operator to open, close or modulate two valves (1CV3826 and 1CV5208). 1CV3826 will fail in the appropriate position. 1CV5208 will not. This valve will fail open neglecting the capability to throttle this valve. Therefore this top will fail.	PAJ
KM	None	Since KX, KY and KZ fail, this top event will be set to success. Also 1CV3823 will transfer close, which is the undesired affect. But it does not fail top unless 1HVCC-149 transfers shut or 1HXCC11 plugs during operation. Since mechanical components are screened for flood, it will not fail this top, only degrade it.	PAJ
KN	None	Since KX, KY and KZ fail, this top event will be set to success. Also 1CV3825 will transfer close, which is the undesired affect. But it does not fail top unless 1HVCC-156 transfers shut or 1HXCC12 plugs during operation. Since mechanical components are screened for flood, it will not fail this top, only degrade it.	PAJ
KX	F	11 CCW Pump will fail to start/run.	PAJ
KY	F	12 CCW Pump will fail to start/run.	PAJ
KZ	F	13 CCW Pump will fail to start/run.	PAJ
LF	F	1CV1105/1106/4405/4406 fail closed on loss of power and loss of air.	PAJ
M1	15BKR	15 breaker challenges.	PAJ

TOP	PM	EVALUATION	RI
M2	24BKR	24 breaker challenges.	PAJ
M3	18BKR	18 breaker challenges.	PAJ
<del>M4</del>	<del>21BKR</del>	<del>21 breaker challenges.</del>	<del>PAJ</del>
M7	F	MCC 106T fails.	PAJ
M8	F	MCC 116T fails.	PAJ
MC	F	All condensate pumps fail.	PAJ
MH	Spec Impt	1CV4070/4071 are normally closed and fail as-is on loss of power. These valves must be locally vented.	PAJ
MN	F	Both SGFPs trip.	PAJ
MP	F	1CV1111/1121 are normally open and fail as-is.	PAJ
MT	None	SGFP trip in this scenario. See top MN.	PAJ
MV	None	IMOV659/660 fail as-is and are normally electrically locked open, there will be no flood impact.	PAJ
N1	3BKR	3 breaker challenges.	PAJ
N2	4BKR	4 breaker challenges.	PAJ
N3	1BKR	1 breaker challenge.	PAJ
N4	3BKR	3 breaker challenges.	PAJ
N5	1BKR	1 breaker challenge.	PAJ
N6	2BKR	2 breaker challenges.	PAJ
N7	2BKR	2 breaker challenges.	PAJ
N8	5BKR	5 breaker challenges.	PAJ
NR	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail.	PAJ

TOP	PM	EVALUATION	RI
NR(TC)	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail.	PAJ
NS	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail.	PAJ
QC	4BKR	4 breaker challenges.	PAJ
QF	4BKR	4 breaker challenges.	PAJ
QZ	None	11 & 12 AFW Block valves (1CV4522/4523/4532/4533) are normally open and fail as-is on loss of power.	PAJ
RH	F	This human action requires the operator to start 11 and 13 HPSI Pumps. Both pumps are assumed not to start/run during a flood scenario.	PAJ
RL	Spec Impt	This top fails only if the makeup flow from the salt water system fails.	PAJ
S3	F	11 and 13 SRW Pumps fail.	PAJ
S4	F	12 and 13 SRW Pumps fail.	PAJ
SG	Spec Impt	The hydrogen purge hand switches for MOVs 6902/6903 fail. It is assumed that the MOVs will fail to the undesired position even though that are not located in this scenario. This does impact the top but does not fail it. There is a check valve or MOV downstream of both of these MOVs that isolate containment.	PAJ
SH	None	All valves either are normally closed or will fail closed.	PAJ
SP(PP1)	None	11 CC Pumps fails to start/run. Accounted for by Top KX.	PAJ
SP(PP2)	None	12 CC Pumps fails to start/run. Accounted for by Top KY.	PAJ
SP(PP3)	None	13 CC Pumps fails to start/run. Accounted for by Top KZ.	PAJ
SR	None	All MOVs (1MOV4144/4145/5462/5463/615/625) are closed and fail close.	PAJ
T1	None	1CV4406 and 2CV4406 fails closed.	PAJ
TA	F	1CV1637/1639 fail close on loss of power / loss of air.	PAJ
TB	F	1CV1600/1638 fail close on loss of power / loss of air.	PAJ
TE	F	1MOV4144 is normally in the closed position and will fail as-is. Therefore, the East Recirculation Header will not function properly.	PAJ

TOP	PM	EVALUATION	RI
TF	F	11 AFW TD Pump fails.	PAJ
TG	F	12 AFW TD Pump fails.	PAJ
TH(HD1)	None	1CV5206/5210 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S3 or K3.	PAJ
TH(HD2)	None	1CV5208/5212 will fail to there appropriate position not allowing the operator to throttle valves. Covered by Top S4 or K4.	PAJ
TT	None	Control and Stop valves fail closed.	PAJ
TW	F	1MOV4145 is normally in the closed position and will fail as-is. Therefore, the West Recirculation Header will not function properly.	PAJ
TX	None	Has 6 PSs. It is assumed that a flood will not prevent PS activation.	PAJ
UQ	None	1CV4525/4535 will fail open. This top is only fails when an under feed to the SG occurs.	PAJ
V1	F	All ECCS Pump Room Fans fail to start/run.	PAJ
V2	F	All ECCS Pump Room Fans fail to start/run.	PAJ
V5	F	11 and 12 ECCS exhaust fans fails to start/run.	PAJ
VC	F	All Condenser Vacuum Pumps Fail.	PAJ
VM(RM1)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V1.	PAJ
VM(RM2)	None	Operator will be unable to start ECCS Pump Room Fans. Covered under Top V2.	PAJ
WJ	None	Several SVs, all normally deenergized (closed), will fail to the deenergized state. Therefore, there is no impact to this top.	PAJ
WY	None	1CV1584/1592 fail open loss of power.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	AA	MAAF3Q	MAAF3Q	16
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	AA	MACS1Q	MACS1Q	12
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	AA	MAHP1Q	MAHP1Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AA	MAHP3Q	MAHP3Q	12
A119	1PUMPSILPSI11	11 LOW PRESS SAFETY INJECTION PUMP (1MA104)	AA	MALP1Q	MALP1Q	12
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	AA	MWSR1Q	MWSR1Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AA	MWSR3Q	MWSR3Q	32
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	AB	MACS2Q	MACS2Q	12
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	AB	MAHP2Q	MAHP2Q	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	AB	MAHP4Q	MAHP4Q	12
A118	1PUMPSILPSI12	12 LOW PRESS SAFETY INJECTION PUMP (1MA404)	AB	MALP2Q	MALP2Q	12
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	AB	MWSR2Q	MWSR2Q	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	AB	MWSR4Q	MWSR4Q	32
A101	2PUMPSICS21	21 CONTAINMENT SPRAY PUMP (2MA107)	AC	MACS3Q	MACS3Q	24
A101	2PUMPHPSI21	SI HPSI PUMP 21 (2MA108)	AC	MAHP5Q	MAHP5Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AC	MAHP7Q	MAHP7Q	12
A101	2PUMPSILPSI21	21 LOW PRESS SAFETY INJECTION PUMP (2MA104)	AC	MALP3Q	MALP3Q	39
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	AC	MWSR5Q	MWSR5Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AC	MWSR7Q	MWSR7Q	32
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	AD	MAAF6Q	MAAF6Q	16
A102	2PUMPSICS22	22 CONTAINMENT SPRAY PUMP (2MA407)	AD	MACS4Q	MACS4Q	12
A101	2PUMPHPSI22	SI HPSI PUMP 22 (2MA408)	AD	MAHP6Q	MAHP6Q	24
A102	2PUMPHPSI23	SI HPSI PUMP 23 (2MA110)	AD	MAHP8Q	MAHP8Q	12
A102	2PUMPSILPSI22	22 LOW PRESS SAFETY INJECTION PUMP (2MA404)	AD	MALP4Q	MALP4Q	12
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	AD	MWSR6Q	MWSR6Q	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	AD	MWSR8Q	MWSR8Q	32
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	AE	MYCB1Q	MYCB1Q	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	AE	MYCB2Q	MYCB2Q	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	AE	MYCP1Q	MYCP1Q	0
1TB12-2	1PUMPHDV11	11 FW HEATER DRAIN PUMP (1MA206)	AE	MYHD1Q	MYHD1Q	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	AF	MYCB3Q	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	AF	MYCP2Q	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	AF	MYCP3Q	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	AF	MYHD2Q	MYHD2Q	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB4000	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940T	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BS	BS3940	IV940T	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3940	IZ940R	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940I	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940R	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB4200	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942T	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BS	BS3942	IV942T	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3942	IZ942R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942I	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942R	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB44CO	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB44OP	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944T	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BS	BS3944	IV944T	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3944	I2944R	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944I	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944R	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB46CO	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB46OP	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946T	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BS	BS3946	IV946T	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3946	I2946R	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX946I	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX960R	0
1TB12-4	1PT4056	MS TURB BYPASS VLV CONTROL PT	BS	BS4056	PT056R	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS940C	AB40BC	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40AD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40BD	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS942C	AB42BC	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	IV42AD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	IV42BD	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS944C	AB44BC	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	IV44AD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	IV44BD	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS946C	AB46BC	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	IV46AD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	IV46BD	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	C5940O	C5940O	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	C5940O	C5940O	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	C5940O	C5940O	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	C5942O	C5942O	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	C5942O	C5942O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	C59420	C59420	0
1TB27-3	1CV3944	TURB BY VLV (TBV)	BS	C59440	C59440	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	C59440	C59440	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	C59440	C59440	0
1TB27-3	1CV3946	TURB BY VLV (TBV)	BS	C59460	C59460	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	C59460	C59460	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	C59460	C59460	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BV	BV3940	AB40BO	0
1TB27-3	1CV3940	TURB BY VLV (TBV)	BV	BV3940	C5940P	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3940	C5940P	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BV3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AD	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AT	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BT	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BV	BV3942	AB42BO	0
1TB27-3	1CV3942	TURB BY VLV (TBV)	BV	BV3942	C5942P	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3942	C5942P	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BV3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AD	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AT	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BT	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BV	BV3944	AB44BO	0
1TB27-3	1CV3944	TURB BY VLV (TBV)	BV	BV3944	C5944P	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3944	C5944P	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BV3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AD	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AT	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BT	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BV	BV3946	AB46BO	0
1TB27-3	1CV3946	TURB BY VLV (TBV)	BV	BV3946	C5946P	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3946	C5946P	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BV3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AD	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AT	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BT	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BVCLVR	IV940T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BVCLVR	IV942T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BVCLVR	IV944T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BVCLVR	IV946T	0
1TB27-3	1CV3940	TURB BY VLV (TBV)	BV	C59400	C59400	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C59400	C59400	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	C59400	C59400	0
1TB27-3	1CV3942	TURB BY VLV (TBV)	BV	C59420	C59420	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C59420	C59420	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	C59420	C59420	0
1TB27-3	1CV3944	TURB BY VLV (TBV)	BV	C59440	C59440	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C59440	C59440	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	C59440	C59440	0
1TB27-3	1CV3946	TURB BY VLV (TBV)	BV	C59460	C59460	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C59460	C59460	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	C59460	C59460	0
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11B	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A119	1HXSICS11	11 SHUTDOWN COOLING HX	CS	CS0103	HXC11P	0
A119	1MOV663	SDC RECIRC TO 11 HPSI PP	CS	CS0103	MV663T	0
A119	1CV3828	11 SDC HX OUTLET	CS	CSHX11	CV828P	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CSHX11	CV828P	0
A119	1CV3828	11 SDC HX OUTLET	CS	CV828O	CV828O	0
A119	1SV3828	S/D HX 11 COOL WTR DISCH VLV	CS	CV828O	CV828O	0
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107R	MA107R	12
A119	1PUMPSICS11	11 CONTAINMENT SPRAY PUMP (1MA107)	CS	MA107S	MA107S	12
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12B	0
A118	1HXSICS12	12 SHUTDOWN COOLING HX	CT	CT0103	HXC12P	0
A118	1MOV662	SDC RECIRC TO 13 HPSI PP	CT	CT0103	MV662T	0
A118	1CV3830	12 SDC HX OUTLET	CT	CTXH12	CV830P	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CTXH12	CV830P	0
A118	1CV3830	12 SDC HX OUTLET	CT	CV830O	CV830O	0
A118	1SV3830	S/D HX #12 COMP CLG DISCH VLV	CT	CV830O	CV830O	0
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407R	MA407R	12
A118	1PUMPSICS12	12 CONTAINMENT SPRAY PUMP (1MA407)	CT	MA407S	MA407S	12
A115A	1ACCSTABILIZER11	11 CVC SUCTION STABILIZER	CV	CVCK02	TK011B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK02	TK11BB	0
A115B	1ACCSTABILIZER12	12 CVC SUCTION STABILIZER	CV	CVCK04	TK012B	0
A115A	1ACC233X	11 CVC CHG PUMP DESURGER	CV	CVCK04	TK12BB	0
A115C	1ACCSTABILIZER13	13 CVC SUCTION STABILIZER	CV	CVCK05	TK013B	0
A115C	1ACC233Z	13 CVC CHG PUMP DESURGER	CV	CVCK05	TK13BB	0
A218	1CV500	VOL CONT TNK INLT VLV	CV	CVHV03	CV500O	0
A218	1LC227A	VOLUME CONTROL TNK LEVEL HIGH	CV	CVHV03	CV500O	0
A218	1SV500	VOL CONT TANK INLET CONT VLV	CV	CVHV03	CV500O	0
A218	1CV500	VOL CONT TNK INLT VLV	CV	CVHV03	CV500P	0
A218	1LC227A	VOLUME CONTROL TNK LEVEL HIGH	CV	CVHV03	CV500P	0
A218	1SV500	VOL CONT TANK INLET CONT VLV	CV	CVHV03	CV500P	0
A217	1MOV514	BAPP TO CHG PP SUCT DIRECT FD	CV	CVMV01	MV514O	6
A217	1MOV514	BAPP TO CHG PP SUCT DIRECT FD	CV	CVMV01	MV514P	6
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501C	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501T	0
A115B	1MOV501	VCT OUTLET ISOL	CV	CVMV02	MV501X	0
A103	1PS224Y	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY02	PS24YR	0
A103	1PS224Z	CHRG PUMP LOW SUCTION PRESS TRIP	CV	CVRY05	PS24ZR	0
A103	1PS224ZA	CHRG PUMP LOW SUCT PRESS TRIP	CV	CVRY06	PS24ZR	0
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011R	MC011R	12
A115A	1PUMPCVCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	CV	MC011S	MC011S	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012R	MC012R	12
A115B	1PUMPCVCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	CV	MC012S	MC012S	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013R	MC013R	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013R	MC013R	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	CV	MC013S	MC013S	0
A115C	1PUMPCVCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	CV	MC013S	MC013S	12
A217	1PUMPCVCSBA11	11 CVC BORIC ACID PUMP (1M1406)	CV	MP011R	MP011R	12
A217	1PUMPCVCSBA11	11 CVC BORIC ACID PUMP (1M1406)	CV	MP011S	MP011S	12
A217	1PUMPCVCSBA12	12 CVC BORIC ACID PUMP (1M0406)	CV	MP012R	MP012R	12
A217	1PUMPCVCSBA12	12 CVC BORIC ACID PUMP (1M0406)	CV	MP012S	MP012S	12
A217	1MOV508	12 BAST GRAVITY FD	CV	MV508O	MV508O	6
A217	1MOV508	12 BAST GRAVITY FD	CV	MV508P	MV508P	6
A217	1MOV509	11 BAST GRAVITY FD	CV	MV509O	MV509O	6
A217	1MOV509	11 BAST GRAVITY FD	CV	MV509P	MV509P	6
A103	1PS224X	CHARGING PUMP LOW SUCTION PRESS TRIP	CV	PS224R	PS224R	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615O	19
A227	1MOV615	11A LPSI LOOP ISOL	DL	DLL11A	MV615P	19
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625O	0
A227	1MOV625	11B LPSI LOOP ISOL	DL	DLL11B	MV625P	0
A226	1CV4522	11 S/G AFW BLOCK VLV	F1	CV4522	CV522P	40
A226	1SV4522	11 S/G AFW BLOCK SV	F1	CV4522	CV522P	0
A226	1CV4523	11 S/G AFW BLOCK VLV	F1	CV4523	CV523P	144
A226	1SV4523	11 S/G AFW BLOCK SV	F1	CV4523	CV523P	0
A226	1CV4532	12 S/G AFW BLOCK VLV	F1	CV4532	CV532P	40
A226	1SV4532	12 S/G AFW BLOCK SV	F1	CV4532	CV532P	0
A226	1CV4533	12 S/G AFW BLOCK VLV	F1	CV4533	CV533P	144
A226	1SV4533	12 S/G AFW BLOCK SV	F1	CV4533	CV533P	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070O	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F1	F1CV70	C8070P	0
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071O	0
A227	1SV4071	12 S/G MS TO AFW PP	F1	F1CV71	C8071P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	F1	F1MLV1	C6525P	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	F1	F1MLV1	C6525R	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	F1	F1MLV1	C6525R	0
A226	1CV4535	12 S/G AFW FLOW CONT VLV	F1	F1MLV2	C6535P	144
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535P	0
A226	1CV4535	12 S/G AFW FLOW CONT VLV	F1	F1MLV2	C6535R	144
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	F1	F1MLV2	C6535R	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	F3	BHEF31	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	F3	BHEF31	Open	0
A226	1CV4550	U-1 TO U-2 AFW X-CONN VLV	F7	F7MPVA	C3550T	144
A226	1SV4550	U-1 TO U-2 AFW X-CONN SV	F7	F7MPVA	C3550T	0
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QR	MA13QR	16
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	F7	MA13QS	MA13QS	16
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	CVB22C	CVB22C	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB22C	CVB22C	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	CVB23C	CVB23C	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	CVB23C	CVB23C	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	CVB32C	CVB32C	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB32C	CVB32C	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	CVB33C	CVB33C	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	CVB33C	CVB33C	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50O	144
A205	2SV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50O	0
A205	2CV4550	U-2 TO U-1 AFW XCONN VLV	F9	F9M2VA	C3B50P	144
A205	2SV4550	U-2 AUX FEED X-CONN VLV	F9	F9M2VA	C3B50P	0
A205	2CV4522	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB22T	40
A205	2SV4522	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB22T	0
A205	2CV4523	21 S/G AFW BLOCK VLV	F9	F9M2VA	CVB23T	144
A205	2SV4523	S/G 21 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB23T	0
A205	2CV4532	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB32T	40
A205	2SV4532	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB32T	0
A205	2CV4533	22 S/G AFW BLOCK VLV	F9	F9M2VA	CVB33T	144
A205	2SV4533	S/G 22 AFW MOTOR SYS ISOL VLV	F9	F9M2VA	CVB33T	0
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QR	MA23QR	16
A205	2PUMPAFWMD23	23 AUX FW MTR DRIVEN PP (2MA415)	F9	MA23QS	MA23QS	16

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE
1TB12-1	1AFWDOORS	AFW DOUBLE DOORS	FC	Dummy	N/A	0
1TB27-1	1MCC101BT	MCC 101BT	FC	FC1MCC	BU1BTR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	FC	FC1MCC	CB141T	0
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11R	0
T603	1HXHVACAFW11	11 AFW PUMP ROOM	FC	FCAC11	CLA11S	0
A225	1HS5472	MCC-101-BT BKR 52-10150 AFW PP RM A/C UNIT 11	FC	FCAC11	HS472T	0
A225	1HS5470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470D	18
A225	1HS5470	AFW PP RM EMERG VENT FAN 11 MCC-114-12	FC	FCAUX1	HS470T	18
A225	1HS5471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471D	18
A225	1HS5471	AFW PP RM EMERG VENT FAN 12 MCC-104-12	FC	FCAUX2	HS471T	18
1TB12	1PCV1600	AUX FD PP RM CLR TEMP REG VLV	FC	FCSRWC	CV600P	0
T603	1FDAFWW1	AFW RM SUPPLY FROM RM 225 TO 1AFW FD	FC	FDAMPR	FD001I	0
1TB12-1	1FDTB12W1	AFW RM SUPPLY FROM AFW TO TB12 FD	FC	FDAMPR	FD002I	0
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	FC	VDA11R	VDA11R	36
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	FC	VDA11S	VDA11S	36
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	FC	VDA12R	VDA12R	36
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	FC	VDA12S	VDA12S	36
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	FF	BHEFCB	Start	36
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	FF	BHEFCB	Start	36
A226	1PUMPAFWMD13	13 AUX FW MTR DRIVEN PP (1MA116)	FH	BHEF71	Start	16
1TB12	1PCV4510	11A AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV510P	0
A226	1PCV4512	1 IA SUPP ACCUM 11A & 11B PCV	FN	FN0000	CV512P	0
A226	1PCV4520	11B AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV520P	0
A205	2COMPSWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21R	144
A205	2COMPSWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	FO	UNIT 2	CMS21S	144
A205	2COMPSWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22R	144
A205	2COMPSWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	FO	UNIT 2	CMS22S	144
A205	2LS5200	21 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS200R	144
A205	2LS5201	22 IA SW AIR COMPR OIL LO LVL SW	FO	UNIT 2	LS201R	144
A205	2TS5200	21 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS200R	144
A205	2TS5201	22 IA SW AIR COMPR HI TEMP SW	FO	UNIT 2	TS201R	144
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	FT	FTFW30	SV010D	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	FT	FTFW40	SV059D	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCO	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCT	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HCO	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HST	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCT	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LSO	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LST	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCT	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HSO	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HST	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCT	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LSO	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LST	0
A224	1CV1645	1B DG SUPP FROM U-1 SRW	GG	GGSRW1	CVA45P	6
A224	1CV1646	1B DG RTN TO U-1 SRW	GG	GGSRW1	CVA46P	6
A205	2CV5212	22 SRW HX SW OUT CV	GW	C2S120	C2S120	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	C2S120	C2S120	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S120	C2S120	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	C2S120	C2S120	0
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22R	MWT22R	32

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A205	2PUMPSRW22	22 SERVICE WATER PUMP (2MA409)	GW	MWT22S	MWT22S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GW	MWT23S	MWT23S	32
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GW	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GW	S7TBAL	ATI22R	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	GW	S7TBAL	ATP21R	0
A205	2CV5152	22 SRW HX SW INLET	GW	S8CV52	C1S52P	60
A205	2SV5152	SERV WTR HTEX 22 SALT WTR INLT	GW	S8CV52	C1S52P	0
A205	2CV5153	22 SRW HX SW NORM B/U OUTLET	GW	S8H2CV	C1S53P	20
A205	2SV5153	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C1S53P	0
A205	2CV5212	22 SRW HX SW OUT CV	GW	S8H2CV	C2S12P	48
A205	2I/P5212	SALT WTR OUT SERV WTR HTEX	GW	S8H2CV	C2S12P	0
A205	2SV5212	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2SV5212A	SERV WTR HTEX 22 SALT WTR OUT	GW	S8H2CV	C2S12P	0
A205	2HXSRW22	22 SRW HX	GW	S8HX22	HXS22B	144
A205	2HXSRW22	22 SRW HX	GW	S8HX22	HXS22P	144
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21R	MWT21R	32
A205	2PUMPSRW21	21 SERVICE WATER PUMP (2MA109)	GZ	MWT21S	MWT21S	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23R	MWT23R	32
A205	2PUMPSRW23	23 SERVICE WATER PUMP (2MA411)	GZ	MWT23S	MWT23S	32
A205	2CV5150	21 SRW HX SW INLET	GZ	S7H2CV	C1S50P	60
A205	2SV5150	SERV WTR HTEX 21 SALT WTR INLT	GZ	S7H2CV	C1S50P	0
A205	2CV5210	21 SRW HX SW OUTLET CV	GZ	S7H2CV	C2S10P	60
A205	2I/P5210	SALT WTR OUT SERV WTR HTEX	GZ	S7H2CV	C2S10P	0
A205	2SV5210	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2SV5210A	SERV WTR HTEX 21 SALT WTR OUT	GZ	S7H2CV	C2S10P	0
A205	2HXSRW21	21 SRW HX	GZ	S7HX21	HXS21B	144
A205	2HXSRW21	21 SRW HX	GZ	S7HX21	HXS21P	144
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI22R	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	GZ	S7TBAL	ATP21R	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1AP	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BB	0
A119	1HX108	#11 BEARING COOLER	HA	HA1CCW	HXB1BP	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AB	0
A119	1HXSTF/BOX11A	HPSI PUMP 11	HA	HA1CCW	HXS1AP	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BB	0
A119	1HXSTF/BOX11B	HPSI PUMP 11	HA	HA1CCW	HXS1BP	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1B	0
A119	1HX109	#11 HPSI PP SEAL COOLER	HA	HA1CCW	HXSC1P	0
A119	1MOV656	AUX HPSI HDR ISOL	HA	HADISA	MV656P	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011R	MA011R	24
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	HA	MA011S	MA011S	24
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3AP	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BB	0
A118	1HX110	#13 BEARING COOLER	HB	HB3CCW	HXB3BP	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AB	0
A118	1HXSTF/BOX13A	HPSI PUMP 13	HB	HB3CCW	HXS3AP	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BB	0
A118	1HXSTF/BOX13B	HPSI PUMP 13	HB	HB3CCW	HXS3BP	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3B	0
A118	1HX111	#13 HPSI PP SEAL COOLER	HB	HB3CCW	HXSC3P	0
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013R	MA013R	12
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	HB	MA013S	MA013S	12

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A118	1MOV654	HPSI HDR ISOL	HB	MV654P	MV654P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	HU	BHEF1B	Throttle	144
A226	1CV4535	12 S/G AFW FLOW CONT VLV	HU	BHEF1B	Throttle	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HU	BHEF1B	Throttle	0
A118	1PUMPHPSI12	12 HIGH PRESS SAFETY INJECTION PUMP	HW	BHEHW1	Start	12
A119	1MOV656	AUX HPSI HDR ISOL	HW	HADISA	MV656P	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2AP	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BB	0
A119	1HX408	#12 HPSI PP BRG COOLER	HW	HW1CCW	HXB2BP	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AB	0
A118	1HXSTF/BOX12A	HPSI PUMP 12	HW	HW1CCW	HXS2AP	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BB	0
A118	1HXSTF/BOX12B	HPSI PUMP 12	HW	HW1CCW	HXS2BP	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2B	0
A119	1HX409	#12 HPSI PP SEAL COOLER	HW	HW1CCW	HXSC2P	0
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012R	MA012R	24
A119	1PUMPSIHP12	12 HIGH PRESS SAFETY INJECTION PUMP (1MA408)	HW	MA012S	MA012S	24
A118	1MOV653	HPSI HDR X-CONN	HW	MV653O	MV653O	0
A118	1MOV653	HPSI HDR X-CONN	HW	MV653P	MV653P	0
A118	1MOV654	HPSI HDR ISOL	HW	MV654P	MV654P	0
A119	1MOV655	HPSI HDR X-CONN	HW	MV655P	MV655P	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	HX	BHEF1A	Throttle	144
A226	1CV4535	12 S/G AFW FLOW CONT VLV	HX	BHEF1A	Throttle	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	HX	BHEF1A	Throttle	0
A226	1COMPSWAC11	11 SW AIR COMPRESSOR (1M1404)	I1	CMS11R	CMS11R	144
A226	1COMPSWAC11	11 SW AIR COMPRESSOR (1M1404)	I1	CMS11S	CMS11S	144
A226	1LS5200	11 IA SW AIR COMP LS	I1	I1CNTL	LS200R	144
A226	1TS5200	11 IA SW AIR COMP TS	I1	I1CNTL	TS200R	144
A226	1COMPSWAC12	12 SW AIR COMPRESSOR (1M0404)	I2	CMS12R	CMS12R	144
A226	1COMPSWAC12	12 SW AIR COMPRESSOR (1M0404)	I2	CMS12S	CMS12S	144
A226	1LS5201	12 IA SW AIR COMP LS	I2	I2CNTL	LS201R	144
A226	1TS5201	12 IA SW AIR COMP TS	I2	I2CNTL	TS201R	144
A228	1ACC5170	AIR ACCUMULATOR FOR 1CV5170	IL	ILIA99	TK170B	0
A228	1ACC5171	AIR ACCUMULATOR FOR 1CV5171	IL	ILIA99	TK171B	0
A228	1ACC5174	AIR ACCUMULATOR FOR 1CV5174	IL	ILIA99	TK174B	0
A228	1ACC5175	AIR ACCUMULATOR FOR 1CV5175	IL	ILIA99	TK175B	0
A228	1ACC5177	AIR ACCUMULATOR FOR 1CV5177	IL	ILIA99	TK177B	0
A228	1ACC5178	AIR ACCUMULATOR FOR 1CV5178	IL	ILIA99	TK178B	0
A228	1ACC5173	AIR ACCUMULATOR FOR 1CV5173	IN	INIA99	TK173B	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	IP	IPIA99	TK11B	0
A224	1ACC1645	AIR ACCUMULATOR FOR 1CV1645	IP	IPIA99	TK645B	0
A224	1ACC1646	AIR ACCUMULATOR FOR 1CV1646	IP	IPIA99	TK646B	0
A228	1CV5160	11 CC HX SW INLET	K3	C11600	C11600	0
A228	1SV5160	COMP CLG HTEX 11 SALT WTR INLT	K3	C11600	C11600	0
A228	1CV5206	11 CC HX SW OUTLET	K3	C22060	C22060	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	K3	C22060	C22060	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	K3	C22060	C22060	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	K3	C22060	C22060	0
A226	1CV5210	11 SRW HX SW OUTLET CV	K3	C2210C	C2210C	60

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	C2210C	C2210C	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	C2210C	C2210C	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	C2210C	C2210C	0
A226	1ZC5210	1CV5210 POSITIONER	K3	C2210C	C2210C	0
A228	1CV3823	11 CC HX TEMP CONT BYP	K3	CT823R	CT823R	0
A228	1TIC3823	11 CC HX BYP VLV TEMP CONTL	K3	CT823R	CT823R	0
A226	1CV5210	11 SRW HX SW OUTLET CV	K3	K3CLOS	C2210T	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	K3	K3CLOS	C2210T	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	K3	K3CLOS	C2210T	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	K3	K3CLOS	C2210T	0
A226	1ZC5210	1CV5210 POSITIONER	K3	K3CLOS	C2210T	0
A228	1CV3823	11 CC HX TEMP CONT BYP	K3	K3COMP	CT823T	0
A228	1TIC3823	11 CC HX BYP VLV TEMP CONTL	K3	K3COMP	CT823T	0
A228	1CV5160	11 CC HX SW INLET	K3	K3OTLT	C1160P	0
A228	1SV5160	COMP CLG HTEX 11 SALT WTR INLT	K3	K3OTLT	C1160P	0
A228	1CV5206	11 CC HX SW OUTLET	K3	K3OTLT	C2206P	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	K3	K3OTLT	C2206P	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	K3	K3OTLT	C2206P	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	K3	K3OTLT	C2206P	0
A228	1CV5162	12 CC HX SW INLET	K4	C1162O	C1162O	0
A228	1SV5162	COMP CLG HTEX 12 SALT WTR INLT	K4	C1162O	C1162O	0
A228	1CV5163	12 CC HX SW NORM B/U OUTLET	K4	C1163O	C1163O	0
A228	1SV5163	COMP CLG HTEX 12 SALT WTR OUT	K4	C1163O	C1163O	0
A228	1CV5208	12 CC HX SW NORM OUT	K4	C2208O	C2208O	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	K4	C2208O	C2208O	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	K4	C2208O	C2208O	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	K4	C2208O	C2208O	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	C2212C	C2212C	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	C2212C	C2212C	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	C2212C	C2212C	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	C2212C	C2212C	0
A226	1ZC5212	1CV5212 POSITIONER	K4	C2212C	C2212C	0
A228	1CV3825	12 CC HX TEMP CONT BYP	K4	CT825R	CT825R	0
A228	1TIC3825	12 CC HX BYP VLV TEMP CONTL	K4	CT825R	CT825R	0
A228	1CV3825	12 CC HX TEMP CONT BYP	K4	K4CMP1	CT825T	0
A228	1TIC3825	12 CC HX BYP VLV TEMP CONTL	K4	K4CMP1	CT825T	0
A228	1CV5162	12 CC HX SW INLET	K4	K4INLT	C1162P	0
A228	1SV5162	COMP CLG HTEX 12 SALT WTR INLT	K4	K4INLT	C1162P	0
A226	1CV5212	12 SRW HX SW OUT CV	K4	K4ISO1	C2212T	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	K4	K4ISO1	C2212T	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	K4	K4ISO1	C2212T	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	K4	K4ISO1	C2212T	0
A226	1ZC5212	1CV5212 POSITIONER	K4	K4ISO1	C2212T	0
A228	1CV5165	12 CC HX SW AUX OUT	K4	K4OPN2	C4165O	0
A228	1SV5165	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4165O	0
A228	1CV5165	12 CC HX SW AUX OUT	K4	K4OPN2	C4165P	0
A228	1SV5165	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4165P	0
A228	1CV5166	12 CC HX SW AUX B/U OUTLET	K4	K4OPN2	C4166O	0
A228	1SV5166	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4166O	0
A228	1CV5166	12 CC HX SW AUX B/U OUTLET	K4	K4OPN2	C4166P	0
A228	1SV5166	COMP CLG HTEX 12 SALT WTR OUT	K4	K4OPN2	C4166P	0
A228	1CV5163	12 CC HX SW NORM B/U OUTLET	K4	K4OTLT	C1163P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A228	1SV5163	COMP CLG HTEX 12 SALT WTR OUT	K4	K40TLT	C1163P	0
A228	1CV5208	12 CC HX SW NORM OUT	K4	K40TLT	C2208P	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	K4	K40TLT	C2208P	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	K4	K40TLT	C2208P	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	K4	K40TLT	C2208P	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	K5	K5FIRE	K5FHSF	0
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KH(PP1)	BHEK31	Start	12
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KH(PP1)	BHEKZ1	Start	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KH(PP2)	BHEK31	Start	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KH(PP2)	BHEKZ1	Start	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KH(PP3)	BHEK31	Start	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KH(PP3)	BHEKZ1	Start	12
A228	1CV3826	12 CC HX OUTLET	KI(HX1)	BHEK31	Close	0
A228	1CV5208	12 CC HX SW NORM OUT	KI(HX1)	BHEK31	Close	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	KI(HX1)	BHEK31	Close	0
A228	1SV3826	COMP CLG HTEX 12 DISCH CONTROL	KI(HX1)	BHEK31	Close	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	KI(HX1)	BHEK31	Close	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	KI(HX1)	BHEK31	Close	0
A228	1CV3824	11 CC HX OUTLET	KI(HX1)	BHEK31	Open	0
A228	1SV3824	COMP CLG HX 11 DISCH CONTROL	KI(HX1)	BHEK31	Open	0
A228	1CV5206	11 CC HX SW OUTLET	KI(HX1)	BHEK31	Throttle	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	KI(HX1)	BHEK31	Throttle	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	KI(HX1)	BHEK31	Throttle	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	KI(HX1)	BHEK31	Throttle	0
A228	1CV3824	11 CC HX OUTLET	KI(HX2)	BHEK31	Close	0
A228	1CV5206	11 CC HX SW OUTLET	KI(HX2)	BHEK31	Close	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	KI(HX2)	BHEK31	Close	0
A228	1SV3824	COMP CLG HX 11 DISCH CONTROL	KI(HX2)	BHEK31	Close	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	KI(HX2)	BHEK31	Close	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	KI(HX2)	BHEK31	Close	0
A228	1CV3826	12 CC HX OUTLET	KI(HX2)	BHEK31	Open	0
A228	1SV3826	COMP CLG HTEX 12 DISCH CONTROL	KI(HX2)	BHEK31	Open	0
A228	1CV5208	12 CC HX SW NORM OUT	KI(HX2)	BHEK31	Throttle	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	KI(HX2)	BHEK31	Throttle	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	KI(HX2)	BHEK31	Throttle	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	KI(HX2)	BHEK31	Throttle	0
A228	1HXCC11	11 COMPONENT COOLING WTR	KM	HXC11B	HXC11B	13
A228	1CV3823	11 CC HX TEMP CONT BYP	KM	KMBYPS	CT823P	0
A228	1TIC3823	11 CC HX BYP VLV TEMP CONTL	KM	KMBYPS	TC823R	0
A228	1CV3824	11 CC HX OUTLET	KM	KMCV24	CV824P	0
A228	1SV3824	COMP CLG HX 11 DISCH CONTROL	KM	KMCV24	CV824P	0
A228	1HXCC11	11 COMPONENT COOLING WTR	KM	KMPATH	HXC11P	13
A228	1HXCC12	12 COMPONENT COOLING WTR	KN	HXC12B	HXC12B	13
A228	1CV3825	12 CC HX TEMP CONT BYP	KN	KNBYPS	CT825P	0
A228	1TIC3825	12 CC HX BYP VLV TEMP CONTL	KN	KNBYPS	TC825R	0
A228	1CV3826	12 CC HX OUTLET	KN	KNCV26	CV826P	0
A228	1SV3826	COMP CLG HTEX 12 DISCH CONTROL	KN	KNCV26	CV826P	0
A228	1HXCC12	12 COMPONENT COOLING WTR	KN	KNPATH	HXC12P	13
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KX	MZC11R	MZC11R	12
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	KX	MZC11S	MZC11S	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KY	MZC12R	MZC12R	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	KY	MZC12S	MZC12S	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KZ	MZC13R	MZC13R	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	KZ	MZC13S	MZC13S	12
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105O	C3105O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106P	C3106P	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1CV4405	HOTWELL TO COND STORAGE VLV	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1I/P4405	HOTWELL TO COND STORAGE CONT	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	LF	LFMUCV	LT405R	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BP	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	LF	RY83AT	RY83AT	0
A226	1COMPSWAC12	12 SW AIR COMPRESSOR (1M0404)	M1	CMM04Q	CMM04Q	144
A217	1U0409	11 BA TK HTR B	M1	HTM09Q	HTM09Q	6
A217	1U0434	12 BA TK HTR B	M1	HTM34Q	HTM34Q	6
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	M1	M1FPPR	VD48AQ	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	M1	M1FPPR	VD48BQ	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	M1	M1FPPR	VD48CQ	22
A217	1PUMPCVCBA12	12 CVC BORIC ACID PUMP (1M0406)	M1	MBM06Q	MBM06Q	12
A118	1MOV654	HPSI HDR ISOL	M1	MVM21Q	MVM21Q	0
A118	1MOV653	HPSI HDR X-CONN	M1	MVM22Q	MVM22Q	0
A217	1MOV514	BAPP TO CHG PP SUCT DIRECT FD	M1	MVM25Q	MVM25Q	6
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	M1	MVM30Q	MVM30Q	0
A118	1MOV660	MINI FLOW RETN TO RWT	M1	MVM32Q	MVM32Q	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	M1	MVM44Q	MVM44Q	0
A225	1FANHACPENETE12	12 PENET RM EXH FAN (1M0402)	M1	VDM02Q	VDM02Q	18.75
A225	1FANHVACAFWE12	12 AFW PUMP RM EXH (1M0412)	M1	VDM12Q	VDM12Q	36
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	M1	VDM13Q	VDM13Q	0
A226	1FAN5334	SRW HX RM EXH FAN 18B (1M0451)	M1	VDM51Q	VDM51Q	0
A226	1COMPSWAC11	11 SW AIR COMPRESSOR (1M1404)	M2	CMN04Q	CMN04Q	144
A217	1U1409	11 CVC BA TK HTR A	M2	HTN09Q	HTN09Q	6
A217	1U1434	12 BA TK HTR A	M2	HTN34Q	HTN34Q	6
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	M2	M2FPPR	VD48AQ	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	M2	M2FPPR	VD48BQ	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	M2	M2FPPR	VD48CQ	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	M2	M2FPPR	VD48DQ	22
A217	1PUMPCVCBA11	11 CVC BORIC ACID PUMP (1M1406)	M2	MBN06Q	MBN06Q	12
A111	OPUMP6552	1PNL1C140 SAMPLE PUMP	M2	MBN40Q	MBN40Q	0
A227	1MOV615	11A LPSI LOOP ISOL	M2	MVN07Q	MVN07Q	19
A227	1MOV625	11B LPSI LOOP ISOL	M2	MVN08Q	MVN08Q	0
A119	1MOV656	AUX HPSI HDR ISOL	M2	MVN21Q	MVN21Q	0
A119	1MOV655	HPSI HDR X-CONN	M2	MVN22Q	MVN22Q	0
A218	1MOV504	RWT TO CHG PP	M2	MVN23Q	MVN23Q	19
A217	1MOV509	11 BAST GRAVITY FD	M2	MVN24Q	MVN24Q	6
A217	1MOV508	12 BAST GRAVITY FD	M2	MVN30Q	MVN30Q	6
A115B	1MOV501	VCT OUTLET ISOL	M2	MVN31Q	MVN31Q	0
A118	1MOV659	MINI FLOW RETN TO RWT	M2	MVN32Q	MVN32Q	0
A224	1MOV399	SDC HX RECIRC STOP	M2	MVN37Q	MVN37Q	6

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A122	1MOV4144	CONTMT SUMP OUT ISOL	M2	MVN44Q	MVN44Q	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	M2	MVN57Q	MVN57Q	0
A115A	1MOV269	SI DISCH TO CHG HDR CORE FLUSH ISOL	M2	MVN64Q	MVN64Q	0
A217	1X11	1 CVC BA HEAT TRACING XFMR	M2	TMN33Q	TMN33Q	6
A225	1FANHVACPENETE11	11 PENET RM EXH FAN (1M1402)	M2	VDN02Q	VDN02Q	18.75
A225	1FANHVACAFWE11	11 AFW PUMP RM EXH (1M1412)	M2	VDN12Q	VDN12Q	36
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	M2	VDN13Q	VDN13Q	0
A226	1FAN5335	SRW HTEX RM FAN VU-18A (1M1441)	M2	VDN41Q	VDN41Q	0
A215	2U0409	21 CVC BA TK HTR B	M3	HTO09Q	HTO09Q	0
A215	2U0434	22 CVC BA TK HTR B	M3	HTO34Q	HTO34Q	0
A102	2FAN0448A	ECCS PP RM CLR 22 FAN A (2M0448A)	M3	M3FPPR	VD48AQ	22
A102	2FAN0448B	ECCS PP RM CLR 22 FAN B (2M0448B)	M3	M3FPPR	VD48BQ	22
A102	2FAN0448C	ECCS PP RM CLR 22 FAN C (2M0448C)	M3	M3FPPR	VD48CQ	22
A205	2COMPSWAC22A	22 SW AIR COMPRESSOR MOTOR A (2M0405A)	M3	M3FSWC	CMO5AQ	144
A205	2COMPSWAC22B	22 SW AIR COMPRESSOR MOTOR B (2M0405B)	M3	M3FSWC	CMO5BQ	144
A215	2PUMPCVCBA22	22 CVC BORIC ACID PUMP (2M0406)	M3	MBO06Q	MBO06Q	6
A111	0PUMP6521	1PNL1C139 SAMPLE PUMP	M3	MBO59Q	MBO59Q	0
A102	2MOV654	HPSI HDR ISOL	M3	MVO21Q	MVO21Q	0
A102	2MOV653	HPSI HDR X-CONN	M3	MVO22Q	MVO22Q	0
A215	2MOV514	BAPP'S TO CHG PP SUCT DIRECT FD	M3	MVO25Q	MVO25Q	0
A120	2MOV5483	U-2 CONTMT RECIRC PIPE TUNNEL	M3	MVO30Q	MVO30Q	0
A102	2MOV660	MINI FLOW RETN TO RWT	M3	MVO32Q	MVO32Q	0
A120	2MOV4145	CONTMT SUMP OUTLET ISOL	M3	MVO44Q	MVO44Q	0
A105B	2MOV269	SI TO CHG HDR CORE FLUSH	M3	MVO57Q	MVO57Q	0
A203	2MOV399	SDC HX RECIRC ISOL	M3	MVO58Q	MVO58Q	6
A204	2FANHVACPENETE22	22 PENET RM EXH FAN (2M1402)	M3	VDO02Q	VDO02Q	18.75
A204	2FANHVACAFWE22	22 AFW PUMP RM EXH (2M0412)	M3	VDO12Q	VDO12Q	36
A204	2FANHVACECCSE22	22 ECCS PUMP RM EXH (2M0413)	M3	VDO13Q	VDO13Q	0
A205	2FAN5334	SRW HX RM EXH FAN 19B (2M0451)	M3	VDO51Q	VDO51Q	0
A215	2U1409	21 CVC BA TK HTR A	M4	HTN09Q	HTN09Q	0
A215	2U1434	22 CVC BA TK HTR A	M4	HTN34Q	HTN34Q	0
A205	2COMPSWAC21A	21 SW AIR COMPRESSOR MOTOR A (2M1405A)	M4	M4FCRC	CM05AQ	144
A205	2COMPSWAC21B	21 SW AIR COMPRESSOR MOTOR B (2M1405B)	M4	M4FCRC	CM05BQ	144
A101	2FAN1448A	ECCS PP RM CLR 21 FAN A (2M1448A)	M4	M4FPPR	VD48AQ	72
A101	2FAN1448B	ECCS PP RM CLR 21 FAN B (2M1448B)	M4	M4FPPR	VD48BQ	72
A101	2FAN1448C	ECCS PP RM CLR 21 FAN C (2M1448C)	M4	M4FPPR	VD48CQ	72
A101	2FAN1448D	ECCS PP RM CLR 21 FAN D (2M1448D)	M4	M4FPPR	VD48DQ	72
A215	2PUMPCVCBA21	21 CVC BORIC ACID PUMP (2M1406)	M4	MBN06Q	MBN06Q	6
A206	2MOV615	21B LPSI OUTLET MOV	M4	MVN07Q	MVN07Q	24
A206	2MOV625	21A LPSI LOOP ISOL	M4	MVN08Q	MVN08Q	24
A101	2MOV856	AUX HPSI HDR ISOL	M4	MVN21Q	MVN21Q	54
A101	2MOV655	HPSI HDR X-CONN	M4	MVN22Q	MVN22Q	48
A212	2MOV504	RWT TO CHG PP	M4	MVN23Q	MVN23Q	24
A215	2MOV509	21 BAST GRAVITY FD	M4	MVN24Q	MVN24Q	0
A215	2MOV508	22 BAST GRAVITY FD	M4	MVN30Q	MVN30Q	0
A105B	2MOV501	VCT OUTLET ISOL	M4	MVN31Q	MVN31Q	32
A102	2MOV659	MINI FLOW RETN TO RWT	M4	MVN32Q	MVN32Q	0
A120	2MOV4144	CONTMT SUMP OUTLET ISOL	M4	MVN44Q	MVN44Q	0
A120	2MOV5462	U-2 CONTMT RECIRC PIPE TUNNEL	M4	MVN57Q	MVN57Q	0
A215	2X11	BA HEAT TRACE XFMR 21	M4	TMN04Q	TMN04Q	0
A204	2FANHVACPENETE21	21 PENET RM EXH FAN (2M0402)	M4	VDN02Q	VDN02Q	18.75
A204	2FANHVACAFWE21	21 AFW PUMP RM EXH (2M1412)	M4	VDN12Q	VDN12Q	36
A204	2FANHVACECCSE21	21 ECCS PUMP RM EXH (2M1413)	M4	VDN13Q	VDN13Q	0
A205	2FAN5335	SRW HX RM SPLY FAN 19A (2M1437)	M4	VDN37Q	VDN37Q	0
1TB27-1	1MCC106T	MCC 106T	M7	BU213Q	BU213Q	0
1TB27-1	1MCC106T	MCC 106T	M7	BUM06R	BUM06R	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-2 (CP)	1PNL1C51	11A AMERTAP CNTL PNL 1C51	M7	BUP23Q	BUP23Q	0
1TB12-2 (CP)	1PNL1C52	11B AMERTAP CNTL PNL 1C52	M7	BUP24Q	BUP24Q	0
1TB12-2 (CP)	1PNL1C53	12A AMERTAP CNTL PNL 1C53	M7	BUP25Q	BUP25Q	0
1TB27-1	1BKR52-10602	MCC 106T CIRC H2O PP DISCH 1MOV-5225 BKR	M7	CBP02O	CBP02O	0
1TB27-1	1BKR52-10603	MCC 106T CIRC H2O PP 12 DISCH 1MOV-5229 BKR	M7	CBP03O	CBP03O	0
1TB27-1	1BKR52-10604	MCC 106T CIRC H2O PP 13 DISCH 1MOV-5233 BKR	M7	CBP04O	CBP04O	0
1TB27-1	1BKR52-10605	MCC 106T WELDING RECEPTACLES 1W40-1W43	M7	CBP05O	CBP05O	0
1TB27-1	1BKR52-10606	MCC 106T WELDING RECEPTACLES 1W44-1W47	M7	CBP06O	CBP06O	0
1TB27-1	1BKR52-10607	MCC 106T COND PP 11 LUBE OIL PP BKR	M7	CBP07O	CBP07O	0
1TB27-1	1BKR52-10608	MCC 106T CIRC WTR PRIMING PP 11 BKR	M7	CBP08O	CBP08O	0
1TB27-1	1BKR52-10609	MCC 106T CIRC WTR PRIMING PP 12 BKR	M7	CBP09O	CBP09O	0
1TB27-1	1BKR52-10610	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 1	M7	CBP10O	CBP10O	0
1TB27-1	1BKR52-10611	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 1	M7	CBP11O	CBP11O	0
1TB27-1	1BKR52-10612	MCC 106T SGFP 11 LUBE OIL CONDITIONER BKR	M7	CBP12O	CBP12O	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	M7	CBP13O	CBP13O	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	M7	CBP14O	CBP14O	0
1TB27-1	1BKR52-10615	SGFP 11 OIL VAPOR EXTRACTOR	M7	CBP15O	CBP15O	0
1TB27-1	1BKR52-10616	MCC 106T BEARING OIL VAPOR EXTR 11 BKR	M7	CBP16O	CBP16O	0
1TB27-1	1BKR52-10617	MCC 106T STM LEAD DRN 1MOV-4652(CV2) BKR	M7	CBP17O	CBP17O	0
1TB27-1	1BKR52-10618	MCC 106T STM LEAD DRN 1MOV-4651(CV4) BKR	M7	CBP18O	CBP18O	0
1TB27-1	1BKR52-10619	MCC 106T HYDRAULIC FLUID FILT PP 11 BKR	M7	CBP19O	CBP19O	0
1TB27-1	1BKR52-10620	MCC 106T MN OIL SEAL PP 11 (MN GEN)	M7	CBP20O	CBP20O	0
1TB27-1	1BKR52-10621	MCC 106T SEAL OIL RECIRC PP 11 BKR	M7	CBP21O	CBP21O	0
1TB27-1	1BKR52-10622	MCC 106T SEAL VACUUM PP 11 BKR	M7	CBP22O	CBP22O	0
1TB27-1	1BKR52-10623	MCC 106T 11A AMERTAP CONTR PNL 1C51 BKR	M7	CBP23O	CBP23O	0
1TB27-1	1BKR52-10624	MCC 106T 11B AMERTAP CONTR PNL 1C52	M7	CBP24O	CBP24O	0
1TB27-1	1BKR52-10625	MCC 106T 12A AMERTAP CONTR PNL 1C53 BKR	M7	CBP25O	CBP25O	0
1TB27-1	1BKR52-10626	MCC 106T UNIT HTR 9 BKR	M7	CBP26O	CBP26O	0
1TB27-1	1BKR52-10627	MCC 106T UNIT HTR 10 BKR	M7	CBP27O	CBP27O	0
1TB27-1	1BKR52-10628	MCC 106T SGFP 11 LP STOP VLV DRN B 1MOV-5090 B	M7	CBP28O	CBP28O	0
1TB27-1	1BKR52-10629	MCC 106T COMBINED CNTMT DRN 1MOV-4658(CV) BK	M7	CBP29O	CBP29O	0
1TB27-1	1BKR52-10630	GLAND SEAL STEAM SUPPLY VALVE 1-MOV-4659	M7	CBP30O	CBP30O	0
1TB27-1	1BKR52-10631	MCC 106T STM SEAL BY-PASS 1MOV-4656(S2) BKR	M7	CBP31O	CBP31O	0
1TB27-1	1BKR52-10632	MCC 106T STM SEAL UNLOADING 1MOV-4657(B) BKR	M7	CBP32O	CBP32O	0
1TB27-1	1BKR52-10633	MCC 106T STM PACK EXH 11 BKR	M7	CBP33O	CBP33O	0
1TB27-1	1BKR52-10635	MCC 106T AUX BOILER FUEL PP 11 BKR	M7	CBP35O	CBP35O	0
1TB27-1	1BKR52-10636	MCC 106T COND VACUUM RECIRC SEAL PP 11 BKR	M7	CBP36O	CBP36O	0
1TB27-1	1BKR52-10637	MCC 106T COND VACUUM RECIRC SEAL PP 12 BKR	M7	CBP37O	CBP37O	0
1TB27-1	1BKR52-10638	SGFP 11 LP STOP VLV DRN 1-MOV-5089	M7	CBP38O	CBP38O	0
1TB27-1	1BKR52-10639	LIGHTING XFMR (1L11/1L17) L-208-218	M7	CBP39O	CBP39O	0
1TB27-1	1BKR52-10640	MCC 106T SGFP 11 EXH 1MOV-3964 BKR	M7	CBP40O	CBP40O	0
1TB27-1	1BKR52-10642	MCC 106T UNIT HTR 11 BKR	M7	CBP42O	CBP42O	0
1TB27-1	1BKR52-10643	MCC 106T UNIT HTR 12 BKR	M7	CBP43O	CBP43O	0
1TB27-1	1BKR52-10644	MCC 106T SGFP 11 HP STOP VLV DRN B 1MOV-5088 B	M7	CBP44O	CBP44O	0
1TB27-1	1BKR52-10645	ROADWAY LIGHTING PANEL 1L54	M7	CBP45O	CBP45O	0
1TB27-1	1BKR52-10646	MCC 106T SGFP 11 HP STOP VLV DRN A 1MOV-5087 B	M7	CBP46O	CBP46O	0
1TB27-1	1BKR52-10647	DISTRIBUTION XFMR 16 480-208/120V	M7	CBP47O	CBP47O	0
1TB27-1	1BKR52-10648	MCC 106T UNIT HTR 13 BKR	M7	CBP48O	CBP48O	0
1TB27-1	1BKR52-10649	MCC 106T SGFP 11 1ST STG DRN 1MOV-5091 BKR	M7	CBP49O	CBP49O	0
1TB27-1	1BKR52-10651	MCC 106T RHT STM SUPP 1MOV-4026 BKR	M7	CBP51O	CBP51O	0
1TB27-1	1BKR52-10652	MCC 106T MS TO MS RHTR 11 1MOV-4018 BKR	M7	CBP52O	CBP52O	0
1TB27-1	1BKR52-10653	MCC 106T EXTRACT STM TO MS RHTR 11 1MOV-4019	M7	CBP53O	CBP53O	0
1TB27-1	1BKR52-10654	SMOKE REMOVAL DAMPER 0M05390 [CLOSED	M7	CBP54O	CBP54O	0
1TB27-1	1BKR52-10656	CR & CBL SPREADING RM CHILL WTR SUPP PP 11	M7	CBP56O	CBP56O	0
1TB27-1	1BKR52-10657	MCC 106T TURB BLDG SUPP FAN 13 BKR	M7	CBP57O	CBP57O	0
1TB27-1	1BKR52-10658	MCC 106T TURB BLDG SUPP FAN 14 BKR	M7	CBP58O	CBP58O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE
1TB27-1	1BKR52-10659	MCC 106T COND PP 11 FAN BKR	M7	CBP59O	CBP59O	0
1TB27-1	1BKR52-10661	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP61O	CBP61O	0
1TB27-1	1BKR52-10662	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP62O	CBP62O	0
1TB27-1	1BKR52-10663	MCC 106T BOOSTER JOCKEY PP FIRE PROT SYS BK	M7	CBP63O	CBP63O	0
1TB27-1	1BKR52-10667	MCC 106T TURB AREA OILY SUMP 11 PP 11 BKR	M7	CBP67O	CBP67O	0
1TB27-1	1BKR52-10668	MCC 106T TURB AREA OILY SUMP 11 PP 12 BKR	M7	CBP68O	CBP68O	0
1TB27-1	1BKR52-10669	MCC 106T SMOKE REMOVAL DMPR 0M05391 BKR	M7	CBP69O	CBP69O	0
1TB27-1	1BKR52-10670	MCC 106T SMOKE REMOVAL DMPR 0M05392 BKR	M7	CBP70O	CBP70O	0
1TB27-1	1BKR52-10671	MCC 106T AUX BD TK PP 11 BKR	M7	CBP71O	CBP71O	0
1TB27-1	1BKR52-10672	MCC 106T SPARE BKR	M7	CBP72O	CBP72O	0
1TB27-1	1BKR52-10673	SERV XFMR (P-13000-1) COOLING B (EMERGENCY)	M7	CBP73O	CBP73O	0
1TB27-1	1BKR52-10674	SERV XFMR (U-4000-11) COOLING A (NORMAL)	M7	CBP74O	CBP74O	0
1TB27-1	1BKR52-10675	SERV XFMR (U-4000-21) COOLING A (NORMAL)	M7	CBP75O	CBP75O	0
1TB27-1	1BKR52-10676	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11A	M7	CBP76O	CBP76O	0
1TB27-1	1BKR52-10677	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11B	M7	CBP77O	CBP77O	0
1TB27-1	1BKR52-10678	MCC 106T HTR DRN PP 11 LUBE OIL COOLER FAN BK	M7	CBP78O	CBP78O	0
1TB27-1	1BKR52-10601	MAIN FEEDER BREAKER	M7	M7BCBM	CBP01T	0
1TB12-3	1PUMPSTC11	11 MG STATOR WTR CLG PUMP (1MB216)	M7	MB215Q	MB215Q	0
1TB12-4	1PUMPEHC11	11 MT EHC HYD UNIT PUMP (1MB216)	M7	MB216Q	MB216Q	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	M7	MB217Q	MB217Q	0
2TB27-8	0PUMPPHM11	11 MAIN HTG HWC PUMP (1MB225)	M7	MB225Q	MB225Q	0
1TB12-3	1PUMPWBP11	11 CW WTRBX PRMG PP (1M0608)	M7	MBP08Q	MBP08Q	0
1TB12-3	1PUMPWBP12	12 CW WTRBX PRMG PP (1M0609)	M7	MBP09Q	MBP09Q	0
1TB12-3	1PUMPWBPSWP11	11 CW WTRBX PRMG PP SEAL WTR PUMP (1M0610)	M7	MBP10Q	MBP10Q	0
1TB12-3	1PUMPWBPSWP12	12 CW WTRBX PRMG PP SEAL WTR PUMP (1M0611)	M7	MBP11Q	MBP11Q	0
1TB27-7	0PUMPBSTR9600	0 FP BSTR PUMP # 9600 (1M0663)	M7	MBP63Q	MBP63Q	0
1TB27-5W	1PUMPWOSMPTB11	TURB AREA OILY SUMP 11 PUMP 11 (1M0667)	M7	MBP67Q	MBP67Q	0
1TB27-5W	1PUMPWOSMPTB12	TURB AREA OILY SUMP 11 PUMP 12 (1M0668)	M7	MBP68Q	MBP68Q	0
1TB12-2 (CP)	1PUMPMSBD11	11 AUX BD TK PUMP (1M0671)	M7	MBP71Q	MBP71Q	0
1TB12-3 (CP)	1PUMPCDMTRL011	11 CD PP LO CLR PP (1M0607)	M7	MMP07Q	MMP07Q	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	M7	MMP13Q	MMP13Q	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	M7	MMP14Q	MMP14Q	0
1TB12-3	1PUMP2325	GEN H2 SEAL OIL SYS MAIN PUMP (1M0620)	M7	MMP20Q	MMP20Q	0
1TB12-3	1PUMP4624	GEN H2 SEAL OIL SYS RECIRC PUMP (1M0621)	M7	MMP21Q	MMP21Q	0
1TB12-3	1PUMP2316	MG H2 SEAL OIL VACUUM PUMP (1M0622)	M7	MMP22Q	MMP22Q	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	M7	MMP36Q	MMP36Q	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	M7	MMP37Q	MMP37Q	0
1TB12-2	1PUMPHDVLOP11A	11A HTR DRN PP LO CLR PP (1M0676)	M7	MMP76Q	MMP76Q	0
1TB12-2	1PUMPHDVLOP11B	11B HTR DRN PP LO CLR PP (1M0677)	M7	MMP77Q	MMP77Q	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	M7	MVP02Q	MVP02Q	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	M7	MVP03Q	MVP03Q	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	M7	MVP04Q	MVP04Q	0
1TB12-2	1MOV4652	14 STEAM LEAD DR	M7	MVP17Q	MVP17Q	0
1TB12-2	1MOV4651	12 STEAM LEAD DR	M7	MVP18Q	MVP18Q	0
1TB12-2	1MOV6090	11 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M7	MVP28Q	MVP28Q	0
1TB12-4	1MOV4658	MN CONT VLVS BEFORE SEAT DRN	M7	MVP29Q	MVP29Q	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	M7	MVP30Q	MVP30Q	0
1TB12-4	1MOV4656	1 GS MS SEAL REG BYP MOV	M7	MVP31Q	MVP31Q	0
1TB12-4	1MOV4657	1 GS SEAL DUMP BYP MOV	M7	MVP32Q	MVP32Q	0
1TB12-2	1MOV5089	11 SGFP LP STOP ABOVE SEAT DRN	M7	MVP38Q	MVP38Q	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	M7	MVP40Q	MVP40Q	0
1TB12-2	1MOV5088	11 SGFP HP STOP BELOW SEAT DRN	M7	MVP44Q	MVP44Q	0
1TB12-2	1MOV5087	11 SGFP HP STOP ABOVE SEAT DRN	M7	MVP46Q	MVP46Q	0
1TB12-2	1MOV5091	1FW SG FD PP 1ST STG EXH DRN	M7	MVP49Q	MVP49Q	0
1TB12-4	1MOV4026	MS TO 11 MSR 2ND STG	M7	MVP51Q	MVP51Q	0
1TB27-6	1MOV4018	MS TO 11 MSR 2ND STG CONT	M7	MVP52Q	MVP52Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE
1TB27-6	1MOV4019	EXTRACTION STEAM TO MOISTURE SEPARATOR RE	M7	MVP53Q	MVP53Q	0
1TB27-1	1XL-208-118	LTG XFMR L-208-118 TURB BLDG EL 27 FT	M7	TMP39Q	TMP39Q	0
1TB27-1	1XDT16	LTG DISTR XFMR 16	M7	TMP47Q	TMP47Q	0
1TB12-2	1FANFPTLOCDTRE11	11 SGFP LO COND VAP EXT (1M0612)	M7	VAP12Q	VAP12Q	0
1TB12-2	1FANFPTLORESVE11	11 SGFP LO RESV VAPOR EXT (1M0615)	M7	VAP15Q	VAP15Q	0
1TB12-4	1FANGSPACK11	11 GLAND STEAM PACKING EXH (1M0633)	M7	VAP33Q		
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)				
1TB12-2	1FANHVACHDPS11	11 HTR DRN PUMP AREA CLR (1M0678)				
1TB27-1	1MCC116T	MCC 116T				
1TB27-1	1MCC116T	MCC 116T				
1TB12-2 (CP)	1RECEPMMCC116A	POWER RECEPT MCC116 (1W48, 1W49, 1W50, 1W51)				
1TB12-2 (CP)	1PNL1C54	12B AMERTAP CNTL PNL 1C54				
1TB12-2 (CP)	1PNL1C55	13A AMERTAP CNTL PNL 1C55				
1TB12-2 (CP)	1PNL1C56	13B AMERTAP CNTL PNL 1C56				
1TB27-1	1BKR52-11602	MCC 116T CIRC H2O PP 14 DISCH 1MOV-5237 BKR				
1TB27-1	1BKR52-11603	MCC 116T CIRC H2O PP 15 DISCH 1MOV-5241 BKR				
1TB27-1	1BKR52-11604	MCC 116T CIRC H2O PP 16 DISCH 1MOV-5245 BKR				
1TB27-1	1BKR52-11605	MCC 116T PWR RECEPTACLE BKR				
1TB27-1	1BKR52-11606	MCC 116T COND PP 12 LUBE OIL PP BKR				
1TB27-1	1BKR52-11607	MCC 116T COND PP 13 LUBE OIL PP BKR				
1TB27-1	1BKR52-11608	MCC 116T CIRC WTR PRIMING PP 13 BKR				
1TB27-1	1BKR52-11609	MCC 116T UNIT HTR 14 BKR				
1TB27-1	1BKR52-11610	MCC 116T CIRC WTR PRIMING PP RECIRC SEAL PP				
1TB27-1	1BKR52-11611	MCC 116T UNIT HTR 15 BKR				
1TB27-1	1BKR52-11612	MCC 116T SGFP 12 LUBE OIL CONDITIONER BKR			CBQ120	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	M8	CBQ130	CBQ130	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	M8	CBQ140	CBQ140	0
1TB27-1	1BKR52-11615	MCC 116T SGFP 12 OIL VAPOR EXTR BKR	M8	CBQ150	CBQ150	0
1TB27-1	1BKR52-11616	MCC 116T 13 KV SERVICE BUSES 11 & 12 SERVICE XF	M8	CBQ160	CBQ160	0
1TB27-1	1BKR52-11617	MCC 116T SPARE RCP MTR OIL LIFT PP BKR	M8	CBQ170	CBQ170	0
1TB27-1	1BKR52-11618	MCC 116T CNDSR VACUUM BKR 1MOV-6717 BKR	M8	CBQ180	CBQ180	0
1TB27-1	1BKR52-11620	MCC 116T CNDSR BULLETING PP 11 BKR	M8	CBQ200	CBQ200	0
1TB27-1	1BKR52-11621	MCC 116T TURB LUBE OIL CONDITIONER 11 BKR	M8	CBQ210	CBQ210	0
1TB27-1	1BKR52-11623	MCC 116T 12B AMERTAP CONTR PNL 1C54 BKR	M8	CBQ230	CBQ230	0
1TB27-1	1BKR52-11624	MCC 116T 13A AMERTAP CONTR PNL 1C55 BKR	M8	CBQ240	CBQ240	0
1TB27-1	1BKR52-11625	MCC 116T 13B AMERTAP CONTR PNL 1C56 BKR	M8	CBQ250	CBQ250	0
1TB27-1	1BKR52-11626	MCC 116T UNIT HTR 16 BKR	M8	CBQ260	CBQ260	0
1TB27-1	1BKR52-11627	MCC 116T UNIT HTR 17 BKR	M8	CBQ270	CBQ270	0
1TB27-1	1BKR52-11628	MCC 116T SGFP 12 HP STOP VLV DRN A 1MOV-5092 B	M8	CBQ280	CBQ280	0
1TB27-1	1BKR52-11629	MCC 116T RHT STM DRN 1MOV-4022 BKR	M8	CBQ290	CBQ290	0
1TB27-1	1BKR52-11630	MCC 116T RHT STM DRN 1MOV-4023 BKR	M8	CBQ300	CBQ300	0
1TB27-1	1BKR52-11631	MCC 116T STM SEAL AUX SUPP 1MOV-4678(SG) BKR	M8	CBQ310	CBQ310	0
1TB27-1	1BKR52-11633	MCC 116T STM PACK EXH 12 BKR	M8	CBQ330	CBQ330	0
1TB27-1	1BKR52-11635	MCC 116T AUX BOILER FUEL PP 12 BKR	M8	CBQ350	CBQ350	0
1TB27-1	1BKR52-11636	MCC 116T COND VACUUM RECIRC SEAL PP 13 BKR	M8	CBQ360	CBQ360	0
1TB27-1	1BKR52-11637	MCC 116T COND VACUUM RECIRC SEAL PP 14 BKR	M8	CBQ370	CBQ370	0
1TB27-1	1BKR52-11638	MCC 116T SGFP 12 LP STOP VLV DRN A 1MOV-5094 B	M8	CBQ380	CBQ380	0
1TB27-1	1BKR52-11639	MCC 116T LTG XFMR (L-208-112) BKR	M8	CBQ390	CBQ390	0
1TB27-1	1BKR52-11640	MCC 116T SGFP 12 EXH 1MOV-3981 BKR	M8	CBQ400	CBQ400	0
1TB27-1	1BKR52-11641	MCC 116T TURBINE LO XFMR PP 11 BKR	M8	CBQ410	CBQ410	0
1TB27-1	1BKR52-11642	MCC 116T TURB AREA SUMP 11 PP 11 BKR	M8	CBQ420	CBQ420	0
1TB27-1	1BKR52-11643	MCC 116T TURB AREA SUMP 11 PP 12 BKR	M8	CBQ430	CBQ430	0
1TB27-1	1BKR52-11644	MCC 116T SGFP 12 HP STOP VLV DRN 1MOV-5093 BK	M8	CBQ440	CBQ440	0
1TB27-1	1BKR52-11645	MCC 116T LTG XFMR (L-208-119) BKR	M8	CBQ450	CBQ450	0
1TB27-1	1BKR52-11646	MCC 116T SGFP 12 LP STOP VLV DRN 1MOV-5095 BK	M8	CBQ460	CBQ460	0
1TB27-1	1BKR52-11647	MCC 116T DISTR XFMR 116 BKR	M8	CBQ470	CBQ470	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE
1TB27-1	1BKR52-11648	MCC 116T PWR RECEPTACLE BKR	M8	CBQ480	CBQ480	0
1TB27-1	1BKR52-11649	MCC 116T SGFP 12 FIRST STG DRN 1MOV-5096 BKR	M8	CBQ490	CBQ490	0
1TB27-1	1BKR52-11650	MCC 116T UNIT HTR 18 BKR	M8	CBQ500	CBQ500	0
1TB27-1	1BKR52-11651	MCC 116T RHT STM SUPP 1MOV-4025 BKR	M8	CBQ510	CBQ510	0
1TB27-1	1BKR52-11652	MCC 116T MS TO MS RHTR 12 1MOV-4017 BKR	M8	CBQ520	CBQ520	0
1TB27-1	1BKR52-11653	MCC 116T EXTR STM TO MS RHTR 12 1MOV-4020 BKR	M8	CBQ530	CBQ530	0
1TB27-1	1BKR52-11655	MCC 116T HYD PWR UNIT HTR 11 BKR	M8	CBQ550	CBQ550	0
1TB27-1	1BKR52-11656	MCC 116T AUX BD TK PP 12 BKR	M8	CBQ560	CBQ560	0
1TB27-1	1BKR52-11657	MCC 116T TURB BLDG SUPP FAN 15 BKR	M8	CBQ570	CBQ570	0
1TB27-1	1BKR52-11658	MCC 116T TURB BLDG SUPP FAN 16 BKR	M8	CBQ580	CBQ580	0
1TB27-1	1BKR52-11659	MCC 116T COND PP 12 FAN BKR	M8	CBQ590	CBQ590	0
1TB27-1	1BKR52-11660	MCC 116T COND PP 13 FAN BKR	M8	CBQ600	CBQ600	0
1TB27-1	1BKR52-11661	MCC 116T TURB BLDG HIGH BAY LTG BKR	M8	CBQ610	CBQ610	0
1TB27-1	1BKR52-11662	MCC 116T TURB BLDG LOW BAY LTG BKR	M8	CBQ620	CBQ620	0
1TB27-1	1BKR52-11663	MCC 116T TURB AREA SUMP 12 PP 11 BKR	M8	CBQ630	CBQ630	0
1TB27-1	1BKR52-11664	MCC 116T TURB AREA SUMP 12 PP 12 BKR	M8	CBQ640	CBQ640	0
1TB27-1	1BKR52-11665	MCC 116T LIGHTING TRANSFORMER 1L26 L-208-126	M8	CBQ650	CBQ650	0
1TB27-1	1BKR52-11667	MCC 116T TURBINE BLDG HTG CIRC PP 11 BKR	M8	CBQ670	CBQ670	0
1TB27-1	1BKR52-11668	MCC 116T CR & CSR CHILLED WTR SUPP PP #12 BKR	M8	CBQ680	CBQ680	0
1TB27-1	1BKR52-11669	MCC 116T XFMR 1X116 BKR	M8	CBQ690	CBQ690	0
1TB27-1	1BKR52-11670	MCC 116T MTR OPER DOOR 804 BKR	M8	CBQ700	CBQ700	0
1TB27-1	1BKR52-11671	MCC 116T COND COLLECTION TK 11 PP 11 BKR	M8	CBQ710	CBQ710	0
1TB27-1	1BKR52-11672	MCC 116T COND COLLECTION TK 11 PP 12 BKR	M8	CBQ720	CBQ720	0
1TB27-1	1BKR52-11673	MCC 116T SERVICE XFMR (P-13000-1) COOLING B BK	M8	CBQ730	CBQ730	0
1TB27-1	1BKR52-11674	MCC 116T SERVICE XFMR (U-4000-11) COOLING B BK	M8	CBQ740	CBQ740	0
1TB27-1	1BKR52-11675	MCC 116T SERVICE XFMR (U-4000-21) COOLING B BK	M8	CBQ750	CBQ750	0
1TB27-1	1BKR52-11676	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12A	M8	CBQ760	CBQ760	0
1TB27-1	1BKR52-11677	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12B	M8	CBQ770	CBQ770	0
1TB27-1	1BKR52-11678	MCC 116T HTR DRN PP 12 LUBE OIL COOLER FAN BK	M8	CBQ780	CBQ780	0
1TB27-1	1BKR52-11601	MCC 116T MN FDR BKR	M8	M8BCBM	CBQ01T	0
1TB12-3	1PUMPSTC12	12 MG STATOR WTR CLG PUMP (1MB316)	M8	MB315Q	MB315Q	0
1TB12-4	1PUMPEHC12	12 MT EHC HYD UNIT PUMP (1MB316)	M8	MB316Q	MB316Q	0
1TB12-2 (CP)	1PUMPCAR14	14 CAR VAC PP (1MB317)	M8	MB317Q	MB317Q	0
1TB12-3	1PUMPWBP13	13 CW WTRBX PRMG PP (1M1608)	M8	MBQ08Q	MBQ08Q	0
1TB12-3	1PUMPWBPSWP13	13 CW WTRBX PRMG PP SEAL WTR PUMP (1M1610)	M8	MBQ10Q	MBQ10Q	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	M8	MBQ13Q	MBQ13Q	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	M8	MBQ14Q	MBQ14Q	0
1TB27-7	0PUMPRCSPARE	SPARE RCP MTR OIL LIFT PP MTR (0M1617)	M8	MBQ17Q	MBQ17Q	0
1TB27-5E	1PUMPSWBSTR11	11 SW BOOSTER PUMP (1M1620)	M8	MBQ20Q	MBQ20Q	0
1TB12-2 (CP)	1PUMPSMP11TB11	11 TURB BLDG SUMP 11 PP (1M1642)	M8	MBQ42Q	MBQ42Q	0
1TB12-2 (CP)	1PUMPSMP11TB12	11 TURB BLDG SUMP PP 12 (1M1643)	M8	MBQ43Q	MBQ43Q	0
1TB12-2 (CP)	1PUMPSBD12	12 AUX BD TK PUMP (1M1656)	M8	MBQ56Q	MBQ56Q	0
1TB27-5E	1PUMPSMP12TB11	12 TURB BLDG SUMP PP 11 (1M1663)	M8	MBQ63Q	MBQ63Q	0
1TB27-5E	1PUMPSMP12TB12	12 TURB BLDG SUMP 12 PP (1M1664)	M8	MBQ64Q	MBQ64Q	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	M8	MMQ06Q	MMQ06Q	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	M8	MMQ07Q	MMQ07Q	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	M8	MMQ36Q	MMQ36Q	0
1TB12-2 (CP)	1PUMPCARSWP14	14 CAR SEAL WTR PUMP (1M1637)	M8	MMQ37Q	MMQ37Q	0
2TB27-8	0PUMPHTB11	11 HTG TURB BLDG HWC PUMP (0M1667)	M8	MMQ67Q	MMQ67Q	0
1TB12-2	1PUMPHDVLOP12A	12A HTR DRN PP LO CLR PP (1M1676)	M8	MMQ76Q	MMQ76Q	0
1TB12-2	1PUMPHDVLOP12B	12B HTR DRN PP LO CLR PP (1M1677)	M8	MMQ77Q	MMQ77Q	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	M8	MVQ02Q	MVQ02Q	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	M8	MVQ03Q	MVQ03Q	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	M8	MVQ04Q	MVQ04Q	0
1TB27-3	1MOV6717	COND VAC BKR	M8	MVQ18Q	MVQ18Q	0
1TB12-2	1MOV5092	12 SGFP HP STOP ABOVE SEAT DRN	M8	MVQ28Q	MVQ28Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-4	1MOV4022	11 MSR 2ND STG RHT SUPP DRN	M8	MVQ29Q	MVQ29Q	0
1TB12-4	1MOV4023	12 MSR 2ND STAGE RHT SUPP DRN	M8	MVQ30Q	MVQ30Q	0
1TB12-4	1MOV4678	AUX STM SEAL SUPPLY VLV	M8	MVQ31Q	MVQ31Q	0
1TB12-2	1MOV5094	12 SGFP LP STOP ABOVE SEAT DRN	M8	MVQ38Q	MVQ38Q	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	M8	MVQ40Q	MVQ40Q	0
1TB12-2	1MOV5093	12 SGFP HP STOP BELOW SEAT DRN	M8	MVQ44Q	MVQ44Q	0
1TB12-2	1MOV5095	12 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M8	MVQ46Q	MVQ46Q	0
1TB12-2	1MOV5096	12 SGFP 1ST STG EXH DRN	M8	MVQ49Q	MVQ49Q	0
1TB12-4	1MOV4025	MS TO 11 MSR 2ND STG	M8	MVQ51Q	MVQ51Q	0
1TB27-5W	1MOV4017	MS TO 12 MSR 2ND STG CONT	M8	MVQ52Q	MVQ52Q	0
1TB27-6	1MOV4020	EXTRACTION STEAM TO MOISTURE SEPARATOR RE	M8	MVQ53Q	MVQ53Q	0
1TB27-1	1XL-208-112	LTG XFMR L-208-112 TURB BLDG EL 27 FT	M8	TMQ39Q	TMQ39Q	0
1TB27-1	1XDT116	LTG DISTR XFMR 116	M8	TMQ47Q	TMQ47Q	0
1TB12-2	1FANFPTLOCDTRE12	12 SGFP LO COND FAN (1M1612)	M8	VAQ12Q	VAQ12Q	0
1TB12-2	1FANFPTLORESVE12	12 SGFP LO RESV VAPOR EXT (1M1615)	M8	VAQ15Q	VAQ15Q	0
1TB12-4	1M1633	12 STM PACKING EXH MTR (1M1633)	M8	VAQ33Q	VAQ33Q	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	M8	VAQ59Q	VAQ59Q	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	M8	VAQ60Q	VAQ60Q	0
1TB12-2	1M1678	12 HDV HTR DRN PP LUBE OIL CLR FAN 12 MTR (1M1	M8	VAQ78Q	VAQ78Q	0
1TB27-7	1PS4453	11 CD BOOSTER PP SUCTION LOW PS	MC	MCBP10	PS453R	0
1TB27-7	1PS4513	COND BOOSTER PUMP 11 PS	MC	MCBP10	PS513R	0
1TB27-7	1PS4460	12 CD BOOSTER PP SUCTION LOW PS	MC	MCBP20	PS460R	0
1TB27-7	1PS4514	COND BOOSTER PUMP 12 PS	MC	MCBP20	PS514R	0
1TB12-2	1PS4467	13 CD BOOSTER PP SUCTION LOW PS	MC	MCBP30	PS467R	0
1TB12-2	1PS4468	13 CD BOOSTER PP DISCHARGE LOW PS	MC	MCBP30	PS468D	0
1TB12-2	1PS4515	COND BOOSTER PUMP 13 PS	MC	MCBP30	PS515R	0
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEB	0
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEP	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AB	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AP	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BB	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BP	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CB	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CP	0
1TB27-4	1HXCPLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AB	0
1TB27-4	1HXCPLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AP	0
1TB27-4	1HXCPLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AB	0
1TB27-4	1HXCPLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AP	0
1TB27-4	1HXCPLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BB	0
1TB27-4	1HXCPLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BP	0
1TB27-4	1HXCPLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BB	0
1TB27-4	1HXCPLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BP	0
1TB27-4	1HXCPLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CB	0
1TB27-4	1HXCPLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CP	0
1TB27-4	1HXCPLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CB	0
1TB27-4	1HXCPLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CP	0
1TB12-1	1HXCPLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AB	0
1TB12-1	1HXCPLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AP	0
1TB27-2	1HXCPLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AB	0
1TB27-2	1HXCPLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AP	0
1TB12-1	1HXCPLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BB	0
1TB12-1	1HXCPLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BP	0
1TB27-2	1HXCPLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BB	0
1TB27-2	1HXCPLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BP	0
1TB27-7	1TCV1619	11 CBP LO CLR TCV	MC	MCLO15	C7619P	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11B	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11P	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AB	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AP	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BB	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BP	0
1TB27-7	1TCV1620	12 CBP LO CLR TEMP TCV	MC	MCLO25	C7620P	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12B	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12P	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AB	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AP	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BB	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BP	0
1TB12-2	1TCV1621	13 CBP LO CLR TCV	MC	MCLO35	C7621P	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13B	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13P	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AB	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AP	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BB	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BP	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438O	0
1TB27-4	1I/P4438	COND PMPS MINIMUM FLOW VLV CON	MC	MCMN10	CV438O	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438O	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438P	0
1TB27-4	1I/P4438	COND PMPS MINIMUM FLOW VLV CON	MC	MCMN10	CV438P	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438P	0
1TB27-5E	1FT4438A	CD GLAND STEAM CONDENSER MINI FLOW CONTROL	MC	MCMN10	FT38AR	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486O	0
1TB27-3	1SV4486	COND BSTR PMPS MIN FLOW CONT	MC	MCMN40	CV486O	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486P	0
1TB27-3	1SV4486	COND BSTR PMPS MIN FLOW CONT	MC	MCMN40	CV486P	0
1TB12-3	1FIC4486	CD BOOSTER PP MINI FLOW CONTROL FIC	MC	MCMN40	FC486R	0
1TB12-1	1FY4486	CD BOOSTER PP MINI FLOW CONTROL FY	MC	MCMN40	FY486R	0
1TB12-1	1FT4484	11 SGFP SUCT FLO XMTR	MC	MCMN51	FT484R	0
1TB12-1	1FY4484	11 FW SGFP SUCT FLO DEVICE	MC	MCMN51	FY484R	0
1TB12-2	1FT4485	12 FW SGFP SUCT FLO XMTR	MC	MCMN52	FT485R	0
1TB12-1	1FY4485	11 & 12 COND BSTR PP MINI FLO DEVICE	MC	MCMN52	FY485R	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11B	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11P	0
1TB12-3 (CP)	1YS4414	COND PMP MOTOR 11 OIL STRAINER	MC	MCPP10	YS414P	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12B	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12P	0
1TB12-3 (CP)	1YS4421	COND PMP MOTOR 12 OIL STRAINER	MC	MCPP20	YS421P	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13B	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13P	0
1TB12-3 (CP)	1YS4428	COND PMP MOTOR 13 OIL STRAINER	MC	MCPP30	YS428P	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	MC	MML11R	MML11R	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	MC	MML12R	MML12R	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	MC	MML13R	MML13R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11R	MYB11R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11S	MYB11S	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12R	MYB12R	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12S	MYB12S	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13R	MYB13R	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13S	MYB13S	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	MC	MYC11R	MYC11R	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	MC	MYC12R	MYC12R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	MC	MYC13R	MYC13R	0
1TB12-3	1PUMPCBP-LO-11	CBP-11 LUBE OIL PUMP	MC	NDL11R	NDL11R	0
1TB12-3	1PUMPCBP-LO-12	CBP-12 LUBE OIL PUMP	MC	NDL12R	NDL12R	0
1TB12-3	1PUMPCBP-LO-13	CBP-13 LUBE OIL PUMP	MC	NDL13R	NDL13R	0
1TB27-7	1TE1619	11 CD CBP LUBE OIL CLR TE	MC	TE619R	TE619R	0
1TB27-7	1TE1620	12 CD CBP LUBE OIL CLR OUT TE	MC	TE620R	TE620R	0
1TB12-2	1TE1621	13 CD CBP LUBE OIL CLR OUT TE	MC	TE621R	TE621R	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	MC	VAL11R	VAL11R	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	MC	VAL12R	VAL12R	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	MC	VAL13R	VAL13R	0
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	MH	BHEF1I	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	MH	BHEF1I	Open	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106P	C3106P	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	MN	CB013T	CB013T	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	MN	CB014T	CB014T	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	MN	CB113T	CB113T	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	MN	CB114T	CB114T	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	CV484O	CV484O	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	CV484O	CV484O	0
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	CV484O	CV484O	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	CV484O	CV484O	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	CV484O	CV484O	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	CV484O	CV484O	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	CV484O	CV484O	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	CV485O	CV485O	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	CV485O	CV485O	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	CV485O	CV485O	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	CV485O	CV485O	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	CV485O	CV485O	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	CV485O	CV485O	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	CV485O	CV485O	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	CV485O	CV485O	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	CV485O	CV485O	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	CV485O	CV485O	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BR	MB11BR	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BS	MB11BS	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BR	MB12BR	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BS	MB12BS	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	MN	MM11AR	MM11AR	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	MN	MM12AR	MM12AR	0
1TB27-5E	1PUMPCDSGFPBSTR1	11 CD SGFP SEAL WTR BSTR PP (1M0112)	MN	MML11R	MML11R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12R	MML12R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12S	MML12S	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MN	MN011R	MN011R	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MN	MN012R	MN012R	0
1TB27-1	1MCC101AT	MCC 101AT	MN	MNF71B	BU01AR	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	MN	MNF71B	CB101T	0
1TB27-1	1MCC101BT	MCC 101BT	MN	MNF72B	BU01BR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	MN	MNF72B	CB141T	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BP	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	MNFW52	VT1HCP	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	MN	MNFW52	VT1HSP	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	MNFW53	VT1LCP	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	MN	MNFW53	VT1LSP	0
1TB12-2	1LS4705	11 GS GEN FEED PP TURBINE CASING HIGH LS	MN	MNFW54	LS705R	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	MN	MNFW54	MV964P	0
1TB12-2	1PS5002	BRG OIL HDR PS TO LOW PRESS TURB TRIPS	MN	MNFW54	PS002R	0
1TB12-2	1PS5025	11 FW SGFPT ACTIVE FRNT BTHR BRG PS	MN	MNFW54	PS025R	0
1TB12-2	1PS5027	11 FW SGFPT INACTIVE REAR THR BRG PS	MN	MNFW54	PS027R	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	MN	MNFW54	SV010T	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704P	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704T	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707P	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707T	0
1TB12-2	1CV4702	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV702P	0
1TB12-2	1CV4705	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV705P	0
1TB12-2	1PDC4702	11 CD SGFP INJECTION PDC	MN	MNFW57	PC702R	0
1TB12-2	1PC4704	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC704R	0
1TB12-2	1PDC4705	11 CD SGFP INJECTION PDC	MN	MNFW57	PC705R	0
1TB12-2	1PC4707	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC707R	0
1TB12-2	1CV4704OP	SGFP 11 PP SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX704R	0
1TB12-2	1CV4707OP	SGFP 11 TURB SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX707R	0
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011B	0
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011P	0
A226	1PCV5000	11 SGFP BRG OIL PRESS REG VLV	MN	MNFW58	PC000R	0
A226	1PCV4993	11 SGFPT CONT OIL PRESS REG	MN	MNFW58	PC993R	0
A226	1PCV4999	11 SGFPT OIL PRESS REG VLV	MN	MNFW58	PC999R	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	MNFW59	CV484P	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	MNFW59	CV484P	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	MNFW59	CV484P	0
1TB12-1	1FT4484A	11 FW SGFP MINI FLO XMTR	MN	MNFW59	FT84AR	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	MNFW62	VT2HCP	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	MN	MNFW62	VT2HSP	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	MNFW63	VT2LCP	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	MN	MNFW63	VT2LSP	0
1TB12-2	1LS4711	12 GS GEN FEED PP TURBINE CASING LS	MN	MNFW64	LS711R	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	MN	MNFW64	MV981P	0
1TB12-2	1PS5051	LOW BRG OIL PRESS TURB TRIP PS	MN	MNFW64	PS051R	0
1TB12-2	1PS5074	12 FW SGFPT ACTIVE FRNT THR BRG PS	MN	MNFW64	PS074R	0
1TB12-2	1PS5076	12 FW SGFPT INACTIVE THR BRG PS	MN	MNFW64	PS076R	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	MN	MNFW64	SV059T	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710P	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710T	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713P	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713T	0
1TB12-2	1CV4708	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV708P	0
1TB12-2	1CV4711	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV711P	0
1TB12-2	1PDC4708	12 CD SGFP INJECTION PDC	MN	MNFW67	PC708R	0
1TB12-2	1PC4710	12 FW SEAL WTR DISCHARGE PC	MN	MNFW67	PC710R	0
1TB12-2	1PDC4711	12 CD SGFP INJECTION PDC	MN	MNFW67	PC711R	0
1TB12-2	1PC4713	12 FW SGFP SEAL WTR DISCHARGE PC	MN	MNFW67	PC713R	0
1TB12-2	1CV47100P	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX710R	0
1TB12-2	1CV47130P	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX713R	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012B	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012P	0
A226	1PCV5043	12 SGFP TLO PP DISCH PCV	MN	MNFW68	PC043R	0
A226	1PCV5048	12 SGFP TLO RESERVOIR INLET PCV	MN	MNFW68	PC048R	0
A226	1PCV5049	12 FW SGFP TLO TO PP BRGS PCV	MN	MNFW68	PC049R	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	MNFW69	CV485P	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	MNFW69	CV485P	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	MNFW69	CV485P	0
1TB12-1	1FT4485A	12 FW SGFP MINI FLO XMTR	MN	MNFW69	FT85AR	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622P	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622P	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622R	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622R	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623P	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623P	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623R	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623R	0
1TB12-2	1PS5042A	12 FW SGFP AUX OIL PP PS	MN	PS42AD	PS42AD	0
1TB12-2	1PS4482	11 & 12 SGFP SUCT LO PS	MN	PS482R	PS482R	0
1TB12-2	1PS4483	11 & 12 SGFP SUCT LO PS	MN	PS483R	PS483R	0
1TB27-5E	1PS4486	CD SGFP SEAL WATER BOOSTER PPS SUCTION PS	MN	PS486R	PS486R	0
1TB12-4	1PS4487	CD SGFP SEAL WATER BOOSTER PPS DISCHARGE P	MN	PS487D	PS487D	0
1TB12-2	1PS4490	11 FW SGFP DISCH PS	MN	PS490R	PS490R	0
1TB12-2	1PS4491	11 FW SGFP DISCH PS	MN	PS491R	PS491R	0
1TB12-2	1PS4495	12 FW SGFP DISCH PS	MN	PS495R	PS495R	0
1TB12-2	1PS4496	12 FW SGFP DISCH PS	MN	PS496R	PS496R	0
1TB12-2	1PS4992A	11 FW SGFP AUX OIL PUMP PS	MN	PS92AD	PS92AD	0
1TB12-2	1PY4482	SGFP 11 TURB TRIP & RESET	MN	RY482T	RY482T	0
1TB12-2	1PY4483	SGFP 11 TURB TRIP & RESET	MN	RY483T	RY483T	0
1TB12-2	1PY4482A	SGFP 12 LO SUCT PR ALARM	MN	RY82AT	RY82AT	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	MN	RY83AT	RY83AT	0
1TB12-2	1AY4483A	SGFP 12 LO SUCT PR TRIP	MN	RYA3AT	RYA3AT	0
1TB12-2	1AY4483	SGFP 11 TRIP & RESET	MN	RYA83T	RYA83T	0
1TB12-2	1CV3959B	11 FW SGFP HP GOV VLV	MN	VT1HCO	VT1HCO	0
1TB12-2	1CV3961B	11 FW SGFP LP GOV VLV	MN	VT1LCO	VT1LCO	0
1TB12-2	1CV3974B	12 FW SGFP HP GOV VLV	MN	VT2HCO	VT2HCO	0
1TB12-2	1CV3980B	12 FW SGFP LP GOV VLV	MN	VT2LCO	VT2LCO	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111C	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111C	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111T	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111T	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111T	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121C	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121T	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121T	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121T	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MT	BHEMT1	Trips	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MT	BHEMT1	Trips	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MVOA11	MV659P	0
A118	1MOV659	MINI FLOW RETN TO RWT	MV	MVOA11	MV659X	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MVOA11	MV660P	0
A118	1MOV660	MINI FLOW RETN TO RWT	MV	MVOA11	MV660X	0
1TB27-1	1MCC101AT	MCC 101AT	N1	BU109Q	BU109Q	0
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N1	MC104Q	MC104Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N1	MC104Q	MC104Q	12
A228	1PUMPC11	11 COMPONENT COOLING PUMP (1MB106)	N1	MZ106Q	MZ106Q	12
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	N2	CM118Q	CM118Q	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	N2	CM123Q	CM123Q	0
A115A	1PUMPCVCCHG11	11 RX COOLANT CHARGING PUMP (1MB115)	N2	MC115Q	MC115Q	12
A228	1PUMPC13	13 COMPONENT COOLING PUMP (1MB118)	N2	MZ116Q	MZ116Q	12
A115	1DISC89-1104A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115	1DISC89-1404A	CHARGING PUMP 13 DISC SW	N3	MC404Q	MC404Q	0
A115C	1PUMPCVCCHG13	13 RX COOLANT CHARGING PUMP (1MB404)	N3	MC404Q	MC404Q	12
A228	1PUMPC12	12 COMPONENT COOLING PUMP (1MB406)	N3	MZ406Q	MZ406Q	12
1TB27-1	1MCC101BT	MCC 101BT	N4	BU419Q	BU419Q	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	N4	CM418Q	CM418Q	0
A115B	1PUMPCVCCHG12	12 RX COOLANT CHARGING PUMP (1MB415)	N4	MC415Q	MC415Q	12
A228	1PUMPC13	13 COMPONENT COOLING PUMP (1MB116)	N4	MZ416Q	MZ416Q	12
2TB27-7	2MCC201AT	MCC 201AT	N5	BUT59Q	BUT59Q	0
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N5	MCT04Q	MCT04Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N5	MCT04Q	MCT04Q	24
A201	2PUMPC21	21 COMPONENT COOLING PUMP (2MB106)	N5	MZT06Q	MZT06Q	12
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	N6	CMT18Q	CMT18Q	0
A105A	2PUMPCVCCHG21	21 CVC CHARGING PUMP (2MB115)	N6	MCT05Q	MCT05Q	24
A201	2PUMPC23	23 COMPONENT COOLING PUMP (2MB116)	N6	MZT16Q	MZT16Q	12
A105	2DISC89-2104A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105	2DISC89-2404A	CHARGING PUMP 23 DISC SW	N7	MCT14Q	MCT14Q	0
A105C	2PUMPCVCCHG23	23 CVC CHARGING PUMP (2MB404)	N7	MCT14Q	MCT14Q	24
A201	2PUMPC22	22 COMPONENT COOLING PUMP (2MB406)	N7	MZT26Q	MZT26Q	12
2TB27-7	2MCC201BT	MCC 201BT	N8	BUT19Q	BUT19Q	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	N8	CMT21Q	CMT21Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
2TB12-4	2COMP22	22 IA COMPR (2MB418)	N8	CMT28Q	CMT28Q	0
A105B	2PUMPCVCHG22	22 CVC CHARGING PUMP (2MB415)	N8	MCT15Q	MCT15Q	24
A201	2PUMPC23	23 COMPONENT COOLING PUMP (2MB116)	N8	MZT36Q	MZT36Q	12
2TB12-4	2TCV1636	PA COMP TCV	NR	C7S6O	C7S6O	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	C7S34O	C7S34O	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CM011R	CM011R	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CM011S	CM011S	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012R	CM012R	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012S	CM012S	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NR	CMP21R	CMP21R	0
A228	1ACC5170	AIR ACCUMULATOR FOR 1CV5170	NR	ILIA99	TK170B	0
A228	1ACC5171	AIR ACCUMULATOR FOR 1CV5171	NR	ILIA99	TK171B	0
A228	1ACC5174	AIR ACCUMULATOR FOR 1CV5174	NR	ILIA99	TK174B	0
A228	1ACC5175	AIR ACCUMULATOR FOR 1CV5175	NR	ILIA99	TK175B	0
A228	1ACC5177	AIR ACCUMULATOR FOR 1CV5177	NR	ILIA99	TK177B	0
A228	1ACC5178	AIR ACCUMULATOR FOR 1CV5178	NR	ILIA99	TK178B	0
A228	1ACC5173	AIR ACCUMULATOR FOR 1CV5173	NR	INIA99	TK173B	0
A224	1ACC1645	AIR ACCUMULATOR FOR 1CV1645	NR	IPIA99	TK645B	0
A224	1ACC1646	AIR ACCUMULATOR FOR 1CV1646	NR	IPIA99	TK646B	0
1TB12-4	1ACC1A11	11 IA COMPR RCVR	NR	IPIA99	TKA11B	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	IV2S6D	IV2S6D	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	IVS33D	IVS33D	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	IVS34D	IVS34D	0
1TB27-1	1MCC101AT	MCC 101AT	NR	NR1P01	BU1ATR	0
1TB27-1	1PNL1P11	LTG DISTR PNL 111	NR	NR1P01	BUP11R	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	NR	NR1P01	CB101T	0
1TB27-1	1BKR52-10116	MCC 101AT DISTR XFMR 11 BKR	NR	NR1P01	CB116T	0
1TB27-1	1XDT11	LTG DISTR XFMR 11	NR	NR1P01	TM1P1R	0
1TB12	1PCV1628	SRW TO I&P/A COMPR PCV	NR	NRC1SW	CV628P	0
1TB12-4	1TCV1630	11 I/A COMPR TEMP REG VLV	NR	NRIA11	C7630P	0
1TB12-4	1MUFFIAFIL11	11 IA COMPR FILTER SILENCER	NR	NRIA11	FL011P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11B	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062D	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062T	0
1TB12-4	1SV1629	11 I/A COMPR A/CLR SRW INLET	NR	NRIA11	IV629T	0
1TB12-4	1SV1630	11 I/A COMPR SRW INLET	NR	NRIA11	IV630T	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	NRIA11	PS062R	0
1TB12-4	1PS2063	11 IA COMPR OIL PS LOW	NR	NRIA11	PS063R	0
1TB12-4	1TE1630	11 SRW IA COMPR OUT TE	NR	NRIA11	TE630R	0
1TB12-4	1TS2063	11 IA COMPR A/CLR OUT TS HI	NR	NRIA11	TS063R	0
1TB12-4	1TS2082	11 IA COMPR I/CLR OUT TS	NR	NRIA11	TS082R	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	NRIA12	C7S34P	0
1TB12-4	1MUFFIAFIL12	12 IA COMPR FILTER SILENCER	NR	NRIA12	FLS12P	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA12	HXA22P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXI22B	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXI22P	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064D	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064T	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	NRIA12	IVS33T	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	NRIA12	IVS34T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	NRIA12	PS064R	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	NRIA12	PS067R	0
1TB12-4	1PS2065	12 IA COMPR OIL PS LOW	NR	NRIA12	PSS65R	0
1TB12-4	1TE1634	12 SRW IA COMPR OUT TE	NR	NRIA12	TES34R	0
1TB12-4	1TS2065	12 IA COMPR A/CLR OUT TS HI	NR	NRIA12	TSS65R	0
1TB12-4	1TS2084	12 IA COMPR I/CLR OUT TS	NR	NRIA12	TSS84R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA99	HXA11B	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA99	HXAS2B	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	NRIA99	TK011B	0
1TB12-4	1ACCIA12	12 IA COMPR RCVR	NR	NRIA99	TK012B	0
A226	1ACC4070	11 S/G AFW STM VLV ACCUM	NR	NRIA99	TK070B	144
A226	1ACC4071	12 S/G STM VLV ACCUM	NR	NRIA99	TK071B	144
1TB12-2	1DRYIA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12AP	0
1TB12-2	1DRYIA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12BP	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001R	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001T	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002T	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003T	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004T	0
1TB12-4	1NP1113B	IA DRYER 12 LOCAL CONTROL PNL	NR	NRIAHD	COD12R	0
1TB12-4	1FU1NP113B/FU3	12 IA DRYER CONTR CKT FU	NR	NRIAHD	FUC12R	0
1TB12-2	1HS2004	12 IA DRYER HS	NR	NRIAHD	HS004T	0
1TB12-4	1PCV2003	IA DRYER 12 PILOT REG PCV	NR	NRIAHD	PC003R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA01	HXAP1B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA01	HXPA2B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NR	NRPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NR	NRPA01	TKP21B	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NR	NRPA11	C7636P	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NR	NRPA11	FLP11P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXAP1P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXPA1P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-4	1HXP/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11B	0
1TB12-4	1HXP/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11P	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154T	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NR	NRPA11	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NR	NRPA11	IV636T	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NR	NRPA11	PS055R	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	NRPA11	PS154R	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NR	NRPA11	TE636R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NR	NRPA11	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NR	NRPA11	TS086R	0
2TB12-4	2TCV1636	PA COMP TCV	NR	NRPA21	C72S6P	0
2TB12-4	2COMP21	21 PA COMPR (2MB423)	NR	NRPA21	CMP21S	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NR	NRPA21	CV228P	0
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NR	NRPA21	FLS21P	0
2TB12-4	2HXP/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXP21B	0
2TB12-4	2HXP/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXP21P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA21	HXP21P	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054T	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	NRPA21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	NRPA21	IV2S6T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	NRPA21	PS054R	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	NRPA21	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NR	NRPA21	PS255R	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NR	NRPA21	TE2S6R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NR	NRPA21	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NR	NRPA21	TSS25R	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259R	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061O	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061O	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061P	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061P	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061D	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	PS056D	PS056D	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	PS062D	PS062D	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	PS064D	PS064D	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	PS067D	PS067D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	PS154D	PS154D	0
A205	2CV1637	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NR(TC)	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NR(TC)	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NR(TC)	UNIT 2-TAFB01	C3639P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A205	2CV1600	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NR(TC)	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NR(TC)	UNIT 2-TBFB01	C3638P	0
2TB12-4	2TCV1638	PA COMP TCV	NS	C72S6O	C72S6O	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	C7634O	C7634O	0
2TB12-4	2COMPIA21	21 IA COMPR (2MB118)	NS	CM021R	CM021R	0
2TB12-4	2COMPIA21	21 IA COMPR (2MB118)	NS	CM021S	CM021S	0
2TB12-4	2COMPIA22	22 IA COMPR (2MB418)	NS	CM022R	CM022R	0
2TB12-4	2COMPIA22	22 IA COMPR (2MB418)	NS	CM022S	CM022S	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	NS	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	CMP21R	CMP21R	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	IV2S6D	IV2S6D	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	IV633D	IV633D	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	IV634D	IV634D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154T	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	NRCMP1	PS154R	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	NRCMP2	PS054R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NS	NRDPP1	HXP1P	0
1TB12-4	1HXPAI/CLR11	11 PA COMPR INTER COOLER	NS	NRDPP1	HXP1B	0
2TB12-4	2HXPAI/CLR21	21 PA COMPR INTER COOLER	NS	NRDPP2	HXP2B	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NS	NRHVP1	FLP11P	0
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NS	NRHVP2	FLS21P	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NS	NRPSP1	PS055R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NS	NRPSP1	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NS	NRPSP1	TS086R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	NRPSP2	CMP21S	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	NRPSP2	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NS	NRPSP2	PSS25R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NRPSP2	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NS	NRPSP2	TSS25R	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NS	NRSW13	C7636P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NS	NRSW13	HXP1P	0
1TB12-4	1HXPAI/CLR11	11 PA COMPR INTER COOLER	NS	NRSW13	HXP1B	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NS	NRSW13	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NS	NRSW13	IV636T	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NS	NRSW13	TE636R	0
2TB12-4	2TCV1636	PA COMP TCV	NS	NRSW21	C72S6P	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NS	NRSW21	CV228P	0
2TB12-4	2HXPAI/CLR21	21 PA COMPR INTER COOLER	NS	NRSW21	HXP2B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NS	NRSW21	HXP2P	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	NRSW21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	NRSW21	IV2S6T	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NS	NRSW21	TE2S6R	0
2TB27-7	2MCC201AT	MCC 201AT	NS	NS1P01	BU2ATR	0
2TB27-7	2PNL2P01	LTG DISTR PNL 21	NS	NS1P01	BUP21R	0
2TB27-7	2BKR52-20101	MCC 201AT MN FDR BKR	NS	NS1P01	CB201T	0
2TB27-7	2BKR52-20116	DISTRIBUTION XFMR 480-208 120V	NS	NS1P01	CB216T	0
2TB27-7	2XDT21	LTG DISTR XFMR 21	NS	NS1P01	TM2P2R	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NS	NSC1SW	CVS28P	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCM11	IV262D	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCM11	IV262T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	NSCMI1	PSS62R	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264D	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264T	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	NSCMI2	PSS64R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSDPI1	HXA21P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21B	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSDPI2	HXI22B	0
2TB12-4	2MUFFIAFIL21	21 IA COMPR FILTER SILENCER	NS	NSHVI1	FL021P	0
2TB12-4	2MUFFIAFIL22	22 IA COMPR FILTER SILENCER	NS	NSHVI2	FLS22P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSIA99	HXA21B	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSIA99	HXA22B	0
2TB12-4	2ACCIA21	21 IA COMPR RCVR	NS	NSIA99	TK021B	0
2TB27-8	2ACCIA22	22 IA COMPR RCVR	NS	NSIA99	TK022B	0
A205	2ACC4070	IA ACCUMULATOR	NS	NSIA99	TKS70B	144
A205	2ACC4071	IA ACCUMULATOR	NS	NSIA99	TKS71B	144
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22AP	0
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22BP	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201T	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202P	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202T	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203T	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204T	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2PNL2NP0103B	IA DRYER 22 CONTROLLER	NS	NSIAHD	COD22R	0
2TB27-8	2FU2NP0103B/FU3	22 IA DRYER CONTR CKT FU	NS	NSIAHD	FUC22R	0
2TB27-8	2HS2004	22 IA DRYER H/S	NS	NSIAHD	HS204T	0
2TB27-8	2PCV2003	22 IA DRYER PILOT REG	NS	NSIAHD	PC203R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NSPA01	HXP11B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NS	NSPA01	HXP21B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NS	NSPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NS	NSPA01	TKP21B	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259R	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261O	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261O	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261P	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261P	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61D	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61R	0
2TB12-4	2PS2063	21 IA COMPR OIL PS LOW	NS	NSPSI1	PSS63R	0
2TB12-4	2TS2063	21 IA COMPR A/CLR OUT TS	NS	NSPSI1	TS263R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NSPSI1	TS282R	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	NSPSI2	PSS67R	0
2TB12-4	2TS2065	22 IA COMPR A/CLR OUT TS	NS	NSPSI2	TS065R	0
2TB12-4	2TS2084	22 IA COMPR I/CLR OUT TS	NS	NSPSI2	TS084R	0
A205	2CV1638	TB SRW HDR ISOL	NS	NSSRW	N/A	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	NSSRW	N/A	0
2TB12-4	2TCV1630	21 IA COMPR TCV	NS	NSSW11	C7S30P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSSW11	HXIA2P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSSW11	HXII2P	0
2TB12-4	2SV1629	21 IA COMPR A/CLR SRW INLET	NS	NSSW11	IVS29T	0
2TB12-4	2SV1630	21 IA COMPR SRW INLET	NS	NSSW11	IVS30T	0
2TB12-4	2TE1630	21 IA COMP CLR SRW TCV TE	NS	NSSW11	TE163R	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	NSSW12	C7634P	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSSW12	HXA22P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSSW12	HXI22P	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	NSSW12	IV633T	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	NSSW12	IV634T	0
2TB12-4	2TE1634	22 IA COMPR CLR SRW TCV TE	NS	NSSW12	TE634R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	PS056D	PS056D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	PS154D	PS154D	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	PSS62D	PSS62D	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	PSS64D	PSS64D	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	PSS67D	PSS67D	0
A205	2CV1637	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3637P	144
A205	2SV1637	TURB & EHC OIL SERV WTR ISOL VLV	NS	UNIT 2-TAFB01	C3637P	0
A205	2CV1639	TB SRW HDR ISOL	NS	UNIT 2-TAFB01	C3639P	144
A205	2SV1639	TURB LUB & EHC OIL SERVWTR ISO	NS	UNIT 2-TAFB01	C3639P	0
A205	2CV1600	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3600P	72
A205	2SV1600	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3600P	0
A205	2CV1638	TB SRW HDR ISOL	NS	UNIT 2-TBFB01	C3638P	72
A205	2SV1638	TURB BLDG SERV WTR ISOL VLV	NS	UNIT 2-TBFB01	C3638P	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	QC	QCMISC	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	QC	QCMISC	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	QC	QCMISC	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	QC	QCMISC	MYHD2Q	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
2TB12-3	2PUMPCBP21	21 CD CBP (2MA204)	QF	QFMISC	MXCB1Q	0
2TB12-3	2PUMPCBP22	22 CD CBP (2MA205)	QF	QFMISC	MXCB2Q	0
2TB12-2 (CP)	2PUMPCD21	21 CONDENSATE PUMP (2MA207)	QF	QFMISC	MXCP1Q	0
2TB12-3	2PUMPHDV21	21 FW HEATER DRAIN PUMP (2MA206)	QF	QFMISC	MXHD1Q	0
A226	1CV4522	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1CV4523	11 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	144
A226	1CV4532	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	40
A226	1CV4533	12 S/G AFW BLOCK VLV	QZ	BHEQZ1	Open	144
A226	1SV4522	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4523	11 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4532	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A226	1SV4533	12 S/G AFW BLOCK SV	QZ	BHEQZ1	Open	0
A119	1PUMPSIHP11	11 HIGH PRESS SAFETY INJECTION PUMP (1MA108)	RH	BHERH1	Start	24
A118	1PUMPSIHP13	13 HIGH PRESS SAFETY INJECTION PUMP (1MA110)	RH	BHERH1	Start	12
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	RL	RLFHSF	RLFHSF	0
A226	1CV5150	11 SRW HX SW INLET	S3	C1150P	C1150P	60
A226	1SV5150	SERV WTR HTEX 11 SALT WTR INLT	S3	C1150P	C1150P	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148C	C2148C	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148C	C2148C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148C	C2148C	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148C	C2148C	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148O	C2148O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148O	C2148O	0
A226	1SV5148	11A SRW HX SW STRAINER DIVERTER VALVE	S3	C2148O	C2148O	0
A226	1CV5148A	11A SRW HX SW STRAINER FLUSHING VALVE	S3	C2148T	C2148T	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2148T	C2148T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2148T	C2148T	0
A226	1SV5148A	11A SRW HX SW STRAINER FLUSHING SV	S3	C2148T	C2148T	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151C	C2151C	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151C	C2151C	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151C	C2151C	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151C	C2151C	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERTER VALVE	S3	C2151O	C2151O	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151O	C2151O	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151O	C2151O	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERTER SV	S3	C2151O	C2151O	0
A226	1CV5151A	11B SRW HX SW STRAINER FLUSHING VALVE	S3	C2151T	C2151T	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	C2151T	C2151T	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	C2151T	C2151T	0
A226	1SV5151A	11B SRW HX SW STRAINER FLUSHING SV	S3	C2151T	C2151T	0
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11R	MWS11R	32
A226	1PUMPSRW11	11 SERVICE WATER PUMP (1MA109)	S3	MWS11S	MWS11S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S3	MWS13S	MWS13S	32
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AB	0
A226	1HXSRW11A	11A SERVICE WATER PHE	S3	S3H11A	HX11AP	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BB	0
A226	1HXSRW11B	11B SERVICE WATER PHE	S3	S3H11B	HX11BP	0
A226	1CV5148	11A SRW HX STRAINER DIVERTER VALVE	S3	S3H1AV	C2148P	0
A226	1HS5148	11A SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1AV	C2148P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2148P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A226	1SV5148	11A SRW HX SW STRAINER DIVERter VALVE	S3	S3H1AV	C2148P	0
A226	1CV5209	11A SRW HX SALT WATER OUTLET VLV	S3	S3H1AV	C2209P	0
A226	1FIC5209	11A SRW HX SW OUTLET FLOW INDICATOR	S3	S3H1AV	C2209P	0
A226	1P/P5209	1CV5209 A/S VOLUME BOOSTER	S3	S3H1AV	C2209P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1AV	C2209P	0
A226	1SV5209	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1SV5209A	11A SRW HX SALT WATER OUTLET SV	S3	S3H1AV	C2209P	0
A226	1CV5151	11B SRW HX SW STRAINER DIVERter VALVE	S3	S3H1BV	C2151P	0
A226	1HS5148A	11A/11B SRW HX STRAINER MODE SELECT	S3	S3H1BV	C2151P	0
A226	1PNL1C200	11A/11B SRW HX STRAINER CONTROL	S3	S3H1BV	C2151P	0
A226	1SV5151	11B SRW HX SW STRAINER DIVERter SV	S3	S3H1BV	C2151P	0
A226	1CV5210	11 SRW HX SW OUTLET CV	S3	S3H1BV	C2210P	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	S3	S3H1BV	C2210P	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	S3	S3H1BV	C2210P	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	S3	S3H1BV	C2210P	0
A226	1ZC5210	1CV5210 POSITIONER	S3	S3H1BV	C2210P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA2R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	S3	S3TBAL	ATPA1R	0
A226	1CV5153	12 SRW HX SW NORM B/U OUTLET	S4	C1153P	C1153P	20
A226	1SV5153	SERV WTR HTEX 12 SALT WTR OUT	S4	C1153P	C1153P	0
A226	1CV5157	12A/12B SRW HX SALT WATER OUTLET VLV	S4	C2157T	C2157T	0
A226	1UP5157	12A/12B SRW HX SW OUT I/P	S4	C2157T	C2157T	0
A226	1P/P5157	1CV5157 A/S VOLUME BOOSTER	S4	C2157T	C2157T	0
A226	1SV5157	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1SV5157A	12A/12B SRW HX SALT WATER BYPASS SV	S4	C2157T	C2157T	0
A226	1ZC5157	1CV5157 POSITIONER	S4	C2157T	C2157T	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158C	C2158C	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158C	C2158C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158C	C2158C	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158C	C2158C	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERter VALVE	S4	C2158O	C2158O	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158O	C2158O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158O	C2158O	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERter SV	S4	C2158O	C2158O	0
A226	1CV5158A	12A SRW HX SW STRAINER FLUSHING VALVE	S4	C2158T	C2158T	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	C2158T	C2158T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2158T	C2158T	0
A226	1SV5158A	12A SRW HX SW STRAINER FLUSHING SV	S4	C2158T	C2158T	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159C	C2159C	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159C	C2159C	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159C	C2159C	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERter VALVE	S4	C2159O	C2159O	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159O	C2159O	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERter SV	S4	C2159O	C2159O	0
A226	1CV5159A	12B SRW HX SW STRAINER FLUSHING VALVE	S4	C2159T	C2159T	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C2159T	C2159T	0
A226	1SV5159A	12B SRW HX SW STRAINER FLUSHING SV	S4	C2159T	C2159T	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	C2212O	C2212O	48

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	C22120	C22120	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	C22120	C22120	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	C22120	C22120	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	C22120	C22120	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	C22120	C22120	0
A226	1ZC5212	1CV5212 POSITIONER	S4	C22120	C22120	0
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12R	MWS12R	32
A226	1PUMPSRW12	12 SERVICE WATER PUMP (1MA409)	S4	MWS12S	MWS12S	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13R	MWS13R	32
A226	1PUMPSRW13	13 SERVICE WATER PUMP (1MA411)	S4	MWS13S	MWS13S	32
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA2R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	S4	S3TBAL	ATPA1R	0
A226	1CV5152	12 SRW HX SW INLET	S4	S4CV52	C1152P	60
A226	1SV5152	SERV WTR HTEX 12 SALT WTR INLT	S4	S4CV52	C1152P	0
A226	1HVSRW-707	MANUAL SRW INLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW707P	0
A226	1HVSRW-708	MANUAL SRW OUTLET ISOLATION VLV TO 12A PHE	S4	S4H12A	HW708P	0
A226	1HXSrw12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AB	0
A226	1HXSrw12A	12A SERVICE WATER PHE	S4	S4H12A	HX12AP	0
A226	1HVSRW-709	MANUAL SRW INLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW709P	0
A226	1HVSRW-710	MANUAL SRW OUTLET ISOLATION VLV TO 12B PHE	S4	S4H12B	HW710P	0
A226	1HXSrw12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BB	0
A226	1HXSrw12B	12B SERVICE WATER PHE	S4	S4H12B	HX12BP	0
A226	1CV5158	12A SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2AV	C2158P	0
A226	1HS5158	12A SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1HS5158A	12A/12B SRW HX STRAINER MODE SELECT	S4	S4H2AV	C2158P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2158P	0
A226	1SV5158	12A SRW HX SW STRAINER DIVERTER SV	S4	S4H2AV	C2158P	0
A226	1CV5211	12A SRW HX SALT WATER OUTLET VLV	S4	S4H2AV	C2211P	0
A226	1FIC5211	12A SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2AV	C2211P	0
A226	1P/P5211	1CV5211 A/S VOLUME BOOSTER	S4	S4H2AV	C2211P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2AV	C2211P	0
A226	1SV5211	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1SV5211A	12A SRW HX SALT WATER OUTLET SV	S4	S4H2AV	C2211P	0
A226	1ZC5211	1CV5211 POSITIONER	S4	S4H2AV	C2211P	0
A226	1CV5159	12B SRW HX SW STRAINER DIVERTER VALVE	S4	S4H2BV	C2159P	0
A226	1HS5159	12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2159P	0
A226	1SV5159	12B SRW HX SW STRAINER DIVERTER SV	S4	S4H2BV	C2159P	0
A226	1CV5212	12 SRW HX SW OUT CV	S4	S4H2BV	C2212P	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	S4	S4H2BV	C2212P	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	S4	S4H2BV	C2212P	0
A226	1PNL1C201	12A/12B SRW HX STRAINER CONTROL	S4	S4H2BV	C2212P	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	S4	S4H2BV	C2212P	0
A226	1ZC5212	1CV5212 POSITIONER	S4	S4H2BV	C2212P	0
A111	1HS6902	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV01	HS692T	0
A111	1HS6903	1 HVAC/P H2 PURGE CONTR HS	SG	SGMV02	HS693T	0
A208	1CV2181	U-1 CONTMT WG HDR B/U ISOL	SH	IC181C	IC181C	12
A208	1SV2181	1-WGS-2181-CV SV	SH	IC181C	IC181C	12
A208	1CV2181	U-1 CONTMT WG HDR B/U ISOL	SH	IC181T	IC181T	12
A208	1SV2181	1-WGS-2181-CV SV	SH	IC181T	IC181T	12
A111	0PCV6512	O2 ANAL CAB SAMP INLET PCV	SH	PC512R	PC512R	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SHSV02	SV07BT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SHSV03	SV00BT	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SHSV05	SV07CT	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SHSV06	SV00CT	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SHSV08	SV07DT	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SHSV09	SV00DT	0
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	SH	SV00BD	SV00BD	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	SH	SV00CD	SV00CD	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	SH	SV00DD	SV00DD	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	SH	SV07BD	SV07BD	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	SH	SV07CD	SV07CD	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	SH	SV07DD	SV07DD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GD	SV07GD	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	SH	SV07GT	SV07GT	0
A228	1PUMPCC11	11 COMPONENT COOLING PUMP (1MB106)	SP(PP1)	BHEK12	Start	12
A228	1PUMPCC12	12 COMPONENT COOLING PUMP (1MB406)	SP(PP2)	BHEK12	Start	12
A228	1PUMPCC13	13 COMPONENT COOLING PUMP (1MB116)	SP(PP3)	BHEK12	Start	12
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144C	MV144C	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	SR	MV144T	MV144T	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145C	MV145C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	SR	MV145T	MV145T	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462C	MV462C	0
A122	1MOV5462	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV462T	MV462T	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463C	MV463C	0
A122	1MOV5463	U-1 CONTMT RECIRC PIPE TUNNEL	SR	MV463T	MV463T	0
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615C	MV615C	19
A227	1MOV615	11A LPSI LOOP ISOL	SR	MV615T	MV615T	19
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625C	MV625C	0
A227	1MOV625	11B LPSI LOOP ISOL	SR	MV625T	MV625T	0
1TB12-3 (CP)	1CV4406	CST TO HTWL MU CV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1P4406	COND STORAGE TO HOTWELL CONT	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	T1	T1CS1F	LT405R	0
2TB27-2E	2CV4406	21 CST TO HTWL MU CV	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2P4406	COND STORAGE TO HOTWELL CONTRL	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2LT4405	CD HOTWELL LEVEL CONTROL LT	T1	T1CS2F	LTB05R	0
A226	1CV1637	TURB BLDG SRW HDR 11 ISOL	TA	TAFB01	C3637P	144
A226	1SV1637	TURB LUBE&EHC OIL SERVWTR ISOL	TA	TAFB01	C3637P	0
A226	1CV1639	TURB BLDG SRW HDR 11 ISOL	TA	TAFB01	C3639P	144
A226	1SV1639	TURB LUB & EHC OIL SERV WTR IS	TA	TAFB01	C3639P	0
A226	1CV1600	TURB BLDG SRW HDR 12 ISOL	TB	TBFB01	C3600P	72
A226	1SV1600	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3600P	0
A226	1CV1638	TURB BLDG SRW HDR 12 ISOL	TB	TBFB01	C3638P	72
A226	1SV1638	TURB BLDG SERV WTR ISOL VLV	TB	TBFB01	C3638P	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	MV144O	MV144O	0
A122	1MOV4144	CONTMT SUMP OUT ISOL	TE	TE0101	MV144P	0
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RR	AW11RR	30
T603	1PUMPAFWTD11	11 AUX FW TURB DRIVEN PP	TF	AW11RS	AW11RS	30
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	TF11TP	VT986P	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	TF11TP	VT986P	0
T603	1CV3986	11 AFW TURB THROT/STOP VLV	TF	VT986O	VT986O	0
T603	1SV3986	11 AFW PP TURB THROT/STOP VLV TRIP	TF	VT986O	VT986O	0
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RR	AW12RR	30
T603	1PUMPAFWTD12	12 AUX FW TURB DRIVEN PP	TG	AW12RS	AW12RS	30
A227	1SV4070	11 S/G ISOL VLV AFW PP 11 & 12	TG	BHEF1Y	Open	0
A227	1SV4071	12 S/G MS TO AFW PP	TG	BHEF1Y	Open	0
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	TGTP12	VT988P	0
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	TGTP12	VT988P	0
T603	1CV3988	12 AFW TURB THROT/STOP VLV	TG	VT988O	VT988O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
T603	1SV3988	12 AFW PP TURB THROT/STOP VLV TRIP	TG	VT988O	VT988O	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	TH(HD1)	BHER3B	Open	13
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	TH(HD1)	BHER3B	Open	0
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	TH(HD1)	BHER3B	Open	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	TH(HD1)	BHER3B	Open	0
A228	1CV5206	11 CC HX SW OUTLET	TH(HD1)	BHER3B	Throttle	0
A226	1CV5210	11 SRW HX SW OUTLET CV	TH(HD1)	BHER3B	Throttle	60
A226	1FIC5210	11A SRWHX SW OUTLET FLOW INDICATOR	TH(HD1)	BHER3B	Throttle	0
A228	1I/P5206	SALT WTR OUT COMPONT CLG HTEX	TH(HD1)	BHER3B	Throttle	0
A226	1P/P5210	1CV5210 A/S VOLUME BOOSTER	TH(HD1)	BHER3B	Throttle	0
A228	1SV5206	COMP CLG HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A228	1SV5206A	COMP CLG HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1SV5210A	SERV WTR HTEX 11 SALT WTR OUT	TH(HD1)	BHER3B	Throttle	0
A226	1ZC5210	1CV5210 POSITIONER	TH(HD1)	BHER3B	Throttle	0
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	TH(HD2)	BHER3B	Open	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	TH(HD2)	BHER3B	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	TH(HD2)	BHER3B	Open	0
A228	1CV5208	12 CC HX SW NORM OUT	TH(HD2)	BHER3B	Throttle	0
A226	1CV5212	12 SRW HX SW OUT CV	TH(HD2)	BHER3B	Throttle	48
A226	1FIC5212	12B SRWHX SW OUTLET FLOW INDICATOR	TH(HD2)	BHER3B	Throttle	0
A228	1I/P5208	SALT WTR OUT COMPONT CLG HTEX	TH(HD2)	BHER3B	Throttle	0
A226	1P/P5212	1CV5212 A/S VOLUME BOOSTER	TH(HD2)	BHER3B	Throttle	0
A228	1SV5208	COMP CLG HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A228	1SV5208A	COMP CLG HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1SV5212A	SERV WTR HTEX 12 SALT WTR OUT	TH(HD2)	BHER3B	Throttle	0
A226	1ZC5212	1CV5212 POSITIONER	TH(HD2)	BHER3B	Throttle	0
1TB27-6	1CVMT-11	11 MT CV	TT	V1CV1C	V1CV1C	0
1TB27-6	1CVMT-12	12 MT CV	TT	V1CV2C	V1CV2C	0
1TB27-6	1CVMT-13	13 MT CV	TT	V1CV3C	V1CV3C	0
1TB27-6	1CVMT-14	14 MT CV	TT	V1CV4C	V1CV4C	0
1TB27-6	1FCVMT-11	11 MT STOP VLV	TT	V1SV1C	V1SV1C	0
1TB27-6	1FCVMT-12	12 MT STOP VLV	TT	V1SV2C	V1SV2C	0
1TB27-6	1FCVMT-13	13 MT STOP VLV	TT	V1SV3C	V1SV3C	0
1TB27-6	1FCVMT-14	14 MT STOP VLV	TT	V1SV4C	V1SV4C	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	MV145O	MV145O	0
A122	1MOV4145	CONTMT SUMP OUT ISOL	TW	TW0101	MV145P	0
A224	1PS4404	11 MT CONDENSER LOW VACUUM PS	TX	PS404D	PS404D	0
A224	1PS4405	11 MT CONDENSER LOW VACUUM PS	TX	PS405D	PS405D	0
A224	1PS4407	12 MT CONDENSER LOW VACUUM PS	TX	PS407D	PS407D	0
A224	1PS4408	12 MT CONDENSER LOW VACUUM PS	TX	PS408D	PS408D	0
A224	1PS4410	13 MT CONDENSER LOW VACUUM PS	TX	PS410D	PS410D	0
A224	1PS4411	13 MT CONDENSER LOW VACUUM PS	TX	PS411D	PS411D	0
A226	1CV4525	11 S/G AFW FLOW CONT VLV	UQ	BHEUQ1	Throttle	144
A226	1CV4535	12 S/G AFW FLOW CONT VLV	UQ	BHEUQ1	Throttle	144
A226	1I/P4525A	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4525B	11 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535A	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A226	1I/P4535B	12 AFW FLO CONTR VLV I/P	UQ	BHEUQ1	Throttle	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	TS404D	TS404D	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	V1	V1CLSE	WC170P	13
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	V1	V1CLSE	WC170P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC170P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	V1	V1CLSE	WC171P	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1CLSE	WC171P	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	V1TEMP	TS404R	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205B	0
A119	1HXHVACECCS11	ECCS PUMP ROOM AIR COOLER 11	V1	V1TRFR	HX205P	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AR	VD11AR	22
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	V1	VD11AS	VD11AS	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BR	VD11BR	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	V1	VD11BS	VD11BS	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CR	VD11CR	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	V1	VD11CS	VD11CS	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DR	VD11DR	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	V1	VD11DS	VD11DS	22
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	V1	WC170D	WC170D	13
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	V1	WC170D	WC170D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170D	WC170D	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	V1	WC170O	WC170O	13
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	V1	WC170O	WC170O	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC170O	WC170O	0
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	V1	WC171D	WC171D	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	V1	WC171D	WC171D	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171D	WC171D	0
A228	1CV5171	11 ECCS PP RM AIR CLR SW OUTLET	V1	WC171O	WC171O	0
A228	1SV5171	ECCS PP RM AIR CLR 11 WTR OUT	V1	WC171O	WC171O	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	V1	WC171O	WC171O	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	TS405D	TS405D	0
A228	1CV5174	12 ECCS PP RM AIR CLR SW NORM OUTLET	V2	V2CLSE	WC174P	0
A228	1SV5174	ECCS PP RM HTEX 12 SLT WTR OUT	V2	V2CLSE	WC174P	0
A228	1CV5175	12 ECCS PP RM AIR CLR SW NORM B/U OUT	V2	V2CLSE	WC175P	0
A228	1SV5175	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2CLSE	WC175P	0
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	V2	V2INLT	WC173P	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	V2	V2INLT	WC173P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2INLT	WC173P	0
A228	1CV5177	12 ECCS PP RM AIR CLR SW AUX OUTLET	V2	V2OTLT	C4177O	0
A228	1SV5177	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4177O	0
A228	1CV5177	12 ECCS PP RM AIR CLR SW AUX OUTLET	V2	V2OTLT	C4177P	0
A228	1SV5177	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4177P	0
A228	1CV5178	12 ECCS PP RM AIR CLR SW AUX B/U OUT	V2	V2OTLT	C4178O	0
A228	1SV5178	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4178O	0
A228	1CV5178	12 ECCS PP RM AIR CLR SW AUX B/U OUT	V2	V2OTLT	C4178P	0
A228	1SV5178	ECCS PP RM AIR CLR 12 WTR OUT	V2	V2OTLT	C4178P	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	V2TEMP	TS405R	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207B	0
A118	1HXHVACECCS12	ECCS PUMP ROOM AIR COOLER 12	V2	V2TRFR	HX207P	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AR	VD12AR	22
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	V2	VD12AS	VD12AS	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BR	VD12BR	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	V2	VD12BS	VD12BS	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CR	VD12CR	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	V2	VD12CS	VD12CS	22
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	V2	WC173D	WC173D	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	V2	WC173D	WC173D	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173D	WC173D	0
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	V2	WC173O	WC173O	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	V2	WC173O	WC173O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	V2	WC173O	WC173O	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11R	VDF11R	0
A225	1FANHVACECCSE11	11 ECCS PUMP RM EXH (1M1413)	V5	VDF11S	VDF11S	0
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12R	VDF12R	0
A225	1FANHVACECCSE12	12 ECCS PUMP RM EXH (1M0413)	V5	VDF12S	VDF12S	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	VC	MMS11R	MMS11R	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	VC	MMS12R	MMS12R	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	VC	MMS13R	MMS13R	0
1TB12-2 (CP)	1PUMPCAR11	11 CAR VAC PP (1MB203)	VC	MMV11R	MMV11R	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	VC	MMV12R	MMV12R	0
1TB12-2 (CP)	1PUMPCAR13	13 CAR VAC PP (1MB303)	VC	MMV13R	MMV13R	0
1TB12-2	1CV1627	SRW TO COND VAC PP PCV	VC	VC0SRW	C3627P	0
1TB12-2	1PIC1627	10 SRW CND SR PP VAC INL PIC	VC	VC0SRW	PC627R	0
1TB27-3	1MOV6717	COND VAC BKR	VC	VC717T	MV717T	0
1TB12-3 (CP)	1HS5225	11 CW PP WTRBX INL VLV HS	VC	VCCW1A	HS225T	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	VC	VCCW1A	MV225P	0
A226	1PCV5214	11 CW PP SEAL WTR PCV	VC	VCCW1A	PC214R	0
1TB12-3 (CP)	1HS5229	12 CW PP WTRBX INL VLV HS	VC	VCCW2A	HS229T	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	VC	VCCW2A	MV229P	0
A226	1PCV5216	12 CW PP SEAL WTR PCV	VC	VCCW2A	PC216R	0
1TB12-3 (CP)	1HS5233	13 CW PP WTRBX INL VLV HS	VC	VCCW3A	HS233T	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	VC	VCCW3A	MV233P	0
A226	1PCV5218	13 CW PP SEAL WTR PCV	VC	VCCW3A	PC218R	0
1TB12-3 (CP)	1HS5237	14 CW PP WTRBX INL VLV HS	VC	VCCW4A	HS237T	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	VC	VCCW4A	MV237P	0
A226	1PCV5220	14 CW PP SEAL WTR PCV	VC	VCCW4A	PC220R	0
1TB12-3 (CP)	1HS5241	15 CW PP WTRBX INL VLV HS	VC	VCCW5A	HS241T	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	VC	VCCW5A	MV241P	0
A226	1PCV5222	15 CW PP SEAL WTR PCV	VC	VCCW5A	PC222R	0
1TB12-3 (CP)	1HS5245	15 CW PP WTRBX INL VLV HS	VC	VCCW6A	HS245T	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	VC	VCCW6A	MV245P	0
A226	1PCV5224	16 CW PP SEAL WTR PCV	VC	VCCW6A	PC224R	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098C	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098C	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098T	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098T	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098D	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098R	0
1TB12-2 (CP)	1CV1754	11 CAR UNIT MOTIVE AIR	VC	VCP011	C3754P	0
1TB12-2	1SV1753	11 CAR BYP & MOTIVE VLV	VC	VCP011	C3754P	0
1TB12-2 (CP)	1CV1755	11 CAR UNIT SYS DIAPHRAM	VC	VCP011	C3755P	0
1TB12-2 (CP)	1LCV1753	11 CAR SEP	VC	VCP011	LC753R	0
1TB12-2 (CP)	1PS1755	11 CAR CND SR VAC PP SEAL LOW PRESSURE WTR	VC	VCP011	PS755R	0
1TB12-2 (CP)	1CV1757	12 CAR UNIT MOTIVE AIR	VC	VCP012	C3757P	0
1TB12-2	1SV1756	12 CAR BYP & MOTIVE VLVS	VC	VCP012	C3757P	0
1TB12-2 (CP)	1CV1758	12 CAR UNIT SYS DIAPHRAM	VC	VCP012	C3758P	0
1TB12-2 (CP)	1LCV1756	12 CAR SEP LO LVL CONTROL	VC	VCP012	LC756R	0
1TB12-2 (CP)	1PS1758	12 CAR CND SR VAC PP SEAL WTR LOW PRESSURE	VC	VCP012	PS758R	0
1TB12-2 (CP)	1CV1760	13 CAR UNIT MOTIVE AIR	VC	VCP013	C3760P	0
1TB12-2	1SV1759	13 CAR BYP & MOTIVE VLVS	VC	VCP013	C3760P	0
1TB12-2 (CP)	1CV1761	13 CAR UNIT SYS DIAPHRAM	VC	VCP013	C3761P	0
1TB12-2 (CP)	1LCV1759	SEP LO LVL CONTROL	VC	VCP013	LC759R	0
1TB12-2 (CP)	1PS1761	13 CAR CND SR VAC PP SEAL WTR LOW PRESSURE	VC	VCP013	PS761R	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11B	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11P	0
1TB27-1	1RY1B0636/1Y0636	11 RECIRC SEAL PP INTK RE	VC	VCS011	RY036P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12B	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12P	0
1TB27-1	1RY1B0637/1Y0637	12 RECIRC SEAL PP INTK RELAY	VC	VCS012	RY037P	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13B	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13P	0
1TB27-1	1RY1B1636/1Y1636	13 RECIRC SEAL PP INTK RELAY	VC	VCS013	RY136P	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681O	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681P	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	VC	VCTGS1	MV659P	0
1TB12-4	1PC4681	GS STM SEAL FEED VLV CONTROL PC	VC	VCTGS1	PC681R	0
A228	1CV5170	11 ECCS PP RM AIR CLR SW INLET	VM(RM1)	BHEV1T	Open	13
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	VM(RM1)	BHEV1T	Open	0
A228	1SV5170	ECCS PP RM AIR CLR 11 WTR IN	VM(RM1)	BHEV1T	Open	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	VM(RM1)	BHEV1T	Open	0
A119	1TS5404	ECCS PUMP ROOM 11 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM1)	BHEV1T	Open	0
A119	1FAN1448A	ECCS PP RM CLR 11 FAN A (1M1448A)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448B	ECCS PP RM CLR 11 FAN B (1M1448B)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448C	ECCS PP RM CLR 11 FAN C (1M1448C)	VM(RM1)	BHEV1T	Start	22
A119	1FAN1448D	ECCS PP RM CLR 11 FAN D (1M1448D)	VM(RM1)	BHEV1T	Start	22
A228	1CV5173	12 ECCS PP RM AIR CLR SW INLET	VM(RM2)	BHEV1T	Open	0
A228	1SV5173	ECCS PP RM AIR CLR 12 WTR IN	VM(RM2)	BHEV1T	Open	0
A118	1TS5405	ECCS PUMP ROOM 12 COOLING FAN	VM(RM2)	BHEV1T	Open	0
A118	1FAN0448A	ECCS PP RM CLR 12 FAN A (1M0448A)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448B	ECCS PP RM CLR 12 FAN B (1M0448B)	VM(RM2)	BHEV1T	Start	22
A118	1FAN0448C	ECCS PP RM CLR 12 FAN C (1M0448C)	VM(RM2)	BHEV1T	Start	22
A111	1SV5900B	U-1 CONTMT S PRI SHLD 1-SX-5900B	WJ	BHESH2	Shut	0
A111	1SV5900C	U-1 PZR 1-SX-5900C	WJ	BHESH2	Shut	0
A111	1SV5900D	U-1 CONTMT 135' E 1-SX-5900D	WJ	BHESH2	Shut	0
A221	1SV6507B	SOUTH PRIM SHLD H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507C	PRESSURIZ COMPRT H2 SAMPL ANAL	WJ	BHESH2	Shut	0
A221	1SV6507D	EAST EL 135 FT H2 SAMPLE ANAL	WJ	BHESH2	Shut	0
A221	1SV6507G	H2 ANAL RETN TO CONTMT ATMOS ISOL	WJ	BHESH2	Shut	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	CV584O	CV584O	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	CV584O	CV584O	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	CV584O	CV584O	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	CV592O	CV592O	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	CV592O	CV592O	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	CV592O	CV592O	0
A221	1CV1584	12 CNTMT CLG U NORM INLET	WY	WB102F	CV584P	0
A221	1I/P1584	CNTMT CLR 12 SERV WTR INLT	WY	WB102F	CV584P	0
A221	1SV1584	CNTMT CLR 12 SERV WTR INLT VLV	WY	WB102F	CV584P	0
A221	1CV1592	14 CNTMT CLG U NORM INLET	WY	WD102F	CV592P	0
A221	1I/P1592	CNTMT CLR 14 SERV WTR INLT	WY	WD102F	CV592P	0
A221	1SV1592	CNTMT CLR 14 INLT VLV CONTROL	WY	WD102F	CV592P	0



**Flood Evaluation Query****CF-31C-FT12AM**

02-Dec-98

<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
AE	4BKR	4 breaker challenges.	PAJ
AF	4BKR	4 breaker challenges.	PAJ
BS	Spec Impt	All TBVs fail closed on loss of power. An excessive steam demand will not occur.	PAJ
BV	F	All TBVs fail closed on loss of power.	PAJ
FC	Spec Impt	1MCC101BT fails. This MCC supplies power to AFW Turb PP Rm NSR A/C Unit.	PAJ
FN	None	Only has 1 PCV. I am assuming that these valves will not fail during a flood.	PAJ
FT	None	Stop valves fail closed. If SGFPs are secured, which they are (See Top MT), this top is successful.	PAJ
GW	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
GZ	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
IP	None	Air accumulator only. Mechanical operation only.	PAJ
K5	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
LF	F	1CV1105/1106/4405/4406 fail closed on loss of power and loss of air.	PAJ
M7	F	MCC 106T fails.	PAJ
M8	F	MCC 116T fails.	PAJ
MC	F	All condensate pumps fail.	PAJ
MN	F	Both SGFPs trip.	PAJ
MP	F	1CV1111/1121 are normally open and fail as-is.	PAJ
MT	None	SGFP trip in this scenario. See top MN.	PAJ

TOP	PM	EVALUATION	RI
N1	1BKR	1 breaker challenge.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	1BKR	1 breaker challenge.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N8	3BKR	3 breaker challenges.	PAJ
NR	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail. (Note 45)*	PAJ
NS	None <del>F</del>	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail. (Note 45)*	PAJ
QC	None <del>4BKR</del>	<del>4 breaker challenges.</del> (note 39)*	PAJ
QF	None <del>4BKR</del>	<del>4 breaker challenges.</del> (note 39)*	PAJ
RL	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
S3	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
S4	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
T1	None	1CV4406 and 2CV4406 fails closed.	PAJ
TT	None	Control and Stop valves fail closed.	PAJ
VC	F	All Condenser Vacuum Pumps Fail.	PAJ

\* see notes in RAN 98-065 sect. 5.4

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	AE	MYCB1Q	MYCB1Q	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	AE	MYCB2Q	MYCB2Q	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	AE	MYCP1Q	MYCP1Q	0
1TB12-2	1PUMPHDV11	11 FW HEATER DRAIN PUMP (1MA206)	AE	MYHD1Q	MYHD1Q	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	AF	MYCB3Q	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	AF	MYCP2Q	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	AF	MYCP3Q	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	AF	MYHD2Q	MYHD2Q	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400O	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940T	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BS	BS3940	IV940T	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3940	IZ940R	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940I	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940R	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420O	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942T	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BS	BS3942	IV942T	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3942	IZ942R	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942I	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942R	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440O	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944T	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BS	BS3944	IV944T	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3944	IZ944R	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944I	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944R	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460O	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946T	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BS	BS3946	IV946T	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3946	IZ946R	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX946I	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX960R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1PT4056	MS TURB BYPASS VLV CONTROL PT	BS	BS4056	PT056R	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS940C	AB40BC	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40AD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40BD	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS942C	AB42BC	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	IV42AD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	IV42BD	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS944C	AB44BC	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	IV44AD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	IV44BD	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS946C	AB46BC	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	IV46AD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	IV46BD	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	C5940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	C5942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	C5944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	C5946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BV	BV3940	AB40BO	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	BV3940	C5940P	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3940	C5940P	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BV3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AD	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AT	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BT	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BV	BV3942	AB42BO	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	BV3942	C5942P	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3942	C5942P	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BV3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AD	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AT	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BT	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BV	BV3944	AB44BO	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	BV3944	C5944P	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3944	C5944P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BV3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AD	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AT	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BT	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BV	BV3946	AB46BO	0
1TB27-3	1CV3946	TURB BY VLV (TBV)	BV	BV3946	C5946P	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3946	C5946P	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BV3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AD	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AT	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BT	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BVCLVR	IV940T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BVCLVR	IV942T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BVCLVR	IV944T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BVCLVR	IV946T	0
1TB27-3	1CV3940	TURB BY VLV (TBV)	BV	C59400	C59400	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C59400	C59400	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	C59400	C59400	0
1TB27-3	1CV3942	TURB BY VLV (TBV)	BV	C59420	C59420	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C59420	C59420	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	C59420	C59420	0
1TB27-3	1CV3944	TURB BY VLV (TBV)	BV	C59440	C59440	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C59440	C59440	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	C59440	C59440	0
1TB27-3	1CV3946	TURB BY VLV (TBV)	BV	C59460	C59460	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C59460	C59460	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	C59460	C59460	0
1TB12-1	1AFWDOORS	AFW DOUBLE DOORS	FC	Dummy	N/A	0
1TB27-1	1MCC101BT	MCC 101BT	FC	FC1MCC	BU1BTR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	FC	FC1MCC	CB141T	0
1TB12	1PCV1600	AUX FD PP RM CLR TEMP REG VLV	FC	FCSRWC	CV600P	0
1TB12-1	1FDTB12W1	AFW RM SUPPLY FROM AFW TO TB12 FD	FC	FDAMPR	FD002I	0
1TB12	1PCV4510	11A AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV510P	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	FT	FTFW30	SV010D	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	FT	FTFW40	SV059D	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCO	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCT	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HSO	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HST	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCT	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LSO	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LST	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCT	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HSO	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HST	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCT	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LSO	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LST	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GW	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GW	S7TBAL	ATI22R	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	GW	S7TBAL	ATP21R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI22R	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	GZ	S7TBAL	ATP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	IP	IPIA99	TK11B	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	K5	K5FIRE	K5FHSF	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106P	C3106P	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1CV4405	HOTWELL TO COND STORAGE VLV	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1I/P4405	HOTWELL TO COND STORAGE CONT	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	LF	LFMUCV	LT405R	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BP	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	LF	RY83AT	RY83AT	0
1TB27-1	1MCC106T	MCC 106T	M7	BU213Q	BU213Q	0
1TB27-1	1MCC106T	MCC 106T	M7	BUM06R	BUM06R	0
1TB12-2 (CP)	1PNL1C51	11A AMERTAP CNTL PNL 1C51	M7	BUP23Q	BUP23Q	0
1TB12-2 (CP)	1PNL1C52	11B AMERTAP CNTL PNL 1C52	M7	BUP24Q	BUP24Q	0
1TB12-2 (CP)	1PNL1C53	12A AMERTAP CNTL PNL 1C53	M7	BUP25Q	BUP25Q	0
1TB27-1	1BKR52-10602	MCC 106T CIRC H2O PP DISCH 1MOV-5225 BKR	M7	CBP02O	CBP02O	0
1TB27-1	1BKR52-10603	MCC 106T CIRC H2O PP 12 DISCH 1MOV-5229 BKR	M7	CBP03O	CBP03O	0
1TB27-1	1BKR52-10604	MCC 106T CIRC H2O PP 13 DISCH 1MOV-5233 BKR	M7	CBP04O	CBP04O	0
1TB27-1	1BKR52-10605	MCC 106T WELDING RECEPTACLES 1W40-1W43	M7	CBP05O	CBP05O	0
1TB27-1	1BKR52-10606	MCC 106T WELDING RECEPTACLES 1W44-1W47	M7	CBP06O	CBP06O	0
1TB27-1	1BKR52-10607	MCC 106T COND PP 11 LUBE OIL PP BKR	M7	CBP07O	CBP07O	0
1TB27-1	1BKR52-10608	MCC 106T CIRC WTR PRIMING PP 11 BKR	M7	CBP08O	CBP08O	0
1TB27-1	1BKR52-10609	MCC 106T CIRC WTR PRIMING PP 12 BKR	M7	CBP09O	CBP09O	0
1TB27-1	1BKR52-10610	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 11 BKR	M7	CBP10O	CBP10O	0
1TB27-1	1BKR52-10611	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 12 BKR	M7	CBP11O	CBP11O	0
1TB27-1	1BKR52-10612	MCC 106T SGFP 11 LUBE OIL CONDITIONER BKR	M7	CBP12O	CBP12O	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	M7	CBP13O	CBP13O	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	M7	CBP14O	CBP14O	0
1TB27-1	1BKR52-10615	SGFP 11 OIL VAPOR EXTRACTOR	M7	CBP15O	CBP15O	0
1TB27-1	1BKR52-10616	MCC 106T BEARING OIL VAPOR EXTR 11 BKR	M7	CBP16O	CBP16O	0
1TB27-1	1BKR52-10617	MCC 106T STM LEAD DRN 1MOV-4652(CV2) BKR	M7	CBP17O	CBP17O	0
1TB27-1	1BKR52-10618	MCC 106T STM LEAD DRN 1MOV-4651(CV4) BKR	M7	CBP18O	CBP18O	0
1TB27-1	1BKR52-10619	MCC 106T HYDRAULIC FLUID FILT PP 11 BKR	M7	CBP19O	CBP19O	0
1TB27-1	1BKR52-10620	MCC 106T MN OIL SEAL PP 11 (MN GEN)	M7	CBP20O	CBP20O	0
1TB27-1	1BKR52-10621	MCC 106T SEAL OIL RECIRC PP 11 BKR	M7	CBP21O	CBP21O	0
1TB27-1	1BKR52-10622	MCC 106T SEAL VACUUM PP 11 BKR	M7	CBP22O	CBP22O	0
1TB27-1	1BKR52-10623	MCC 106T 11A AMERTAP CONTR PNL 1C51 BKR	M7	CBP23O	CBP23O	0
1TB27-1	1BKR52-10624	MCC 106T 11B AMERTAP CONTR PNL 1C52	M7	CBP24O	CBP24O	0
1TB27-1	1BKR52-10625	MCC 106T 12A AMERTAP CONTR PNL 1C53 BKR	M7	CBP25O	CBP25O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-10626	MCC 106T UNIT HTR 9 BKR	M7	CBP26O	CBP26O	0
1TB27-1	1BKR52-10627	MCC 106T UNIT HTR 10 BKR	M7	CBP27O	CBP27O	0
1TB27-1	1BKR52-10628	MCC 106T SGFP 11 LP STOP VLV DRN B 1MOV-5090 BKR	M7	CBP28O	CBP28O	0
1TB27-1	1BKR52-10629	MCC 106T COMBINED CNTMT DRN 1MOV-4658(CV) BKR	M7	CBP29O	CBP29O	0
1TB27-1	1BKR52-10630	GLAND SEAL STEAM SUPPLY VALVE 1-MOV-4659	M7	CBP30O	CBP30O	0
1TB27-1	1BKR52-10631	MCC 106T STM SEAL BY-PASS 1MOV-4656(S2) BKR	M7	CBP31O	CBP31O	0
1TB27-1	1BKR52-10632	MCC 106T STM SEAL UNLOADING 1MOV-4657(B) BKR	M7	CBP32O	CBP32O	0
1TB27-1	1BKR52-10633	MCC 106T STM PACK EXH 11 BKR	M7	CBP33O	CBP33O	0
1TB27-1	1BKR52-10635	MCC 106T AUX BOILER FUEL PP 11 BKR	M7	CBP35O	CBP35O	0
1TB27-1	1BKR52-10636	MCC 106T COND VACUUM RECIRC SEAL PP 11 BKR	M7	CBP36O	CBP36O	0
1TB27-1	1BKR52-10637	MCC 106T COND VACUUM RECIRC SEAL PP 12 BKR	M7	CBP37O	CBP37O	0
1TB27-1	1BKR52-10638	SGFP 11 LP STOP VLV DRN 1-MOV-5089	M7	CBP38O	CBP38O	0
1TB27-1	1BKR52-10639	LIGHTING XFMR (1L11/1L17) L-208-218	M7	CBP39O	CBP39O	0
1TB27-1	1BKR52-10640	MCC 106T SGFP 11 EXH 1MOV-3964 BKR	M7	CBP40O	CBP40O	0
1TB27-1	1BKR52-10642	MCC 106T UNIT HTR 11 BKR	M7	CBP42O	CBP42O	0
1TB27-1	1BKR52-10643	MCC 106T UNIT HTR 12 BKR	M7	CBP43O	CBP43O	0
1TB27-1	1BKR52-10644	MCC 106T SGFP 11 HP STOP VLV DRN B 1MOV-5088 BKR	M7	CBP44O	CBP44O	0
1TB27-1	1BKR52-10645	ROADWAY LIGHTING PANEL 1L54	M7	CBP45O	CBP45O	0
1TB27-1	1BKR52-10646	MCC 106T SGFP 11 HP STOP VLV DRN A 1MOV-5087 BKR	M7	CBP46O	CBP46O	0
1TB27-1	1BKR52-10647	DISTRIBUTION XFMR 16 480-208/120V	M7	CBP47O	CBP47O	0
1TB27-1	1BKR52-10648	MCC 106T UNIT HTR 13 BKR	M7	CBP48O	CBP48O	0
1TB27-1	1BKR52-10649	MCC 106T SGFP 11 1ST STG DRN 1MOV-5091 BKR	M7	CBP49O	CBP49O	0
1TB27-1	1BKR52-10651	MCC 106T RHT STM SUPP 1MOV-4026 BKR	M7	CBP51O	CBP51O	0
1TB27-1	1BKR52-10652	MCC 106T MS TO MS RHTR 11 1MOV-4018 BKR	M7	CBP52O	CBP52O	0
1TB27-1	1BKR52-10653	MCC 106T EXTRACT STM TO MS RHTR 11 1MOV-4019 BKR	M7	CBP53O	CBP53O	0
1TB27-1	1BKR52-10654	SMOKE REMOVAL DAMPER 0M05390 (CLOSED)	M7	CBP54O	CBP54O	0
1TB27-1	1BKR52-10656	CR & CBL SPREADING RM CHILL WTR SUPP PP 11	M7	CBP56O	CBP56O	0
1TB27-1	1BKR52-10657	MCC 106T TURB BLDG SUPP FAN 13 BKR	M7	CBP57O	CBP57O	0
1TB27-1	1BKR52-10658	MCC 106T TURB BLDG SUPP FAN 14 BKR	M7	CBP58O	CBP58O	0
1TB27-1	1BKR52-10659	MCC 106T COND PP 11 FAN BKR	M7	CBP59O	CBP59O	0
1TB27-1	1BKR52-10661	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP61O	CBP61O	0
1TB27-1	1BKR52-10662	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP62O	CBP62O	0
1TB27-1	1BKR52-10663	MCC 106T BOOSTER JOCKEY PP FIRE PROT SYS BKR	M7	CBP63O	CBP63O	0
1TB27-1	1BKR52-10667	MCC 106T TURB AREA OILY SUMP 11 PP 11 BKR	M7	CBP67O	CBP67O	0
1TB27-1	1BKR52-10668	MCC 106T TURB AREA OILY SUMP 11 PP 12 BKR	M7	CBP68O	CBP68O	0
1TB27-1	1BKR52-10669	MCC 106T SMOKE REMOVAL DMPR 0M05391 BKR	M7	CBP69O	CBP69O	0
1TB27-1	1BKR52-10670	MCC 106T SMOKE REMOVAL DMPR 0M05392 BKR	M7	CBP70O	CBP70O	0
1TB27-1	1BKR52-10671	MCC 106T AUX BD TK PP 11 BKR	M7	CBP71O	CBP71O	0
1TB27-1	1BKR52-10672	MCC 106T SPARE BKR	M7	CBP72O	CBP72O	0
1TB27-1	1BKR52-10673	SERV XFMR (P-13000-1) COOLING B (EMERGENCY)	M7	CBP73O	CBP73O	0
1TB27-1	1BKR52-10674	SERV XFMR (U-4000-11) COOLING A (NORMAL)	M7	CBP74O	CBP74O	0
1TB27-1	1BKR52-10675	SERV XFMR (U-4000-21) COOLING A (NORMAL)	M7	CBP75O	CBP75O	0
1TB27-1	1BKR52-10676	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11A BKR	M7	CBP76O	CBP76O	0
1TB27-1	1BKR52-10677	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11B BKR	M7	CBP77O	CBP77O	0
1TB27-1	1BKR52-10678	MCC 106T HTR DRN PP 11 LUBE OIL COOLER FAN BKR	M7	CBP78O	CBP78O	0
1TB27-1	1BKR52-10601	MAIN FEEDER BREAKER	M7	M7BCBM	CBP01T	0
1TB12-3	1PUMPSTC11	11 MG STATOR WTR CLG PUMP (1MB216)	M7	MB215Q	MB215Q	0
1TB12-4	1PUMPEHC11	11 MT EHC HYD UNIT PUMP (1MB216)	M7	MB216Q	MB216Q	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	M7	MB217Q	MB217Q	0
2TB27-8	0PUMPPHM11	11 MAIN HTG HWC PUMP (1MB225)	M7	MB225Q	MB225Q	0
1TB12-3	1PUMPWBP11	11 CW WTRBX PRMG PP (1M0608)	M7	MBP08Q	MBP08Q	0
1TB12-3	1PUMPWBP12	12 CW WTRBX PRMG PP (1M0609)	M7	MBP09Q	MBP09Q	0
1TB12-3	1PUMPWBPSWP11	11 CW WTRBX PRMG PP SEAL WTR PUMP (1M0610)	M7	MBP10Q	MBP10Q	0
1TB12-3	1PUMPWBPSWP12	12 CW WTRBX PRMG PP SEAL WTR PUMP (1M0611)	M7	MBP11Q	MBP11Q	0
1TB27-7	0PUMPBSTR9600	0 FP BSTR PUMP # 9600 (1M0663)	M7	MBP63Q	MBP63Q	0
1TB27-5W	1PUMPWOSMPTB11	TURB AREA OILY SUMP 11 PUMP 11 (1M0667)	M7	MBP67Q	MBP67Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-SW	1PUMPWOSMPTB12	TURB AREA OILY SUMP 11 PUMP 12 (1M0668)	M7	MBP68Q	MBP68Q	0
1TB12-2 (CP)	1PUMPMASBD11	11 AUX BD TK PUMP (1M0671)	M7	MBP71Q	MBP71Q	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	M7	MMP07Q	MMP07Q	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	M7	MMP13Q	MMP13Q	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	M7	MMP14Q	MMP14Q	0
1TB12-3	1PUMP2325	GEN H2 SEAL OIL SYS MAIN PUMP (1M0620)	M7	MMP20Q	MMP20Q	0
1TB12-3	1PUMP4624	GEN H2 SEAL OIL SYS RECIRC PUMP (1M0621)	M7	MMP21Q	MMP21Q	0
1TB12-3	1PUMP2316	MG H2 SEAL OIL VACUUM PUMP (1M0622)	M7	MMP22Q	MMP22Q	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	M7	MMP36Q	MMP36Q	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	M7	MMP37Q	MMP37Q	0
1TB12-2	1PUMPHDVL0P11A	11A HTR DRN PP LO CLR PP (1M0676)	M7	MMP76Q	MMP76Q	0
1TB12-2	1PUMPHDVL0P11B	11B HTR DRN PP LO CLR PP (1M0677)	M7	MMP77Q	MMP77Q	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	M7	MVP02Q	MVP02Q	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	M7	MVP03Q	MVP03Q	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	M7	MVP04Q	MVP04Q	0
1TB12-2	1MOV4652	14 STEAM LEAD DR	M7	MVP17Q	MVP17Q	0
1TB12-2	1MOV4651	12 STEAM LEAD DR	M7	MVP18Q	MVP18Q	0
1TB12-2	1MOV5090	11 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M7	MVP28Q	MVP28Q	0
1TB12-4	1MOV4658	MN CONT VLVS BEFORE SEAT DRN	M7	MVP29Q	MVP29Q	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	M7	MVP30Q	MVP30Q	0
1TB12-4	1MOV4656	1 GS MS SEAL REG BYP MOV	M7	MVP31Q	MVP31Q	0
1TB12-4	1MOV4657	1 GS SEAL DUMP BYP MOV	M7	MVP32Q	MVP32Q	0
1TB12-2	1MOV5089	11 SGFP LP STOP ABOVE SEAT DRN	M7	MVP38Q	MVP38Q	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	M7	MVP40Q	MVP40Q	0
1TB12-2	1MOV5088	11 SGFP HP STOP BELOW SEAT DRN	M7	MVP44Q	MVP44Q	0
1TB12-2	1MOV5087	11 SGFP HP STOP ABOVE SEAT DRN	M7	MVP46Q	MVP46Q	0
1TB12-2	1MOV5091	1FW SG FD PP 1ST STG EXH DRN	M7	MVP49Q	MVP49Q	0
1TB12-4	1MOV4026	MS TO 11 MSR 2ND STG	M7	MVP51Q	MVP51Q	0
1TB27-6	1MOV4018	MS TO 11 MSR 2ND STG CONT	M7	MVP52Q	MVP52Q	0
1TB27-6	1MOV4019	EXTRACTION STEAM TO MOISTURE SEPARATOR REHEAT	M7	MVP53Q	MVP53Q	0
1TB27-1	1XL-208-118	LTG XFMR L-208-118 TURB BLDG EL 27 FT	M7	TMP39Q	TMP39Q	0
1TB27-1	1XDT16	LTG DISTR XFMR 16	M7	TMP47Q	TMP47Q	0
1TB12-2	1FANFPTLOCDTRE11	11 SGFP LO COND VAP EXT (1M0612)	M7	VAP12Q	VAP12Q	0
1TB12-2	1FANFPTLORESVE11	11 SGFP LO RESV VAPOR EXT (1M0615)	M7	VAP15Q	VAP15Q	0
1TB12-4	1FANGSPACK11	11 GLAND STEAM PACKING EXH (1M0633)	M7	VAP33Q	VAP33Q	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	M7	VAP59Q	VAP59Q	0
1TB12-2	1FANHVACHDPS11	11 HTR DRN PUMP AREA CLR (1M0678)	M7	VAP78Q	VAP78Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BU313Q	BU313Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BUM16R	BUM16R	0
1TB12-2 (CP)	1RECEPTMCC116A	POWER RECEPT MCC116 (1W48, 1W49, 1W50, 1W51)	M8	BUQ05Q	BUQ05Q	0
1TB12-2 (CP)	1PNL1C54	12B AMERTAP CNTL PNL 1C54	M8	BUQ23Q	BUQ23Q	0
1TB12-2 (CP)	1PNL1C55	13A AMERTAP CNTL PNL 1C55	M8	BUQ24Q	BUQ24Q	0
1TB12-2 (CP)	1PNL1C56	13B AMERTAP CNTL PNL 1C56	M8	BUQ25Q	BUQ25Q	0
1TB27-1	1BKR52-11602	MCC 116T CIRC H2O PP 14 DISCH 1MOV-5237 BKR	M8	CBQ02O	CBQ02O	0
1TB27-1	1BKR52-11603	MCC 116T CIRC H2O PP 15 DISCH 1MOV-5241 BKR	M8	CBQ03O	CBQ03O	0
1TB27-1	1BKR52-11604	MCC 116T CIRC H2O PP 16 DISCH 1MOV-5245 BKR	M8	CBQ04O	CBQ04O	0
1TB27-1	1BKR52-11605	MCC 116T PWR RECEPTACLE BKR	M8	CBQ05O	CBQ05O	0
1TB27-1	1BKR52-11606	MCC 116T COND PP 12 LUBE OIL PP BKR	M8	CBQ06O	CBQ06O	0
1TB27-1	1BKR52-11607	MCC 116T COND PP 13 LUBE OIL PP BKR	M8	CBQ07O	CBQ07O	0
1TB27-1	1BKR52-11608	MCC 116T CIRC WTR PRIMING PP 13 BKR	M8	CBQ08O	CBQ08O	0
1TB27-1	1BKR52-11609	MCC 116T UNIT HTR 14 BKR	M8	CBQ09O	CBQ09O	0
1TB27-1	1BKR52-11610	MCC 116T CIRC WTR PRIMING PP RECIRC SEAL PP 13 BKR	M8	CBQ10O	CBQ10O	0
1TB27-1	1BKR52-11611	MCC 116T UNIT HTR 15 BKR	M8	CBQ11O	CBQ11O	0
1TB27-1	1BKR52-11612	MCC 116T SGFP 12 LUBE OIL CONDITIONER BKR	M8	CBQ12O	CBQ12O	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	M8	CBQ13O	CBQ13O	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	M8	CBQ14O	CBQ14O	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
1TB27-1	1BKR52-11615	MCC 116T SGFP 12 OIL VAPOR EXTR BKR	M8	CBQ150	CBQ150	0
1TB27-1	1BKR52-11616	MCC 116T 13 KV SERVICE BUSES 11 & 12 SERVICE XFMR BK	M8	CBQ160	CBQ160	0
1TB27-1	1BKR52-11617	MCC 116T SPARE RCP MTR OIL LIFT PP BKR	M8	CBQ170	CBQ170	0
1TB27-1	1BKR52-11618	MCC 116T CNDSR VACUUM BKR 1MOV-6717 BKR	M8	CBQ180	CBQ180	0
1TB27-1	1BKR52-11620	MCC 116T CNDSR BULLETING PP 11 BKR	M8	CBQ200	CBQ200	0
1TB27-1	1BKR52-11621	MCC 116T TURB LUBE OIL CONDITIONER 11 BKR	M8	CBQ210	CBQ210	0
1TB27-1	1BKR52-11623	MCC 116T 12B AMERTAP CONTR PNL 1C54 BKR	M8	CBQ230	CBQ230	0
1TB27-1	1BKR52-11624	MCC 116T 13A AMERTAP CONTR PNL 1C55 BKR	M8	CBQ240	CBQ240	0
1TB27-1	1BKR52-11625	MCC 116T 13B AMERTAP CONTR PNL 1C56 BKR	M8	CBQ250	CBQ250	0
1TB27-1	1BKR52-11626	MCC 116T UNIT HTR 16 BKR	M8	CBQ260	CBQ260	0
1TB27-1	1BKR52-11627	MCC 116T UNIT HTR 17 BKR	M8	CBQ270	CBQ270	0
1TB27-1	1BKR52-11628	MCC 116T SGFP 12 HP STOP VLV DRN A 1MOV-5092 BKR	M8	CBQ280	CBQ280	0
1TB27-1	1BKR52-11629	MCC 116T RHT STM DRN 1MOV-4022 BKR	M8	CBQ290	CBQ290	0
1TB27-1	1BKR52-11630	MCC 116T RHT STM DRN 1MOV-4023 BKR	M8	CBQ300	CBQ300	0
1TB27-1	1BKR52-11631	MCC 116T STM SEAL AUX SUPP 1MOV-4678(SG) BKR	M8	CBQ310	CBQ310	0
1TB27-1	1BKR52-11633	MCC 116T STM PACK EXH 12 BKR	M8	CBQ330	CBQ330	0
1TB27-1	1BKR52-11635	MCC 116T AUX BOILER FUEL PP 12 BKR	M8	CBQ350	CBQ350	0
1TB27-1	1BKR52-11636	MCC 116T COND VACUUM RECIRC SEAL PP 13 BKR	M8	CBQ360	CBQ360	0
1TB27-1	1BKR52-11637	MCC 116T COND VACUUM RECIRC SEAL PP 14 BKR	M8	CBQ370	CBQ370	0
1TB27-1	1BKR52-11638	MCC 116T SGFP 12 LP STOP VLV DRN A 1MOV-5094 BKR	M8	CBQ380	CBQ380	0
1TB27-1	1BKR52-11639	MCC 116T LTG XFMR (L-208-112) BKR	M8	CBQ390	CBQ390	0
1TB27-1	1BKR52-11640	MCC 116T SGFP 12 EXH 1MOV-3981 BKR	M8	CBQ400	CBQ400	0
1TB27-1	1BKR52-11641	MCC 116T TURBINE LO XFMR PP 11 BKR	M8	CBQ410	CBQ410	0
1TB27-1	1BKR52-11642	MCC 116T TURB AREA SUMP 11 PP 11 BKR	M8	CBQ420	CBQ420	0
1TB27-1	1BKR52-11643	MCC 116T TURB AREA SUMP 11 PP 12 BKR	M8	CBQ430	CBQ430	0
1TB27-1	1BKR52-11644	MCC 116T SGFP 12 HP STOP VLV DRN 1MOV-5093 BKR	M8	CBQ440	CBQ440	0
1TB27-1	1BKR52-11645	MCC 116T LTG XFMR (L-208-119) BKR	M8	CBQ450	CBQ450	0
1TB27-1	1BKR52-11646	MCC 116T SGFP 12 LP STOP VLV DRN 1MOV-5095 BKR	M8	CBQ460	CBQ460	0
1TB27-1	1BKR52-11647	MCC 116T DISTR XFMR 116 BKR	M8	CBQ470	CBQ470	0
1TB27-1	1BKR52-11648	MCC 116T PWR RECEPTACLE BKR	M8	CBQ480	CBQ480	0
1TB27-1	1BKR52-11649	MCC 116T SGFP 12 FIRST STG DRN 1MOV-5096 BKR	M8	CBQ490	CBQ490	0
1TB27-1	1BKR52-11650	MCC 116T UNIT HTR 18 BKR	M8	CBQ500	CBQ500	0
1TB27-1	1BKR52-11651	MCC 116T RHT STM SUPP 1MOV-4025 BKR	M8	CBQ510	CBQ510	0
1TB27-1	1BKR52-11652	MCC 116T MS TO MS RHTR 12 1MOV-4017 BKR	M8	CBQ520	CBQ520	0
1TB27-1	1BKR52-11653	MCC 116T EXTR STM TO MS RHTR 12 1MOV-4020 BKR	M8	CBQ530	CBQ530	0
1TB27-1	1BKR52-11655	MCC 116T HYD PWR UNIT HTR 11 BKR	M8	CBQ550	CBQ550	0
1TB27-1	1BKR52-11656	MCC 116T AUX BD TK PP 12 BKR	M8	CBQ560	CBQ560	0
1TB27-1	1BKR52-11657	MCC 116T TURB BLDG SUPP FAN 15 BKR	M8	CBQ570	CBQ570	0
1TB27-1	1BKR52-11658	MCC 116T TURB BLDG SUPP FAN 16 BKR	M8	CBQ580	CBQ580	0
1TB27-1	1BKR52-11659	MCC 116T COND PP 12 FAN BKR	M8	CBQ590	CBQ590	0
1TB27-1	1BKR52-11660	MCC 116T COND PP 13 FAN BKR	M8	CBQ600	CBQ600	0
1TB27-1	1BKR52-11661	MCC 116T TURB BLDG HIGH BAY LTG BKR	M8	CBQ610	CBQ610	0
1TB27-1	1BKR52-11662	MCC 116T TURB BLDG LOW BAY LTG BKR	M8	CBQ620	CBQ620	0
1TB27-1	1BKR52-11663	MCC 116T TURB AREA SUMP 12 PP 11 BKR	M8	CBQ630	CBQ630	0
1TB27-1	1BKR52-11664	MCC 116T TURB AREA SUMP 12 PP 12 BKR	M8	CBQ640	CBQ640	0
1TB27-1	1BKR52-11665	MCC 116T LIGHTING TRANSFORMER 1L26 L-208-126	M8	CBQ650	CBQ650	0
1TB27-1	1BKR52-11667	MCC 116T TURBINE BLDG HTG CIRC PP 11 BKR	M8	CBQ670	CBQ670	0
1TB27-1	1BKR52-11668	MCC 116T CR & CSR CHILLED WTR SUPP PP #12 BKR	M8	CBQ680	CBQ680	0
1TB27-1	1BKR52-11669	MCC 116T XFMR 1X116 BKR	M8	CBQ690	CBQ690	0
1TB27-1	1BKR52-11670	MCC 116T MTR OPER DOOR 804 BKR	M8	CBQ700	CBQ700	0
1TB27-1	1BKR52-11671	MCC 116T COND COLLECTION TK 11 PP 11 BKR	M8	CBQ710	CBQ710	0
1TB27-1	1BKR52-11672	MCC 116T COND COLLECTION TK 11 PP 12 BKR	M8	CBQ720	CBQ720	0
1TB27-1	1BKR52-11673	MCC 116T SERVICE XFMR (P-13000-1) COOLING B BKR	M8	CBQ730	CBQ730	0
1TB27-1	1BKR52-11674	MCC 116T SERVICE XFMR (U-4000-11) COOLING B BKR	M8	CBQ740	CBQ740	0
1TB27-1	1BKR52-11675	MCC 116T SERVICE XFMR (U-4000-21) COOLING B BKR	M8	CBQ750	CBQ750	0
1TB27-1	1BKR52-11676	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12A BKR	M8	CBQ760	CBQ760	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-11677	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12B BKR	M8	CBQ77O	CBQ77O	0
1TB27-1	1BKR52-11678	MCC 116T HTR DRN PP 12 LUBE OIL COOLER FAN BKR	M8	CBQ78O	CBQ78O	0
1TB27-1	1BKR52-11601	MCC 116T MN FDR BKR	M8	M8BCBM	CBQ01T	0
1TB12-3	1PUMPSTC12	12 MG STATOR WTR CLG PUMP (1M8316)	M8	MB315Q	MB315Q	0
1TB12-4	1PUMPEHC12	12 MT EHC HYD UNIT PUMP (1M8316)	M8	MB316Q	MB316Q	0
1TB12-2 (CP)	1PUMPCAR14	14 CAR VAC PP (1M8317)	M8	MB317Q	MB317Q	0
1TB12-3	1PUMPWBP13	13 CW WTRBX PRMG PP (1M1608)	M8	MBQ08Q	MBQ08Q	0
1TB12-3	1PUMPWBPSWP13	13 CW WTRBX PRMG PP SEAL WTR PUMP (1M1610)	M8	MBQ10Q	MBQ10Q	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	M8	MBQ13Q	MBQ13Q	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	M8	MBQ14Q	MBQ14Q	0
1TB27-7	0PUMPRCPSARE	SPARE RCP MTR OIL LIFT PP MTR (0M1617)	M8	MBQ17Q	MBQ17Q	0
1TB27-5E	1PUMPSWBSTR11	11 SW BOOSTER PUMP (1M1620)	M8	MBQ20Q	MBQ20Q	0
1TB12-2 (CP)	1PUMPSMP11TB11	11 TURB BLDG SUMP 11 PP (1M1642)	M8	MBQ42Q	MBQ42Q	0
1TB12-2 (CP)	1PUMPSMP11TB12	11 TURB BLDG SUMP PP 12 (1M1643)	M8	MBQ43Q	MBQ43Q	0
1TB12-2 (CP)	1PUMFMSBD12	12 AUX BD TK PUMP (1M1656)	M8	MBQ56Q	MBQ56Q	0
1TB27-5E	1PUMPSMP12TB11	12 TURB BLDG SUMP PP 11 (1M1663)	M8	MBQ63Q	MBQ63Q	0
1TB27-5E	1PUMPSMP12TB12	12 TURB BLDG SUMP 12 PP (1M1664)	M8	MBQ64Q	MBQ64Q	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	M8	MMQ06Q	MMQ06Q	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	M8	MMQ07Q	MMQ07Q	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	M8	MMQ36Q	MMQ36Q	0
1TB12-2 (CP)	1PUMPCARSWP14	14 CAR SEAL WTR PUMP (1M1637)	M8	MMQ37Q	MMQ37Q	0
2TB27-8	0PUMPPHTB11	11 HTG TURB BLDG HWC PUMP (0M1667)	M8	MMQ67Q	MMQ67Q	0
1TB12-2	1PUMPHDVL0P12A	12A HTR DRN PP LO CLR PP (1M1676)	M8	MMQ76Q	MMQ76Q	0
1TB12-2	1PUMPHDVL0P12B	12B HTR DRN PP LO CLR PP (1M1677)	M8	MMQ77Q	MMQ77Q	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	M8	MVQ02Q	MVQ02Q	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	M8	MVQ03Q	MVQ03Q	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	M8	MVQ04Q	MVQ04Q	0
1TB27-3	1MOV6717	COND VAC BKR	M8	MVQ18Q	MVQ18Q	0
1TB12-2	1MOV5092	12 SGFP HP STOP ABOVE SEAT DRN	M8	MVQ28Q	MVQ28Q	0
1TB12-4	1MOV4022	11 MSR 2ND STG RHT SUPP DRN	M8	MVQ29Q	MVQ29Q	0
1TB12-4	1MOV4023	12 MSR 2ND STAGE RHT SUPP DRN	M8	MVQ30Q	MVQ30Q	0
1TB12-4	1MOV4678	AUX STM SEAL SUPPLY VLV	M8	MVQ31Q	MVQ31Q	0
1TB12-2	1MOV5094	12 SGFP LP STOP ABOVE SEAT DRN	M8	MVQ38Q	MVQ38Q	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	M8	MVQ40Q	MVQ40Q	0
1TB12-2	1MOV5093	12 SGFP HP STOP BELOW SEAT DRN	M8	MVQ44Q	MVQ44Q	0
1TB12-2	1MOV5095	12 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M8	MVQ46Q	MVQ46Q	0
1TB12-2	1MOV5096	12 SGFP 1ST STG EXH DRN	M8	MVQ49Q	MVQ49Q	0
1TB12-4	1MOV4025	MS TO 11 MSR 2ND STG	M8	MVQ51Q	MVQ51Q	0
1TB27-5W	1MOV4017	MS TO 12 MSR 2ND STG CONT	M8	MVQ52Q	MVQ52Q	0
1TB27-6	1MOV4020	EXTRACTION STEAM TO MOISTURE SEPARATOR REHEAT	M8	MVQ53Q	MVQ53Q	0
1TB27-1	1XL-208-112	LTG XFMR L-208-112 TURB BLDG EL 27 FT	M8	TMQ39Q	TMQ39Q	0
1TB27-1	1XDT116	LTG DISTR XFMR 116	M8	TMQ47Q	TMQ47Q	0
1TB12-2	1FANFPTLOCDTRE12	12 SGFP LO COND FAN (1M1612)	M8	VAQ12Q	VAQ12Q	0
1TB12-2	1FANFPTLORESVE12	12 SGFP LO RESV VAPOR EXT (1M1615)	M8	VAQ15Q	VAQ15Q	0
1TB12-4	1M1633	12 STM PACKING EXH MTR (1M1633)	M8	VAQ33Q	VAQ33Q	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	M8	VAQ59Q	VAQ59Q	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	M8	VAQ60Q	VAQ60Q	0
1TB12-2	1M1678	12 HDV HTR DRN PP LUBE OIL CLR FAN 12 MTR (1M1678)	M8	VAQ78Q	VAQ78Q	0
1TB27-7	1PS4453	11 CD BOOSTER PP SUCTION LOW PS	MC	MCBP10	PS453R	0
1TB27-7	1PS4513	COND BOOSTER PUMP 11 PS	MC	MCBP10	PS513R	0
1TB27-7	1PS4460	12 CD BOOSTER PP SUCTION LOW PS	MC	MCBP20	PS460R	0
1TB27-7	1PS4514	COND BOOSTER PUMP 12 PS	MC	MCBP20	PS514R	0
1TB12-2	1PS4467	13 CD BOOSTER PP SUCTION LOW PS	MC	MCBP30	PS467R	0
1TB12-2	1PS4468	13 CD BOOSTER PP DISCHARGE LOW PS	MC	MCBP30	PS468R	0
1TB12-2	1PS4515	COND BOOSTER PUMP 13 PS	MC	MCBP30	PS515R	0
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEB	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEP	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AB	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AP	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BB	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BP	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CB	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CP	0
1TB27-4	1HXCCLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AB	0
1TB27-4	1HXCCLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AP	0
1TB27-4	1HXCCLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AB	0
1TB27-4	1HXCCLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AP	0
1TB27-4	1HXCCLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BB	0
1TB27-4	1HXCCLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BP	0
1TB27-4	1HXCCLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BB	0
1TB27-4	1HXCCLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BP	0
1TB27-4	1HXCCLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CB	0
1TB27-4	1HXCCLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CP	0
1TB27-4	1HXCCLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CB	0
1TB27-4	1HXCCLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CP	0
1TB12-1	1HXCCLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AB	0
1TB12-1	1HXCCLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AP	0
1TB27-2	1HXCCLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AB	0
1TB27-2	1HXCCLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AP	0
1TB12-1	1HXCCLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BB	0
1TB12-1	1HXCCLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BP	0
1TB27-2	1HXCCLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BB	0
1TB27-2	1HXCCLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BP	0
1TB27-7	1TCV1619	11 CBP LO CLR TCV	MC	MCLO15	C7619P	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11B	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11P	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AB	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AP	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BB	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BP	0
1TB27-7	1TCV1620	12 CBP LO CLR TEMP TCV	MC	MCLO25	C7620P	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12B	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12P	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AB	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AP	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BB	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BP	0
1TB12-2	1TCV1621	13 CBP LO CLR TCV	MC	MCLO35	C7621P	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13B	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13P	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AB	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AP	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BB	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BP	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438O	0
1TB27-4	1I/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV438O	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438O	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438P	0
1TB27-4	1I/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV438P	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438P	0
1TB27-5E	1FT4438A	CD GLAND STEAM CONDENSER MINI FLOW CONTROL FT	MC	MCMN10	FT38AR	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB27-3	1SV4486	COND BSTR PMPS MIN FLOW CONT	MC	MCMN40	CV486O	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486P	0
1TB27-3	1SV4486	COND BSTR PMPS MIN FLOW CONT	MC	MCMN40	CV486P	0
1TB12-3	1FIC4486	CD BOOSTER PP MINI FLOW CONTROL FIC	MC	MCMN40	FC486R	0
1TB12-1	1FY4486	CD BOOSTER PP MINI FLOW CONTROL FY	MC	MCMN40	FY486R	0
1TB12-1	1FT4484	11 SGFP SUCT FLO XMTR	MC	MCMN51	FT484R	0
1TB12-1	1FY4484	11 FW SGFP SUCT FLO DEVICE	MC	MCMN51	FY484R	0
1TB12-2	1FT4485	12 FW SGFP SUCT FLO XMTR	MC	MCMN52	FT485R	0
1TB12-1	1FY4485	11 & 12 COND BSTR PP MINI FLO DEVICE	MC	MCMN52	FY485R	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11B	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11P	0
1TB12-3 (CP)	1YS4414	COND PMP MOTOR 11 OIL STRAINER	MC	MCPP10	YS414P	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12B	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12P	0
1TB12-3 (CP)	1YS4421	COND PMP MOTOR 12 OIL STRAINER	MC	MCPP20	YS421P	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13B	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13P	0
1TB12-3 (CP)	1YS4428	COND PMP MOTOR 13 OIL STRAINER	MC	MCPP30	YS428P	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	MC	MML11R	MML11R	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	MC	MML12R	MML12R	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	MC	MML13R	MML13R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11R	MYB11R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11S	MYB11S	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12R	MYB12R	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12S	MYB12S	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13R	MYB13R	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13S	MYB13S	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	MC	MYC11R	MYC11R	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	MC	MYC12R	MYC12R	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	MC	MYC13R	MYC13R	0
1TB12-3	1PUMPCBP-LO-11	CBP-11 LUBE OIL PUMP	MC	NDL11R	NDL11R	0
1TB12-3	1PUMPCBP-LO-12	CBP-12 LUBE OIL PUMP	MC	NDL12R	NDL12R	0
1TB12-3	1PUMPCBP-LO-13	CBP-13 LUBE OIL PUMP	MC	NDL13R	NDL13R	0
1TB27-7	1TE1619	11 CD CBP LUBE OIL CLR TE	MC	TE619R	TE619R	0
1TB27-7	1TE1620	12 CD CBP LUBE OIL CLR OUT TE	MC	TE620R	TE620R	0
1TB12-2	1TE1621	13 CD CBP LUBE OIL CLR OUT TE	MC	TE621R	TE621R	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	MC	VAL11R	VAL11R	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	MC	VAL12R	VAL12R	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	MC	VAL13R	VAL13R	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105O	C3105O	0
1TB27-2	1/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105P	C3105P	0
1TB27-2	1/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106O	C3106O	0
1TB27-2	1/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106P	C3106P	0
1TB27-2	1/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106P	C3106P	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	MN	CB013T	CB013T	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	MN	CB014T	CB014T	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	MN	CB113T	CB113T	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	MN	CB114T	CB114T	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	CV484O	CV484O	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	CV484O	CV484O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	CV4840	CV4840	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	CV4840	CV4840	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	CV4840	CV4840	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	CV4840	CV4840	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	CV4840	CV4840	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	CV4850	CV4850	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	CV4850	CV4850	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	CV4850	CV4850	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	CV4850	CV4850	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	CV4850	CV4850	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	CV4850	CV4850	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	CV4850	CV4850	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	CV4850	CV4850	0
1TB12-2	1PUMPFPTL0MOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BR	MB11BR	0
1TB12-2	1PUMPFPTL0MOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BS	MB11BS	0
1TB12-2	1PUMPFPTL0MOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BR	MB12BR	0
1TB12-2	1PUMPFPTL0MOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BS	MB12BS	0
1TB12-2	1PUMPFPTL0MOP11A	11A SGFP MAIN OIL PUMP (1M0613)	MN	MM11AR	MM11AR	0
1TB12-2	1PUMPFPTL0MOP12A	12A SGFP MAIN OIL PUMP (1M0614)	MN	MM12AR	MM12AR	0
1TB27-5E	1PUMPCDSGFPBSTR1	11 CD SGFP SEAL WTR BSTR PP (1M0112)	MN	MML11R	MML11R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12R	MML12R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12S	MML12S	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MN	MN011R	MN011R	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MN	MN012R	MN012R	0
1TB27-1	1MCC101AT	MCC 101AT	MN	MNF71B	BU01AR	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	MN	MNF71B	CB101T	0
1TB27-1	1MCC101BT	MCC 101BT	MN	MNF72B	BU01BR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	MN	MNF72B	CB141T	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BP	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	MNFW52	VT1HCP	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	MN	MNFW52	VT1HSP	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	MNFW53	VT1LCP	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	MN	MNFW53	VT1LSP	0
1TB12-2	1LS4705	11 GS GEN FEED PP TURBINE CASING HIGH LS	MN	MNFW54	LS705R	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	MN	MNFW54	MV964P	0
1TB12-2	1PS5002	BRG OIL HDR PS TO LOW PRESS TURB TRIPS	MN	MNFW54	PS002R	0
1TB12-2	1PS5025	11 FW SGFPT ACTIVE FRNT BTHR BRG PS	MN	MNFW54	PS025R	0
1TB12-2	1PS5027	11 FW SGFPT INACTIVE REAR THR BRG PS	MN	MNFW54	PS027R	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	MN	MNFW54	SV010T	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704P	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704T	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707P	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707T	0
1TB12-2	1CV4702	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV702P	0
1TB12-2	1CV4705	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV705P	0
1TB12-2	1PDC4702	11 CD SGFP INJECTION PDC	MN	MNFW57	PC702R	0
1TB12-2	1PC4704	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC704R	0
1TB12-2	1PDC4705	11 CD SGFP INJECTION PDC	MN	MNFW57	PC705R	0
1TB12-2	1PC4707	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC707R	0
1TB12-2	1CV4704OP	SGFP 11 PP SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX704R	0
1TB12-2	1CV4707OP	SGFP 11 TURB SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX707R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011B	0
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011P	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	MNFW59	CV484P	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	MNFW59	CV484P	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	MNFW59	CV484P	0
1TB12-1	1FT4484A	11 FW SGFP MINI FLO XMTR	MN	MNFW59	FT84AR	0
1TB12-2	1CV3974B	12 FW SGFP HP GOV VLV	MN	MNFW62	VT2HCP	0
1TB12-2	1CV3974A	12 FW SGFP HP STOP VLV	MN	MNFW62	VT2HSP	0
1TB12-2	1CV3980B	12 FW SGFP LP GOV VLV	MN	MNFW63	VT2LCP	0
1TB12-2	1CV3980A	12 FW SGFP LP STOP VLV	MN	MNFW63	VT2LSP	0
1TB12-2	1LS4711	12 GS GEN FEED PP TURBINE CASING LS	MN	MNFW64	LS711R	0
1TB27-3	1MOV3981	12 SGFP PP TURB EXH	MN	MNFW64	MV981P	0
1TB12-2	1PS5051	LOW BRG OIL PRESS TURB TRIP PS	MN	MNFW64	PS051R	0
1TB12-2	1PS5074	12 FW SGFP ACTIVE FRNT THR BRG PS	MN	MNFW64	PS074R	0
1TB12-2	1PS5076	12 FW SGFP INACTIVE THR BRG PS	MN	MNFW64	PS076R	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	MN	MNFW64	SV059T	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710P	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710T	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713P	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713T	0
1TB12-2	1CV4708	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV708P	0
1TB12-2	1CV4711	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV711P	0
1TB12-2	1PDC4708	12 CD SGFP INJECTION PDC	MN	MNFW67	PC708R	0
1TB12-2	1PC4710	12 FW SEAL WTR DISCHARGE PC	MN	MNFW67	PC710R	0
1TB12-2	1PDC4711	12 CD SGFP INJECTION PDC	MN	MNFW67	PC711R	0
1TB12-2	1PC4713	12 FW SGFP SEAL WTR DISCHARGE PC	MN	MNFW67	PC713R	0
1TB12-2	1CV4710OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX710R	0
1TB12-2	1CV4713OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX713R	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012B	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012P	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	MNFW69	CV485P	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	MNFW69	CV485P	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	MNFW69	CV485P	0
1TB12-1	1FT4485A	12 FW SGFP MINI FLO XMTR	MN	MNFW69	FT85AR	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622P	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622P	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622R	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622R	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623P	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623P	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623R	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
1TB12-2	1PS5042A	12 FW SGFP AUX OIL PP PS	MN	PS42AD	PS42AD	0
1TB12-2	1PS4482	11 & 12 SGFP SUCT LO PS	MN	PS482R	PS482R	0
1TB12-2	1PS4483	11 & 12 SGFP SUCT LO PS	MN	PS483R	PS483R	0
1TB27-SE	1PS4486	CD SGFP SEAL WATER BOOSTER PPS SUCTION PS	MN	PS486R	PS486R	0
1TB12-4	1PS4487	CD SGFP SEAL WATER BOOSTER PPS DISCHARGE PS	MN	PS487D	PS487D	0
1TB12-2	1PS4490	11 FW SGFP DISCH PS	MN	PS490R	PS490R	0
1TB12-2	1PS4491	11 FW SGFP DISCH PS	MN	PS491R	PS491R	0
1TB12-2	1PS4495	12 FW SGFP DISCH PS	MN	PS495R	PS495R	0
1TB12-2	1PS4496	12 FW SGFP DISCH PS	MN	PS496R	PS496R	0
1TB12-2	1PS4992A	11 FW SGFP AUX OIL PUMP PS	MN	PS92AD	PS92AD	0
1TB12-2	1PY4482	SGFP 11 TURB TRIP & RESET	MN	RY482T	RY482T	0
1TB12-2	1PY4483	SGFP 11 TURB TRIP & RESET	MN	RY483T	RY483T	0
1TB12-2	1PY4482A	SGFP 12 LO SUCT PR ALARM	MN	RY82AT	RY82AT	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	MN	RY83AT	RY83AT	0
1TB12-2	1AY4483A	SGFP 12 LO SUCT PR TRIP	MN	RYA3AT	RYA3AT	0
1TB12-2	1AY4483	SGFP 11 TRIP & RESET	MN	RYA83T	RYA83T	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	VT1HCO	VT1HCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	VT1LCO	VT1LCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	VT2HCO	VT2HCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	VT2LCO	VT2LCO	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111C	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111T	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111T	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111T	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121C	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121T	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121T	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121T	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MT	BHEMT1	Trips	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MT	BHEMT1	Trips	0
1TB27-1	1MCC101AT	MCC 101AT	N1	BU109Q	BU109Q	0
1TB12-4	1COMPIA11	11 IA COMPR (1MB118)	N2	CM118Q	CM118Q	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	N2	CM123Q	CM123Q	0
1TB27-1	1MCC101BT	MCC 101BT	N4	BU419Q	BU419Q	0
1TB12-4	1COMPIA12	12 IA COMPR (1MB418)	N4	CM418Q	CM418Q	0
2TB27-7	2MCC201AT	MCC 201AT	N5	BUT59Q	BUT59Q	0
2TB12-4	2COMPIA21	21 IA COMPR (2MB118)	N6	CMT18Q	CMT18Q	0
2TB27-7	2MCC201BT	MCC 201BT	N8	BUT19Q	BUT19Q	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	N8	CMT21Q	CMT21Q	0
2TB12-4	2COMPIA22	22 IA COMPR (2MB418)	N8	CMT28Q	CMT28Q	0
2TB12-4	2TCV1636	PA COMP TCV	NR	C72S6O	C72S6O	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	C7S34O	C7S34O	0
1TB12-4	1COMPIA11	11 IA COMPR (1MB118)	NR	CM011R	CM011R	0
1TB12-4	1COMPIA11	11 IA COMPR (1MB118)	NR	CM011S	CM011S	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1COMP1A12	12 IA COMPR (1MB41B)	NR	CM012R	CM012R	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB41B)	NR	CM012S	CM012S	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB11B)	NR	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NR	CMP21R	CMP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	IPIA99	TKA11B	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	IV2S6D	IV2S6D	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	IVS33D	IVS33D	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	IVS34D	IVS34D	0
1TB27-1	1MCC101AT	MCC 101AT	NR	NR1P01	BU1ATR	0
1TB27-1	1PNL1P11	LTG DISTR PNL 111	NR	NR1P01	BUP11R	0
1TB27-1	1BKRS2-10101	MCC 101AT MAIN FDR BKR	NR	NR1P01	CB101T	0
1TB27-1	1BKRS2-10116	MCC 101AT DISTR XFMR 11 BKR	NR	NR1P01	CB116T	0
1TB27-1	1XDT11	LTG DISTR XFMR 11	NR	NR1P01	TM1P1R	0
1TB12	1PCV1628	SRW TO I&P/A COMPR PCV	NR	NRC1SW	CV628P	0
1TB12-4	1TCV1630	11 I/A COMPR TEMP REG VLV	NR	NRIA11	C7630P	0
1TB12-4	1MUFFIAFIL11	11 IA COMPR FILTER SILENCER	NR	NRIA11	FL011P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11B	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062D	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062T	0
1TB12-4	1SV1629	11 I/A COMPR A/CLR SRW INLET	NR	NRIA11	IV629T	0
1TB12-4	1SV1630	11 I/A COMPR SRW INLET	NR	NRIA11	IV630T	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	NRIA11	PS062R	0
1TB12-4	1PS2063	11 IA COMPR OIL PS LOW	NR	NRIA11	PS063R	0
1TB12-4	1TE1630	11 SRW IA COMPR OUT TE	NR	NRIA11	TE630R	0
1TB12-4	1TS2063	11 IA COMPR A/CLR OUT TS HI	NR	NRIA11	TS063R	0
1TB12-4	1TS2082	11 IA COMPR I/CLR OUT TS	NR	NRIA11	TS082R	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	NRIA12	C7S34P	0
1TB12-4	1MUFFIAFIL12	12 IA COMPR FILTER SILENCER	NR	NRIA12	FLS12P	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA12	HXAS2P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2B	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2P	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064D	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064T	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	NRIA12	IVS33T	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	NRIA12	IVS34T	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	NRIA12	PS064R	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	NRIA12	PS067R	0
1TB12-4	1PS2065	12 IA COMPR OIL PS LOW	NR	NRIA12	PSS65R	0
1TB12-4	1TE1634	12 SRW IA COMPR OUT TE	NR	NRIA12	TES34R	0
1TB12-4	1TS2065	12 IA COMPR A/CLR OUT TS HI	NR	NRIA12	TSS65R	0
1TB12-4	1TS2084	12 IA COMPR I/CLR OUT TS	NR	NRIA12	TSS84R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA99	HXA11B	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA99	HXAS2B	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	NRIA99	TK011B	0
1TB12-4	1ACCIA12	12 IA COMPR RCVR	NR	NRIA99	TK012B	0
1TB12-2	1DRYA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12AP	0
1TB12-2	1DRYA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12BP	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001R	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001T	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002T	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003T	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004T	0
1TB12-4	1NP1113B	IA DRYER 12 LOCAL CONTROL PNL	NR	NRIAHD	COD12R	0
1TB12-4	1FU1NP113B/FU3	12 IA DRYER CONTR CKT FU	NR	NRIAHD	FUC12R	0
1TB12-2	1HS2004	12 IA DRYER HS	NR	NRIAHD	HS004T	0
1TB12-4	1PCV2003	IA DRYER 12 PILOT REG PCV	NR	NRIAHD	PC003R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA01	HXPA1B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA01	HXPA2B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NR	NRPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NR	NRPA01	TKP21B	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NR	NRPA11	C7636P	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NR	NRPA11	FLP11P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXAP1P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXPA1P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11B	0
1TB12-4	1HXPA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11P	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154T	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NR	NRPA11	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NR	NRPA11	IV636T	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NR	NRPA11	PS055R	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	NRPA11	PS154R	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NR	NRPA11	TE636R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NR	NRPA11	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NR	NRPA11	TS086R	0
2TB12-4	2TCV1636	PA COMP TCV	NR	NRPA21	C72S6P	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NR	NRPA21	CMP21S	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NR	NRPA21	CV228P	0
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NR	NRPA21	FLS21P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXIP2B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXIP2P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA21	HXPA2P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054T	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	NRPA21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	NRPA21	IV2S6T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	NRPA21	PS054R	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	NRPA21	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NR	NRPA21	PSS25R	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NR	NRPA21	TE2S6R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NR	NRPA21	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NR	NRPA21	TSS25R	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259R	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061O	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061O	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061P	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061P	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061D	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	PS056D	PS056D	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	PS062D	PS062D	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	PS064D	PS064D	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	PS067D	PS067D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	PS154D	PS154D	0
2TB12-4	2TCV1636	PA COMP TCV	NS	C72S6O	C72S6O	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	C7634O	C7634O	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021R	CM021R	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021S	CM021S	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022R	CM022R	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022S	CM022S	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	NS	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	CMP21R	CMP21R	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	IV2S6D	IV2S6D	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	IV633D	IV633D	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	IV634D	IV634D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154T	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	NRCMP1	PS154R	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	NRCMP2	PS054R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NRDPP1	HXAP1P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR INTER COOLER	NS	NRDPP1	HXIP1B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR INTER COOLER	NS	NRDPP2	HXIP2B	0
1TB12-4	1MUFFPAFIL11	11 PA COMPR FILTER SILENCER	NS	NRHVP1	FLP11P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NS	NRHVP2	FLS21P	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NS	NRPSP1	PS055R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NS	NRPSP1	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NS	NRPSP1	TS086R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	NRPSP2	CMP21S	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	NRPSP2	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NS	NRPSP2	PSS25R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NRPSP2	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NS	NRPSP2	TSS25R	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NS	NRSW13	C7636P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NRSW13	HXPA1P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR INTER COOLER	NS	NRSW13	HXPI1P	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NS	NRSW13	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NS	NRSW13	IV636T	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NS	NRSW13	TE636R	0
2TB12-4	2TCV1636	PA COMP TCV	NS	NRSW21	C7256P	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NS	NRSW21	CV228P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR INTER COOLER	NS	NRSW21	HXIP2P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NS	NRSW21	HXPA2P	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	NRSW21	IV255T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	NRSW21	IV256T	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NS	NRSW21	TE256R	0
2TB27-7	2MCC201AT	MCC 201AT	NS	NS1P01	BU2ATR	0
2TB27-7	2PNL2P01	LTG DISTR PNL 21	NS	NS1P01	BUP21R	0
2TB27-7	2BKR52-20101	MCC 201AT MN FDR BKR	NS	NS1P01	CB201T	0
2TB27-7	2BKR52-20116	DISTRIBUTION XFMR 480-208 120V	NS	NS1P01	CB216T	0
2TB27-7	2XDT21	LTG DISTR XFMR 21	NS	NS1P01	TM2P2R	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NS	NSC1SW	CVS28P	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262D	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262T	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	NSCMI1	PSS62R	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264D	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264T	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	NSCMI2	PSS64R	0
2TB12-4	2HXIA/CLR22	22 IA COMPR AFTER COOLER	NS	NSDPI1	HXA21P	0
2TB12-4	2HXIA/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21B	0
2TB12-4	2HXIA/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21P	0
2TB12-4	2HXIA/CLR22	22 IA COMPR INTER COOLER	NS	NSDPI2	HXI22B	0
2TB12-4	2MUFFIAFILT21	21 IA COMPR FILTER SILENCER	NS	NSHV1	FL021P	0
2TB12-4	2MUFFIAFILT22	22 IA COMPR FILTER SILENCER	NS	NSHV2	FLS22P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSIA99	HXA21B	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSIA99	HXA22B	0
2TB12-4	2ACCIA21	21 IA COMPR RCVR	NS	NSIA99	TK021B	0
2TB27-8	2ACCIA22	22 IA COMPR RCVR	NS	NSIA99	TK022B	0
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22AP	0
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22BP	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201T	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202T	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203T	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204T	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2PNL2NP0103B	IA DRYER 22 CONTROLLER	NS	NSIAHD	COD22R	0
2TB27-8	2FU2NP0103B/FU3	22 IA DRYER CONTR CKT FU	NS	NSIAHD	FUC22R	0
2TB27-8	2HS2004	22 IA DRYER H/S	NS	NSIAHD	HS204T	0
2TB27-8	2PCV2003	22 IA DRYER PILOT REG	NS	NSIAHD	PC203R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NS	NSPA01	HXP11B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NS	NSPA01	HXP21B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NS	NSPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NS	NSPA01	TKP21B	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259R	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261O	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261O	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261P	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261P	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61D	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61R	0
2TB12-4	2PS2063	21 IA COMPR OIL PS LOW	NS	NSPSI1	PSS63R	0
2TB12-4	2TS2063	21 IA COMPR A/CLR OUT TS	NS	NSPSI1	TS263R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NSPSI1	TS282R	0
2TB27-8	2PS2087	22 IA RCVR TO COMPR 22 CONTR PS	NS	NSPSI2	PSS67R	0
2TB12-4	2TS2065	22 IA COMPR A/CLR OUT TS	NS	NSPSI2	TS065R	0
2TB12-4	2TS2084	22 IA COMPR I/CLR OUT TS	NS	NSPSI2	TS084R	0
2TB12-4	2TCV1630	21 IA COMPR TCV	NS	NSSW11	C7S30P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSSW11	HXIA2P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSSW11	HXII2P	0
2TB12-4	2SV1629	21 IA COMPR A/CLR SRW INLET	NS	NSSW11	IVS29T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
2TB12-4	2SV1630	21 IA COMPR SRW INLET	NS	NSSW11	IVS30T	0
2TB12-4	2TE1630	21 IA COMP CLR SRW TCV TE	NS	NSSW11	TE163R	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	NSSW12	C7634P	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSSW12	HXA22P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSSW12	HXI22P	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	NSSW12	IV633T	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	NSSW12	IV634T	0
2TB12-4	2TE1634	22 IA COMPR CLR SRW TCV TE	NS	NSSW12	TE634R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	PS056D	PS056D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	PS154D	PS154D	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	PSS62D	PSS62D	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	PSS64D	PSS64D	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	PSS67D	PSS67D	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	QC	QCMISC	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	QC	QCMISC	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	QC	QCMISC	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	QC	QCMISC	MYHD2Q	0
2TB12-3	2PUMPCBP21	21 CD CBP (2MA204)	QF	QFMISC	MXCB1Q	0
2TB12-3	2PUMPCBP22	22 CD CBP (2MA205)	QF	QFMISC	MXCB2Q	0
2TB12-2 (CP)	2PUMPCD21	21 CONDENSATE PUMP (2MA207)	QF	QFMISC	MXCP1Q	0
2TB12-3	2PUMPHDV21	21 FW HEATER DRAIN PUMP (2MA206)	QF	QFMISC	MXHD1Q	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	RL	RLFHSF	RLFHSF	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA2R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	S3	S3TBAL	ATPA1R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA2R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	S4	S3TBAL	ATPA1R	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	T1	T1CS1F	LT405R	0
2TB27-2E	2CV4406	21 CST TO HTWL M/U CV	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2I/P4406	COND STORAGE TO HOTWELL CONTRL	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2LT4405	CD HOTWELL LEVEL CONTROL LT	T1	T1CS2F	LTB05R	0
1TB27-6	1CVMT-11	11 MT CV	TT	V1CV1C	V1CV1C	0
1TB27-6	1CVMT-12	12 MT CV	TT	V1CV2C	V1CV2C	0
1TB27-6	1CVMT-13	13 MT CV	TT	V1CV3C	V1CV3C	0
1TB27-6	1CVMT-14	14 MT CV	TT	V1CV4C	V1CV4C	0
1TB27-6	1FCVMT-11	11 MT STOP VLV	TT	V1SV1C	V1SV1C	0
1TB27-6	1FCVMT-12	12 MT STOP VLV	TT	V1SV2C	V1SV2C	0
1TB27-6	1FCVMT-13	13 MT STOP VLV	TT	V1SV3C	V1SV3C	0
1TB27-6	1FCVMT-14	14 MT STOP VLV	TT	V1SV4C	V1SV4C	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	VC	MMS11R	MMS11R	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	VC	MMS12R	MMS12R	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	VC	MMS13R	MMS13R	0
1TB12-2 (CP)	1PUMPCAR11	11 CAR VAC PP (1MB203)	VC	MMV11R	MMV11R	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	VC	MMV12R	MMV12R	0
1TB12-2 (CP)	1PUMPCAR13	13 CAR VAC PP (1MB303)	VC	MMV13R	MMV13R	0
1TB12-2	1CV1627	SRW TO COND VAC PP PCV	VC	VC0SRW	C3627P	0
1TB12-2	1PIC1627	10 SRW CNDSR PP VAC INL PIC	VC	VC0SRW	PC627R	0
1TB27-3	1MOV6717	COND VAC BKR	VC	VC717T	MV717T	0
1TB12-3 (CP)	1HS5225	11 CW PP WTRBX INL VLV HS	VC	VCCW1A	HS225T	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	VC	VCCW1A	MV225P	0
1TB12-3 (CP)	1HS5229	12 CW PP WTRBX INL VLV HS	VC	VCCW2A	HS229T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	VC	VCCW2A	MV229P	0
1TB12-3 (CP)	1HS5233	13 CW PP WTRBX INL VLV HS	VC	VCCW3A	HS233T	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	VC	VCCW3A	MV233P	0
1TB12-3 (CP)	1HS5237	14 CW PP WTRBX INL VLV HS	VC	VCCW4A	HS237T	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	VC	VCCW4A	MV237P	0
1TB12-3 (CP)	1HS5241	15 CW PP WTRBX INL VLV HS	VC	VCCW5A	HS241T	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	VC	VCCW5A	MV241P	0
1TB12-3 (CP)	1HS5245	15 CW PP WTRBX INL VLV HS	VC	VCCW6A	HS245T	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	VC	VCCW6A	MV245P	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098C	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098C	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098T	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098T	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098D	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098R	0
1TB12-2 (CP)	1CV1754	11 CAR UNIT MOTIVE AIR	VC	VCP011	C3754P	0
1TB12-2	1SV1753	11 CAR BYP & MOTIVE VLV	VC	VCP011	C3754P	0
1TB12-2 (CP)	1CV1755	11 CAR UNIT SYS DIAPHRAM	VC	VCP011	C3755P	0
1TB12-2 (CP)	1LCV1753	11 CAR SEP	VC	VCP011	LC753R	0
1TB12-2 (CP)	1PS1755	11 CAR CNDSR VAC PP SEAL LOW PRESSURE WTR PS	VC	VCP011	PS755R	0
1TB12-2 (CP)	1CV1757	12 CAR UNIT MOTIVE AIR	VC	VCP012	C3757P	0
1TB12-2	1SV1756	12 CAR BYP & MOTIVE VLVS	VC	VCP012	C3757P	0
1TB12-2 (CP)	1CV1758	12 CAR UNIT SYS DIAPHRAM	VC	VCP012	C3758P	0
1TB12-2 (CP)	1LCV1756	12 CAR SEP LO LVL CONTROL	VC	VCP012	LC756R	0
1TB12-2 (CP)	1PS1758	12 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP012	PS758R	0
1TB12-2 (CP)	1CV1760	13 CAR UNIT MOTIVE AIR	VC	VCP013	C3760P	0
1TB12-2	1SV1759	13 CAR BYP & MOTIVE VLVS	VC	VCP013	C3760P	0
1TB12-2 (CP)	1CV1761	13 CAR UNIT SYS DIAPHRAM	VC	VCP013	C3761P	0
1TB12-2 (CP)	1LCV1759	SEP LO LVL CONTROL	VC	VCP013	LC759R	0
1TB12-2 (CP)	1PS1761	13 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP013	PS761R	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11B	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11P	0
1TB27-1	1RY1B0636/1Y0636	11 RECIRC SEAL PP INTK RE	VC	VCS011	RY036P	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12B	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12P	0
1TB27-1	1RY1B0637/1Y0637	12 RECIRC SEAL PP INTK RELAY	VC	VCS012	RY037P	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13B	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13P	0
1TB27-1	1RY1B1636/1Y1636	13 RECIRC SEAL PP INTK RELAY	VC	VCS013	RY136P	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681O	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681P	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	VC	VCTGS1	MV659P	0
1TB12-4	1PC4681	GS STM SEAL FEED VLV CONTROL PC	VC	VCTGS1	PC681R	0

# Flood Evaluation Query

CF-31D-FT12AN \*

02-Dec-98

TOP	PM	EVALUATION	RI
AE	4BKR	4 breaker challenges.	PAJ
AF	4BKR	4 breaker challenges.	PAJ
BS	Spec Impt	All TBVs fail closed on loss of power. An excessive steam demand will not occur.	PAJ
BV	F	All TBVs fail closed on loss of power.	PAJ
FC	Spec Impt	1MCC101BT fails. This MCC supplies power to AFW Turb PP Rm NSR A/C Unit.	PAJ
FN	None	Only has 1 PCV. I am assuming that these valves will not fail during a flood.	PAJ
FT	None	Stop valves fail closed. If SGFPs are secured, which they are (See Top MT), this top is successful.	PAJ
GW	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
GZ	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
IP	None	Air accumulator only. Mechanical operation only.	PAJ
K5	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
LF	F	ICV1105/1106/4405/4406 fail closed on loss of power and loss of air.	PAJ
M7	F	MCC 106T fails.	PAJ
M8	F	MCC 116T fails.	PAJ
MC	F	All condensate pumps fail.	PAJ
MN	F	Both SGFPs trip.	PAJ
MP	F	ICV1111/1121 are normally open and fail as-is.	PAJ
MT	None	SGFP trip in this scenario. See top MN.	PAJ

\* This Flood is deleted. See note 12 in RAN 98-065  
 Sect 5.4 JPK

TOP	PM	EVALUATION	RI
N1	1BKR	1 breaker challenge.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	1BKR	1 breaker challenge.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N8	3BKR	3 breaker challenges.	PAJ
NR	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail.	PAJ
NS	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail.	PAJ
QC	4BKR	4 breaker challenges.	PAJ
QF	4BKR	4 breaker challenges.	PAJ
RL	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
S3	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
S4	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
T1	None	1CV4406 and 2CV4406 fails closed.	PAJ
TT	None	Control and Stop valves fail closed.	PAJ
VC	F	All Condenser Vacuum Pumps Fail.	PAJ



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	AE	MYCB1Q	MYCB1Q	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	AE	MYCB2Q	MYCB2Q	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	AE	MYCP1Q	MYCP1Q	0
1TB12-2	1PUMPHDV11	11 FW HEATER DRAIN PUMP (1MA206)	AE	MYHD1Q	MYHD1Q	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	AF	MYCB3Q	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	AF	MYCP2Q	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	AF	MYCP3Q	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	AF	MYHD2Q	MYHD2Q	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400O	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB40OP	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940T	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BS	BS3940	IV940T	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3940	IZ940R	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940I	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940R	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420O	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB42OP	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942T	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BS	BS3942	IV942T	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3942	IZ942R	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942I	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942R	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440O	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB44OP	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944T	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BS	BS3944	IV944T	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3944	IZ944R	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944I	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944R	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460O	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB46OP	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946T	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BS	BS3946	IV946T	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3946	IZ946R	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX946I	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX960R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1PT4056	MS TURB BYPASS VLV CONTROL PT	BS	BS4056	PT056R	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS940C	AB40BC	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40AD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40BD	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS942C	AB42BC	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	IV42AD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	IV42BD	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS944C	AB44BC	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	IV44AD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	IV44BD	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS946C	AB46BC	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	IV46AD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	IV46BD	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	C5940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	C5942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	C5944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	C5946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BV	BV3940	AB40BO	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	BV3940	C5940P	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3940	C5940P	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BV3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AD	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AT	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BT	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BV	BV3942	AB42BO	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	BV3942	C5942P	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3942	C5942P	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BV3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AD	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AT	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BT	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BV	BV3944	AB44BO	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	BV3944	C5944P	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3944	C5944P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BV3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AD	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AT	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BT	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BV	BV3946	AB46BO	0
1TB27-3	1CV3946	TURB BY VLV (TBV)	BV	BV3946	C5946P	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3946	C5946P	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BV3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AD	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AT	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BT	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BVCLVR	IV940T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BVCLVR	IV942T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BVCLVR	IV944T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BVCLVR	IV946T	0
1TB27-3	1CV3940	TURB BY VLV (TBV)	BV	C59400	C59400	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C59400	C59400	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	C59400	C59400	0
1TB27-3	1CV3942	TURB BY VLV (TBV)	BV	C59420	C59420	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C59420	C59420	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	C59420	C59420	0
1TB27-3	1CV3944	TURB BY VLV (TBV)	BV	C59440	C59440	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C59440	C59440	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	C59440	C59440	0
1TB27-3	1CV3946	TURB BY VLV (TBV)	BV	C59460	C59460	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C59460	C59460	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	C59460	C59460	0
1TB12-1	1AFWDOORS	AFW DOUBLE DOORS	FC	Dummy	N/A	0
1TB27-1	1MCC101BT	MCC 101BT	FC	FC1MCC	BU1BTR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	FC	FC1MCC	CB141T	0
1TB12	1PCV1600	AUX FD PP RM CLR TEMP REG VLV	FC	FCSRWC	CV600P	0
1TB12-1	1FDTB12W1	AFW RM SUPPLY FROM AFW TO TB12 FD	FC	FDAMPR	FD002I	0
1TB12	1PCV4510	11A AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV510P	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	FT	FTFW30	SV010D	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	FT	FTFW40	SV059D	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCO	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCT	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HSO	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HST	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCT	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LSO	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LST	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCT	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HSO	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HST	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCT	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LSO	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LST	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GW	S7TBAL	AT121R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GW	S7TBAL	AT122R	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	GW	S7TBAL	ATP21R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI22R	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	GZ	S7TBAL	ATP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	IP	IPIA99	TK11B	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	K5	K5FIRE	K5FH5F	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106P	C3106P	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1CV4405	HOTWELL TO COND STORAGE VLV	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1I/P4405	HOTWELL TO COND STORAGE CONT	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	LF	LFMUCV	LT405R	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BP	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	LF	RY83AT	RY83AT	0
1TB27-1	1MCC106T	MCC 106T	M7	BU213Q	BU213Q	0
1TB27-1	1MCC106T	MCC 106T	M7	BUM06R	BUM06R	0
1TB12-2 (CP)	1PNL1C51	11A AMERTAP CNTL PNL 1C51	M7	BUP23Q	BUP23Q	0
1TB12-2 (CP)	1PNL1C52	11B AMERTAP CNTL PNL 1C52	M7	BUP24Q	BUP24Q	0
1TB12-2 (CP)	1PNL1C53	12A AMERTAP CNTL PNL 1C53	M7	BUP25Q	BUP25Q	0
1TB27-1	1BKR52-10602	MCC 106T CIRC H2O PP DISCH 1MOV-5225 BKR	M7	CBP02O	CBP02O	0
1TB27-1	1BKR52-10603	MCC 106T CIRC H2O PP 12 DISCH 1MOV-5229 BKR	M7	CBP03O	CBP03O	0
1TB27-1	1BKR52-10604	MCC 106T CIRC H2O PP 13 DISCH 1MOV-5233 BKR	M7	CBP04O	CBP04O	0
1TB27-1	1BKR52-10605	MCC 106T WELDING RECEPTACLES 1W40-1W43	M7	CBP05O	CBP05O	0
1TB27-1	1BKR52-10606	MCC 106T WELDING RECEPTACLES 1W44-1W47	M7	CBP06O	CBP06O	0
1TB27-1	1BKR52-10607	MCC 106T COND PP 11 LUBE OIL PP BKR	M7	CBP07O	CBP07O	0
1TB27-1	1BKR52-10608	MCC 106T CIRC WTR PRIMING PP 11 BKR	M7	CBP08O	CBP08O	0
1TB27-1	1BKR52-10609	MCC 106T CIRC WTR PRIMING PP 12 BKR	M7	CBP09O	CBP09O	0
1TB27-1	1BKR52-10610	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 11 BKR	M7	CBP10O	CBP10O	0
1TB27-1	1BKR52-10611	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 12 BKR	M7	CBP11O	CBP11O	0
1TB27-1	1BKR52-10612	MCC 106T SGFP 11 LUBE OIL CONDITIONER BKR	M7	CBP12O	CBP12O	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	M7	CBP13O	CBP13O	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	M7	CBP14O	CBP14O	0
1TB27-1	1BKR52-10615	SGFP 11 OIL VAPOR EXTRACTOR	M7	CBP15O	CBP15O	0
1TB27-1	1BKR52-10616	MCC 106T BEARING OIL VAPOR EXTR 11 BKR	M7	CBP16O	CBP16O	0
1TB27-1	1BKR52-10617	MCC 106T STM LEAD DRN 1MOV-4652(CV2) BKR	M7	CBP17O	CBP17O	0
1TB27-1	1BKR52-10618	MCC 106T STM LEAD DRN 1MOV-4651(CV4) BKR	M7	CBP18O	CBP18O	0
1TB27-1	1BKR52-10619	MCC 106T HYDRAULIC FLUID FILT PP 11 BKR	M7	CBP19O	CBP19O	0
1TB27-1	1BKR52-10620	MCC 106T MN OIL SEAL PP 11 (MN GEN)	M7	CBP20O	CBP20O	0
1TB27-1	1BKR52-10621	MCC 106T SEAL OIL RECIRC PP 11 BKR	M7	CBP21O	CBP21O	0
1TB27-1	1BKR52-10622	MCC 106T SEAL VACUUM PP 11 BKR	M7	CBP22O	CBP22O	0
1TB27-1	1BKR52-10623	MCC 106T 11A AMERTAP CONTR PNL 1C51 BKR	M7	CBP23O	CBP23O	0
1TB27-1	1BKR52-10624	MCC 106T 11B AMERTAP CONTR PNL 1C52	M7	CBP24O	CBP24O	0
1TB27-1	1BKR52-10625	MCC 106T 12A AMERTAP CONTR PNL 1C53 BKR	M7	CBP25O	CBP25O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-10626	MCC 106T UNIT HTR 9 BKR	M7	CBP260	CBP260	0
1TB27-1	1BKR52-10627	MCC 106T UNIT HTR 10 BKR	M7	CBP270	CBP270	0
1TB27-1	1BKR52-10628	MCC 106T SGFP 11 LP STOP VLV DRN B 1MOV-5090 BKR	M7	CBP280	CBP280	0
1TB27-1	1BKR52-10629	MCC 106T COMBINED CNTMT DRN 1MOV-4658(CV) BKR	M7	CBP290	CBP290	0
1TB27-1	1BKR52-10630	GLAND SEAL STEAM SUPPLY VALVE 1-MOV-4659	M7	CBP300	CBP300	0
1TB27-1	1BKR52-10631	MCC 106T STM SEAL BY-PASS 1MOV-4656(S2) BKR	M7	CBP310	CBP310	0
1TB27-1	1BKR52-10632	MCC 106T STM SEAL UNLOADING 1MOV-4657(B) BKR	M7	CBP320	CBP320	0
1TB27-1	1BKR52-10633	MCC 106T STM PACK EXH 11 BKR	M7	CBP330	CBP330	0
1TB27-1	1BKR52-10635	MCC 106T AUX BOILER FUEL PP 11 BKR	M7	CBP350	CBP350	0
1TB27-1	1BKR52-10636	MCC 106T COND VACUUM RECIRC SEAL PP 11 BKR	M7	CBP360	CBP360	0
1TB27-1	1BKR52-10637	MCC 106T COND VACUUM RECIRC SEAL PP 12 BKR	M7	CBP370	CBP370	0
1TB27-1	1BKR52-10638	SGFP 11 LP STOP VLV DRN 1-MOV-5089	M7	CBP380	CBP380	0
1TB27-1	1BKR52-10639	LIGHTING XFMR (1L11/1L17) L-208-218	M7	CBP390	CBP390	0
1TB27-1	1BKR52-10640	MCC 106T SGFP 11 EXH 1MOV-3964 BKR	M7	CBP400	CBP400	0
1TB27-1	1BKR52-10642	MCC 106T UNIT HTR 11 BKR	M7	CBP420	CBP420	0
1TB27-1	1BKR52-10643	MCC 106T UNIT HTR 12 BKR	M7	CBP430	CBP430	0
1TB27-1	1BKR52-10644	MCC 106T SGFP 11 HP STOP VLV DRN B 1MOV-5088 BKR	M7	CBP440	CBP440	0
1TB27-1	1BKR52-10645	ROADWAY LIGHTING PANEL 1L54	M7	CBP450	CBP450	0
1TB27-1	1BKR52-10646	MCC 106T SGFP 11 HP STOP VLV DRN A 1MOV-5087 BKR	M7	CBP460	CBP460	0
1TB27-1	1BKR52-10647	DISTRIBUTION XFMR 16 480-208/120V	M7	CBP470	CBP470	0
1TB27-1	1BKR52-10648	MCC 106T UNIT HTR 13 BKR	M7	CBP480	CBP480	0
1TB27-1	1BKR52-10649	MCC 106T SGFP 11 1ST STG DRN 1MOV-5091 BKR	M7	CBP490	CBP490	0
1TB27-1	1BKR52-10651	MCC 106T RHT STM SUPP 1MOV-4026 BKR	M7	CBP510	CBP510	0
1TB27-1	1BKR52-10652	MCC 106T MS TO MS RHTR 11 1MOV-4018 BKR	M7	CBP520	CBP520	0
1TB27-1	1BKR52-10653	MCC 106T EXTRACT STM TO MS RHTR 11 1MOV-4019 BKR	M7	CBP530	CBP530	0
1TB27-1	1BKR52-10654	SMOKE REMOVAL DAMPER 0M05390 (CLOSED)	M7	CBP540	CBP540	0
1TB27-1	1BKR52-10656	CR & CBL SPREADING RM CHILL WTR SUPP PP 11	M7	CBP560	CBP560	0
1TB27-1	1BKR52-10657	MCC 106T TURB BLDG SUPP FAN 13 BKR	M7	CBP570	CBP570	0
1TB27-1	1BKR52-10658	MCC 106T TURB BLDG SUPP FAN 14 BKR	M7	CBP580	CBP580	0
1TB27-1	1BKR52-10659	MCC 106T COND PP 11 FAN BKR	M7	CBP590	CBP590	0
1TB27-1	1BKR52-10661	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP610	CBP610	0
1TB27-1	1BKR52-10662	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP620	CBP620	0
1TB27-1	1BKR52-10663	MCC 106T BOOSTER JOCKEY PP FIRE PROT SYS BKR	M7	CBP630	CBP630	0
1TB27-1	1BKR52-10667	MCC 106T TURB AREA OILY SUMP 11 PP 11 BKR	M7	CBP670	CBP670	0
1TB27-1	1BKR52-10668	MCC 106T TURB AREA OILY SUMP 11 PP 12 BKR	M7	CBP680	CBP680	0
1TB27-1	1BKR52-10669	MCC 106T SMOKE REMOVAL DMPR 0M05391 BKR	M7	CBP690	CBP690	0
1TB27-1	1BKR52-10670	MCC 106T SMOKE REMOVAL DMPR 0M05392 BKR	M7	CBP700	CBP700	0
1TB27-1	1BKR52-10671	MCC 106T AUX BD TK PP 11 BKR	M7	CBP710	CBP710	0
1TB27-1	1BKR52-10672	MCC 106T SPARE BKR	M7	CBP720	CBP720	0
1TB27-1	1BKR52-10673	SERV XFMR (P-13000-1) COOLING B (EMERGENCY)	M7	CBP730	CBP730	0
1TB27-1	1BKR52-10674	SERV XFMR (U-4000-11) COOLING A (NORMAL)	M7	CBP740	CBP740	0
1TB27-1	1BKR52-10675	SERV XFMR (U-4000-21) COOLING A (NORMAL)	M7	CBP750	CBP750	0
1TB27-1	1BKR52-10676	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11A BKR	M7	CBP760	CBP760	0
1TB27-1	1BKR52-10677	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11B BKR	M7	CBP770	CBP770	0
1TB27-1	1BKR52-10678	MCC 106T HTR DRN PP 11 LUBE OIL COOLER FAN BKR	M7	CBP780	CBP780	0
1TB27-1	1BKR52-10601	MAIN FEEDER BREAKER	M7	M7BCBM	CBP01T	0
1TB12-3	1PUMPSTC11	11 MG STATOR WTR CLG PUMP (1MB216)	M7	MB215Q	MB215Q	0
1TB12-4	1PUMPEHC11	11 MT EHC HYD UNIT PUMP (1MB216)	M7	MB216Q	MB216Q	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	M7	MB217Q	MB217Q	0
2TB27-8	0PUMPPHM11	11 MAIN HTG HWC PUMP (1MB225)	M7	MB225Q	MB225Q	0
1TB12-3	1PUMPWBP11	11 CW WTRBX PRMG PP (1M0608)	M7	MBP08Q	MBP08Q	0
1TB12-3	1PUMPWBP12	12 CW WTRBX PRMG PP (1M0609)	M7	MBP09Q	MBP09Q	0
1TB12-3	1PUMPWBPSWP11	11 CW WTRBX PRMG PP SEAL WTR PUMP (1M0610)	M7	MBP10Q	MBP10Q	0
1TB12-3	1PUMPWBPSWP12	12 CW WTRBX PRMG PP SEAL WTR PUMP (1M0611)	M7	MBP11Q	MBP11Q	0
1TB27-7	0PUMPBSTR9600	0 FP BSTR PUMP # 9600 (1M0663)	M7	MBP63Q	MBP63Q	0
1TB27-5W	1PUMPWOSMPTB11	TURB AREA OILY SUMP 11 PUMP 11 (1M0667)	M7	MBP67Q	MBP67Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-5W	1PUMPWOSMPTB12	TURB AREA OILY SUMP 11 PUMP 12 (1M0668)	M7	MBP68Q	MBP68Q	0
1TB12-2 (CP)	1PUMPM5BD11	11 AUX BD TK PUMP (1M0671)	M7	MBP71Q	MBP71Q	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	M7	MMP07Q	MMP07Q	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	M7	MMP13Q	MMP13Q	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	M7	MMP14Q	MMP14Q	0
1TB12-3	1PUMP2325	GEN H2 SEAL OIL SYS MAIN PUMP (1M0620)	M7	MMP20Q	MMP20Q	0
1TB12-3	1PUMP4624	GEN H2 SEAL OIL SYS RECIRC PUMP (1M0621)	M7	MMP21Q	MMP21Q	0
1TB12-3	1PUMP2316	MG H2 SEAL OIL VACUUM PUMP (1M0622)	M7	MMP22Q	MMP22Q	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	M7	MMP36Q	MMP36Q	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	M7	MMP37Q	MMP37Q	0
1TB12-2	1PUMPHDVL0P11A	11A HTR DRN PP LO CLR PP (1M0676)	M7	MMP76Q	MMP76Q	0
1TB12-2	1PUMPHDVL0P11B	11B HTR DRN PP LO CLR PP (1M0677)	M7	MMP77Q	MMP77Q	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	M7	MVP02Q	MVP02Q	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	M7	MVP03Q	MVP03Q	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	M7	MVP04Q	MVP04Q	0
1TB12-2	1MOV4652	14 STEAM LEAD DR	M7	MVP17Q	MVP17Q	0
1TB12-2	1MOV4651	12 STEAM LEAD DR	M7	MVP18Q	MVP18Q	0
1TB12-2	1MOV5090	11 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M7	MVP28Q	MVP28Q	0
1TB12-4	1MOV4658	MN CONT VLVS BEFORE SEAT DRN	M7	MVP29Q	MVP29Q	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	M7	MVP30Q	MVP30Q	0
1TB12-4	1MOV4656	1 GS MS SEAL REG BYP MOV	M7	MVP31Q	MVP31Q	0
1TB12-4	1MOV4657	1 GS SEAL DUMP BYP MOV	M7	MVP32Q	MVP32Q	0
1TB12-2	1MOV5089	11 SGFP LP STOP ABOVE SEAT DRN	M7	MVP38Q	MVP38Q	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	M7	MVP40Q	MVP40Q	0
1TB12-2	1MOV5088	11 SGFP HP STOP BELOW SEAT DRN	M7	MVP44Q	MVP44Q	0
1TB12-2	1MOV5087	11 SGFP HP STOP ABOVE SEAT DRN	M7	MVP46Q	MVP46Q	0
1TB12-2	1MOV5091	1FW SG FD PP 1ST STG EXH DRN	M7	MVP49Q	MVP49Q	0
1TB12-4	1MOV4026	MS TO 11 MSR 2ND STG	M7	MVP51Q	MVP51Q	0
1TB27-6	1MOV4018	MS TO 11 MSR 2ND STG CONT	M7	MVP52Q	MVP52Q	0
1TB27-6	1MOV4019	EXTRACTION STEAM TO MOISTURE SEPARATOR REHEAT	M7	MVP53Q	MVP53Q	0
1TB27-1	1XL-208-118	LTG XFMR L-208-118 TURB BLDG EL 27 FT	M7	TMP39Q	TMP39Q	0
1TB27-1	1XDT16	LTG DISTR XFMR 16	M7	TMP47Q	TMP47Q	0
1TB12-2	1FANFPTLOCDTRE11	11 SGFP LO COND VAP EXT (1M0612)	M7	VAP12Q	VAP12Q	0
1TB12-2	1FANFPTLORESVE11	11 SGFP LO RESV VAPOR EXT (1M0615)	M7	VAP15Q	VAP15Q	0
1TB12-4	1FANGSPACK11	11 GLAND STEAM PACKING EXH (1M0633)	M7	VAP33Q	VAP33Q	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	M7	VAP59Q	VAP59Q	0
1TB12-2	1FANHVACHDPS11	11 HTR DRN PUMP AREA CLR (1M0678)	M7	VAP78Q	VAP78Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BU313Q	BU313Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BUM16R	BUM16R	0
1TB12-2 (CP)	1RECEPTMCC116A	POWER RECEPT MCC116 (1W48, 1W49, 1W50, 1W51)	M8	BUQ05Q	BUQ05Q	0
1TB12-2 (CP)	1PNL1C54	12B AMERTAP CNTL PNL 1C54	M8	BUQ23Q	BUQ23Q	0
1TB12-2 (CP)	1PNL1C55	13A AMERTAP CNTL PNL 1C55	M8	BUQ24Q	BUQ24Q	0
1TB12-2 (CP)	1PNL1C56	13B AMERTAP CNTL PNL 1C56	M8	BUQ25Q	BUQ25Q	0
1TB27-1	1BKR52-11602	MCC 116T CIRC H2O PP 14 DISCH 1MOV-5237 BKR	M8	CBQ02O	CBQ02O	0
1TB27-1	1BKR52-11603	MCC 116T CIRC H2O PP 15 DISCH 1MOV-5241 BKR	M8	CBQ03O	CBQ03O	0
1TB27-1	1BKR52-11604	MCC 116T CIRC H2O PP 16 DISCH 1MOV-5245 BKR	M8	CBQ04O	CBQ04O	0
1TB27-1	1BKR52-11605	MCC 116T PWR RECEPTACLE BKR	M8	CBQ05O	CBQ05O	0
1TB27-1	1BKR52-11606	MCC 116T COND PP 12 LUBE OIL PP BKR	M8	CBQ06O	CBQ06O	0
1TB27-1	1BKR52-11607	MCC 116T COND PP 13 LUBE OIL PP BKR	M8	CBQ07O	CBQ07O	0
1TB27-1	1BKR52-11608	MCC 116T CIRC WTR PRIMING PP 13 BKR	M8	CBQ08O	CBQ08O	0
1TB27-1	1BKR52-11609	MCC 116T UNIT HTR 14 BKR	M8	CBQ09O	CBQ09O	0
1TB27-1	1BKR52-11610	MCC 116T CIRC WTR PRIMING PP RECIRC SEAL PP 13 BKR	M8	CBQ10O	CBQ10O	0
1TB27-1	1BKR52-11611	MCC 116T UNIT HTR 15 BKR	M8	CBQ11O	CBQ11O	0
1TB27-1	1BKR52-11612	MCC 116T SGFP 12 LUBE OIL CONDITIONER BKR	M8	CBQ12O	CBQ12O	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	M8	CBQ13O	CBQ13O	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	M8	CBQ14O	CBQ14O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-11615	MCC 116T SGFP 12 OIL VAPOR EXTR BKR	M8	CBQ150	CBQ150	0
1TB27-1	1BKR52-11616	MCC 116T 13 KV SERVICE BUSES 11 & 12 SERVICE XFMR BK	M8	CBQ160	CBQ160	0
1TB27-1	1BKR52-11617	MCC 116T SPARE RCP MTR OIL LIFT PP BKR	M8	CBQ170	CBQ170	0
1TB27-1	1BKR52-11618	MCC 116T CNDSR VACUUM BKR 1MOV-6717 BKR	M8	CBQ180	CBQ180	0
1TB27-1	1BKR52-11620	MCC 116T CNDSR BULLETING PP 11 BKR	M8	CBQ200	CBQ200	0
1TB27-1	1BKR52-11621	MCC 116T TURB LUBE OIL CONDITIONER 11 BKR	M8	CBQ210	CBQ210	0
1TB27-1	1BKR52-11623	MCC 116T 12B AMERTAP CONTR PNL 1C54 BKR	M8	CBQ230	CBQ230	0
1TB27-1	1BKR52-11624	MCC 116T 13A AMERTAP CONTR PNL 1C55 BKR	M8	CBQ240	CBQ240	0
1TB27-1	1BKR52-11625	MCC 116T 13B AMERTAP CONTR PNL 1C56 BKR	M8	CBQ250	CBQ250	0
1TB27-1	1BKR52-11626	MCC 116T UNIT HTR 16 BKR	M8	CBQ260	CBQ260	0
1TB27-1	1BKR52-11627	MCC 116T UNIT HTR 17 BKR	M8	CBQ270	CBQ270	0
1TB27-1	1BKR52-11628	MCC 116T SGFP 12 HP STOP VLV DRN A 1MOV-5092 BKR	M8	CBQ280	CBQ280	0
1TB27-1	1BKR52-11629	MCC 116T RHT STM DRN 1MOV-4022 BKR	M8	CBQ290	CBQ290	0
1TB27-1	1BKR52-11630	MCC 116T RHT STM DRN 1MOV-4023 BKR	M8	CBQ300	CBQ300	0
1TB27-1	1BKR52-11631	MCC 116T STM SEAL AUX SUPP 1MOV-4678(SG) BKR	M8	CBQ310	CBQ310	0
1TB27-1	1BKR52-11633	MCC 116T STM PACK EXH 12 BKR	M8	CBQ330	CBQ330	0
1TB27-1	1BKR52-11635	MCC 116T AUX BOILER FUEL PP 12 BKR	M8	CBQ350	CBQ350	0
1TB27-1	1BKR52-11636	MCC 116T COND VACUUM RECIRC SEAL PP 13 BKR	M8	CBQ360	CBQ360	0
1TB27-1	1BKR52-11637	MCC 116T COND VACUUM RECIRC SEAL PP 14 BKR	M8	CBQ370	CBQ370	0
1TB27-1	1BKR52-11638	MCC 116T SGFP 12 LP STOP VLV DRN A 1MOV-5094 BKR	M8	CBQ380	CBQ380	0
1TB27-1	1BKR52-11639	MCC 116T LTG XFMR (L-208-112) BKR	M8	CBQ390	CBQ390	0
1TB27-1	1BKR52-11640	MCC 116T SGFP 12 EXH 1MOV-3981 BKR	M8	CBQ400	CBQ400	0
1TB27-1	1BKR52-11641	MCC 116T TURBINE LO XFMR PP 11 BKR	M8	CBQ410	CBQ410	0
1TB27-1	1BKR52-11642	MCC 116T TURB AREA SUMP 11 PP 11 BKR	M8	CBQ420	CBQ420	0
1TB27-1	1BKR52-11643	MCC 116T TURB AREA SUMP 11 PP 12 BKR	M8	CBQ430	CBQ430	0
1TB27-1	1BKR52-11644	MCC 116T SGFP 12 HP STOP VLV DRN 1MOV-5093 BKR	M8	CBQ440	CBQ440	0
1TB27-1	1BKR52-11645	MCC 116T LTG XFMR (L-208-119) BKR	M8	CBQ450	CBQ450	0
1TB27-1	1BKR52-11646	MCC 116T SGFP 12 LP STOP VLV DRN 1MOV-5095 BKR	M8	CBQ460	CBQ460	0
1TB27-1	1BKR52-11647	MCC 116T DISTR XFMR 116 BKR	M8	CBQ470	CBQ470	0
1TB27-1	1BKR52-11648	MCC 116T PWR RECEPTACLE BKR	M8	CBQ480	CBQ480	0
1TB27-1	1BKR52-11649	MCC 116T SGFP 12 FIRST STG DRN 1MOV-5096 BKR	M8	CBQ490	CBQ490	0
1TB27-1	1BKR52-11650	MCC 116T UNIT HTR 18 BKR	M8	CBQ500	CBQ500	0
1TB27-1	1BKR52-11651	MCC 116T RHT STM SUPP 1MOV-4025 BKR	M8	CBQ510	CBQ510	0
1TB27-1	1BKR52-11652	MCC 116T MS TO MS RHTR 12 1MOV-4017 BKR	M8	CBQ520	CBQ520	0
1TB27-1	1BKR52-11653	MCC 116T EXTR STM TO MS RHTR 12 1MOV-4020 BKR	M8	CBQ530	CBQ530	0
1TB27-1	1BKR52-11655	MCC 116T HYD PWR UNIT HTR 11 BKR	M8	CBQ550	CBQ550	0
1TB27-1	1BKR52-11656	MCC 116T AUX BD TK PP 12 BKR	M8	CBQ560	CBQ560	0
1TB27-1	1BKR52-11657	MCC 116T TURB BLDG SUPP FAN 15 BKR	M8	CBQ570	CBQ570	0
1TB27-1	1BKR52-11658	MCC 116T TURB BLDG SUPP FAN 16 BKR	M8	CBQ580	CBQ580	0
1TB27-1	1BKR52-11659	MCC 116T COND PP 12 FAN BKR	M8	CBQ590	CBQ590	0
1TB27-1	1BKR52-11660	MCC 116T COND PP 13 FAN BKR	M8	CBQ600	CBQ600	0
1TB27-1	1BKR52-11661	MCC 116T TURB BLDG HIGH BAY LTG BKR	M8	CBQ610	CBQ610	0
1TB27-1	1BKR52-11662	MCC 116T TURB BLDG LOW BAY LTG BKR	M8	CBQ620	CBQ620	0
1TB27-1	1BKR52-11663	MCC 116T TURB AREA SUMP 12 PP 11 BKR	M8	CBQ630	CBQ630	0
1TB27-1	1BKR52-11664	MCC 116T TURB AREA SUMP 12 PP 12 BKR	M8	CBQ640	CBQ640	0
1TB27-1	1BKR52-11665	MCC 116T LIGHTING TRANSFORMER 1L26 L-208-126	M8	CBQ650	CBQ650	0
1TB27-1	1BKR52-11667	MCC 116T TURBINE BLDG HTG CIRC PP 11 BKR	M8	CBQ670	CBQ670	0
1TB27-1	1BKR52-11668	MCC 116T CR & CSR CHILLED WTR SUPP PP #12 BKR	M8	CBQ680	CBQ680	0
1TB27-1	1BKR52-11669	MCC 116T XFMR 1X116 BKR	M8	CBQ690	CBQ690	0
1TB27-1	1BKR52-11670	MCC 116T MTR OPER DOOR 804 BKR	M8	CBQ700	CBQ700	0
1TB27-1	1BKR52-11671	MCC 116T COND COLLECTION TK 11 PP 11 BKR	M8	CBQ710	CBQ710	0
1TB27-1	1BKR52-11672	MCC 116T COND COLLECTION TK 11 PP 12 BKR	M8	CBQ720	CBQ720	0
1TB27-1	1BKR52-11673	MCC 116T SERVICE XFMR (P-13000-1) COOLING B BKR	M8	CBQ730	CBQ730	0
1TB27-1	1BKR52-11674	MCC 116T SERVICE XFMR (U-4000-11) COOLING B BKR	M8	CBQ740	CBQ740	0
1TB27-1	1BKR52-11675	MCC 116T SERVICE XFMR (U-4000-21) COOLING B BKR	M8	CBQ750	CBQ750	0
1TB27-1	1BKR52-11676	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12A BKR	M8	CBQ760	CBQ760	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB27-1	1BKR52-11677	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12B BKR	M8	CBQ77O	CBQ77O	0
1TB27-1	1BKR52-11678	MCC 116T HTR DRN PP 12 LUBE OIL COOLER FAN BKR	M8	CBQ78O	CBQ78O	0
1TB27-1	1BKR52-11601	MCC 116T MN FOR BKR	M8	M8BCBM	CBQ01T	0
1TB12-3	1PUMPSTC12	12 MG STATOR WTR CLG PUMP (1MB316)	M8	MB315Q	MB315Q	0
1TB12-4	1PUMPEHC12	12 MT EHC HYD UNIT PUMP (1MB316)	M8	MB316Q	MB316Q	0
1TB12-2 (CP)	1PUMPCAR14	14 CAR VAC PP (1MB317)	M8	MB317Q	MB317Q	0
1TB12-3	1PUMPWPB13	13 CW WTRBX PRMG PP (1M1608)	M8	MBQ08Q	MBQ08Q	0
1TB12-3	1PUMPWPBPSWP13	13 CW WTRBX PRMG PP SEAL WTR PUMP (1M1610)	M8	MBQ10Q	MBQ10Q	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	M8	MBQ13Q	MBQ13Q	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	M8	MBQ14Q	MBQ14Q	0
1TB27-7	0PUMPRCPSARE	SPARE RCP MTR OIL LIFT PP MTR (0M1617)	M8	MBQ17Q	MBQ17Q	0
1TB27-5E	1PUMPSWBSTR11	11 SW BOOSTER PUMP (1M1620)	M8	MBQ20Q	MBQ20Q	0
1TB12-2 (CP)	1PUMPSMP11TB11	11 TURB BLDG SUMP 11 PP (1M1642)	M8	MBQ42Q	MBQ42Q	0
1TB12-2 (CP)	1PUMPSMP11TB12	11 TURB BLDG SUMP PP 12 (1M1643)	M8	MBQ43Q	MBQ43Q	0
1TB12-2 (CP)	1PUMPSM12TB11	12 AUX BD TK PUMP (1M1656)	M8	MBQ56Q	MBQ56Q	0
1TB27-5E	1PUMPSMP12TB11	12 TURB BLDG SUMP PP 11 (1M1663)	M8	MBQ63Q	MBQ63Q	0
1TB27-5E	1PUMPSMP12TB12	12 TURB BLDG SUMP 12 PP (1M1664)	M8	MBQ64Q	MBQ64Q	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	M8	MMQ06Q	MMQ06Q	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	M8	MMQ07Q	MMQ07Q	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	M8	MMQ36Q	MMQ36Q	0
1TB12-2 (CP)	1PUMPCARSWP14	14 CAR SEAL WTR PUMP (1M1637)	M8	MMQ37Q	MMQ37Q	0
2TB27-8	0PUMPPHTB11	11 HTG TURB BLDG HWC PUMP (0M1667)	M8	MMQ67Q	MMQ67Q	0
1TB12-2	1PUMPHDVLOP12A	12A HTR DRN PP LO CLR PP (1M1676)	M8	MMQ76Q	MMQ76Q	0
1TB12-2	1PUMPHDVLOP12B	12B HTR DRN PP LO CLR PP (1M1677)	M8	MMQ77Q	MMQ77Q	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	M8	MVQ02Q	MVQ02Q	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	M8	MVQ03Q	MVQ03Q	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	M8	MVQ04Q	MVQ04Q	0
1TB27-3	1MOV6717	COND VAC BKR	M8	MVQ18Q	MVQ18Q	0
1TB12-2	1MOV5092	12 SGFP HP STOP ABOVE SEAT DRN	M8	MVQ28Q	MVQ28Q	0
1TB12-4	1MOV4022	11 MSR 2ND STG RHT SUPP DRN	M8	MVQ29Q	MVQ29Q	0
1TB12-4	1MOV4023	12 MSR 2ND STAGE RHT SUPP DRN	M8	MVQ30Q	MVQ30Q	0
1TB12-4	1MOV4678	AUX STM SEAL SUPPLY VLV	M8	MVQ31Q	MVQ31Q	0
1TB12-2	1MOV5094	12 SGFP LP STOP ABOVE SEAT DRN	M8	MVQ38Q	MVQ38Q	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	M8	MVQ40Q	MVQ40Q	0
1TB12-2	1MOV5093	12 SGFP HP STOP BELOW SEAT DRN	M8	MVQ44Q	MVQ44Q	0
1TB12-2	1MOV5095	12 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M8	MVQ46Q	MVQ46Q	0
1TB12-2	1MOV5096	12 SGFP 1ST STG EXH DRN	M8	MVQ49Q	MVQ49Q	0
1TB12-4	1MOV4025	MS TO 11 MSR 2ND STG	M8	MVQ51Q	MVQ51Q	0
1TB27-5W	1MOV4017	MS TO 12 MSR 2ND STG CONT	M8	MVQ52Q	MVQ52Q	0
1TB27-6	1MOV4020	EXTRACTION STEAM TO MOISTURE SEPARATOR REHEAT	M8	MVQ53Q	MVQ53Q	0
1TB27-1	1XL-208-112	LTG XFMR L-208-112 TURB BLDG EL 27 FT	M8	TMQ39Q	TMQ39Q	0
1TB27-1	1XDT116	LTG DISTR XFMR 116	M8	TMQ47Q	TMQ47Q	0
1TB12-2	1FANFPTLOCDTRE12	12 SGFP LO COND FAN (1M1612)	M8	VAQ12Q	VAQ12Q	0
1TB12-2	1FANFPTLORESVE12	12 SGFP LO RESV VAPOR EXT (1M1615)	M8	VAQ15Q	VAQ15Q	0
1TB12-4	1M1633	12 STM PACKING EXH MTR (1M1633)	M8	VAQ33Q	VAQ33Q	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	M8	VAQ59Q	VAQ59Q	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	M8	VAQ60Q	VAQ60Q	0
1TB12-2	1M1678	12 HDV HTR DRN PP LUBE OIL CLR FAN 12 MTR (1M1678)	M8	VAQ78Q	VAQ78Q	0
1TB27-7	1PS4453	11 CD BOOSTER PP SUCTION LOW PS	MC	MCBP10	PS453R	0
1TB27-7	1PS4513	COND BOOSTER PUMP 11 PS	MC	MCBP10	PS513R	0
1TB27-7	1PS4460	12 CD BOOSTER PP SUCTION LOW PS	MC	MCBP20	PS460R	0
1TB27-7	1PS4514	COND BOOSTER PUMP 12 PS	MC	MCBP20	PS514R	0
1TB12-2	1PS4467	13 CD BOOSTER PP SUCTION LOW PS	MC	MCBP30	PS467R	0
1TB12-2	1PS4468	13 CD BOOSTER PP DISCHARGE LOW PS	MC	MCBP30	PS468D	0
1TB12-2	1PS4515	COND BOOSTER PUMP 13 PS	MC	MCBP30	PS515R	0
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CDSR	MC	MCCOM	HXSSEB	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOM	HXSSEP	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AB	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AP	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BB	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BP	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CB	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CP	0
1TB27-4	1HXCPLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AB	0
1TB27-4	1HXCPLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AP	0
1TB27-4	1HXCPLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AB	0
1TB27-4	1HXCPLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AP	0
1TB27-4	1HXCPLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BB	0
1TB27-4	1HXCPLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BP	0
1TB27-4	1HXCPLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BB	0
1TB27-4	1HXCPLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BP	0
1TB27-4	1HXCPLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CB	0
1TB27-4	1HXCPLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CP	0
1TB27-4	1HXCPLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CB	0
1TB27-4	1HXCPLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CP	0
1TB12-1	1HXCPLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AB	0
1TB12-1	1HXCPLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AP	0
1TB27-2	1HXCPLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AB	0
1TB27-2	1HXCPLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AP	0
1TB12-1	1HXCPLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BB	0
1TB12-1	1HXCPLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BP	0
1TB27-2	1HXCPLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BB	0
1TB27-2	1HXCPLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BP	0
1TB27-7	1TCV1619	11 CBP LO CLR TCV	MC	MCLO15	C7619P	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11B	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11P	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AB	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AP	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BB	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BP	0
1TB27-7	1TCV1620	12 CBP LO CLR TEMP TCV	MC	MCLO25	C7620P	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12B	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12P	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AB	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AP	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BB	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BP	0
1TB12-2	1TCV1621	13 CBP LO CLR TCV	MC	MCLO35	C7621P	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13B	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13P	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AB	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AP	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BB	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BP	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438O	0
1TB27-4	1/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV438O	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438O	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438P	0
1TB27-4	1/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV438P	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438P	0
1TB27-5E	1FT4438A	CD GLAND STEAM CONDENSER MINI FLOW CONTROL FT	MC	MCMN10	FT38AR	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-3	1SV4486	COND BSTR PMPS MIN FLOW CONT	MC	MCMN40	CV486O	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486P	0
1TB27-3	1SV4486	COND BSTR PMPS MIN FLOW CONT	MC	MCMN40	CV486P	0
1TB12-3	1FIC4486	CD BOOSTER PP MINI FLOW CONTROL FIC	MC	MCMN40	FC486R	0
1TB12-1	1FY4486	CD BOOSTER PP MINI FLOW CONTROL FY	MC	MCMN40	FY486R	0
1TB12-1	1FT4484	11 SGFP SUCT FLO XMTR	MC	MCMN51	FT484R	0
1TB12-1	1FY4484	11 FW SGFP SUCT FLO DEVICE	MC	MCMN51	FY484R	0
1TB12-2	1FT4485	12 FW SGFP SUCT FLO XMTR	MC	MCMN52	FT485R	0
1TB12-1	1FY4485	11 & 12 COND BSTR PP MINI FLO DEVICE	MC	MCMN52	FY485R	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11B	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11P	0
1TB12-3 (CP)	1YS4414	COND PMP MOTOR 11 OIL STRAINER	MC	MCPP10	YS414P	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12B	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12P	0
1TB12-3 (CP)	1YS4421	COND PMP MOTOR 12 OIL STRAINER	MC	MCPP20	YS421P	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13B	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13P	0
1TB12-3 (CP)	1YS4428	COND PMP MOTOR 13 OIL STRAINER	MC	MCPP30	YS428P	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	MC	MML11R	MML11R	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	MC	MML12R	MML12R	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	MC	MML13R	MML13R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11R	MYB11R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11S	MYB11S	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12R	MYB12R	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12S	MYB12S	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13R	MYB13R	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13S	MYB13S	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	MC	MYC11R	MYC11R	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	MC	MYC12R	MYC12R	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	MC	MYC13R	MYC13R	0
1TB12-3	1PUMPCBP-LO-11	CBP-11 LUBE OIL PUMP	MC	NDL11R	NDL11R	0
1TB12-3	1PUMPCBP-LO-12	CBP-12 LUBE OIL PUMP	MC	NDL12R	NDL12R	0
1TB12-3	1PUMPCBP-LO-13	CBP-13 LUBE OIL PUMP	MC	NDL13R	NDL13R	0
1TB27-7	1TE1619	11 CD CBP LUBE OIL CLR TE	MC	TE619R	TE619R	0
1TB27-7	1TE1620	12 CD CBP LUBE OIL CLR OUT TE	MC	TE620R	TE620R	0
1TB12-2	1TE1621	13 CD CBP LUBE OIL CLR OUT TE	MC	TE621R	TE621R	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	MC	VAL11R	VAL11R	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	MC	VAL12R	VAL12R	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	MC	VAL13R	VAL13R	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106P	C3106P	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	MN	CB013T	CB013T	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	MN	CB014T	CB014T	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	MN	CB113T	CB113T	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	MN	CB114T	CB114T	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	CV484O	CV484O	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	CV484O	CV484O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	CV484O	CV484O	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	CV484O	CV484O	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	CV484O	CV484O	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	CV484O	CV484O	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	CV484O	CV484O	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	CV485O	CV485O	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	CV485O	CV485O	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	CV485O	CV485O	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	CV485O	CV485O	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	CV485O	CV485O	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	CV485O	CV485O	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	CV485O	CV485O	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	CV485O	CV485O	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	CV485O	CV485O	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	CV485O	CV485O	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BR	MB11BR	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BS	MB11BS	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BR	MB12BR	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BS	MB12BS	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	MN	MM11AR	MM11AR	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	MN	MM12AR	MM12AR	0
1TB27-5E	1PUMPCDSGFPBSTR1	11 CD SGFP SEAL WTR BSTR PP (1M0112)	MN	MML11R	MML11R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12R	MML12R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12S	MML12S	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MN	MNO11R	MNO11R	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MN	MNO12R	MNO12R	0
1TB27-1	1MCC101AT	MCC 101AT	MN	MNF71B	BU01AR	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	MN	MNF71B	CB101T	0
1TB27-1	1MCC101BT	MCC 101BT	MN	MNF72B	BU01BR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	MN	MNF72B	CB141T	0
1TB27-2	1HXFWHPPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AB	0
1TB27-2	1HXFWHPPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AP	0
1TB27-2	1HXFWHPPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BB	0
1TB27-2	1HXFWHPPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BP	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	MNFW52	VT1HCP	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	MN	MNFW52	VT1HSP	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	MNFW53	VT1LCP	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	MN	MNFW53	VT1LSP	0
1TB12-2	1LS4705	11 GS GEN FEED PP TURBINE CASING HIGH LS	MN	MNFW54	LS705R	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	MN	MNFW54	MV964P	0
1TB12-2	1PS5002	BRG OIL HDR PS TO LOW PRESS TURB TRIPS	MN	MNFW54	PS002R	0
1TB12-2	1PS5025	11 FW SGFPT ACTIVE FRNT BTHR BRG PS	MN	MNFW54	PS025R	0
1TB12-2	1PS5027	11 FW SGFPT INACTIVE REAR THR BRG PS	MN	MNFW54	PS027R	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	MN	MNFW54	SV010T	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704P	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704T	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707P	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707T	0
1TB12-2	1CV4702	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV702P	0
1TB12-2	1CV4705	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV705P	0
1TB12-2	1PDC4702	11 CD SGFP INJECTION PDC	MN	MNFW57	PC702R	0
1TB12-2	1PC4704	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC704R	0
1TB12-2	1PDC4705	11 CD SGFP INJECTION PDC	MN	MNFW57	PC705R	0
1TB12-2	1PC4707	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC707R	0
1TB12-2	1CV4704OP	SGFP 11 PP SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX704R	0
1TB12-2	1CV4707OP	SGFP 11 TURB SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX707R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011B	0
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011P	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	MNFW59	CV484P	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	MNFW59	CV484P	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	MNFW59	CV484P	0
1TB12-1	1FT4484A	11 FW SGFP MINI FLO XMTR	MN	MNFW59	FT844R	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	MNFW62	VT2HCP	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	MN	MNFW62	VT2HSP	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	MNFW63	VT2LCP	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	MN	MNFW63	VT2LSP	0
1TB12-2	1LS4711	12 GS GEN FEED PP TURBINE CASING LS	MN	MNFW64	LS711R	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	MN	MNFW64	MV981P	0
1TB12-2	1PSS051	LOW BRG OIL PRESS TURB TRIP PS	MN	MNFW64	PS051R	0
1TB12-2	1PSS074	12 FW SGFPT ACTIVE FRNT THR BRG PS	MN	MNFW64	PS074R	0
1TB12-2	1PSS076	12 FW SGFPT INVACTIVE THR BRG PS	MN	MNFW64	PS076R	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	MN	MNFW64	SV059T	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710P	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710T	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713P	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713T	0
1TB12-2	1CV4708	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV708P	0
1TB12-2	1CV4711	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV711P	0
1TB12-2	1PDC4708	12 CD SGFP INJECTION PDC	MN	MNFW67	PC708R	0
1TB12-2	1PC4710	12 FW SEAL WTR DISCHARGE PC	MN	MNFW67	PC710R	0
1TB12-2	1PDC4711	12 CD SGFP INJECTION PDC	MN	MNFW67	PC711R	0
1TB12-2	1PC4713	12 FW SGFP SEAL WTR DISCHARGE PC	MN	MNFW67	PC713R	0
1TB12-2	1CV4710OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX710R	0
1TB12-2	1CV4713OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX713R	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012B	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012P	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	MNFW69	CV485P	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	MNFW69	CV485P	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	MNFW69	CV485P	0
1TB12-1	1FT4485A	12 FW SGFP MINI FLO XMTR	MN	MNFW69	FT854R	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622P	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622P	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622R	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622R	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623P	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623P	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623R	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1PS5042A	12 FW SGFP AUX OIL PP PS	MN	PS42AD	PS42AD	0
1TB12-2	1PS4482	11 & 12 SGFP SUCT LO PS	MN	PS482R	PS482R	0
1TB12-2	1PS4483	11 & 12 SGFP SUCT LO PS	MN	PS483R	PS483R	0
1TB27-5E	1PS4486	CD SGFP SEAL WATER BOOSTER PPS SUCTION PS	MN	PS486R	PS486R	0
1TB12-4	1PS4487	CD SGFP SEAL WATER BOOSTER PPS DISCHARGE PS	MN	PS487D	PS487D	0
1TB12-2	1PS4490	11 FW SGFP DISCH PS	MN	PS490R	PS490R	0
1TB12-2	1PS4491	11 FW SGFP DISCH PS	MN	PS491R	PS491R	0
1TB12-2	1PS4495	12 FW SGFP DISCH PS	MN	PS495R	PS495R	0
1TB12-2	1PS4496	12 FW SGFP DISCH PS	MN	PS496R	PS496R	0
1TB12-2	1PS4992A	11 FW SGFP AUX OIL PUMP PS	MN	PS92AD	PS92AD	0
1TB12-2	1PY4482	SGFP 11 TURB TRIP & RESET	MN	RY482T	RY482T	0
1TB12-2	1PY4483	SGFP 11 TURB TRIP & RESET	MN	RY483T	RY483T	0
1TB12-2	1PY4482A	SGFP 12 LO SUCT PR ALARM	MN	RY82AT	RY82AT	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	MN	RY83AT	RY83AT	0
1TB12-2	1AY4483A	SGFP 12 LO SUCT PR TRIP	MN	RYA3AT	RYA3AT	0
1TB12-2	1AY4483	SGFP 11 TRIP & RESET	MN	RYA83T	RYA83T	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	VT1HCO	VT1HCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	VT1LCO	VT1LCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	VT2HCO	VT2HCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	VT2LCO	VT2LCO	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111C	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111T	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111T	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111T	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121C	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121T	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121T	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121T	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MT	BHEMT1	Trips	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MT	BHEMT1	Trips	0
1TB27-1	1MCC101AT	MCC 101AT	N1	BU109Q	BU109Q	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	N2	CM118Q	CM118Q	0
1TB12-4	1COMP1A11	11 PA COMPR (1MB123)	N2	CM123Q	CM123Q	0
1TB27-1	1MCC101BT	MCC 101BT	N4	BU419Q	BU419Q	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	N4	CM418Q	CM418Q	0
2TB27-7	2MCC201AT	MCC 201AT	N5	BUT59Q	BUT59Q	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	N6	CMT18Q	CMT18Q	0
2TB27-7	2MCC201BT	MCC 201BT	N8	BUT19Q	BUT19Q	0
2TB12-4	2COMP1A21	21 PA COMPR (2MB423)	N8	CMT21Q	CMT21Q	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	N8	CMT28Q	CMT28Q	0
2TB12-4	2TCV1636	PA COMP TCV	NR	C72S6O	C72S6O	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	C7S34O	C7S34O	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CM011R	CM011R	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CM011S	CM011S	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012R	CM012R	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012S	CM012S	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NR	CMP21R	CMP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	IPIA99	TKA11B	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	IV2S6D	IV2S6D	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	IVS33D	IVS33D	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	IVS34D	IVS34D	0
1TB27-1	1MCC101AT	MCC 101AT	NR	NR1P01	BU1ATR	0
1TB27-1	1PNL1P11	LTG DISTR PNL 111	NR	NR1P01	BUP11R	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	NR	NR1P01	CB101T	0
1TB27-1	1BKR52-10116	MCC 101AT DISTR XFMR 11 BKR	NR	NR1P01	CB116T	0
1TB27-1	1XDT11	LTG DISTR XFMR 11	NR	NR1P01	TM1P1R	0
1TB12	1PCV1628	SRW TO I&P/A COMPR PCV	NR	NRC1SW	CV628P	0
1TB12-4	1TCV1630	11 I/A COMPR TEMP REG VLV	NR	NRIA11	C7630P	0
1TB12-4	1MUFFIAFIL11	11 IA COMPR FILTER SILENCER	NR	NRIA11	FL011P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11B	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062D	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062T	0
1TB12-4	1SV1629	11 I/A COMPR A/CLR SRW INLET	NR	NRIA11	IV629T	0
1TB12-4	1SV1630	11 I/A COMPR SRW INLET	NR	NRIA11	IV630T	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	NRIA11	PS062R	0
1TB12-4	1PS2063	11 IA COMPR OIL PS LOW	NR	NRIA11	PS063R	0
1TB12-4	1TE1630	11 SRW IA COMPR OUT TE	NR	NRIA11	TE630R	0
1TB12-4	1TS2063	11 IA COMPR A/CLR OUT TS HI	NR	NRIA11	TS063R	0
1TB12-4	1TS2082	11 IA COMPR I/CLR OUT TS	NR	NRIA11	TS082R	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	NRIA12	C7S34P	0
1TB12-4	1MUFFIAFIL12	12 IA COMPR FILTER SILENCER	NR	NRIA12	FLS12P	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA12	HXAS2P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2B	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2P	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064D	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064T	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	NRIA12	IVS33T	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	NRIA12	IVS34T	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	NRIA12	PS064R	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	NRIA12	PS067R	0
1TB12-4	1PS2065	12 IA COMPR OIL PS LOW	NR	NRIA12	PSS65R	0
1TB12-4	1TE1634	12 SRW IA COMPR OUT TE	NR	NRIA12	TES34R	0
1TB12-4	1TS2065	12 IA COMPR A/CLR OUT TS HI	NR	NRIA12	TSS65R	0
1TB12-4	1TS2084	12 IA COMPR I/CLR OUT TS	NR	NRIA12	TSS84R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA99	HXA11B	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA99	HXAS2B	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	NRIA99	TK011B	0
1TB12-4	1ACCIA12	12 IA COMPR RCVR	NR	NRIA99	TK012B	0
1TB12-2	1DRYIA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12AP	0
1TB12-2	1DRYIA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12BP	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001R	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001T	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002T	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003T	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004T	0
1TB12-4	1NP1113B	IA DRYER 12 LOCAL CONTROL PNL	NR	NRIAHD	COD12R	0
1TB12-4	1FU1NP113B/FU3	12 IA DRYER CONTR CKT FU	NR	NRIAHD	FUC12R	0
1TB12-2	1HS2004	12 IA DRYER HS	NR	NRIAHD	HS004T	0
1TB12-4	1PCV2003	IA DRYER 12 PILOT REG PCV	NR	NRIAHD	PC003R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA01	HXP11B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA01	HXP21B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NR	NRPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NR	NRPA01	TKP21B	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NR	NRPA11	C7636P	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NR	NRPA11	FLP11P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXP11P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXP11P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11B	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11P	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154T	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NR	NRPA11	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NR	NRPA11	IV636T	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NR	NRPA11	PS055R	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	NRPA11	PS154R	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NR	NRPA11	TE636R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NR	NRPA11	TS055R	0
1TB12-4	1TS2086	11 PA COMPR V/CLR OUT TS	NR	NRPA11	TS086R	0
2TB12-4	2TCV1636	PA COMP TCV	NR	NRPA21	C72S6P	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NR	NRPA21	CMP21S	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NR	NRPA21	CV228P	0
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NR	NRPA21	FLS21P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXP21B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXP21P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA21	HXP21P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054T	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	NRPA21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	NRPA21	IV2S6T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	NRPA21	PS054R	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	NRPA21	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NR	NRPA21	PSS25R	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NR	NRPA21	TE2S6R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NR	NRPA21	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NR	NRPA21	TSS25R	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259R	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061O	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061O	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061P	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061P	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061D	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	PS056D	PS056D	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	PS062D	PS062D	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	PS064D	PS064D	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	PS067D	PS067D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	PS154D	PS154D	0
2TB12-4	2TCV1636	PA COMP TCV	NS	C72S6O	C72S6O	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	C7634O	C7634O	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021R	CM021R	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021S	CM021S	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022R	CM022R	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022S	CM022S	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	NS	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	CMP21R	CMP21R	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	IV2S6D	IV2S6D	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	IV633D	IV633D	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	IV634D	IV634D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154T	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	NRCMP1	PS154R	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	NRCMP2	PS054R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NRDPP1	HXAP1P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR INTER COOLER	NS	NRDPP1	HXPI1B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR INTER COOLER	NS	NRDPP2	HXIP2B	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NS	NRHVP1	FLP11P	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NS	NRHVP2	FLS21P	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NS	NRPSP1	PS055R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NS	NRPSP1	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NS	NRPSP1	TS086R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	NRPSP2	CMP21S	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	NRPSP2	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NS	NRPSP2	PSS25R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NRPSP2	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NS	NRPSP2	TSS25R	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NS	NRSW13	C7636P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NRSW13	HXA11P	0
1TB12-4	1HXPAI/CLR11	11 PA COMPR INTER COOLER	NS	NRSW13	HXPI1P	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NS	NRSW13	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NS	NRSW13	IV636T	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NS	NRSW13	TE636R	0
2TB12-4	2TCV1636	PA COMP TCV	NS	NRSW21	C7256P	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NS	NRSW21	CV228P	0
2TB12-4	2HXPAI/CLR21	21 PA COMPR INTER COOLER	NS	NRSW21	HXIP2P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NS	NRSW21	HXA21P	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	NRSW21	IV255T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	NRSW21	IV256T	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NS	NRSW21	TE256R	0
2TB27-7	2MCC201AT	MCC 201AT	NS	NS1P01	BU2ATR	0
2TB27-7	2PNL2P01	LTG DISTR PNL 21	NS	NS1P01	BUP21R	0
2TB27-7	2BKR52-20101	MCC 201AT MN FDR BKR	NS	NS1P01	CB201T	0
2TB27-7	2BKR52-20116	DISTRIBUTION XFMR 480-208 120V	NS	NS1P01	CB216T	0
2TB27-7	2XDT21	LTG DISTR XFMR 21	NS	NS1P01	TM2P2R	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NS	NSC1SW	CVS28P	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262D	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262T	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	NSCMI1	PSS62R	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264D	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264T	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	NSCMI2	PSS64R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSDPI1	HXA21P	0
2TB12-4	2HXIA/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21B	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSDPI2	HXI22B	0
2TB12-4	2MUFFIAFILT21	21 IA COMPR FILTER SILENCER	NS	NSHVI1	FL021P	0
2TB12-4	2MUFFIAFILT22	22 IA COMPR FILTER SILENCER	NS	NSHVI2	FLS22P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSIA99	HXA21B	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSIA99	HXA22B	0
2TB12-4	2ACCIA21	21 IA COMPR RCVR	NS	NSIA99	TK021B	0
2TB27-8	2ACCIA22	22 IA COMPR RCVR	NS	NSIA99	TK022B	0
2TB27-8	2DRYA22	22 IA DRYER	NS	NSIAHD	AD22AP	0
2TB27-8	2DRYA22	22 IA DRYER	NS	NSIAHD	AD22BP	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201T	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202T	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203T	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204T	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2PNL2NP0103B	IA DRYER 22 CONTROLLER	NS	NSIAHD	COD22R	0
2TB27-8	2FU2NP0103B/FU3	22 IA DRYER CONTR CKT FU	NS	NSIAHD	FUC22R	0
2TB27-8	2HS2004	22 IA DRYER H/S	NS	NSIAHD	HS204T	0
2TB27-8	2PCV2003	22 IA DRYER PILOT REG	NS	NSIAHD	PC203R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NSPA01	HXP11B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NS	NSPA01	HXP21B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NS	NSPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NS	NSPA01	TKP21B	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259R	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261O	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261O	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261P	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261P	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61D	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61R	0
2TB12-4	2PS2063	21 IA COMPR OIL PS LOW	NS	NSPSI1	PSS63R	0
2TB12-4	2TS2063	21 IA COMPR A/CLR OUT TS	NS	NSPSI1	TS263R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NSPSI1	TS282R	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	NSPSI2	PSS67R	0
2TB12-4	2TS2065	22 IA COMPR A/CLR OUT TS	NS	NSPSI2	TS065R	0
2TB12-4	2TS2084	22 IA COMPR I/CLR OUT TS	NS	NSPSI2	TS084R	0
2TB12-4	2TCV1630	21 IA COMPR TCV	NS	NSSW11	C7S30P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSSW11	HXIA2P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSSW11	HXII2P	0
2TB12-4	2SV1629	21 IA COMPR A/CLR SRW INLET	NS	NSSW11	IVS29T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2SV1630	21 IA COMPR SRW INLET	NS	NSSW11	IVS30T	0
2TB12-4	2TE1630	21 IA COMP CLR SRW TCV TE	NS	NSSW11	TE163R	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	NSSW12	C7634P	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSSW12	HXA22P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSSW12	HXI22P	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	NSSW12	IV633T	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	NSSW12	IV634T	0
2TB12-4	2TE1634	22 IA COMPR CLR SRW TCV TE	NS	NSSW12	TE634R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	PS056D	PS056D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	PS154D	PS154D	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	PSS62D	PSS62D	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	PSS64D	PSS64D	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	PSS67D	PSS67D	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	QC	QCMISC	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	QC	QCMISC	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	QC	QCMISC	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	QC	QCMISC	MYHD2Q	0
2TB12-3	2PUMPCBP21	21 CD CBP (2MA204)	QF	QFMISC	MXCB1Q	0
2TB12-3	2PUMPCBP22	22 CD CBP (2MA205)	QF	QFMISC	MXCB2Q	0
2TB12-2 (CP)	2PUMPCD21	21 CONDENSATE PUMP (2MA207)	QF	QFMISC	MXCP1Q	0
2TB12-3	2PUMPHDV21	21 FW HEATER DRAIN PUMP (2MA206)	QF	QFMISC	MXHD1Q	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	RL	RLFHSF	RLFHSF	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA2R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	S3	S3TBAL	ATPA1R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA2R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	S4	S3TBAL	ATPA1R	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	T1	T1CS1F	LT405R	0
2TB27-2E	2CV4406	21 CST TO HTWL M/U CV	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2I/P4406	COND STORAGE TO HOTWELL CONTRL	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2LT4405	CD HOTWELL LEVEL CONTROL LT	T1	T1CS2F	LTB05R	0
1TB27-6	1CVMT-11	11 MT CV	TT	V1CV1C	V1CV1C	0
1TB27-6	1CVMT-12	12 MT CV	TT	V1CV2C	V1CV2C	0
1TB27-6	1CVMT-13	13 MT CV	TT	V1CV3C	V1CV3C	0
1TB27-6	1CVMT-14	14 MT CV	TT	V1CV4C	V1CV4C	0
1TB27-6	1FCVMT-11	11 MT STOP VLV	TT	V1SV1C	V1SV1C	0
1TB27-6	1FCVMT-12	12 MT STOP VLV	TT	V1SV2C	V1SV2C	0
1TB27-6	1FCVMT-13	13 MT STOP VLV	TT	V1SV3C	V1SV3C	0
1TB27-6	1FCVMT-14	14 MT STOP VLV	TT	V1SV4C	V1SV4C	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	VC	MMS11R	MMS11R	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	VC	MMS12R	MMS12R	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	VC	MMS13R	MMS13R	0
1TB12-2 (CP)	1PUMPCAR11	11 CAR VAC PP (1MB203)	VC	MMV11R	MMV11R	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	VC	MMV12R	MMV12R	0
1TB12-2 (CP)	1PUMPCAR13	13 CAR VAC PP (1MB303)	VC	MMV13R	MMV13R	0
1TB12-2	1CV1627	SRW TO COND VAC PP PCV	VC	VC0SRW	C3627P	0
1TB12-2	1PIC1627	10 SRW CNDSR PP VAC INL PIC	VC	VC0SRW	PC627R	0
1TB27-3	1MOV6717	COND VAC BKR	VC	VC717T	MV717T	0
1TB12-3 (CP)	1HS5225	11 CW PP WTRBX INL VLV HS	VC	VCCW1A	HS225T	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	VC	VCCW1A	MV225P	0
1TB12-3 (CP)	1HS5229	12 CW PP WTRBX INL VLV HS	VC	VCCW2A	HS229T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	VC	VCCW2A	MV229P	0
1TB12-3 (CP)	1HS5233	13 CW PP WTRBX INL VLV HS	VC	VCCW3A	HS233T	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	VC	VCCW3A	MV233P	0
1TB12-3 (CP)	1HS5237	14 CW PP WTRBX INL VLV HS	VC	VCCW4A	HS237T	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	VC	VCCW4A	MV237P	0
1TB12-3 (CP)	1HS5241	15 CW PP WTRBX INL VLV HS	VC	VCCW5A	HS241T	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	VC	VCCW5A	MV241P	0
1TB12-3 (CP)	1HS5245	15 CW PP WTRBX INL VLV HS	VC	VCCW6A	HS245T	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	VC	VCCW6A	MV245P	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098C	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098C	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098T	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098T	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098D	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098R	0
1TB12-2 (CP)	1CV1754	11 CAR UNIT MOTIVE AIR	VC	VCP011	C3754P	0
1TB12-2	1SV1753	11 CAR BYP & MOTIVE VLV	VC	VCP011	C3754P	0
1TB12-2 (CP)	1CV1755	11 CAR UNIT SYS DIAPHRAM	VC	VCP011	C3755P	0
1TB12-2 (CP)	1LCV1753	11 CAR SEP	VC	VCP011	LC753R	0
1TB12-2 (CP)	1PS1755	11 CAR CNDSR VAC PP SEAL LOW PRESSURE WTR PS	VC	VCP011	PS755R	0
1TB12-2 (CP)	1CV1757	12 CAR UNIT MOTIVE AIR	VC	VCP012	C3757P	0
1TB12-2	1SV1756	12 CAR BYP & MOTIVE VLVS	VC	VCP012	C3757P	0
1TB12-2 (CP)	1CV1758	12 CAR UNIT SYS DIAPHRAM	VC	VCP012	C3758P	0
1TB12-2 (CP)	1LCV1756	12 CAR SEP LO LVL CONTROL	VC	VCP012	LC756R	0
1TB12-2 (CP)	1PS1758	12 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP012	PS758R	0
1TB12-2 (CP)	1CV1760	13 CAR UNIT MOTIVE AIR	VC	VCP013	C3760P	0
1TB12-2	1SV1759	13 CAR BYP & MOTIVE VLVS	VC	VCP013	C3760P	0
1TB12-2 (CP)	1CV1761	13 CAR UNIT SYS DIAPHRAM	VC	VCP013	C3761P	0
1TB12-2 (CP)	1LCV1759	SEP LO LVL CONTROL	VC	VCP013	LC759R	0
1TB12-2 (CP)	1PS1761	13 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP013	PS761R	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11B	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11P	0
1TB27-1	1RY1B0636/1Y0636	11 RECIRC SEAL PP INTK RE	VC	VCS011	RY036P	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12B	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12P	0
1TB27-1	1RY1B0637/1Y0637	12 RECIRC SEAL PP INTK RELAY	VC	VCS012	RY037P	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13B	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13P	0
1TB27-1	1RY1B1636/1Y1636	13 RECIRC SEAL PP INTK RELAY	VC	VCS013	RY136P	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681O	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681P	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	VC	VCTGS1	MV659P	0
1TB12-4	1PC4681	GS STM SEAL FEED VLV CONTROL PC	VC	VCTGS1	PC681R	0

# Flood Evaluation Query

CF-31E-CT12AM \*

02-Dec-98

(IT12AM)

TOP	PM	EVALUATION	RI
AE	4BKR	4 breaker challenges.	PAJ
AF	4BKR	4 breaker challenges.	PAJ
BS	Spec Impt	All TBVs fail closed on loss of power. An excessive steam demand will not occur.	PAJ
BV	F	All TBVs fail closed on loss of power.	PAJ
FC	Spec Impt	1MCC101BT fails. This MCC supplies power to AFW Turb PP Rm NSR A/C Unit.	PAJ
FN	None	Only has 1 PCV. I am assuming that these valves will not fail during a flood.	PAJ
FT	None	Stop valves fail closed. If SGFPs are secured, which they are (See Top MT), this top is successful.	PAJ
GW	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
GZ	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
IP	None	Air accumulator only. Mechanical operation only.	PAJ
K5	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
LF	F	1CV1105/1106/4405/4406 fail closed on loss of power and loss of air.	PAJ
M7	F	MCC 106T fails.	PAJ
M8	F	MCC 116T fails.	PAJ
MC	F	All condensate pumps fail.	PAJ
MN	F	Both SGFPs trip.	PAJ
MP	F	1CV1111/1121 are normally open and fail as-is.	PAJ
MT	None	SGFP trip in this scenario. See top MN.	PAJ

\* This Flood designator should be IT12AM as this is a circulating water flood on the Turb. Bag 12' level. ("C" is for Comp. Cooling Floods.) JPK.

TOP	PM	EVALUATION	RI
N1	1BKR	1 breaker challenge.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	1BKR	1 breaker challenge.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N8	3BKR	3 breaker challenges.	PAJ
NR	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail.	PAJ
NS	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail.	PAJ
QC	<del>4BKR</del> none	<del>4 breaker challenges.</del> (note 39)*	PAJ
QF	<del>4BKR</del> none	<del>4 breaker challenges.</del> (note 39)*	PAJ
RL	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
S3	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
S4	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
T1	None	1CV4406 and 2CV4406 fails closed.	PAJ
TT	None	Control and Stop valves fail closed.	PAJ
VC	F	All Condenser Vacuum Pumps Fail.	PAJ

\* see notes in RAN 98-065 sect. 5.4

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	AE	MYCB1Q	MYCB1Q	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	AE	MYCB2Q	MYCB2Q	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	AE	MYCP1Q	MYCP1Q	0
1TB12-2	1PUMPHDV11	11 FW HEATER DRAIN PUMP (1MA206)	AE	MYHD1Q	MYHD1Q	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	AF	MYCB3Q	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	AF	MYCP2Q	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	AF	MYCP3Q	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	AF	MYHD2Q	MYHD2Q	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400O	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940T	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BS	BS3940	IV940T	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3940	IZ940R	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940I	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940R	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420O	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942T	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BS	BS3942	IV942T	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3942	IZ942R	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942I	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942R	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440O	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944T	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BS	BS3944	IV944T	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3944	IZ944R	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944I	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944R	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460O	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946T	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BS	BS3946	IV946T	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3946	IZ946R	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX946I	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX960R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1PT4056	MS TURB BYPASS VLV CONTROL PT	BS	BS4056	PT056R	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS940C	AB40BC	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40AD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40BD	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS942C	AB42BC	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	IV42AD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	IV42BD	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS944C	AB44BC	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	IV44AD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	IV44BD	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS946C	AB46BC	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	IV46AD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	IV46BD	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	C5940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	C5942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	C5944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	C5946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BV	BV3940	AB40BO	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	BV3940	C5940P	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3940	C5940P	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BV3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AD	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AT	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BT	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BV	BV3942	AB42BO	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	BV3942	C5942P	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3942	C5942P	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BV3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AD	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AT	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BT	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BV	BV3944	AB44BO	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	BV3944	C5944P	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3944	C5944P	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BV3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AD	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AT	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BT	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BV	BV3946	AB46BO	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BV	BV3946	C5946P	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3946	C5946P	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BV3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AD	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AT	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BT	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BVCLVR	IV940T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BVCLVR	IV942T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BVCLVR	IV344T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BVCLVR	IV946T	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	C5940O	C5940O	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C5940O	C5940O	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	C5940O	C5940O	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	C5942O	C5942O	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C5942O	C5942O	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	C5942O	C5942O	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	C5944O	C5944O	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C5944O	C5944O	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	C5944O	C5944O	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BV	C5946O	C5946O	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C5946O	C5946O	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	C5946O	C5946O	0
1TB12-1	1AFWDOORS	AFW DOUBLE DOORS	FC	Dummy	N/A	0
1TB27-1	1MCC101BT	MCC 101BT	FC	FC1MCC	R11BTR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	FC	FC1MCC	CG141T	0
1TB12	1PCV1600	AUX FD PP RM CLR TEMP REG VLV	FC	FCSRWC	CV1600P	0
1TB12-1	1FDTB12W1	AFW RM SUPPLY FROM AFW TO TB12 FD	FC	FDAMPR	FF122I	0
1TB12	1PCV4510	11A AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV4510P	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	FT	FTFW30	S1010D	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	FT	FTFW40	S1059D	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT11HCO	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT11HCT	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT11HSO	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT11HST	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT11LCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT11LCT	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT11LSO	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT11LST	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT12HCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT12HCT	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT12HSO	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT12HST	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT12LCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT12LCT	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT12LSO	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT12LST	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GW	S7TBAL	AT11R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GW	S7TBAL	AT22R	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	GW	S7TBAL	AT11R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI22R	0
2TB12-4	2HXPAV/CLR21	21 PA COMPR AFTER COOLER	GZ	S7TBAL	ATP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	IP	IPIA99	TK11B	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	K5	K5FIRE	K5FH5F	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106P	C3106P	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1CV4405	HOTWELL TO COND STORAGE VLV	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1I/P4405	HOTWELL TO COND STORAGE CONT	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	LF	LFMUCV	LT405R	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BP	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	LF	RY83AT	RY83AT	0
1TB27-1	1MCC106T	MCC 106T	M7	BU213Q	BU213Q	0
1TB27-1	1MCC106T	MCC 106T	M7	BUM06R	BUM06R	0
1TB12-2 (CP)	1PNL1C51	11A AMERTAP CNTL PNL 1C51	M7	BUP23Q	BUP23Q	0
1TB12-2 (CP)	1PNL1C52	11B AMERTAP CNTL PNL 1C52	M7	BUP24Q	BUP24Q	0
1TB12-2 (CP)	1PNL1C53	12A AMERTAP CNTL PNL 1C53	M7	BUP25Q	BUP25Q	0
1TB27-1	1BKR52-10602	MCC 106T CIRC H2O PP DISCH 1MOV-5225 BKR	M7	CBP02O	CBP02O	0
1TB27-1	1BKR52-10603	MCC 106T CIRC H2O PP 12 DISCH 1MOV-5229 BKR	M7	CBP03O	CBP03O	0
1TB27-1	1BKR52-10604	MCC 106T CIRC H2O PP 13 DISCH 1MOV-5233 BKR	M7	CBP04O	CBP04O	0
1TB27-1	1BKR52-10605	MCC 106T WELDING RECEPTACLES 1W40-1W43	M7	CBP05O	CBP05O	0
1TB27-1	1BKR52-10606	MCC 106T WELDING RECEPTACLES 1W44-1W47	M7	CBP06O	CBP06O	0
1TB27-1	1BKR52-10607	MCC 106T COND PP 11 LUBE OIL PP BKR	M7	CBP07O	CBP07O	0
1TB27-1	1BKR52-10608	MCC 106T CIRC WTR PRIMING PP 11 BKR	M7	CBP08O	CBP08O	0
1TB27-1	1BKR52-10609	MCC 106T CIRC WTR PRIMING PP 12 BKR	M7	CBP09O	CBP09O	0
1TB27-1	1BKR52-10610	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP	M7	CBP10O	CBP10O	0
1TB27-1	1BKR52-10611	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP	M7	CBP11O	CBP11O	0
1TB27-1	1BKR52-10612	MCC 106T SGFP 11 LUBE OIL CONDITIONER BKR	M7	CBP12O	CBP12O	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	M7	CBP13O	CBP13O	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	M7	CBP14O	CBP14O	0
1TB27-1	1BKR52-10615	SGFP 11 OIL VAPOR EXTRACTOR	M7	CBP15O	CBP15O	0
1TB27-1	1BKR52-10616	MCC 106T BEARING OIL VAPOR EXTR 11 BKR	M7	CBP16O	CBP16O	0
1TB27-1	1BKR52-10617	MCC 106T STM LEAD DRN 1MOV-4652(CV2) BKR	M7	CBP17O	CBP17O	0
1TB27-1	1BKR52-10618	MCC 106T STM LEAD DRN 1MOV-4651(CV4) BKR	M7	CBP18O	CBP18O	0
1TB27-1	1BKR52-10619	MCC 106T HYDRAULIC FLUID FILT PP 11 BKR	M7	CBP19O	CBP19O	0
1TB27-1	1BKR52-10620	MCC 106T MN OIL SEAL PP 11 (MN GEN)	M7	CBP20O	CBP20O	0
1TB27-1	1BKR52-10621	MCC 106T SEAL OIL RECIRC PP 11 BKR	M7	CBP21O	CBP21O	0
1TB27-1	1BKR52-10622	MCC 106T SEAL VACUUM PP 11 BKR	M7	CBP22O	CBP22O	0
1TB27-1	1BKR52-10623	MCC 106T 11A AMERTAP CONTR PNL 1C51 BKR	M7	CBP23O	CBP23O	0
1TB27-1	1BKR52-10624	MCC 106T 11B AMERTAP CONTR PNL 1C52	M7	CBP24O	CBP24O	0
1TB27-1	1BKR52-10625	MCC 106T 12A AMERTAP CONTR PNL 1C53 BKR	M7	CBP25O	CBP25O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
1TB27-1	1BKR52-10626	MCC 106T UNIT HTR 9 BKR	M7	CBP260	CBP260	0
1TB27-1	1BKR52-10627	MCC 106T UNIT HTR 10 BKR	M7	CBP270	CBP270	0
1TB27-1	1BKR52-10628	MCC 106T SGFP 11 LP STOP VLV DRN B 1MOV-5090	M7	CBP280	CBP280	0
1TB27-1	1BKR52-10629	MCC 106T COMBINED CNTMT DRN 1MOV-4658(CV) B	M7	CBP290	CBP290	0
1TB27-1	1BKR52-10630	GLAND SEAL STEAM SUPPLY VALVE 1-MOV-4859	M7	CBP300	CBP300	0
1TB27-1	1BKR52-10631	MCC 106T STM SEAL BY-PASS 1MOV-4656(S2) BKR	M7	CBP310	CBP310	0
1TB27-1	1BKR52-10632	MCC 106T STM SEAL UNLOADING 1MOV-4657(B) BKR	M7	CBP320	CBP320	0
1TB27-1	1BKR52-10633	MCC 106T STM PACK EXH 11 BKR	M7	CBP330	CBP330	0
1TB27-1	1BKR52-10635	MCC 106T AUX BOILER FUEL PP 11 BKR	M7	CBP350	CBP350	0
1TB27-1	1BKR52-10636	MCC 106T COND VACUUM RECIRC SEAL PP 11 BKR	M7	CBP360	CBP360	0
1TB27-1	1BKR52-10637	MCC 106T COND VACUUM RECIRC SEAL PP 12 BKR	M7	CBP370	CBP370	0
1TB27-1	1BKR52-10638	SGFP 11 LP STOP VLV DRN 1-MOV-5089	M7	CBP380	CBP380	0
1TB27-1	1BKR52-10639	LIGHTING XFMR (1L11/L17) L-208-218	M7	CBP390	CBP390	0
1TB27-1	1BKR52-10640	MCC 106T SGFP 11 EXH 1MOV-3964 BKR	M7	CBP400	CBP400	0
1TB27-1	1BKR52-10642	MCC 106T UNIT HTR 11 BKR	M7	CBP420	CBP420	0
1TB27-1	1BKR52-10643	MCC 106T UNIT HTR 12 BKR	M7	CBP430	CBP430	0
1TB27-1	1BKR52-10644	MCC 106T SGFP 11 HP STOP VLV DRN B 1MOV-5088	M7	CBP440	CBP440	0
1TB27-1	1BKR52-10645	ROADWAY LIGHTING PANEL 1L54	M7	CBP450	CBP450	0
1TB27-1	1BKR52-10646	MCC 106T SGFP 11 HP STOP VLV DRN A 1MOV-5087	M7	CBP460	CBP460	0
1TB27-1	1BKR52-10647	DISTRIBUTION XFMR 16 480-208/120V	M7	CBP470	CBP470	0
1TB27-1	1BKR52-10648	MCC 106T UNIT HTR 13 BKR	M7	CBP480	CBP480	0
1TB27-1	1BKR52-10649	MCC 106T SGFP 11 1ST STG DRN 1MOV-5091 BKR	M7	CBP490	CBP490	0
1TB27-1	1BKR52-10651	MCC 106T RHT STM SUPP 1MOV-4026 BKR	M7	CBP510	CBP510	0
1TB27-1	1BKR52-10652	MCC 106T MS TO MS RHTR 11 1MOV-4018 BKR	M7	CBP520	CBP520	0
1TB27-1	1BKR52-10653	MCC 106T EXTRACT STM TO MS RHTR 11 1MOV-401	M7	CBP530	CBP530	0
1TB27-1	1BKR52-10654	SMOKE REMOVAL DAMPER 0M05390 (CLOSED)	M7	CBP540	CBP540	0
1TB27-1	1BKR52-10656	CR & CBL SPREADING RM CHILL WTR SUPP PP 11	M7	CBP560	CBP560	0
1TB27-1	1BKR52-10657	MCC 106T TURB BLDG SUPP FAN 13 BKR	M7	CBP570	CBP570	0
1TB27-1	1BKR52-10658	MCC 106T TURB BLDG SUPP FAN 14 BKR	M7	CBP580	CBP580	0
1TB27-1	1BKR52-10659	MCC 106T COND PP 11 FAN BKR	M7	CBP590	CBP590	0
1TB27-1	1BKR52-10661	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP610	CBP610	0
1TB27-1	1BKR52-10662	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP620	CBP620	0
1TB27-1	1BKR52-10663	MCC 106T BOOSTER JOCKEY PP FIRE PROT SYS BK	M7	CBP630	CBP630	0
1TB27-1	1BKR52-10667	MCC 106T TURB AREA OILY SUMP 11 PP 11 BKR	M7	CBP670	CBP670	0
1TB27-1	1BKR52-10668	MCC 106T TURB AREA OILY SUMP 11 PP 12 BKR	M7	CBP680	CBP680	0
1TB27-1	1BKR52-10669	MCC 106T SMOKE REMOVAL DMPR 0M05391 BKR	M7	CBP690	CBP690	0
1TB27-1	1BKR52-10670	MCC 106T SMOKE REMOVAL DMPR 0M05392 BKR	M7	CBP700	CBP700	0
1TB27-1	1BKR52-10671	MCC 106T AUX BD TK PP 11 BKR	M7	CBP710	CBP710	0
1TB27-1	1BKR52-10672	MCC 106T SPARE BKR	M7	CBP720	CBP720	0
1TB27-1	1BKR52-10673	SERV XFMR (P-13000-1) COOLING B (EMERGENCY)	M7	CBP730	CBP730	0
1TB27-1	1BKR52-10674	SERV XFMR (U-4000-11) COOLING A (NORMAL)	M7	CBP740	CBP740	0
1TB27-1	1BKR52-10675	SERV XFMR (U-4000-21) COOLING A (NORMAL)	M7	CBP750	CBP750	0
1TB27-1	1BKR52-10676	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11A	M7	CBP760	CBP760	0
1TB27-1	1BKR52-10677	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11B	M7	CBP770	CBP770	0
1TB27-1	1BKR52-10678	MCC 106T HTR DRN PP 11 LUBE OIL COOLER FAN B	M7	CBP780	CBP780	0
1TB27-1	1BKR52-10601	MAIN FEEDER BREAKER	M7	M7BCBM	CBP01T	0
1TB12-3	1PUMPSTC11	11 MG STATOR WTR CLG PUMP (1MB216)	M7	MB215Q	MB215Q	0
1TB12-4	1PUMPEHC11	11 MT EHC HYD UNIT PUMP (1MB216)	M7	MB216Q	MB216Q	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	M7	MB217Q	MB217Q	0
2TB27-8	0PUMPPHM11	11 MAIN HTG HWC PUMP (1MB225)	M7	MB225Q	MB225Q	0
1TB12-3	1PUMPWBP11	11 CW WTRBX PRMG PP (1M0608)	M7	MBP08Q	MBP08Q	0
1TB12-3	1PUMPWBP12	12 CW WTRBX PRMG PP (1M0609)	M7	MBP09Q	MBP09Q	0
1TB12-3	1PUMPWBPSWP11	11 CW WTRBX PRMG PP SEAL WTR PUMP (1M0810)	M7	MBP10Q	MBP10Q	0
1TB12-3	1PUMPWBPSWP12	12 CW WTRBX PRMG PP SEAL WTR PUMP (1M0811)	M7	MBP11Q	MBP11Q	0
1TB27-7	0PUMPBSTR9600	0 FP BSTR PUMP # 9600 (1M0663)	M7	MBP63Q	MBP63Q	0
1TB27-5W	1PUMPWOSMPTB11	TURB AREA OILY SUMP 11 PUMP 11 (1M0667)	M7	MBP67Q	MBP67Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB27-5W	1PUMPWOSMPTB12	TURB AREA OILY SUMP 11 PUMP 12 (1M0668)	M7	MBP68Q	MBP68Q	0
1TB12-2 (CP)	1PUMPM5BD11	11 AUX BD TK PUMP (1M0671)	M7	MBP71Q	MBP71Q	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	M7	MMP07Q	MMP07Q	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	M7	MMP13Q	MMP13Q	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	M7	MMP14Q	MMP14Q	0
1TB12-3	1PUMP2325	GEN H2 SEAL OIL SYS MAIN PUMP (1M0620)	M7	MMP20Q	MMP20Q	0
1TB12-3	1PUMP4624	GEN H2 SEAL OIL SYS RECIRC PUMP (1M0621)	M7	MMP21Q	MMP21Q	0
1TB12-3	1PUMP2316	MG H2 SEAL OIL VACUUM PUMP (1M0622)	M7	MMP22Q	MMP22Q	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	M7	MMP36Q	MMP36Q	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	M7	MMP37Q	MMP37Q	0
1TB12-2	1PUMPHDVL0P11A	11A HTR DRN PP LO CLR PP (1M0676)	M7	MMP76Q	MMP76Q	0
1TB12-2	1PUMPHDVL0P11B	11B HTR DRN PP LO CLR PP (1M0677)	M7	MMP77Q	MMP77Q	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	M7	MVP02Q	MVP02Q	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	M7	MVP03Q	MVP03Q	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	M7	MVP04Q	MVP04Q	0
1TB12-2	1MOV4652	14 STEAM LEAD DR	M7	MVP17Q	MVP17Q	0
1TB12-2	1MOV4651	12 STEAM LEAD DR	M7	MVP18Q	MVP18Q	0
1TB12-2	1MOV5090	11 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M7	MVP28Q	MVP28Q	0
1TB12-4	1MOV4658	MN CONT VLVS BEFORE SEAT DRN	M7	MVP29Q	MVP29Q	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	M7	MVP30Q	MVP30Q	0
1TB12-4	1MOV4656	1 GS MS SEAL REG BYP MOV	M7	MVP31Q	MVP31Q	0
1TB12-4	1MOV4657	1 GS SEAL DUMP BYP MOV	M7	MVP32Q	MVP32Q	0
1TB12-2	1MOV5089	11 SGFP LP STOP ABOVE SEAT DRN	M7	MVP38Q	MVP38Q	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	M7	MVP40Q	MVP40Q	0
1TB12-2	1MOV5088	11 SGFP HP STOP BELOW SEAT DRN	M7	MVP44Q	MVP44Q	0
1TB12-2	1MOV5087	11 SGFP HP STOP ABOVE SEAT DRN	M7	MVP46Q	MVP46Q	0
1TB12-2	1MOV5091	1FW SG FD PP 1ST STG EXH DRN	M7	MVP49Q	MVP49Q	0
1TB12-4	1MOV4026	MS TO 11 MSR 2ND STG	M7	MVP51Q	MVP51Q	0
1TB27-6	1MOV4018	MS TO 11 MSR 2ND STG CONT	M7	MVP52Q	MVP52Q	0
1TB27-6	1MOV4019	EXTRACTION STEAM TO MOISTURE SEPARATOR R	M7	MVP53Q	MVP53Q	0
1TB27-1	1XL-208-118	LTG XFMR L-208-118 TURB BLDG EL 27 FT	M7	TMP39Q	TMP39Q	0
1TB27-1	1XDT16	LTG DISTR XFMR 16	M7	TMP47Q	TMP47Q	0
1TB12-2	1FANFPTLOCDTRE11	11 SGFP LO COND VAP EXT (1M0612)	M7	VAP12Q	VAP12Q	0
1TB12-2	1FANFPTLORESVE11	11 SGFP LO RESV VAPOR EXT (1M0615)	M7	VAP15Q	VAP15Q	0
1TB12-4	1FANGSPACK11	11 GLAND STEAM PACKING EXH (1M0633)	M7	VAP33Q	VAP33Q	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	M7	VAP59Q	VAP59Q	0
1TB12-2	1FANHVACHDPS11	11 HTR DRN PUMP AREA CLR (1M0678)	M7	VAP78Q	VAP78Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BU313Q	BU313Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BUM16R	BUM16R	0
1TB12-2 (CP)	1RECEPTMCC116A	POWER RECEIPT MCC116 (1W48, 1W49, 1W50, 1W51)	M8	BUQ05Q	BUQ05Q	0
1TB12-2 (CP)	1PNL1C54	12B AMERTAP CNTL PNL 1C54	M8	BUQ23Q	BUQ23Q	0
1TB12-2 (CP)	1PNL1C55	13A AMERTAP CNTL PNL 1C55	M8	BUQ24Q	BUQ24Q	0
1TB12-2 (CP)	1PNL1C56	13B AMERTAP CNTL PNL 1C56	M8	BUQ25Q	BUQ25Q	0
1TB27-1	1BKR52-11602	MCC 116T CIRC H2O PP 14 DISCH 1MOV-5237 BKR	M8	CBQ02O	CBQ02O	0
1TB27-1	1BKR52-11603	MCC 116T CIRC H2O PP 15 DISCH 1MOV-5241 BKR	M8	CBQ03O	CBQ03O	0
1TB27-1	1BKR52-11604	MCC 116T CIRC H2O PP 16 DISCH 1MOV-5245 BKR	M8	CBQ04O	CBQ04O	0
1TB27-1	1BKR52-11605	MCC 116T PWR RECEPTACLE BKR	M8	CBQ05O	CBQ05O	0
1TB27-1	1BKR52-11606	MCC 116T COND PP 12 LUBE OIL PP BKR	M8	CBQ06O	CBQ06O	0
1TB27-1	1BKR52-11607	MCC 116T COND PP 13 LUBE OIL PP BKR	M8	CBQ07O	CBQ07O	0
1TB27-1	1BKR52-11608	MCC 116T CIRC WTR PRIMING PP 13 BKR	M8	CBQ08O	CBQ08O	0
1TB27-1	1BKR52-11609	MCC 116T UNIT HTR 14 BKR	M8	CBQ09O	CBQ09O	0
1TB27-1	1BKR52-11610	MCC 116T CIRC WTR PRIMING PP RECIRC SEAL PP	M8	CBQ10O	CBQ10O	0
1TB27-1	1BKR52-11611	MCC 116T UNIT HTR 15 BKR	M8	CBQ11O	CBQ11O	0
1TB27-1	1BKR52-11612	MCC 116T SGFP 12 LUBE OIL CONDITIONER BKR	M8	CBQ12O	CBQ12O	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	M8	CBQ13O	CBQ13O	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	M8	CBQ14O	CBQ14O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-11615	MCC 116T SGFP 12 OIL VAPOR EXTR BKR	M8	CBQ150	CBQ150	0
1TB27-1	1BKR52-11616	MCC 116T 13 KV SERVICE BUSES 11 & 12 SERVICE X	M8	CBQ160	CBQ160	0
1TB27-1	1BKR52-11617	MCC 116T SPARE RCP MTR OIL LIFT PP BKR	M8	CBQ170	CBQ170	0
1TB27-1	1BKR52-11618	MCC 116T CNDSR VACUUM BKR 1MOV-6717 BKR	M8	CBQ180	CBQ180	0
1TB27-1	1BKR52-11620	MCC 116T CNDSR BULLETING PP 11 BKR	M8	CBQ200	CBQ200	0
1TB27-1	1BKR52-11621	MCC 116T TURB LUBE OIL CONDITIONER 11 BKR	M8	CBQ210	CBQ210	0
1TB27-1	1BKR52-11623	MCC 116T 12B AMERTAP CONTR PNL 1C54 BKR	M8	CBQ230	CBQ230	0
1TB27-1	1BKR52-11624	MCC 116T 13A AMERTAP CONTR PNL 1C55 BKR	M8	CBQ240	CBQ240	0
1TB27-1	1BKR52-11625	MCC 116T 13B AMERTAP CONTR PNL 1C56 BKR	M8	CBQ250	CBQ250	0
1TB27-1	1BKR52-11626	MCC 116T UNIT HTR 16 BKR	M8	CBQ260	CBQ260	0
1TB27-1	1BKR52-11627	MCC 116T UNIT HTR 17 BKR	M8	CBQ270	CBQ270	0
1TB27-1	1BKR52-11628	MCC 116T SGFP 12 HP STOP VLV DRN A 1MOV-5092	M8	CBQ280	CBQ280	0
1TB27-1	1BKR52-11629	MCC 116T RHT STM DRN 1MOV-4022 BKR	M8	CBQ290	CBQ290	0
1TB27-1	1BKR52-11630	MCC 116T RHT STM DRN 1MOV-4023 BKR	M8	CBQ300	CBQ300	0
1TB27-1	1BKR52-11631	MCC 116T STM SEAL AUX SUPP 1MOV-4678(SG) BKR	M8	CBQ310	CBQ310	0
1TB27-1	1BKR52-11633	MCC 116T STM PACK EXH 12 BKR	M8	CBQ330	CBQ330	0
1TB27-1	1BKR52-11635	MCC 116T AUX BOILER FUEL PP 12 BKR	M8	CBQ350	CBQ350	0
1TB27-1	1BKR52-11636	MCC 116T COND VACUUM RECIRC SEAL PP 13 BKR	M8	CBQ360	CBQ360	0
1TB27-1	1BKR52-11637	MCC 116T COND VACUUM RECIRC SEAL PP 14 BKR	M8	CBQ370	CBQ370	0
1TB27-1	1BKR52-11638	MCC 116T SGFP 12 LP STOP VLV DRN A 1MOV-5094	M8	CBQ380	CBQ380	0
1TB27-1	1BKR52-11639	MCC 116T LTG XFMR (L-208-112) BKR	M8	CBQ390	CBQ390	0
1TB27-1	1BKR52-11640	MCC 116T SGFP 12 EXH 1MOV-3981 BKR	M8	CBQ400	CBQ400	0
1TB27-1	1BKR52-11641	MCC 116T TURBINE LO XFMR PP 11 BKR	M8	CBQ410	CBQ410	0
1TB27-1	1BKR52-11642	MCC 116T TURB AREA SUMP 11 PP 11 BKR	M8	CBQ420	CBQ420	0
1TB27-1	1BKR52-11643	MCC 116T TURB AREA SUMP 11 PP 12 BKR	M8	CBQ430	CBQ430	0
1TB27-1	1BKR52-11644	MCC 116T SGFP 12 HP STOP VLV DRN 1MOV-5093 B	M8	CBQ440	CBQ440	0
1TB27-1	1BKR52-11645	MCC 116T LTG XFMR (L-208-119) BKR	M8	CBQ450	CBQ450	0
1TB27-1	1BKR52-11646	MCC 116T SGFP 12 LP STOP VLV DRN 1MOV-5095 BK	M8	CBQ460	CBQ460	0
1TB27-1	1BKR52-11647	MCC 116T DISTR XFMR 116 BKR	M8	CBQ470	CBQ470	0
1TB27-1	1BKR52-11648	MCC 116T PWR RECEPTACLE BKR	M8	CBQ480	CBQ480	0
1TB27-1	1BKR52-11649	MCC 116T SGFP 12 FIRST STG DRN 1MOV-5096 BKR	M8	CBQ490	CBQ490	0
1TB27-1	1BKR52-11650	MCC 116T UNIT HTR 18 BKR	M8	CBQ500	CBQ500	0
1TB27-1	1BKR52-11651	MCC 116T RHT STM SUPP 1MOV-4025 BKR	M8	CBQ510	CBQ510	0
1TB27-1	1BKR52-11652	MCC 116T MS TO MS RHTR 12 1MOV-4017 BKR	M8	CBQ520	CBQ520	0
1TB27-1	1BKR52-11653	MCC 116T EXTR STM TO MS RHTR 12 1MOV-4020 BK	M8	CBQ530	CBQ530	0
1TB27-1	1BKR52-11655	MCC 116T HYD PWR UNIT HTR 11 BKR	M8	CBQ550	CBQ550	0
1TB27-1	1BKR52-11656	MCC 116T AUX BD TK PP 12 BKR	M8	CBQ560	CBQ560	0
1TB27-1	1BKR52-11657	MCC 116T TURB BLDG SUPP FAN 15 BKR	M8	CBQ570	CBQ570	0
1TB27-1	1BKR52-11658	MCC 116T TURB BLDG SUPP FAN 16 BKR	M8	CBQ580	CBQ580	0
1TB27-1	1BKR52-11659	MCC 116T COND PP 12 FAN BKR	M8	CBQ590	CBQ590	0
1TB27-1	1BKR52-11660	MCC 116T COND PP 13 FAN BKR	M8	CBQ600	CBQ600	0
1TB27-1	1BKR52-11661	MCC 116T TURB BLDG HIGH BAY LTG BKR	M8	CBQ610	CBQ610	0
1TB27-1	1BKR52-11662	MCC 116T TURB BLDG LOW BAY LTG BKR	M8	CBQ620	CBQ620	0
1TB27-1	1BKR52-11663	MCC 116T TURB AREA SUMP 12 PP 11 BKR	M8	CBQ630	CBQ630	0
1TB27-1	1BKR52-11664	MCC 116T TURB AREA SUMP 12 PP 12 BKR	M8	CBQ640	CBQ640	0
1TB27-1	1BKR52-11665	MCC 116T LIGHTING TRANSFORMER 1L26 L-208-126	M8	CBQ650	CBQ650	0
1TB27-1	1BKR52-11667	MCC 116T TURBINE BLDG HTG CIRC PP 11 BKR	M8	CBQ670	CBQ670	0
1TB27-1	1BKR52-11668	MCC 116T CR & CSR CHILLED WTR SUPP PP #12 BK	M8	CBQ680	CBQ680	0
1TB27-1	1BKR52-11669	MCC 116T XFMR 1X116 BKR	M8	CBQ690	CBQ690	0
1TB27-1	1BKR52-11670	MCC 116T MTR OPER DOOR 804 BKR	M8	CBQ700	CBQ700	0
1TB27-1	1BKR52-11671	MCC 116T COND COLLECTION TK 11 PP 11 BKR	M8	CBQ710	CBQ710	0
1TB27-1	1BKR52-11672	MCC 116T COND COLLECTION TK 11 PP 12 BKR	M8	CBQ720	CBQ720	0
1TB27-1	1BKR52-11673	MCC 116T SERVICE XFMR (P-13000-1) COOLING B BK	M8	CBQ730	CBQ730	0
1TB27-1	1BKR52-11674	MCC 116T SERVICE XFMR (U-4000-11) COOLING B BK	M8	CBQ740	CBQ740	0
1TB27-1	1BKR52-11675	MCC 116T SERVICE XFMR (U-4000-21) COOLING B BK	M8	CBQ750	CBQ750	0
1TB27-1	1BKR52-11676	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12A	M8	CBQ760	CBQ760	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-11677	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12B	M8	CBQ77O	CBQ77O	0
1TB27-1	1BKR52-11678	MCC 116T HTR DRN PP 12 LUBE OIL COOLER FAN B	M8	CBQ78O	CBQ78O	0
1TB27-1	1BKR52-11601	MCC 116T MN FDR BKR	M8	M8BCBM	CBQ01T	0
1TB12-3	1PUMPSTC12	12 MG STATOR WTR CLG PUMP (1MB316)	M8	MB315Q	MB315Q	0
1TB12-4	1PUMPEHC12	12 MT EHC HYD UNIT PUMP (1MB316)	M8	MB316Q	MB316Q	0
1TB12-2 (CP)	1PUMPCAR14	14 CAR VAC PP (1MB317)	M8	MB317Q	MB317Q	0
1TB12-3	1PUMPWPB13	13 CW WTRBX PRMG PP (1M1608)	M8	MBQ08Q	MBQ08Q	0
1TB12-3	1PUMPWPBPSWP13	13 CW WTRBX PRMG PP SEAL WTR PUMP (1M1610)	M8	MBQ10Q	MBQ10Q	0
1TB12-2	1PUMPFPTLLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	M8	MBQ13Q	MBQ13Q	0
1TB12-2	1PUMPFPTLLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	M8	MBQ14Q	MBQ14Q	0
1TB27-7	0PUMPRCPSARE	SPARE RCP MTR OIL LIFT PP MTR (0M1617)	M8	MBQ17Q	MBQ17Q	0
1TB27-5E	1PUMPSWBSTR11	11 SW BOOSTER PUMP (1M1620)	M8	MBQ20Q	MBQ20Q	0
1TB12-2 (CP)	1PUMPSMP11TB11	11 TURB BLDG SUMP 11 PP (1M1642)	M8	MBQ42Q	MBQ42Q	0
1TB12-2 (CP)	1PUMPSMP11TB12	11 TURB BLDG SUMP PP 12 (1M1643)	M8	MBQ43Q	MBQ43Q	0
1TB12-2 (CP)	1PUMPSMBD12	12 AUX BD TK PUMP (1M1656)	M8	MBQ56Q	MBQ56Q	0
1TB27-5E	1PUMPSMP12TB11	12 TURB BLDG SUMP PP 11 (1M1663)	M8	MBQ63Q	MBQ63Q	0
1TB27-5E	1PUMPSMP12TB12	12 TURB BLDG SUMP 12 PP (1M1664)	M8	MBQ64Q	MBQ64Q	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	M8	MMQ06Q	MMQ06Q	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	M8	MMQ07Q	MMQ07Q	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	M8	MMQ36Q	MMQ36Q	0
1TB12-2 (CP)	1PUMPCARSWP14	14 CAR SEAL WTR PUMP (1M1637)	M8	MMQ37Q	MMQ37Q	0
2TB27-8	0PUMPPHTB11	11 HTG TURB BLDG HWC PUMP (0M1667)	M8	MMQ67Q	MMQ67Q	0
1TB12-2	1PUMPHDVL0P12A	12A HTR DRN PP LO CLR PP (1M1676)	M8	MMQ76Q	MMQ76Q	0
1TB12-2	1PUMPHDVL0P12B	12B HTR DRN PP LO CLR PP (1M1677)	M8	MMQ77Q	MMQ77Q	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	M8	MVQ02Q	MVQ02Q	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	M8	MVQ03Q	MVQ03Q	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	M8	MVQ04Q	MVQ04Q	0
1TB27-3	1MOV6717	COND VAC BKR	M8	MVQ18Q	MVQ18Q	0
1TB12-2	1MOV5092	12 SGFP HP STOP ABOVE SEAT DRN	M8	MVQ28Q	MVQ28Q	0
1TB12-4	1MOV4022	11 MSR 2ND STG RHT SUPP DRN	M8	MVQ29Q	MVQ29Q	0
1TB12-4	1MOV4023	12 MSR 2ND STAGE RHT SUPP DRN	M8	MVQ30Q	MVQ30Q	0
1TB12-4	1MOV4678	AUX STM SEAL SUPPLY VLV	M8	MVQ31Q	MVQ31Q	0
1TB12-2	1MOV5094	12 SGFP LP STOP ABOVE SEAT DRN	M8	MVQ38Q	MVQ38Q	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	M8	MVQ40Q	MVQ40Q	0
1TB12-2	1MOV5093	12 SGFP HP STOP BELOW SEAT DRN	M8	MVQ44Q	MVQ44Q	0
1TB12-2	1MOV5095	12 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M8	MVQ46Q	MVQ46Q	0
1TB12-2	1MOV5096	12 SGFP 1ST STG EXH DRN	M8	MVQ49Q	MVQ49Q	0
1TB12-4	1MOV4025	MS TO 11 MSR 2ND STG	M8	MVQ51Q	MVQ51Q	0
1TB27-5W	1MOV4017	MS TO 12 MSR 2ND STG CONT	M8	MVQ52Q	MVQ52Q	0
1TB27-6	1MOV4020	EXTRACTION STEAM TO MOISTURE SEPARATOR R	M8	MVQ53Q	MVQ53Q	0
1TB27-1	1XL-208-112	LTG XFMR L-208-112 TURB BLDG EL 27 FT	M8	TMQ39Q	TMQ39Q	0
1TB27-1	1XDT116	LTG DISTR XFMR 116	M8	TMQ47Q	TMQ47Q	0
1TB12-2	1FANFPTLOCDTRE12	12 SGFP LO COND FAN (1M1612)	M8	VAQ12Q	VAQ12Q	0
1TB12-2	1FANFPTLORESVE12	12 SGFP LO RESV VAPOR EXT (1M1615)	M8	VAQ15Q	VAQ15Q	0
1TB12-4	1M1633	12 STM PACKING EXH MTR (1M1633)	M8	VAQ33Q	VAQ33Q	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	M8	VAQ59Q	VAQ59Q	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	M8	VAQ60Q	VAQ60Q	0
1TB12-2	1M1678	12 HDV HTR DRN PP LUBE OIL CLR FAN 12 MTR (1M1	M8	VAQ78Q	VAQ78Q	0
1TB27-7	1PS4453	11 CD BOOSTER PP SUCTION LOW PS	MC	MCBP10	PS453R	0
1TB27-7	1PS4513	COND BOOSTER PUMP 11 PS	MC	MCBP10	PS513R	0
1TB27-7	1PS4460	12 CD BOOSTER PP SUCTION LOW PS	MC	MCBP20	PS460R	0
1TB27-7	1PS4514	COND BOOSTER PUMP 12 PS	MC	MCBP20	PS514R	0
1TB12-2	1PS4467	13 CD BOOSTER PP SUCTION LOW PS	MC	MCBP30	PS467R	0
1TB12-2	1PS4468	13 CD BOOSTER PP DISCHARGE LOW PS	MC	MCBP30	PS468D	0
1TB12-2	1PS4515	COND BOOSTER PUMP 13 PS	MC	MCBP30	PS515R	0
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEB	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEP	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AB	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AP	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BB	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BP	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CB	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CP	0
1TB27-4	1HXCCLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AB	0
1TB27-4	1HXCCLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AP	0
1TB27-4	1HXCCLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AB	0
1TB27-4	1HXCCLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AP	0
1TB27-4	1HXCCLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BB	0
1TB27-4	1HXCCLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BP	0
1TB27-4	1HXCCLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BB	0
1TB27-4	1HXCCLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BP	0
1TB27-4	1HXCCLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CB	0
1TB27-4	1HXCCLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CP	0
1TB27-4	1HXCCLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CB	0
1TB27-4	1HXCCLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CP	0
1TB12-1	1HXCCLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AB	0
1TB12-1	1HXCCLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AP	0
1TB27-2	1HXCCLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AB	0
1TB27-2	1HXCCLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AP	0
1TB12-1	1HXCCLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BB	0
1TB12-1	1HXCCLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BP	0
1TB27-2	1HXCCLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BB	0
1TB27-2	1HXCCLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BP	0
1TB27-7	1TCV1619	11 CBP LO CLR TCV	MC	MCLO15	C7619P	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11B	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11P	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AB	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AP	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BB	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BP	0
1TB27-7	1TCV1620	12 CBP LO CLR TEMP TCV	MC	MCLO25	C7620P	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12B	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12P	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AB	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AP	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BB	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BP	0
1TB12-2	1TCV1621	13 CBP LO CLR TCV	MC	MCLO35	C7621P	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13B	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13P	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AB	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AP	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BB	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BP	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438O	0
1TB27-4	1I/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV438O	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438O	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438P	0
1TB27-4	1I/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV438P	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438P	0
1TB27-5E	1FT4438A	CD GLAND STEAM CONDENSER MINI FLOW CONTR	MC	MCMN10	FT38AR	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-3	1SV4486	COND BSTR PMP'S MIN FLOW CONT	MC	MCMN40	CV486O	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486P	0
1TB27-3	1SV4486	COND BSTR PMP'S MIN FLOW CONT	MC	MCMN40	CV486P	0
1TB12-3	1FIC4486	CD BOOSTER PP MINI FLOW CONTROL FIC	MC	MCMN40	FC486R	0
1TB12-1	1FY4486	CD BOOSTER PP MINI FLOW CONTROL FY	MC	MCMN40	FY486R	0
1TB12-1	1FT4484	11 SGFP SUCT FLO XMTR	MC	MCMN51	FT484R	0
1TB12-1	1FY4484	11 FW SGFP SUCT FLO DEVICE	MC	MCMN51	FY484R	0
1TB12-2	1FT4485	12 FW SGFP SUCT FLO XMTR	MC	MCMN52	FT485R	0
1TB12-1	1FY4485	11 & 12 COND BSTR PP MINI FLO DEVICE	MC	MCMN52	FY485R	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11B	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11P	0
1TB12-3 (CP)	1YS4414	COND PMP MOTOR 11 OIL STRAINER	MC	MCPP10	YS414P	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12B	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12P	0
1TB12-3 (CP)	1YS4421	COND PMP MOTOR 12 OIL STRAINER	MC	MCPP20	YS421P	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13B	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13P	0
1TB12-3 (CP)	1YS4428	COND PMP MOTOR 13 OIL STRAINER	MC	MCPP30	YS428P	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	MC	MML11R	MML11R	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	MC	MML12R	MML12R	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	MC	MML13R	MML13R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11R	MYB11R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11S	MYB11S	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12R	MYB12R	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12S	MYB12S	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13R	MYB13R	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13S	MYB13S	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	MC	MYC11R	MYC11R	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	MC	MYC12R	MYC12R	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	MC	MYC13R	MYC13R	0
1TB12-3	1PUMPCBP-LO-11	CBP-11 LUBE OIL PUMP	MC	NDL11R	NDL11R	0
1TB12-3	1PUMPCBP-LO-12	CBP-12 LUBE OIL PUMP	MC	NDL12R	NDL12R	0
1TB12-3	1PUMPCBP-LO-13	CBP-13 LUBE OIL PUMP	MC	NDL13R	NDL13R	0
1TB27-7	1TE1619	11 CD CBP LUBE OIL CLR TE	MC	TE619R	TE619R	0
1TB27-7	1TE1620	12 CD CBP LUBE OIL CLR OUT TE	MC	TE620R	TE620R	0
1TB12-2	1TE1621	13 CD CBP LUBE OIL CLR OUT TE	MC	TE621R	TE621R	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	MC	VAL11R	VAL11R	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	MC	VAL12R	VAL12R	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	MC	VAL13R	VAL13R	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105O	C3105O	0
1TB27-2	1/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105P	C3105P	0
1TB27-2	1/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106O	C3106O	0
1TB27-2	1/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106P	C3106P	0
1TB27-2	1/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106P	C3106P	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	MN	CB013T	CB013T	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	MN	CB014T	CB014T	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	MN	CB113T	CB113T	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	MN	CB114T	CB114T	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	CV484O	CV484O	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	CV484O	CV484O	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	CV4840	CV4840	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	CV4840	CV4840	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	CV4840	CV4840	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	CV4840	CV4840	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	CV4840	CV4840	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	CV4850	CV4850	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	CV4850	CV4850	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	CV4850	CV4850	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	CV4850	CV4850	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	CV4850	CV4850	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	CV4850	CV4850	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	CV4850	CV4850	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	CV4850	CV4850	0
1TB12-2	1PUMPFPTL0MOP11B	11B SGFP AUX OIL PUMP (1M01613)	MN	MB11BR	MB11BR	0
1TB12-2	1PUMPFPTL0MOP11B	11B SGFP AUX OIL PUMP (1M01613)	MN	MB11BS	MB11BS	0
1TB12-2	1PUMPFPTL0MOP12B	12B SGFP AUX OIL PUMP (1M01614)	MN	MB12BR	MB12BR	0
1TB12-2	1PUMPFPTL0MOP12B	12B SGFP AUX OIL PUMP (1M01614)	MN	MB12BS	MB12BS	0
1TB12-2	1PUMPFPTL0MOP11A	11A SGFP MAIN OIL PUMP (1M0613)	MN	MM11AR	MM11AR	0
1TB12-2	1PUMPFPTL0MOP12A	12A SGFP MAIN OIL PUMP (1M0614)	MN	MM12AR	MM12AR	0
1TB27-5E	1PUMPCDSGFPBSTR1	11 CD SGFP SEAL WTR BSTR PP (1M0112)	MN	MML11R	MML11R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12R	MML12R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12S	MML12S	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MN	MN011R	MN011R	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MN	MN012R	MN012R	0
1TB27-1	1MCC101AT	MCC 101AT	MN	MNF71B	BU01AR	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	MN	MNF71B	CB101T	0
1TB27-1	1MCC101BT	MCC 101BT	MN	MNF72B	BU01BR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	MN	MNF72B	CB141T	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BP	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	MNFW52	VT1HCP	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	MN	MNFW52	VT1HSP	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	MNFW53	VT1LCP	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	MN	MNFW53	VT1LSP	0
1TB12-2	1LS4705	11 GS GEN FEED PP TURBINE CASING HIGH LS	MN	MNFW54	LS705R	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	MN	MNFW54	MV964P	0
1TB12-2	1PS5002	BRG OIL HDR PS TO LOW PRESS TURB TRIPS	MN	MNFW54	PS002R	0
1TB12-2	1PS5025	11 FW SGFPT ACTIVE FRNT BTHR BRG PS	MN	MNFW54	PS025R	0
1TB12-2	1PS5027	11 FW SGFPT INACTIVE REAR THR BRG PS	MN	MNFW54	PS027R	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	MN	MNFW54	SV010T	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704P	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704T	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707P	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707T	0
1TB12-2	1CV4702	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV702P	0
1TB12-2	1CV4705	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV705P	0
1TB12-2	1PDC4702	11 CD SGFP INJECTION PDC	MN	MNFW57	PC702R	0
1TB12-2	1PC4704	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC704R	0
1TB12-2	1PDC4705	11 CD SGFP INJECTION PDC	MN	MNFW57	PC705R	0
1TB12-2	1PC4707	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC707R	0
1TB12-2	1CV4704OP	SGFP 11 PP SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX704R	0
1TB12-2	1CV4707OP	SGFP 11 TURB SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX707R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE FLOOR
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011B	0
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011P	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	MNFW59	CV484P	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	MNFW59	CV484P	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	MNFW59	CV484P	0
1TB12-1	1FT4484A	11 FW SGFP MINI FLO XMTR	MN	MNFW59	FT84AR	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	MNFW62	VT2HCP	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	MN	MNFW62	VT2HSP	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	MNFW63	VT2LCP	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	MN	MNFW63	VT2LSP	0
1TB12-2	1LS4711	12 GS GEN FEED PP TURBINE CASING LS	MN	MNFW64	LS711R	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	MN	MNFW64	MV981P	0
1TB12-2	1PS5051	LOW BRG OIL PRESS TURB TRIP PS	MN	MNFW64	PS051R	0
1TB12-2	1PS5074	12 FW SGFPT ACTIVE FRNT THR BRG PS	MN	MNFW64	PS074R	0
1TB12-2	1PS5076	12 FW SGFPT INACTIVE THR BRG PS	MN	MNFW64	PS076R	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	MN	MNFW64	SV059T	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710P	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710T	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713P	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713T	0
1TB12-2	1CV4708	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV708P	0
1TB12-2	1CV4711	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV711P	0
1TB12-2	1PDC4708	12 CD SGFP INJECTION PDC	MN	MNFW67	PC708R	0
1TB12-2	1PC4710	12 FW SEAL WTR DISCHARGE PC	MN	MNFW67	PC710R	0
1TB12-2	1PDC4711	12 CD SGFP INJECTION PDC	MN	MNFW67	PC711R	0
1TB12-2	1PC4713	12 FW SGFP SEAL WTR DISCHARGE PC	MN	MNFW67	PC713R	0
1TB12-2	1CV4710OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX710R	0
1TB12-2	1CV4713OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX713R	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012B	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012P	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	MNFW69	CV485P	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	MNFW69	CV485P	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	MNFW69	CV485P	0
1TB12-1	1FT4485A	12 FW SGFP MINI FLO XMTR	MN	MNFW69	FT85AR	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622P	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622P	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622R	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622R	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623P	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623P	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623R	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1PS5042A	12 FW SGFP AUX OIL PP PS	MN	PS42AD	PS42AD	0
1TB12-2	1PS4482	11 & 12 SGFP SUCT LO PS	MN	PS482R	PS482R	0
1TB12-2	1PS4483	11 & 12 SGFP SUCT LO PS	MN	PS483R	PS483R	0
1TB27-5E	1PS4486	CD SGFP SEAL WATER BOOSTER PPS SUCTION PS	MN	PS486R	PS486R	0
1TB12-4	1PS4487	CD SGFP SEAL WATER BOOSTER PPS DISCHARGE	MN	PS487D	PS487D	0
1TB12-2	1PS4490	11 FW SGFP DISCH PS	MN	PS490R	PS490R	0
1TB12-2	1PS4491	11 FW SGFP DISCH PS	MN	PS491R	PS491R	0
1TB12-2	1PS4495	12 FW SGFP DISCH PS	MN	PS495R	PS495R	0
1TB12-2	1PS4496	12 FW SGFP DISCH PS	MN	PS496R	PS496R	0
1TB12-2	1PS4992A	11 FW SGFP AUX OIL PUMP PS	MN	PS92AD	PS92AD	0
1TB12-2	1PY4482	SGFP 11 TURB TRIP & RESET	MN	RY482T	RY482T	0
1TB12-2	1PY4483	SGFP 11 TURB TRIP & RESET	MN	RY483T	RY483T	0
1TB12-2	1PY4482A	SGFP 12 LO SUCT PR ALARM	MN	RY82AT	RY82AT	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	MN	RY83AT	RY83AT	0
1TB12-2	1AY4483A	SGFP 12 LO SUCT PR TRIP	MN	RYA3AT	RYA3AT	0
1TB12-2	1AY4483	SGFP 11 TRIP & RESET	MN	RYA83T	RYA83T	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	VT1HCO	VT1HCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	VT1LCO	VT1LCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	VT2HCO	VT2HCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	VT2LCO	VT2LCO	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111C	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111T	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111T	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111T	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121C	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121T	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121T	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121T	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MT	BHEMT1	Trips	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0181)	MT	BHEMT1	Trips	0
1TB27-1	1MCC101AT	MCC 101AT	N1	BU109Q	BU109Q	0
1TB12-4	1COMPIA11	11 IA COMPR (1MB118)	N2	CM118Q	CM118Q	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	N2	CM123Q	CM123Q	0
1TB27-1	1MCC101BT	MCC 101BT	N4	BU419Q	BU419Q	0
1TB12-4	1COMPIA12	12 IA COMPR (1MB418)	N4	CM418Q	CM418Q	0
2TB27-7	2MCC201AT	MCC 201AT	N5	BUT59Q	BUT59Q	0
2TB12-4	2COMPIA21	21 IA COMPR (2MB118)	N6	CMT18Q	CMT18Q	0
2TB27-7	2MCC201BT	MCC 201BT	N8	BUT19Q	BUT19Q	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	N8	CMT21Q	CMT21Q	0
2TB12-4	2COMPIA22	22 IA COMPR (2MB418)	N8	CMT28Q	CMT28Q	0
2TB12-4	2TCV1636	PA COMP TCV	NR	C7S6O	C7S6O	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	C7S34O	C7S34O	0
1TB12-4	1COMPIA11	11 IA COMPR (1MB118)	NR	CM011R	CM011R	0
1TB12-4	1COMPIA11	11 IA COMPR (1MB118)	NR	CM011S	CM011S	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012R	CM012R	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012S	CM012S	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NR	CMP21R	CMP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	IPIA99	TKA11B	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	IV2S6D	IV2S6D	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	IVS33D	IVS33D	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	IVS34D	IVS34D	0
1TB27-1	1MCC101AT	MCC 101AT	NR	NR1P01	BU1ATR	0
1TB27-1	1PNL1P11	LTG DISTR PNL 111	NR	NR1P01	BUP11R	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	NR	NR1P01	CB101T	0
1TB27-1	1BKR52-10116	MCC 101AT DISTR XFMR 11 BKR	NR	NR1P01	CB116T	0
1TB27-1	1XDT11	LTG DISTR XFMR 11	NR	NR1P01	TM1P1R	0
1TB12	1PCV1628	SRW TO I&P/A COMPR PCV	NR	NRC1SW	CV628P	0
1TB12-4	1TCV1630	11 I/A COMPR TEMP REG VLV	NR	NRIA11	C7630P	0
1TB12-4	1MUFFIAFILT11	11 IA COMPR FILTER SILENCER	NR	NRIA11	FL011P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11B	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062D	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062T	0
1TB12-4	1SV1629	11 I/A COMPR A/CLR SRW INLET	NR	NRIA11	IV629T	0
1TB12-4	1SV1630	11 I/A COMPR SRW INLET	NR	NRIA11	IV630T	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	NRIA11	PS062R	0
1TB12-4	1PS2063	11 IA COMPR OIL PS LOW	NR	NRIA11	PS063R	0
1TB12-4	1TE1630	11 SRW IA COMPR OUT TE	NR	NRIA11	TE630R	0
1TB12-4	1TS2063	11 IA COMPR A/CLR OUT TS HI	NR	NRIA11	TS063R	0
1TB12-4	1TS2082	11 IA COMPR I/CLR OUT TS	NR	NRIA11	TS082R	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	NRIA12	C7S34P	0
1TB12-4	1MUFFIAFILT12	12 IA COMPR FILTER SILENCER	NR	NRIA12	FLS12P	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA12	HXAS2P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2B	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2P	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064D	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064T	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	NRIA12	IVS33T	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	NRIA12	IVS34T	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	NRIA12	PS064R	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	NRIA12	PS067R	0
1TB12-4	1PS2065	12 IA COMPR OIL PS LOW	NR	NRIA12	PSS65R	0
1TB12-4	1TE1634	12 SRW IA COMPR OUT TE	NR	NRIA12	TES34R	0
1TB12-4	1TS2065	12 IA COMPR A/CLR OUT TS HI	NR	NRIA12	TSS65R	0
1TB12-4	1TS2084	12 IA COMPR I/CLR OUT TS	NR	NRIA12	TSS84R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA99	HXA11B	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA99	HXAS2B	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	NRIA99	TK011B	0
1TB12-4	1ACCIA12	12 IA COMPR RCVR	NR	NRIA99	TK012B	0
1TB12-2	1DRYA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12AP	0
1TB12-2	1DRYA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12BP	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001R	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001T	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002T	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003T	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004T	0
1TB12-4	1NP1113B	IA DRYER 12 LOCAL CONTROL PNL	NR	NRIAHD	COD12R	0
1TB12-4	1FU1NP113B/FU3	12 IA DRYER CONTR CKT FU	NR	NRIAHD	FUC12R	0
1TB12-2	1HS2004	12 IA DRYER HS	NR	NRIAHD	HS004T	0
1TB12-4	1PCV2003	IA DRYER 12 PILOT REG PCV	NR	NRIAHD	PC003R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA01	HXAP1B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA01	HXPA2B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NR	NRPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NR	NRPA01	TKP21B	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NR	NRPA11	C7636P	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NR	NRPA11	FLP11P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXAP1P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXPA1P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXPI1B	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXPI1P	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154T	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NR	NRPA11	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NR	NRPA11	IV636T	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NR	NRPA11	PS055R	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	NRPA11	PS154R	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NR	NRPA11	TE636R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NR	NRPA11	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NR	NRPA11	TS086R	0
2TB12-4	2TCV1636	PA COMP TCV	NR	NRPA21	C72S6P	0
2TB12-4	2COMP21	21 PA COMPR (2MB423)	NR	NRPA21	CMP21S	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NR	NRPA21	CV228P	0
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NR	NRPA21	FLS21P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXIP2B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXIP2P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA21	HXPA2P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054T	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	NRPA21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	NRPA21	IV2S6T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	NRPA21	PS054R	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	NRPA21	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NR	NRPA21	PSS25R	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NR	NRPA21	TE2S6R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NR	NRPA21	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NR	NRPA21	TSS25R	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259R	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061O	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061O	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061P	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061P	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061D	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	PS056D	PS056D	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	PS062D	PS062D	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	PS064D	PS064D	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	PS067D	PS067D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	PS154D	PS154D	0
2TB12-4	2TCV1636	PA COMP TCV	NS	C72S6O	C72S6O	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	C7634O	C7634O	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021R	CM021R	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021S	CM021S	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022R	CM022R	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022S	CM022S	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	NS	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	CMP21R	CMP21R	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	IV2S6D	IV2S6D	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	IV633D	IV633D	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	IV634D	IV634D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154T	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	NRCMP1	PS154R	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	NRCMP2	PS054R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NRDPP1	HXAP1P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR INTER COOLER	NS	NRDPP1	HXPI1B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR INTER COOLER	NS	NRDPP2	HXIP2B	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NS	NRHVP1	FLP11P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NS	NRHVP2	FLS21P	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NS	NRPSP1	PS055R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NS	NRPSP1	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NS	NRPSP1	TS086R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	NRPSP2	CMP21S	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	NRPSP2	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NS	NRPSP2	PSS25R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NRPSP2	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NS	NRPSP2	TSS25R	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NS	NRSW13	C7636P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NRSW13	HXPA1P	0
1TB12-4	1HXPAI/CLR11	11 PA COMPR INTER COOLER	NS	NRSW13	HXPI1P	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NS	NRSW13	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NS	NRSW13	IV636T	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NS	NRSW13	TE636R	0
2TB12-4	2TCV1636	PA COMP TCV	NS	NRSW21	C72S6P	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NS	NRSW21	CV228P	0
2TB12-4	2HXPAI/CLR21	21 PA COMPR INTER COOLER	NS	NRSW21	HXIP2P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NS	NRSW21	HXPA2P	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	NRSW21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	NRSW21	IV2S6T	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NS	NRSW21	TE2S6R	0
2TB27-7	2MCC201AT	MCC 201AT	NS	NS1P01	BU2ATR	0
2TB27-7	2PNL2P01	LTG DISTR PNL 21	NS	NS1P01	BUP21R	0
2TB27-7	2BKR52-20101	MCC 201AT MN FDR BKR	NS	NS1P01	CB201T	0
2TB27-7	2BKR52-20116	DISTRIBUTION XFMR 480-208 120V	NS	NS1P01	CB216T	0
2TB27-7	2XDT21	LTG DISTR XFMR 21	NS	NS1P01	TM2P2R	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NS	NSC1SW	CVS28P	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262D	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262T	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	NSCMI1	PSS62R	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264D	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264T	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	NSCMI2	PSS64R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSDP11	HXA21P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSDP11	HXI21B	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSDP11	HXI21P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSDP12	HXI22B	0
2TB12-4	2MUFFIAFILT21	21 IA COMPR FILTER SILENCER	NS	NSHVI1	FL021P	0
2TB12-4	2MUFFIAFILT22	22 IA COMPR FILTER SILENCER	NS	NSHVI2	FLS22P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSIA99	HXA21B	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSIA99	HXA22B	0
2TB12-4	2ACCIA21	21 IA COMPR RCVR	NS	NSIA99	TK021B	0
2TB27-8	2ACCIA22	22 IA COMPR RCVR	NS	NSIA99	TK022B	0
2TB27-8	2DRYA22	22 IA DRYER	NS	NSIAHD	AD22AP	0
2TB27-8	2DRYA22	22 IA DRYER	NS	NSIAHD	AD22BP	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201T	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202T	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203T	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204T	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2PNL2NP0103B	IA DRYER 22 CONTROLLER	NS	NSIAHD	COD22R	0
2TB27-8	2FU2NP0103B/FU3	22 IA DRYER CONTR CKT FU	NS	NSIAHD	FUC22R	0
2TB27-8	2HS2004	22 IA DRYER H/S	NS	NSIAHD	HS204T	0
2TB27-8	2PCV2003	22 IA DRYER PILOT REG	NS	NSIAHD	PC203R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NSPA01	HXP1B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NS	NSPA01	HXP2B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NS	NSPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NS	NSPA01	TKP21B	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259R	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261O	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261O	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261P	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261P	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61D	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61R	0
2TB12-4	2PS2063	21 IA COMPR OIL PS LOW	NS	NSPS11	PSS63R	0
2TB12-4	2TS2063	21 IA COMPR A/CLR OUT TS	NS	NSPS11	TS263R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NSPS11	TS282R	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	NSPS12	PSS67R	0
2TB12-4	2TS2065	22 IA COMPR A/CLR OUT TS	NS	NSPS12	TS065R	0
2TB12-4	2TS2084	22 IA COMPR I/CLR OUT TS	NS	NSPS12	TS084R	0
2TB12-4	2TCV1630	21 IA COMPR TCV	NS	NSSW11	C7S30P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSSW11	HXIA2P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSSW11	HXII2P	0
2TB12-4	2SV1629	21 IA COMPR A/CLR SRW INLET	NS	NSSW11	IVS29T	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2SV1630	21 IA COMPR SRW INLET	NS	NSSW11	IVS30T	0
2TB12-4	2TE1630	21 IA COMP CLR SRW TCV TE	NS	NSSW11	TE163R	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	NSSW12	C7634P	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSSW12	HXA22P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSSW12	HXI22P	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	NSSW12	IV633T	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	NSSW12	IV634T	0
2TB12-4	2TE1634	22 IA COMPR CLR SRW TCV TE	NS	NSSW12	TE634R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	PS056D	PS056D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	PS154D	PS154D	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	PSS62D	PSS62D	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	PSS64D	PSS64D	0
2TB27-8	2PS2087	22 IA RCVR TO COMPR 22 CONTR PS	NS	PSS67D	PSS67D	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	QC	QCMISC	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	QC	QCMISC	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	QC	QCMISC	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	QC	QCMISC	MYHD2Q	0
2TB12-3	2PUMPCBP21	21 CD CBP (2MA204)	QF	QFMISC	MXCB1Q	0
2TB12-3	2PUMPCBP22	22 CD CBP (2MA205)	QF	QFMISC	MXCB2Q	0
2TB12-2 (CP)	2PUMPCD21	21 CONDENSATE PUMP (2MA207)	QF	QFMISC	MXCP1Q	0
2TB12-3	2PUMPHDV21	21 FW HEATER DRAIN PUMP (2MA208)	QF	QFMISC	MXHD1Q	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	RL	RLFHSF	RLFHSF	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA2R	0
1TB12-4	1HXAAA/CLR11	11 PA COMPR AFTER COOLER	S3	S3TBAL	ATPA1R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA2R	0
1TB12-4	1HXAAA/CLR11	11 PA COMPR AFTER COOLER	S4	S3TBAL	ATPA1R	0
1TB12-3 (CP)	1CV4406	CST TO HTWL MU CV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1IP4406	COND STORAGE TO HOTWELL CONT	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	T1	T1CS1F	LT405R	0
2TB27-2E	2CV4406	21 CST TO HTWL MU CV	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2IP4406	COND STORAGE TO HOTWELL CONTRL	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2LT4405	CD HOTWELL LEVEL CONTROL LT	T1	T1CS2F	LTB05R	0
1TB27-6	1CVMT-11	11 MT CV	TT	V1CV1C	V1CV1C	0
1TB27-6	1CVMT-12	12 MT CV	TT	V1CV2C	V1CV2C	0
1TB27-6	1CVMT-13	13 MT CV	TT	V1CV3C	V1CV3C	0
1TB27-6	1CVMT-14	14 MT CV	TT	V1CV4C	V1CV4C	0
1TB27-6	1FCVMT-11	11 MT STOP VLV	TT	V1SV1C	V1SV1C	0
1TB27-6	1FCVMT-12	12 MT STOP VLV	TT	V1SV2C	V1SV2C	0
1TB27-6	1FCVMT-13	13 MT STOP VLV	TT	V1SV3C	V1SV3C	0
1TB27-6	1FCVMT-14	14 MT STOP VLV	TT	V1SV4C	V1SV4C	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	VC	MMS11R	MMS11R	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	VC	MMS12R	MMS12R	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	VC	MMS13R	MMS13R	0
1TB12-2 (CP)	1PUMPCAR11	11 CAR VAC PP (1MB203)	VC	MMV11R	MMV11R	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	VC	MMV12R	MMV12R	0
1TB12-2 (CP)	1PUMPCAR13	13 CAR VAC PP (1MB303)	VC	MMV13R	MMV13R	0
1TB12-2	1CV1627	SRW TO COND VAC PP PCV	VC	VC0SRW	C3627P	0
1TB12-2	1PIC1627	10 SRW CNDSR PP VAC INL PIC	VC	VC0SRW	PC627R	0
1TB27-3	1MOV6717	COND VAC BKR	VC	VC717T	MV717T	0
1TB12-3 (CP)	1HS5225	11 CW PP WTRBX INL VLV HS	VC	VCCW1A	HS225T	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	VC	VCCW1A	MV225P	0
1TB12-3 (CP)	1HS5229	12 CW PP WTRBX INL VLV HS	VC	VCCW2A	HS229T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	VC	VCCW2A	MV229P	0
1TB12-3 (CP)	1HS5233	13 CW PP WTRBX INL VLV HS	VC	VCCW3A	HS233T	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	VC	VCCW3A	MV233P	0
1TB12-3 (CP)	1HS5237	14 CW PP WTRBX INL VLV HS	VC	VCCW4A	HS237T	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	VC	VCCW4A	MV237P	0
1TB12-3 (CP)	1HS5241	15 CW PP WTRBX INL VLV HS	VC	VCCW5A	HS241T	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	VC	VCCW5A	MV241P	0
1TB12-3 (CP)	1HS5245	15 CW PP WTRBX INL VLV HS	VC	VCCW6A	HS245T	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	VC	VCCW6A	MV245P	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098C	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098C	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098T	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098T	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098D	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098R	0
1TB12-2 (CP)	1CV1754	11 CAR UNIT MOTIVE AIR	VC	VCP011	C3754P	0
1TB12-2	1SV1753	11 CAR BYP & MOTIVE VLV	VC	VCP011	C3754P	0
1TB12-2 (CP)	1CV1755	11 CAR UNIT SYS DIAPHRAM	VC	VCP011	C3755P	0
1TB12-2 (CP)	1LCV1753	11 CAR SEP	VC	VCP011	LC753R	0
1TB12-2 (CP)	1PS1755	11 CAR CNDSR VAC PP SEAL LOW PRESSURE WTR	VC	VCP011	PS755R	0
1TB12-2 (CP)	1CV1757	12 CAR UNIT MOTIVE AIR	VC	VCP012	C3757P	0
1TB12-2	1SV1756	12 CAR BYP & MOTIVE VLVS	VC	VCP012	C3757P	0
1TB12-2 (CP)	1CV1758	12 CAR UNIT SYS DIAPHRAM	VC	VCP012	C3758P	0
1TB12-2 (CP)	1LCV1756	12 CAR SEP LO LVL CONTROL	VC	VCP012	LC756R	0
1TB12-2 (CP)	1PS1758	12 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE	VC	VCP012	PS758R	0
1TB12-2 (CP)	1CV1760	13 CAR UNIT MOTIVE AIR	VC	VCP013	C3760P	0
1TB12-2	1SV1759	13 CAR BYP & MOTIVE VLVS	VC	VCP013	C3760P	0
1TB12-2 (CP)	1CV1761	13 CAR UNIT SYS DIAPHRAM	VC	VCP013	C3761P	0
1TB12-2 (CP)	1LCV1759	SEP LO LVL CONTROL	VC	VCP013	LC759R	0
1TB12-2 (CP)	1PS1761	13 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE	VC	VCP013	PS761R	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11B	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11P	0
1TB27-1	1RY1B0636/1Y0636	11 RECIRC SEAL PP INTK RE	VC	VCS011	RY036P	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12B	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12P	0
1TB27-1	1RY1B0637/1Y0637	12 RECIRC SEAL PP INTK RELAY	VC	VCS012	RY037P	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13B	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13P	0
1TB27-1	1RY1B1636/1Y1636	13 RECIRC SEAL PP INTK RELAY	VC	VCS013	RY136P	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681O	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681P	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	VC	VCTGS1	MV659P	0
1TB12-4	1PC4681	GS STM SEAL FEED VLV CONTROL PC	VC	VCTGS1	PC681R	0

**Flood Evaluation Query****CF-32A-FT27AM**

02-Dec-98

<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
AE	4BKR	4 breaker challenges.	PAJ
AF	4BKR	4 breaker challenges.	PAJ
BS	Spec Impt	All TBVs fail closed on loss of power. An excessive steam demand will not occur.	PAJ
BV	F	All TBVs fail closed on loss of power.	PAJ
FC	Spec Impt	1MCCI01BT fails. This MCC supplies power to AFW Turb PP Rm NSR A/C Unit.	PAJ
FN	None	Only has 1 PCV. I am assuming that these valves will not fail during a flood.	PAJ
FT	None	Stop valves fail closed. If SGFPs are secured, which they are (See Top MT), this top is successful.	PAJ
GW	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
GZ	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
IP	None	Air accumulator only. Mechanical operation only.	PAJ
K5	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
LF	F	1CV1105/1106/4405/4406 fail closed on loss of power and loss of air.	PAJ
M7	F	MCC 106T fails.	PAJ
M8	F	MCC 116T fails.	PAJ
MC	F	All condensate pumps fail.	PAJ
MN	F	Both SGFPs trip.	PAJ
MP	F	1CV1111/1121 are normally open and fail as-is.	PAJ
MT	None	SGFP trip in this scenario. See top MN.	PAJ

TOP	PM	EVALUATION	RI
N1	1BKR	1 breaker challenge.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	1BKR	1 breaker challenge.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N8	3BKR	3 breaker challenges.	PAJ
NR	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail. (Note 45) *	PAJ
NS	<del>F</del> None	<del>All Unit 1 &amp; Unit 2 Instrument Air/Plant Air Compressors fail.</del> (note 45) *	PAJ
QC	<del>4BKR</del> none	<del>4 breaker challenges.</del> Note 39 *	PAJ
QF	<del>4BKR</del> none	<del>4 breaker challenges.</del> Note 39 *	PAJ
RL	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
S3	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
S4	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
T1	None	1CV4406 and 2CV4406 fails closed.	PAJ
TT	None	Control and Stop valves fail closed.	PAJ
VC	F	All Condenser Vacuum Pumps Fail.	PAJ

\* See notes in RAN 92-065 sect. 5.4

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	AE	MYCB1Q	MYCB1Q	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	AE	MYCB2Q	MYCB2Q	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	AE	MYCP1Q	MYCP1Q	0
1TB12-2	1PUMPHDV11	11 FW HEATER DRAIN PUMP (1MA206)	AE	MYHD1Q	MYHD1Q	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	AF	MYCB3Q	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	AF	MYCP2Q	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	AF	MYCP3Q	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	AF	MYHD2Q	MYHD2Q	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400O	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940T	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BS	BS3940	IV940T	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3940	IZ940R	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940I	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940R	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420O	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942T	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BS	BS3942	IV942T	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3942	IZ942R	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942I	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942R	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440O	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944T	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BS	BS3944	IV944T	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3944	IZ944R	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944I	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944R	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460O	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946T	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BS	BS3946	IV946T	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BS	BS3946	IZ946R	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX946I	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX960R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-4	1PT4056	MS TURB BYPASS VLV CONTROL PT	BS	BS4056	PT056R	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS940C	AB40BC	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40AD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40BD	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS942C	AB42BC	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	IV42AD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	IV42BD	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS944C	AB44BC	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	IV44AD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	IV44BD	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS946C	AB46BC	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	IV46AD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	IV46BD	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	C5940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	C5942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	C5944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	C5946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	C5946C	IV46AD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	C5946C	IV46BD	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BV	BV3940	AB40BO	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	BV3940	C5940P	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3940	C5940P	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BV3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AD	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AT	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BT	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BV	BV3942	AB42BO	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	BV3942	C5942P	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3942	C5942P	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BV3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AD	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AT	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BT	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BV	BV3944	AB44BO	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	BV3944	C5944P	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3944	C5944P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BV3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AD	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AT	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BT	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BV	BV3946	AB46BO	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BV	BV3946	C5946P	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	BV3946	C5946P	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BV3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AD	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AT	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BT	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BVCLVR	IV940T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BVCLVR	IV942T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BVCLVR	IV944T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BVCLVR	IV946T	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	C5940O	C5940O	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C5940O	C5940O	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	C5940O	C5940O	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	C5942O	C5942O	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C5942O	C5942O	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	C5942O	C5942O	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	C5944O	C5944O	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C5944O	C5944O	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	C5944O	C5944O	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BV	C5946O	C5946O	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTER	BV	C5946O	C5946O	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	C5946O	C5946O	0
1TB12-1	1AFWDOORS	AFW DOUBLE DOORS	FC	Dummy	N/A	0
1TB27-1	1MCC101BT	MCC 101BT	FC	FC1MCC	BU1BTR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	FC	FC1MCC	CB141T	0
1TB12	1PCV1600	AUX FD PP RM CLR TEMP REG VLV	FC	FCSRWC	CV600P	0
1TB12-1	1FDTB12W1	AFW RM SUPPLY FROM AFW TO TB12 FD	FC	FDAMPR	FD002I	0
1TB12	1PCV4510	11A AFW AIR ACCUMULATOR OUTLET PCV	FN	FNO000	CV510P	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	FT	FTFW30	SV010D	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	FT	FTFW40	SV059D	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCO	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCT	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HSO	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HST	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCT	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LSO	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LST	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCT	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HSO	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HST	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCT	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LSO	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LST	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GW	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GW	S7TBAL	ATI22R	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	GW	S7TBAL	ATP21R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI22R	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	GZ	S7TBAL	ATP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	IP	IPIA99	TK11B	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	K5	K5FIRE	K5FH5F	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106P	C3106P	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1CV4405	HOTWELL TO COND STORAGE VLV	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1I/P4405	HOTWELL TO COND STORAGE CONT	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	LF	LFMUCV	LT405R	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BP	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	LF	RY83AT	RY83AT	0
1TB27-1	1MCC106T	MCC 106T	M7	BU213Q	BU213Q	0
1TB27-1	1MCC106T	MCC 106T	M7	BUM06R	BUM06R	0
1TB12-2 (CP)	1PNL1C51	11A AMERTAP CNTL PNL 1C51	M7	BUP23Q	BUP23Q	0
1TB12-2 (CP)	1PNL1C52	11B AMERTAP CNTL PNL 1C52	M7	BUP24Q	BUP24Q	0
1TB12-2 (CP)	1PNL1C53	12A AMERTAP CNTL PNL 1C53	M7	BUP25Q	BUP25Q	0
1TB27-1	1BKR52-10602	MCC 106T CIRC H2O PP DISCH 1MOV-5225 BKR	M7	CBP02O	CBP02O	0
1TB27-1	1BKR52-10603	MCC 106T CIRC H2O PP 12 DISCH 1MOV-5229 BKR	M7	CBP03O	CBP03O	0
1TB27-1	1BKR52-10604	MCC 106T CIRC H2O PP 13 DISCH 1MOV-5233 BKR	M7	CBP04O	CBP04O	0
1TB27-1	1BKR52-10605	MCC 106T WELDING RECEPTACLES 1W40-1W43	M7	CBP05O	CBP05O	0
1TB27-1	1BKR52-10606	MCC 106T WELDING RECEPTACLES 1W44-1W47	M7	CBP06O	CBP06O	0
1TB27-1	1BKR52-10607	MCC 106T COND PP 11 LUBE OIL PP BKR	M7	CBP07O	CBP07O	0
1TB27-1	1BKR52-10608	MCC 106T CIRC WTR PRIMING PP 11 BKR	M7	CBP08O	CBP08O	0
1TB27-1	1BKR52-10609	MCC 106T CIRC WTR PRIMING PP 12 BKR	M7	CBP09O	CBP09O	0
1TB27-1	1BKR52-10610	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 11	M7	CBP10O	CBP10O	0
1TB27-1	1BKR52-10611	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP 12	M7	CBP11O	CBP11O	0
1TB27-1	1BKR52-10612	MCC 106T SGFP 11 LUBE OIL CONDITIONER BKR	M7	CBP12O	CBP12O	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	M7	CBP13O	CBP13O	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	M7	CBP14O	CBP14O	0
1TB27-1	1BKR52-10615	SGFP 11 OIL VAPOR EXTRACTOR	M7	CBP15O	CBP15O	0
1TB27-1	1BKR52-10616	MCC 106T BEARING OIL VAPOR EXTR 11 BKR	M7	CBP16O	CBP16O	0
1TB27-1	1BKR52-10617	MCC 106T STM LEAD DRN 1MOV-4652(CV2) BKR	M7	CBP17O	CBP17O	0
1TB27-1	1BKR52-10618	MCC 106T STM LEAD DRN 1MOV-4651(CV4) BKR	M7	CBP18O	CBP18O	0
1TB27-1	1BKR52-10619	MCC 106T HYDRAULIC FLUID FILT PP 11 BKR	M7	CBP19O	CBP19O	0
1TB27-1	1BKR52-10620	MCC 106T MN OIL SEAL PP 11 (MN GEN)	M7	CBP20O	CBP20O	0
1TB27-1	1BKR52-10621	MCC 106T SEAL OIL RECIRC PP 11 BKR	M7	CBP21O	CBP21O	0
1TB27-1	1BKR52-10622	MCC 106T SEAL VACUUM PP 11 BKR	M7	CBP22O	CBP22O	0
1TB27-1	1BKR52-10623	MCC 106T 11A AMERTAP CONTR PNL 1C51 BKR	M7	CBP23O	CBP23O	0
1TB27-1	1BKR52-10624	MCC 106T 11B AMERTAP CONTR PNL 1C52	M7	CBP24O	CBP24O	0
1TB27-1	1BKR52-10625	MCC 106T 12A AMERTAP CONTR PNL 1C53 BKR	M7	CBP25O	CBP25O	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-1	1BKR52-10626	MCC 106T UNIT HTR 9 BKR	M7	CBP26O	CBP26O	0
1TB27-1	1BKR52-10627	MCC 106T UNIT HTR 10 BKR	M7	CBP27O	CBP27O	0
1TB27-1	1BKR52-10628	MCC 106T SGFP 11 LP STOP VLV DRN B 1MOV-5090 BK	M7	CBP28O	CBP28O	0
1TB27-1	1BKR52-10629	MCC 106T COMBINED CNTMT DRN 1MOV-4658(CV) BKR	M7	CBP29O	CBP29O	0
1TB27-1	1BKR52-10630	GLAND SEAL STEAM SUPPLY VALVE 1-MOV-4659	M7	CBP30O	CBP30O	0
1TB27-1	1BKR52-10631	MCC 106T STM SEAL BY-PASS 1MOV-4656(S2) BKR	M7	CBP31O	CBP31O	0
1TB27-1	1BKR52-10632	MCC 106T STM SEAL UNLOADING 1MOV-4657(B) BKR	M7	CBP32O	CBP32O	0
1TB27-1	1BKR52-10633	MCC 106T STM PACK EXH 11 BKR	M7	CBP33O	CBP33O	0
1TB27-1	1BKR52-10635	MCC 106T AUX BOILER FUEL PP 11 BKR	M7	CBP35O	CBP35O	0
1TB27-1	1BKR52-10636	MCC 106T COND VACUUM RECIRC SEAL PP 11 BKR	M7	CBP36O	CBP36O	0
1TB27-1	1BKR52-10637	MCC 106T COND VACUUM RECIRC SEAL PP 12 BKR	M7	CBP37O	CBP37O	0
1TB27-1	1BKR52-10638	SGFP 11 LP STOP VLV DRN 1-MOV-5089	M7	CBP38O	CBP38O	0
1TB27-1	1BKR52-10639	LIGHTING XFMR (1L11/1L17) L-208-218	M7	CBP39O	CBP39O	0
1TB27-1	1BKR52-10640	MCC 106T SGFP 11 EXH 1MOV-3964 BKR	M7	CBP40O	CBP40O	0
1TB27-1	1BKR52-10642	MCC 106T UNIT HTR 11 BKR	M7	CBP42O	CBP42O	0
1TB27-1	1BKR52-10643	MCC 106T UNIT HTR 12 BKR	M7	CBP43O	CBP43O	0
1TB27-1	1BKR52-10644	MCC 106T SGFP 11 HP STOP VLV DRN B 1MOV-5088 BK	M7	CBP44O	CBP44O	0
1TB27-1	1BKR52-10645	ROADWAY LIGHTING PANEL 1L54	M7	CBP45O	CBP45O	0
1TB27-1	1BKR52-10646	MCC 106T SGFP 11 HP STOP VLV DRN A 1MOV-5087 BK	M7	CBP48O	CBP48O	0
1TB27-1	1BKR52-10647	DISTRIBUTION XFMR 16 480-208/120V	M7	CBP47O	CBP47O	0
1TB27-1	1BKR52-10648	MCC 106T UNIT HTR 13 BKR	M7	CBP48O	CBP48O	0
1TB27-1	1BKR52-10649	MCC 106T SGFP 11 1ST STG DRN 1MOV-5091 BKR	M7	CBP49O	CBP49O	0
1TB27-1	1BKR52-10651	MCC 106T RHT STM SUPP 1MOV-4028 BKR	M7	CBP51O	CBP51O	0
1TB27-1	1BKR52-10652	MCC 106T MS TO MS RHTR 11 1MOV-4018 BKR	M7	CBP52O	CBP52O	0
1TB27-1	1BKR52-10653	MCC 106T EXTRACT STM TO MS RHTR 11 1MOV-4019 B	M7	CBP53O	CBP53O	0
1TB27-1	1BKR52-10654	SMOKE REMOVAL DAMPER OM05390 (CLOSED	M7	CBP54O	CBP54O	0
1TB27-1	1BKR52-10656	CR & CBL SPREADING RM CHILL WTR SUPP PP 11	M7	CBP56O	CBP56O	0
1TB27-1	1BKR52-10657	MCC 106T TURB BLDG SUPP FAN 13 BKR	M7	CBP57O	CBP57O	0
1TB27-1	1BKR52-10658	MCC 106T TURB BLDG SUPP FAN 14 BKR	M7	CBP58O	CBP58O	0
1TB27-1	1BKR52-10659	MCC 106T COND PP 11 FAN BKR	M7	CBP59O	CBP59O	0
1TB27-1	1BKR52-10661	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP61O	CBP61O	0
1TB27-1	1BKR52-10662	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP62O	CBP62O	0
1TB27-1	1BKR52-10663	MCC 106T BOOSTER JOCKEY PP FIRE PROT SYS BKR	M7	CBP63O	CBP63O	0
1TB27-1	1BKR52-10667	MCC 106T TURB AREA OILY SUMP 11 PP 11 BKR	M7	CBP67O	CBP67O	0
1TB27-1	1BKR52-10668	MCC 106T TURB AREA OILY SUMP 11 PP 12 BKR	M7	CBP68O	CBP68O	0
1TB27-1	1BKR52-10669	MCC 106T SMOKE REMOVAL DMPR OM05391 BKR	M7	CBP69O	CBP69O	0
1TB27-1	1BKR52-10670	MCC 106T SMOKE REMOVAL DMPR OM05392 BKR	M7	CBP70O	CBP70O	0
1TB27-1	1BKR52-10671	MCC 106T AUX BD TK PP 11 BKR	M7	CBP71O	CBP71O	0
1TB27-1	1BKR52-10672	MCC 106T SPARE BKR	M7	CBP72O	CBP72O	0
1TB27-1	1BKR52-10673	SERV XFMR (P-13000-1) COOLING B (EMERGENCY)	M7	CBP73O	CBP73O	0
1TB27-1	1BKR52-10674	SERV XFMR (U-4000-11) COOLING A (NORMAL)	M7	CBP74O	CBP74O	0
1TB27-1	1BKR52-10675	SERV XFMR (U-4000-21) COOLING A (NORMAL)	M7	CBP75O	CBP75O	0
1TB27-1	1BKR52-10676	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11A B	M7	CBP76O	CBP76O	0
1TB27-1	1BKR52-10677	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11B B	M7	CBP77O	CBP77O	0
1TB27-1	1BKR52-10678	MCC 106T HTR DRN PP 11 LUBE OIL COOLER FAN BKR	M7	CBP78O	CBP78O	0
1TB27-1	1BKR52-10601	MAIN FEEDER BREAKER	M7	M7BCBM	CBP01T	0
1TB12-3	1PUMPSTC11	11 MG STATOR WTR CLG PUMP (1MB216)	M7	MB215Q	MB215Q	0
1TB12-4	1PUMPEHC11	11 MT EHC HYD UNIT PUMP (1MB216)	M7	MB216Q	MB216Q	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	M7	MB217Q	MB217Q	0
2TB27-8	0PUMPPHM11	11 MAIN HTG HWC PUMP (1MB225)	M7	MB225Q	MB225Q	0
1TB12-3	1PUMPWBP11	11 CW WTRBX PRMG PP (1M0608)	M7	MBP08Q	MBP08Q	0
1TB12-3	1PUMPWBP12	12 CW WTRBX PRMG PP (1M0609)	M7	MBP09Q	MBP09Q	0
1TB12-3	1PUMPWBPSWP11	11 CW WTRBX PRMG PP SEAL WTR PUMP (1M0610)	M7	MBP10Q	MBP10Q	0
1TB12-3	1PUMPWBPSWP12	12 CW WTRBX PRMG PP SEAL WTR PUMP (1M0611)	M7	MBP11Q	MBP11Q	0
1TB27-7	0PUMPBSTR9600	0 FP BSTR PUMP # 9600 (1M0663)	M7	MBP63Q	MBP63Q	0
1TB27-5W	1PUMPWOSMPTB11	TURB AREA OILY SUMP 11 PUMP 11 (1M0667)	M7	MBP67Q	MBP67Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE
1TB27-5W	1PUMPWOSMPTB12	TURB AREA OILY SUMP 11 PUMP 12 (1M0668)	M7	MBP68Q	MBP68Q	0
1TB12-2 (CP)	1PUMPMSBD11	11 AUX BD TK PUMP (1M0671)	M7	MBP71Q	MBP71Q	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	M7	MMP07Q	MMP07Q	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	M7	MMP13Q	MMP13Q	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	M7	MMP14Q	MMP14Q	0
1TB12-3	1PUMP2325	GEN H2 SEAL OIL SYS MAIN PUMP (1M0620)	M7	MMP20Q	MMP20Q	0
1TB12-3	1PUMP4624	GEN H2 SEAL OIL SYS RECIRC PUMP (1M0621)	M7	MMP21Q	MMP21Q	0
1TB12-3	1PUMP2316	MG H2 SEAL OIL VACUUM PUMP (1M0622)	M7	MMP22Q	MMP22Q	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	M7	MMP36Q	MMP36Q	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	M7	MMP37Q	MMP37Q	0
1TB12-2	1PUMPHDVLOP11A	11A HTR DRN PP LO CLR PP (1M0676)	M7	MMP76Q	MMP76Q	0
1TB12-2	1PUMPHDVLOP11B	11B HTR DRN PP LO CLR PP (1M0677)	M7	MMP77Q	MMP77Q	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	M7	MVP02Q	MVP02Q	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	M7	MVP03Q	MVP03Q	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	M7	MVP04Q	MVP04Q	0
1TB12-2	1MOV4652	14 STEAM LEAD DR	M7	MVP17Q	MVP17Q	0
1TB12-2	1MOV4851	12 STEAM LEAD DR	M7	MVP18Q	MVP18Q	0
1TB12-2	1MOV5090	11 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M7	MVP28Q	MVP28Q	0
1TB12-4	1MOV4658	MN CONT VLVS BEFORE SEAT DRN	M7	MVP29Q	MVP29Q	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	M7	MVP30Q	MVP30Q	0
1TB12-4	1MOV4656	1 GS MS SEAL REG BYP MOV	M7	MVP31Q	MVP31Q	0
1TB12-4	1MOV4657	1 GS SEAL DUMP BYP MOV	M7	MVP32Q	MVP32Q	0
1TB12-2	1MOV5089	11 SGFP LP STOP ABOVE SEAT DRN	M7	MVP38Q	MVP38Q	0
1TB27-3	1MOV3984	11 SGF PP TURB EXH	M7	MVP40Q	MVP40Q	0
1TB12-2	1MOV5088	11 SGFP HP STOP BELOW SEAT DRN	M7	MVP44Q	MVP44Q	0
1TB12-2	1MOV5087	11 SGFP HP STOP ABOVE SEAT DRN	M7	MVP46Q	MVP46Q	0
1TB12-2	1MOV5091	1FW SG FD PP 1ST STG EXH DRN	M7	MVP49Q	MVP49Q	0
1TB12-4	1MOV4026	MS TO 11 MSR 2ND STG	M7	MVP51Q	MVP51Q	0
1TB27-6	1MOV4018	MS TO 11 MSR 2ND STG CONT	M7	MVP52Q	MVP52Q	0
1TB27-6	1MOV4019	EXTRACTION STEAM TO MOISTURE SEPARATOR REH	M7	MVP53Q	MVP53Q	0
1TB27-1	1XL-208-118	LTG XFMR L-208-118 TURB BLDG EL 27 FT	M7	TMP39Q	TMP39Q	0
1TB27-1	1XDT16	LTG DISTR XFMR 16	M7	TMP47Q	TMP47Q	0
1TB12-2	1FANFPTLOCDTRE11	11 SGFP LO COND VAP EXT (1M0612)	M7	VAP12Q	VAP12Q	0
1TB12-2	1FANFPTLORESVE11	11 SGFP LO RESV VAPOR EXT (1M0615)	M7	VAP15Q	VAP15Q	0
1TB12-4	1FANGSPACK11	11 GLAND STEAM PACKING EXH (1M0633)	M7	VAP33Q	VAP33Q	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	M7	VAP59Q	VAP59Q	0
1TB12-2	1FANHVACHDPS11	11 HTR DRN PUMP AREA CLR (1M0678)	M7	VAP78Q	VAP78Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BU313Q	BU313Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BUM16R	BUM16R	0
1TB12-2 (CP)	1RECEPTMCC116A	POWER RECEPT MCC116 (1W48, 1W49, 1W50, 1W51)	M8	BUQ05Q	BUQ05Q	0
1TB12-2 (CP)	1PNL1C54	12B AMERTAP CNTL PNL 1C54	M8	BUQ23Q	BUQ23Q	0
1TB12-2 (CP)	1PNL1C55	13A AMERTAP CNTL PNL 1C55	M8	BUQ24Q	BUQ24Q	0
1TB12-2 (CP)	1PNL1C56	13B AMERTAP CNTL PNL 1C56	M8	BUQ25Q	BUQ25Q	0
1TB27-1	1BKR52-11602	MCC 116T CIRC H2O PP 14 DISCH 1MOV-5237 BKR	M8	CBQ02O	CBQ02O	0
1TB27-1	1BKR52-11603	MCC 116T CIRC H2O PP 15 DISCH 1MOV-5241 BKR	M8	CBQ03O	CBQ03O	0
1TB27-1	1BKR52-11604	MCC 116T CIRC H2O PP 16 DISCH 1MOV-5245 BKR	M8	CBQ04O	CBQ04O	0
1TB27-1	1BKR52-11605	MCC 116T PWR RECEPTACLE BKR	M8	CBQ05O	CBQ05O	0
1TB27-1	1BKR52-11606	MCC 116T COND PP 12 LUBE OIL PP BKR	M8	CBQ06O	CBQ06O	0
1TB27-1	1BKR52-11607	MCC 116T COND PP 13 LUBE OIL PP BKR	M8	CBQ07O	CBQ07O	0
1TB27-1	1BKR52-11608	MCC 116T CIRC WTR PRIMING PP 13 BKR	M8	CBQ08O	CBQ08O	0
1TB27-1	1BKR52-11609	MCC 116T UNIT HTR 14 BKR	M8	CBQ09O	CBQ09O	0
1TB27-1	1BKR52-11610	MCC 116T CIRC WTR PRIMING PP RECIRC SEAL PP 13	M8	CBQ10O	CBQ10O	0
1TB27-1	1BKR52-11611	MCC 116T UNIT HTR 15 BKR	M8	CBQ11O	CBQ11O	0
1TB27-1	1BKR52-11612	MCC 116T SGFP 12 LUBE OIL CONDITIONER BKR	M8	CBQ12O	CBQ12O	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	M8	CBQ13O	CBQ13O	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	M8	CBQ14O	CBQ14O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-1	1BKR52-11615	MCC 116T SGFP 12 OIL VAPOR EXTR BKR	M8	CBQ150	CBQ150	0
1TB27-1	1BKR52-11616	MCC 116T 13 KV SERVICE BUSES 11 & 12 SERVICE XFM	M8	CBQ160	CBQ160	0
1TB27-1	1BKR52-11617	MCC 116T SPARE RCP MTR OIL LIFT PP BKR	M8	CBQ170	CBQ170	0
1TB27-1	1BKR52-11618	MCC 116T CNDSR VACUUM BKR 1MOV-6717 BKR	M8	CBQ180	CBQ180	0
1TB27-1	1BKR52-11620	MCC 116T CNDSR BULLETING PP 11 BKR	M8	CBQ200	CBQ200	0
1TB27-1	1BKR52-11621	MCC 116T TURB LUBE OIL CONDITIONER 11 BKR	M8	CBQ210	CBQ210	0
1TB27-1	1BKR52-11623	MCC 116T 12B AMERTAP CONTR PNL 1C54 BKR	M8	CBQ230	CBQ230	0
1TB27-1	1BKR52-11624	MCC 116T 13A AMERTAP CONTR PNL 1C55 BKR	M8	CBQ240	CBQ240	0
1TB27-1	1BKR52-11625	MCC 116T 13B AMERTAP CONTR PNL 1C56 BKR	M8	CBQ250	CBQ250	0
1TB27-1	1BKR52-11626	MCC 116T UNIT HTR 16 BKR	M8	CBQ260	CBQ260	0
1TB27-1	1BKR52-11627	MCC 116T UNIT HTR 17 BKR	M8	CBQ270	CBQ270	0
1TB27-1	1BKR52-11628	MCC 116T SGFP 12 HP STOP VLV DRN A 1MOV-5092 BK	M8	CBQ280	CBQ280	0
1TB27-1	1BKR52-11629	MCC 116T RHT STM DRN 1MOV-4022 BKR	M8	CBQ290	CBQ290	0
1TB27-1	1BKR52-11630	MCC 116T RHT STM DRN 1MOV-4023 BKR	M8	CBQ300	CBQ300	0
1TB27-1	1BKR52-11631	MCC 116T STM SEAL AUX SUPP 1MOV-4678(SG) BKR	M8	CBQ310	CBQ310	0
1TB27-1	1BKR52-11633	MCC 116T STM PACK EXH 12 BKR	M8	CBQ330	CBQ330	0
1TB27-1	1BKR52-11635	MCC 116T AUX BOILER FUEL PP 12 BKR	M8	CBQ350	CBQ350	0
1TB27-1	1BKR52-11636	MCC 116T COND VACUUM RECIRC SEAL PP 13 BKR	M8	CBQ360	CBQ360	0
1TB27-1	1BKR52-11637	MCC 116T COND VACUUM RECIRC SEAL PP 14 BKR	M8	CBQ370	CBQ370	0
1TB27-1	1BKR52-11638	MCC 116T SGFP 12 LP STOP VLV DRN A 1MOV-5094 BK	M8	CBQ380	CBQ380	0
1TB27-1	1BKR52-11639	MCC 116T LTG XFMR (L-208-112) BKR	M8	CBQ390	CBQ390	0
1TB27-1	1BKR52-11640	MCC 116T SGFP 12 EXH 1MOV-3981 BKR	M8	CBQ400	CBQ400	0
1TB27-1	1BKR52-11641	MCC 116T TURBINE LO XFMR PP 11 BKR	M8	CBQ410	CBQ410	0
1TB27-1	1BKR52-11642	MCC 116T TURB AREA SUMP 11 PP 11 BKR	M8	CBQ420	CBQ420	0
1TB27-1	1BKR52-11643	MCC 116T TURB AREA SUMP 11 PP 12 BKR	M8	CBQ430	CBQ430	0
1TB27-1	1BKR52-11644	MCC 116T SGFP 12 HP STOP VLV DRN 1MOV-5093 BKR	M8	CBQ440	CBQ440	0
1TB27-1	1BKR52-11645	MCC 116T LTG XFMR (L-208-119) BKR	M8	CBQ450	CBQ450	0
1TB27-1	1BKR52-11646	MCC 116T SGFP 12 LP STOP VLV DRN 1MOV-5095 BKR	M8	CBQ460	CBQ460	0
1TB27-1	1BKR52-11647	MCC 116T DISTR XFMR 116 BKR	M8	CBQ470	CBQ470	0
1TB27-1	1BKR52-11648	MCC 116T PWR RECEPTACLE BKR	M8	CBQ480	CBQ480	0
1TB27-1	1BKR52-11649	MCC 116T SGFP 12 FIRST STG DRN 1MOV-5096 BKR	M8	CBQ490	CBQ490	0
1TB27-1	1BKR52-11650	MCC 116T UNIT HTR 18 BKR	M8	CBQ500	CBQ500	0
1TB27-1	1BKR52-11651	MCC 116T RHT STM SUPP 1MOV-4025 BKR	M8	CBQ510	CBQ510	0
1TB27-1	1BKR52-11652	MCC 116T MS TO MS RHTR 12 1MOV-4017 BKR	M8	CBQ520	CBQ520	0
1TB27-1	1BKR52-11653	MCC 116T EXTR STM TO MS RHTR 12 1MOV-4020 BKR	M8	CBQ530	CBQ530	0
1TB27-1	1BKR52-11655	MCC 116T HYD PWR UNIT HTR 11 BKR	M8	CBQ550	CBQ550	0
1TB27-1	1BKR52-11656	MCC 116T AUX BD TK PP 12 BKR	M8	CBQ560	CBQ560	0
1TB27-1	1BKR52-11657	MCC 116T TURB BLDG SUPP FAN 15 BKR	M8	CBQ570	CBQ570	0
1TB27-1	1BKR52-11658	MCC 116T TURB BLDG SUPP FAN 16 BKR	M8	CBQ580	CBQ580	0
1TB27-1	1BKR52-11659	MCC 116T COND PP 12 FAN BKR	M8	CBQ590	CBQ590	0
1TB27-1	1BKR52-11660	MCC 116T COND PP 13 FAN BKR	M8	CBQ600	CBQ600	0
1TB27-1	1BKR52-11661	MCC 116T TURB BLDG HIGH BAY LTG BKR	M8	CBQ610	CBQ610	0
1TB27-1	1BKR52-11662	MCC 116T TURB BLDG LOW BAY LTG BKR	M8	CBQ620	CBQ620	0
1TB27-1	1BKR52-11663	MCC 116T TURB AREA SUMP 12 PP 11 BKR	M8	CBQ630	CBQ630	0
1TB27-1	1BKR52-11664	MCC 116T TURB AREA SUMP 12 PP 12 BKR	M8	CBQ640	CBQ640	0
1TB27-1	1BKR52-11665	MCC 116T LIGHTING TRANSFORMER 1L26 L-208-126	M8	CBQ650	CBQ650	0
1TB27-1	1BKR52-11667	MCC 116T TURBINE BLDG HTG CIRC PP 11 BKR	M8	CBQ670	CBQ670	0
1TB27-1	1BKR52-11668	MCC 116T CR & CSR CHILLED WTR SUPP PP #12 BKR	M8	CBQ680	CBQ680	0
1TB27-1	1BKR52-11669	MCC 116T XFMR 1X116 BKR	M8	CBQ690	CBQ690	0
1TB27-1	1BKR52-11670	MCC 116T MTR OPER DOOR 804 BKR	M8	CBQ700	CBQ700	0
1TB27-1	1BKR52-11671	MCC 116T COND COLLECTION TK 11 PP 11 BKR	M8	CBQ710	CBQ710	0
1TB27-1	1BKR52-11672	MCC 116T COND COLLECTION TK 11 PP 12 BKR	M8	CBQ720	CBQ720	0
1TB27-1	1BKR52-11673	MCC 116T SERVICE XFMR (P-13000-1) COOLING B BKR	M8	CBQ730	CBQ730	0
1TB27-1	1BKR52-11674	MCC 116T SERVICE XFMR (U-4000-11) COOLING B BKR	M8	CBQ740	CBQ740	0
1TB27-1	1BKR52-11675	MCC 116T SERVICE XFMR (U-4000-21) COOLING B BKR	M8	CBQ750	CBQ750	0
1TB27-1	1BKR52-11676	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12A B	M8	CBQ760	CBQ760	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-1	1BKR52-11677	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12B B	M8	CBQ77O	CBQ77O	0
1TB27-1	1BKR52-11678	MCC 116T HTR DRN PP 12 LUBE OIL COOLER FAN BKR	M8	CBQ78O	CBQ78O	0
1TB27-1	1BKR52-11601	MCC 116T MN FDR BKR	M8	M8BCBM	CBQ01T	0
1TB12-3	1PUMPSTC12	12 MG STATOR WTR CLG PUMP (1MB316)	M8	MB315Q	MB315Q	0
1TB12-4	1PUMPEHC12	12 MT EHC HYD UNIT PUMP (1MB316)	M8	MB316Q	MB316Q	0
1TB12-2 (CP)	1PUMPCAR14	14 CAR VAC PP (1MB317)	M8	MB317Q	MB317Q	0
1TB12-3	1PUMPWBP13	13 CW WTRBX PRMG PP (1M1608)	M8	MBQ08Q	MBQ08Q	0
1TB12-3	1PUMPWBPSWP13	13 CW WTRBX PRMG PP SEAL WTR PUMP (1M1610)	M8	MBQ10Q	MBQ10Q	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	M8	MBQ13Q	MBQ13Q	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	M8	MBQ14Q	MBQ14Q	0
1TB27-7	0PUMPRCPSARE	SPARE RCP MTR OIL LIFT PP MTR (0M1617)	M8	MBQ17Q	MBQ17Q	0
1TB27-5E	1PUMPSWBSTR11	11 SW BOOSTER PUMP (1M1620)	M8	MBQ20Q	MBQ20Q	0
1TB12-2 (CP)	1PUMPSMP11TB11	11 TURB BLDG SUMP 11 PP (1M1642)	M8	MBQ42Q	MBQ42Q	0
1TB12-2 (CP)	1PUMPSMP11TB12	11 TURB BLDG SUMP PP 12 (1M1643)	M8	MBQ43Q	MBQ43Q	0
1TB12-2 (CP)	1PUMPSBD12	12 AUX BD TK PUMP (1M1656)	M8	MBQ56Q	MBQ56Q	0
1TB27-5E	1PUMPSMP12TB11	12 TURB BLDG SUMP PP 11 (1M1663)	M8	MBQ63Q	MBQ63Q	0
1TB27-5E	1PUMPSMP12TB12	12 TURB BLDG SUMP 12 PP (1M1664)	M8	MBQ64Q	MBQ64Q	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	M8	MMQ06Q	MMQ06Q	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	M8	MMQ07Q	MMQ07Q	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	M8	MMQ36Q	MMQ36Q	0
1TB12-2 (CP)	1PUMPCARSWP14	14 CAR SEAL WTR PUMP (1M1637)	M8	MMQ37Q	MMQ37Q	0
2TB27-8	0PUMPPHTB11	11 HTG TURB BLDG HWC PUMP (0M1667)	M8	MMQ67Q	MMQ67Q	0
1TB12-2	1PUMPHDVLOP12A	12A HTR DRN PP LO CLR PP (1M1676)	M8	MMQ76Q	MMQ76Q	0
1TB12-2	1PUMPHDVLOP12B	12B HTR DRN PP LO CLR PP (1M1677)	M8	MMQ77Q	MMQ77Q	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	M8	MVQ02Q	MVQ02Q	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	M8	MVQ03Q	MVQ03Q	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	M8	MVQ04Q	MVQ04Q	0
1TB27-3	1MOV6717	COND VAC BKR	M8	MVQ18Q	MVQ18Q	0
1TB12-2	1MOV5092	12 SGFP HP STOP ABOVE SEAT DRN	M8	MVQ28Q	MVQ28Q	0
1TB12-4	1MOV4022	11 MSR 2ND STG RHT SUPP DRN	M8	MVQ29Q	MVQ29Q	0
1TB12-4	1MOV4023	12 MSR 2ND STAGE RHT SUPP DRN	M8	MVQ30Q	MVQ30Q	0
1TB12-4	1MOV4678	AUX STM SEAL SUPPLY VLV	M8	MVQ31Q	MVQ31Q	0
1TB12-2	1MOV5094	12 SGFP LP STOP ABOVE SEAT DRN	M8	MVQ38Q	MVQ38Q	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	M8	MVQ40Q	MVQ40Q	0
1TB12-2	1MOV5093	12 SGFP HP STOP BELOW SEAT DRN	M8	MVQ44Q	MVQ44Q	0
1TB12-2	1MOV5095	12 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M8	MVQ46Q	MVQ46Q	0
1TB12-2	1MOV5096	12 SGFP 1ST STG EXH DRN	M8	MVQ49Q	MVQ49Q	0
1TB12-4	1MOV4025	MS TO 11 MSR 2ND STG	M8	MVQ51Q	MVQ51Q	0
1TB27-5W	1MOV4017	MS TO 12 MSR 2ND STG CONT	M8	MVQ52Q	MVQ52Q	0
1TB27-6	1MOV4020	EXTRACTION STEAM TO MOISTURE SEPARATOR REH	M8	MVQ53Q	MVQ53Q	0
1TB27-1	1XL-208-112	LTG XFMR L-208-112 TURB BLDG EL 27 FT	M8	TMQ39Q	TMQ39Q	0
1TB27-1	1XDT116	LTG DISTR XFMR 116	M8	TMQ47Q	TMQ47Q	0
1TB12-2	1FANFPTLOCDTRE12	12 SGFP LO COND FAN (1M1612)	M8	VAQ12Q	VAQ12Q	0
1TB12-2	1FANFPTLORESVE12	12 SGFP LO RESV VAPOR EXT (1M1615)	M8	VAQ15Q	VAQ15Q	0
1TB12-4	1M1633	12 STM PACKING EXH MTR (1M1633)	M8	VAQ33Q	VAQ33Q	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	M8	VAQ59Q	VAQ59Q	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	M8	VAQ60Q	VAQ60Q	0
1TB12-2	1M1678	12 HDV HTR DRN PP LUBE OIL CLR FAN 12 MTR (1M167	M8	VAQ78Q	VAQ78Q	0
1TB27-7	1PS4453	11 CD BOOSTER PP SUCTION LOW PS	MC	MCBP10	PS453R	0
1TB27-7	1PS4513	COND BOOSTER PUMP 11 PS	MC	MCBP10	PS513R	0
1TB27-7	1PS4460	12 CD BOOSTER PP SUCTION LOW PS	MC	MCBP20	PS460R	0
1TB27-7	1PS4514	COND BOOSTER PUMP 12 PS	MC	MCBP20	PS514R	0
1TB12-2	1PS4467	13 CD BOOSTER PP SUCTION LOW PS	MC	MCBP30	PS467R	0
1TB12-2	1PS4468	13 CD BOOSTER PP DISCHARGE LOW PS	MC	MCBP30	PS468D	0
1TB12-2	1PS4515	COND BOOSTER PUMP 13 PS	MC	MCBP30	PS515R	0
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEB	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEP	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AB	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AP	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BB	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BP	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CB	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CP	0
1TB27-4	1HXCDLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AB	0
1TB27-4	1HXCDLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AP	0
1TB27-4	1HXCDLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AB	0
1TB27-4	1HXCDLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AP	0
1TB27-4	1HXCDLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BB	0
1TB27-4	1HXCDLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BP	0
1TB27-4	1HXCDLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BB	0
1TB27-4	1HXCDLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BP	0
1TB27-4	1HXCDLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CB	0
1TB27-4	1HXCDLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CP	0
1TB27-4	1HXCDLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CB	0
1TB27-4	1HXCDLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CP	0
1TB12-1	1HXCDLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AB	0
1TB12-1	1HXCDLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AP	0
1TB27-2	1HXCDLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AB	0
1TB27-2	1HXCDLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AP	0
1TB12-1	1HXCDLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BB	0
1TB12-1	1HXCDLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BP	0
1TB27-2	1HXCDLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BB	0
1TB27-2	1HXCDLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BP	0
1TB27-7	1TCV1619	11 CBP LO CLR TCV	MC	MCLO15	C7619P	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11B	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCLO15	HXM11P	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AB	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCLO15	HXS1AP	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BB	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCLO15	HXS1BP	0
1TB27-7	1TCV1620	12 CBP LO CLR TEMP TCV	MC	MCLO25	C7620P	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12B	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCLO25	HXM12P	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AB	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCLO25	HXS2AP	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BB	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCLO25	HXS2BP	0
1TB12-2	1TCV1621	13 CBP LO CLR TCV	MC	MCLO35	C7621P	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13B	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCLO35	HXM13P	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AB	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCLO35	HXS3AP	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BB	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCLO35	HXS3BP	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV4380	0
1TB27-4	1I/P4438	COND PMPS MINIMUM FLOW VLV CON	MC	MCMN10	CV4380	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV4380	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438P	0
1TB27-4	1I/P4438	COND PMPS MINIMUM FLOW VLV CON	MC	MCMN10	CV438P	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438P	0
1TB27-5E	1FT4438A	CD GLAND STEAM CONDENSER MINI FLOW CONTROL	MC	MCMN10	FT38AR	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV4860	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB27-3	1SV4486	COND BSTR PMP'S MIN FLOW CONT	MC	MCMN40	CV486O	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486P	0
1TB27-3	1SV4486	COND BSTR PMP'S MIN FLOW CONT	MC	MCMN40	CV486P	0
1TB12-3	1FIC4486	CD BOOSTER PP MINI FLOW CONTROL FIC	MC	MCMN40	FC486R	0
1TB12-1	1FY4486	CD BOOSTER PP MINI FLOW CONTROL FY	MC	MCMN40	FY486R	0
1TB12-1	1FT4484	11 SGFP SUCT FLO XMTR	MC	MCMN51	FT484R	0
1TB12-1	1FY4484	11 FW SGFP SUCT FLO DEVICE	MC	MCMN51	FY484R	0
1TB12-2	1FT4485	12 FW SGFP SUCT FLO XMTR	MC	MCMN52	FT485R	0
1TB12-1	1FY4485	11 & 12 COND BSTR PP MINI FLO DEVICE	MC	MCMN52	FY485R	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11B	0
1TB12-2	1HXCDPPLOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11P	0
1TB12-3 (CP)	1YS4414	COND PMP MOTOR 11 OIL STRAINER	MC	MCPP10	YS414P	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12B	0
1TB12-2	1HXCDPPLOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12P	0
1TB12-3 (CP)	1YS4421	COND PMP MOTOR 12 OIL STRAINER	MC	MCPP20	YS421P	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13B	0
1TB12-2	1HXCDPPLOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13P	0
1TB12-3 (CP)	1YS4428	COND PMP MOTOR 13 OIL STRAINER	MC	MCPP30	YS428P	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	MC	MML11R	MML11R	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	MC	MML12R	MML12R	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	MC	MML13R	MML13R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11R	MYB11R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11S	MYB11S	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12R	MYB12R	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12S	MYB12S	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13R	MYB13R	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13S	MYB13S	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	MC	MYC11R	MYC11R	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	MC	MYC12R	MYC12R	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	MC	MYC13R	MYC13R	0
1TB12-3	1PUMPCBP-LO-11	CBP-11 LUBE OIL PUMP	MC	NDL11R	NDL11R	0
1TB12-3	1PUMPCBP-LO-12	CBP-12 LUBE OIL PUMP	MC	NDL12R	NDL12R	0
1TB12-3	1PUMPCBP-LO-13	CBP-13 LUBE OIL PUMP	MC	NDL13R	NDL13R	0
1TB27-7	1TE1619	11 CD CBP LUBE OIL CLR TE	MC	TE619R	TE619R	0
1TB27-7	1TE1620	12 CD CBP LUBE OIL CLR OUT TE	MC	TE620R	TE620R	0
1TB12-2	1TE1621	13 CD CBP LUBE OIL CLR OUT TE	MC	TE621R	TE621R	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	MC	VAL11R	VAL11R	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	MC	VAL12R	VAL12R	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	MC	VAL13R	VAL13R	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106P	C3106P	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	MN	CB013T	CB013T	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	MN	CB014T	CB014T	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	MN	CB113T	CB113T	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	MN	CB114T	CB114T	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	CV484O	CV484O	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	CV484O	CV484O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	CV4840	CV4840	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	CV4840	CV4840	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	CV4840	CV4840	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	CV4840	CV4840	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	CV4840	CV4840	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	CV4850	CV4850	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	CV4850	CV4850	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	CV4850	CV4850	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	CV4850	CV4850	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	CV4850	CV4850	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	CV4850	CV4850	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	CV4850	CV4850	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	CV4850	CV4850	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BR	MB11BR	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BS	MB11BS	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BR	MB12BR	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BS	MB12BS	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	MN	MM11AR	MM11AR	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	MN	MM12AR	MM12AR	0
1TB27-5E	1PUMPCDSGFPPBSTR1	11 CD SGFP SEAL WTR BSTR PP (1M0112)	MN	MML11R	MML11R	0
1TB12-4	1PUMPCDSGFPPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12R	MML12R	0
1TB12-4	1PUMPCDSGFPPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12S	MML12S	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MN	MNO11R	MNO11R	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MN	MNO12R	MNO12R	0
1TB27-1	1MCC101AT	MCC 101AT	MN	MNF71B	BU01AR	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	MN	MNF71B	CB101T	0
1TB27-1	1MCC101BT	MCC 101BT	MN	MNF72B	BU01BR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	MN	MNF72B	CB141T	0
1TB27-2	1HXFWHPPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AB	0
1TB27-2	1HXFWHPPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AP	0
1TB27-2	1HXFWHPPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BB	0
1TB27-2	1HXFWHPPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BP	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	MNFW52	VT1HCP	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	MN	MNFW52	VT1HSP	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	MNFW53	VT1LCP	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	MN	MNFW53	VT1LSP	0
1TB12-2	1LS4705	11 GS GEN FEED PP TURBINE CASING HIGH LS	MN	MNFW54	LS705R	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	MN	MNFW54	MV964P	0
1TB12-2	1PS5002	BRG OIL HDR PS TO LOW PRESS TURB TRIPS	MN	MNFW54	PS002R	0
1TB12-2	1PS5025	11 FW SGFPT ACTIVE FRNT BTHR BRG PS	MN	MNFW54	PS025R	0
1TB12-2	1PS5027	11 FW SGFPT INACTIVE REAR THR BRG PS	MN	MNFW54	PS027R	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	MN	MNFW54	SV010T	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704P	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704T	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707P	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707T	0
1TB12-2	1CV4702	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV702P	0
1TB12-2	1CV4705	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV705P	0
1TB12-2	1PDC4702	11 CD SGFP INJECTION PDC	MN	MNFW57	PC702R	0
1TB12-2	1PC4704	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC704R	0
1TB12-2	1PDC4705	11 CD SGFP INJECTION PDC	MN	MNFW57	PC705R	0
1TB12-2	1PC4707	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC707R	0
1TB12-2	1CV4704OP	SGFP 11 PP SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX704R	0
1TB12-2	1CV4707OP	SGFP 11 TURB SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX707R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	ABOVE
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011B	0
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011P	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	MNFW59	CV484P	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	MNFW59	CV484P	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	MNFW59	CV484P	0
1TB12-1	1FT4484A	11 FW SGFP MINI FLO XMTR	MN	MNFW59	FT84AR	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	MNFW62	VT2HCP	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	MN	MNFW62	VT2HSP	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	MNFW63	VT2LCP	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	MN	MNFW63	VT2LSP	0
1TB12-2	1LS4711	12 GS GEN FEED PP TURBINE CASING LS	MN	MNFW64	LS711R	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	MN	MNFW64	MV981P	0
1TB12-2	1PS5051	LOW BRG OIL PRESS TURB TRIP PS	MN	MNFW64	PS051R	0
1TB12-2	1PS5074	12 FW SGFPT ACTIVE FRNT THR BRG PS	MN	MNFW64	PS074R	0
1TB12-2	1PS5076	12 FW SGFPT INACTIVE THR BRG PS	MN	MNFW64	PS076R	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	MN	MNFW64	SV059T	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710P	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710T	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713P	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713T	0
1TB12-2	1CV4708	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV708P	0
1TB12-2	1CV4711	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV711P	0
1TB12-2	1PDC4708	12 CD SGFP INJECTION PDC	MN	MNFW67	PC708R	0
1TB12-2	1PC4710	12 FW SEAL WTR DISCHARGE PC	MN	MNFW67	PC710R	0
1TB12-2	1PDC4711	12 CD SGFP INJECTION PDC	MN	MNFW67	PC711R	0
1TB12-2	1PC4713	12 FW SGFP SEAL WTR DISCHARGE PC	MN	MNFW67	PC713R	0
1TB12-2	1CV47100P	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX710R	0
1TB12-2	1CV47130P	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX713R	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012B	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012P	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	MNFW69	CV485P	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	MNFW69	CV485P	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	MNFW69	CV485P	0
1TB12-1	1FT4485A	12 FW SGFP MINI FLO XMTR	MN	MNFW69	FT85AR	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622P	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622P	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622R	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622R	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623P	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623P	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623R	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623R	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-2	1PS5042A	12 FW SGFP AUX OIL PP PS	MN	PS42AD	PS42AD	0
1TB12-2	1PS4482	11 & 12 SGFP SUCT LO PS	MN	PS482R	PS482R	0
1TB12-2	1PS4483	11 & 12 SGFP SUCT LO PS	MN	PS483R	PS483R	0
1TB27-5E	1PS4486	CD SGFP SEAL WATER BOOSTER PPS SUCTION PS	MN	PS486R	PS486R	0
1TB12-4	1PS4487	CD SGFP SEAL WATER BOOSTER PPS DISCHARGE PS	MN	PS487D	PS487D	0
1TB12-2	1PS4490	11 FW SGFP DISCH PS	MN	PS490R	PS490R	0
1TB12-2	1PS4491	11 FW SGFP DISCH PS	MN	PS491R	PS491R	0
1TB12-2	1PS4495	12 FW SGFP DISCH PS	MN	PS495R	PS495R	0
1TB12-2	1PS4496	12 FW SGFP DISCH PS	MN	PS496R	PS496R	0
1TB12-2	1PS4992A	11 FW SGFP AUX OIL PUMP PS	MN	PS92AD	PS92AD	0
1TB12-2	1PY4482	SGFP 11 TURB TRIP & RESET	MN	RY482T	RY482T	0
1TB12-2	1PY4483	SGFP 11 TURB TRIP & RESET	MN	RY483T	RY483T	0
1TB12-2	1PY4482A	SGFP 12 LO SUCT PR ALARM	MN	RY82AT	RY82AT	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	MN	RY83AT	RY83AT	0
1TB12-2	1AY4483A	SGFP 12 LO SUCT PR TRIP	MN	RYA3AT	RYA3AT	0
1TB12-2	1AY4483	SGFP 11 TRIP & RESET	MN	RYA83T	RYA83T	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	VT1HCO	VT1HCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	VT1LCO	VT1LCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	VT2HCO	VT2HCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	VT2LCO	VT2LCO	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111C	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111T	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111T	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111T	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121C	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121T	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121T	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121T	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MT	BHEMT1	Trips	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MT	BHEMT1	Trips	0
1TB27-1	1MCC101AT	MCC 101AT	N1	BU109Q	BU109Q	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	N2	CM118Q	CM118Q	0
1TB12-4	1COMP1A11	11 PA COMPR (1MB123)	N2	CM123Q	CM123Q	0
1TB27-1	1MCC101BT	MCC 101BT	N4	BU419Q	BU419Q	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	N4	CM418Q	CM418Q	0
2TB27-7	2MCC201AT	MCC 201AT	N5	BUT59Q	BUT59Q	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	N6	CMT18Q	CMT18Q	0
2TB27-7	2MCC201BT	MCC 201BT	N8	BUT19Q	BUT19Q	0
2TB12-4	2COMP1A21	21 PA COMPR (2MB423)	N8	CMT21Q	CMT21Q	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	N8	CMT28Q	CMT28Q	0
2TB12-4	2TCV1636	PA COMP TCV	NR	C72S6Q	C72S6Q	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	C7S34Q	C7S34Q	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CM011R	CM011R	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CM011S	CM011S	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012R	CM012R	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012S	CM012S	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CMP11R	CMP11R	0
2TB12-4	2COMP1A21	21 PA COMPR (2MB423)	NR	CMP21R	CMP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	IPIA99	TKA11B	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	IV2S6D	IV2S6D	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	IVS33D	IVS33D	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	IVS34D	IVS34D	0
1TB27-1	1MCC101AT	MCC 101AT	NR	NR1P01	BU1ATR	0
1TB27-1	1PNL1P11	LTG DISTR PNL 111	NR	NR1P01	BUP11R	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	NR	NR1P01	CB101T	0
1TB27-1	1BKR52-10116	MCC 101AT DISTR XFMR 11 BKR	NR	NR1P01	CB116T	0
1TB27-1	1XDT11	LTG DISTR XFMR 11	NR	NR1P01	TM1P1R	0
1TB12	1PCV1628	SRW TO I&P/A COMPR PCV	NR	NRC1SW	CV628P	0
1TB12-4	1TCV1630	11 I/A COMPR TEMP REG VLV	NR	NRIA11	C7630P	0
1TB12-4	1MUFFIAFIL11	11 IA COMPR FILTER SILENCER	NR	NRIA11	FL011P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11B	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062D	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062T	0
1TB12-4	1SV1629	11 I/A COMPR A/CLR SRW INLET	NR	NRIA11	IV629T	0
1TB12-4	1SV1630	11 I/A COMPR SRW INLET	NR	NRIA11	IV630T	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	NRIA11	PS062R	0
1TB12-4	1PS2063	11 IA COMPR OIL PS LOW	NR	NRIA11	PS063R	0
1TB12-4	1TE1630	11 SRW IA COMPR OUT TE	NR	NRIA11	TE630R	0
1TB12-4	1TS2063	11 IA COMPR A/CLR OUT TS HI	NR	NRIA11	TS063R	0
1TB12-4	1TS2082	11 IA COMPR I/CLR OUT TS	NR	NRIA11	TS082R	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	NRIA12	C7S34P	0
1TB12-4	1MUFFIAFIL12	12 IA COMPR FILTER SILENCER	NR	NRIA12	FLS12P	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA12	HXAS2P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2B	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2P	0
1TB12-4	1SV2084	12 IA COMPR LOADING SV	NR	NRIA12	IV064D	0
1TB12-4	1SV2084	12 IA COMPR LOADING SV	NR	NRIA12	IV064T	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	NRIA12	IVS33T	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	NRIA12	IVS34T	0
1TB12-4	1PS2084	12 IA COMPR UNLOADER CONTR PS	NR	NRIA12	PS064R	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	NRIA12	PS067R	0
1TB12-4	1PS2065	12 IA COMPR OIL PS LOW	NR	NRIA12	PSS65R	0
1TB12-4	1TE1634	12 SRW IA COMPR OUT TE	NR	NRIA12	TES34R	0
1TB12-4	1TS2065	12 IA COMPR A/CLR OUT TS HI	NR	NRIA12	TSS65R	0
1TB12-4	1TS2084	12 IA COMPR I/CLR OUT TS	NR	NRIA12	TSS84R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA99	HXA11B	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA99	HXAS2B	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	NRIA99	TK011B	0
1TB12-4	1ACCIA12	12 IA COMPR RCVR	NR	NRIA99	TK012B	0
1TB12-2	1DRYIA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12AP	0
1TB12-2	1DRYIA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12BP	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAMD	C0001R	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAMD	C0001R	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAMD	C0001T	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAMD	C0001T	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAMD	C0001T	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAMD	C0002P	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAMD	C0002P	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAMD	C0002P	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAMD	C0002R	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAMD	C0002R	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAMD	C0002R	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAMD	C0002T	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAMD	C0002T	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAMD	C0002T	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAMD	C0003R	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAMD	C0003R	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAMD	C0003R	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAMD	C0003T	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAMD	C0003T	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAMD	C0003T	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAMD	C0004R	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAMD	C0004R	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAMD	C0004R	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAMD	C0004T	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAMD	C0004T	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAMD	C0004T	0
1TB12-4	1NP1113B	IA DRYER 12 LOCAL CONTROL PNL	NR	NRIAMD	COD12R	0
1TB12-4	1FU1NP113B/FU3	12 IA DRYER CONTR CKT FU	NR	NRIAMD	FUC12R	0
1TB12-2	1HS2004	12 IA DRYER HS	NR	NRIAMD	HS004T	0
1TB12-4	1PCV2003	IA DRYER 12 PILOT REG PCV	NR	NRIAMD	PC003R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA01	HXP1B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA01	HXP2B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NR	NRPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NR	NRPA01	TKP21B	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NR	NRPA11	C7636P	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NR	NRPA11	FLP11P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXP1P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXP1P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP1B	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP1P	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154T	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NR	NRPA11	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NR	NRPA11	IV636T	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NR	NRPA11	PS055R	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	NRPA11	PS154R	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NR	NRPA11	TE636R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NR	NRPA11	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NR	NRPA11	TS086R	0
2TB12-4	2TCV1636	PA COMP TCV	NR	NRPA21	C7256P	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NR	NRPA21	CMP21S	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NR	NRPA21	CV228P	0
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NR	NRPA21	FLS21P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXP2B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXP2P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA21	HXP2P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054T	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	NRPA21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	NRPA21	IV2S6T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	NRPA21	PS054R	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	NRPA21	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NR	NRPA21	PSS25R	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NR	NRPA21	TE2S6R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NR	NRPA21	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NR	NRPA21	TSS25R	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259R	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061O	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061O	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061P	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061P	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061D	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	PS056D	PS056D	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	PS062D	PS062D	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	PS064D	PS064D	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	PS067D	PS067D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	PS154D	PS154D	0
2TB12-4	2TCV1636	PA COMP TCV	NS	C72S6O	C72S6O	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	C7634O	C7634O	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021R	CM021R	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021S	CM021S	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022R	CM022R	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022S	CM022S	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	NS	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	CMP21R	CMP21R	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	IV2S6D	IV2S6D	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	IV633D	IV633D	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	IV634D	IV634D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154T	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	NRCMP1	PS154R	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	NRCMP2	PS054R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NRDPP1	HXAP1P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR INTER COOLER	NS	NRDPP1	HXPI1B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR INTER COOLER	NS	NRDPP2	HXIP2B	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NS	NRHVP1	FLP11P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NS	NRHVP2	FLS21P	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NS	NRPSP1	PS056R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NS	NRPSP1	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NS	NRPSP1	TS086R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	NRPSP2	CMP21S	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	NRPSP2	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NS	NRPSP2	PSS25R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NRPSP2	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NS	NRPSP2	TSS26R	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NS	NRSW13	C7636P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NRSW13	HXPA1P	0
1TB12-4	1HXPA/CLR11	11 PA COMPR INTER COOLER	NS	NRSW13	HXP11P	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NS	NRSW13	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NS	NRSW13	IV636T	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NS	NRSW13	TE636R	0
2TB12-4	2TCV1636	PA COMP TCV	NS	NRSW21	C72S6P	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NS	NRSW21	CV228P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR INTER COOLER	NS	NRSW21	HXIP2P	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NS	NRSW21	HXPA2P	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	NRSW21	IV255T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	NRSW21	IV256T	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NS	NRSW21	TE2S6R	0
2TB27-7	2MCC201AT	MCC 201AT	NS	NS1P01	BU2ATR	0
2TB27-7	2PNL2P01	LTG DISTR PNL 21	NS	NS1P01	BUP21R	0
2TB27-7	2BKR52-20101	MCC 201AT MN FDR BKR	NS	NS1P01	CB201T	0
2TB27-7	2BKR52-20116	DISTRIBUTION XFMR 480-208 120V	NS	NS1P01	CB216T	0
2TB27-7	2XDT21	LTG DISTR XFMR 21	NS	NS1P01	TM2P2R	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NS	NCS1SW	CVS28P	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCM11	IV262D	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCM11	IV262T	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	NSCM11	PSS62R	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCM12	IV264D	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCM12	IV264T	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	NSCM12	PSS64R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSDPI1	HXA21P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21B	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSDPI2	HXI22B	0
2TB12-4	2MUFFIAFILT21	21 IA COMPR FILTER SILENCER	NS	NSHVI1	FL021P	0
2TB12-4	2MUFFIAFILT22	22 IA COMPR FILTER SILENCER	NS	NSHVI2	FLS22P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSIA99	HXA21B	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSIA99	HXA22B	0
2TB12-4	2ACCIA21	21 IA COMPR RCVR	NS	NSIA99	TK021B	0
2TB27-8	2ACCIA22	22 IA COMPR RCVR	NS	NSIA99	TK022B	0
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22AP	0
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22BP	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201T	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202T	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203T	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204T	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2PNL2NP0103B	IA DRYER 22 CONTROLLER	NS	NSIAHD	C0D22R	0
2TB27-8	2FU2NP0103B/FU3	22 IA DRYER CONTR CKT FU	NS	NSIAHD	FUC22R	0
2TB27-8	2HS2004	22 IA DRYER H/S	NS	NSIAHD	HS204T	0
2TB27-8	2PCV2003	22 IA DRYER PILOT REG	NS	NSIAHD	PC203R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	NS	NSPA01	HXP11B	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	NS	NSPA01	HXP21B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NS	NSPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NS	NSPA01	TKP21B	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259R	0
2TB12-4	2CV2081	PA TO IA XCONN CV	NS	NSPAXA	C3261O	0
2TB12-4	2SV2081	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261O	0
2TB12-4	2CV2081	PA TO IA XCONN CV	NS	NSPAXA	C3261P	0
2TB12-4	2SV2081	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261P	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61D	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61R	0
2TB12-4	2PS2063	21 IA COMPR OIL PS LOW	NS	NSPSI1	PSS63R	0
2TB12-4	2TS2063	21 IA COMPR A/CLR OUT TS	NS	NSPSI1	TS263R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NSPSI1	TS282R	0
2TB27-8	2PS2087	22 IA RCVR TO COMPR 22 CONTR PS	NS	NSPSI2	PSS67R	0
2TB12-4	2TS2085	22 IA COMPR A/CLR OUT TS	NS	NSPSI2	TS065R	0
2TB12-4	2TS2084	22 IA COMPR I/CLR OUT TS	NS	NSPSI2	TS084R	0
2TB12-4	2TCV1630	21 IA COMPR TCV	NS	NSSW11	C7S30P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSSW11	HXIA2P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSSW11	HXII2P	0
2TB12-4	2SV1629	21 IA COMPR A/CLR SRW INLET	NS	NSSW11	IVS29T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
2TB12-4	2SV1630	21 IA COMPR SRW INLET	NS	NSSW11	IVS30T	0
2TB12-4	2TE1630	21 IA COMP CLR SRW TCV TE	NS	NSSW11	TE163R	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	NSSW12	C7634P	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSSW12	HXA22P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSSW12	HXI22P	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	NSSW12	IV633T	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	NSSW12	IV634T	0
2TB12-4	2TE1634	22 IA COMPR CLR SRW TCV TE	NS	NSSW12	TE634R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	PS056D	PS056D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	PS154D	PS154D	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	PSS62D	PSS62D	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	PSS64D	PSS64D	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	PSS67D	PSS67D	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	QC	QCMISC	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	QC	QCMISC	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	QC	QCMISC	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	QC	QCMISC	MYHD2Q	0
2TB12-3	2PUMPCBP21	21 CD CBP (2MA204)	QF	QFMISC	MXCB1Q	0
2TB12-3	2PUMPCBP22	22 CD CBP (2MA205)	QF	QFMISC	MXCB2Q	0
2TB12-2 (CP)	2PUMPCD21	21 CONDENSATE PUMP (2MA207)	QF	QFMISC	MXCP1Q	0
2TB12-3	2PUMPHDV21	21 FW HEATER DRAIN PUMP (2MA206)	QF	QFMISC	MXHD1Q	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	RL	RLFHSF	RLFHSF	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA2R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	S3	S3TBAL	ATPA1R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA2R	0
1TB12-4	1HXPA/CLR11	11 PA COMPR AFTER COOLER	S4	S3TBAL	ATPA1R	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	T1	T1CS1F	LT405R	0
2TB27-2E	2CV4406	21 CST TO HTWL M/U CV	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2I/P4406	COND STORAGE TO HOTWELL CONTRL	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2LT4405	CD HOTWELL LEVEL CONTROL LT	T1	T1CS2F	LTB05R	0
1TB27-6	1CVMT-11	11 MT CV	TT	V1CV1C	V1CV1C	0
1TB27-6	1CVMT-12	12 MT CV	TT	V1CV2C	V1CV2C	0
1TB27-6	1CVMT-13	13 MT CV	TT	V1CV3C	V1CV3C	0
1TB27-6	1CVMT-14	14 MT CV	TT	V1CV4C	V1CV4C	0
1TB27-6	1FCVMT-11	11 MT STOP VLV	TT	V1SV1C	V1SV1C	0
1TB27-6	1FCVMT-12	12 MT STOP VLV	TT	V1SV2C	V1SV2C	0
1TB27-6	1FCVMT-13	13 MT STOP VLV	TT	V1SV3C	V1SV3C	0
1TB27-6	1FCVMT-14	14 MT STOP VLV	TT	V1SV4C	V1SV4C	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	VC	MMS11R	MMS11R	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	VC	MMS12R	MMS12R	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1638)	VC	MMS13R	MMS13R	0
1TB12-2 (CP)	1PUMPCAR11	11 CAR VAC PP (1MB203)	VC	MMV11R	MMV11R	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	VC	MMV12R	MMV12R	0
1TB12-2 (CP)	1PUMPCAR13	13 CAR VAC PP (1MB303)	VC	MMV13R	MMV13R	0
1TB12-2	1CV1627	SRW TO COND VAC PP PCV	VC	VC0SRW	C3627P	0
1TB12-2	1PIC1627	10 SRW CNDSR PP VAC INL PIC	VC	VC0SRW	PC627R	0
1TB27-3	1MOV6717	COND VAC BKR	VC	VC717T	MV717T	0
1TB12-3 (CP)	1HS5225	11 CW PP WTRBX INL VLV HS	VC	VCCW1A	HS225T	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	VC	VCCW1A	MV225P	0
1TB12-3 (CP)	1HS5229	12 CW PP WTRBX INL VLV HS	VC	VCCW2A	HS229T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	VC	VCCW2A	MV229P	0
1TB12-3 (CP)	1HS5233	13 CW PP WTRBX INL VLV HS	VC	VCCW3A	HS233T	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	VC	VCCW3A	MV233P	0
1TB12-3 (CP)	1HS5237	14 CW PP WTRBX INL VLV HS	VC	VCCW4A	HS237T	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	VC	VCCW4A	MV237P	0
1TB12-3 (CP)	1HS5241	15 CW PP WTRBX INL VLV HS	VC	VCCW5A	HS241T	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	VC	VCCW5A	MV241P	0
1TB12-3 (CP)	1HS5245	15 CW PP WTRBX INL VLV HS	VC	VCCW6A	HS245T	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	VC	VCCW6A	MV245P	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098C	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098C	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098T	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098T	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098D	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098R	0
1TB12-2 (CP)	1CV1754	11 CAR UNIT MOTIVE AIR	VC	VCP011	C3754P	0
1TB12-2	1SV1753	11 CAR BYP & MOTIVE VLV	VC	VCP011	C3754P	0
1TB12-2 (CP)	1CV1755	11 CAR UNIT SYS DIAPHRAM	VC	VCP011	C3755P	0
1TB12-2 (CP)	1LCV1753	11 CAR SEP	VC	VCP011	LC753R	0
1TB12-2 (CP)	1PS1755	11 CAR CNDSR VAC PP SEAL LOW PRESSURE WTR PS	VC	VCP011	PS755R	0
1TB12-2 (CP)	1CV1757	12 CAR UNIT MOTIVE AIR	VC	VCP012	C3757P	0
1TB12-2	1SV1756	12 CAR BYP & MOTIVE VLVS	VC	VCP012	C3757P	0
1TB12-2 (CP)	1CV1758	12 CAR UNIT SYS DIAPHRAM	VC	VCP012	C3758P	0
1TB12-2 (CP)	1LCV1756	12 CAR SEP LO LVL CONTROL	VC	VCP012	LC756R	0
1TB12-2 (CP)	1PS1758	12 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP012	PS758R	0
1TB12-2 (CP)	1CV1780	13 CAR UNIT MOTIVE AIR	VC	VCP013	C3760P	0
1TB12-2	1SV1759	13 CAR BYP & MOTIVE VLVS	VC	VCP013	C3760P	0
1TB12-2 (CP)	1CV1781	13 CAR UNIT SYS DIAPHRAM	VC	VCP013	C3761P	0
1TB12-2 (CP)	1LCV1759	SEP LO LVL CONTROL	VC	VCP013	LC759R	0
1TB12-2 (CP)	1PS1781	13 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE PS	VC	VCP013	PS761R	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11B	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11P	0
1TB27-1	1RY1B0636/1Y0636	11 RECIRC SEAL PP INTK RE	VC	VCS011	RY036P	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12B	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12P	0
1TB27-1	1RY1B0637/1Y0637	12 RECIRC SEAL PP INTK RELAY	VC	VCS012	RY037P	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13B	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13P	0
1TB27-1	1RY1B1636/1Y1636	13 RECIRC SEAL PP INTK RELAY	VC	VCS013	RY136P	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681O	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681P	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	VC	VCTGS1	MV659P	0
1TB12-4	1PC4681	GS STM SEAL FEED VLV CONTROL PC	VC	VCTGS1	PC681R	0



# Flood Evaluation Query

CF-32B-FT27AN \*

02-Dec-98

TOP	PM	EVALUATION	RI
AE	4BKR	4 breaker challenges.	PAJ
AF	4BKR	4 breaker challenges.	PAJ
BS	Spec Impt	All TBVs fail closed on loss of power. An excessive steam demand will not occur.	PAJ
BV	F	All TBVs fail closed on loss of power.	PAJ
FC	Spec Impt	1MCC101BT fails. This MCC supplies power to AFW Turb PP Rm NSR A/C Unit.	PAJ
FN	None	Only has 1 PCV. I am assuming that these valves will not fail during a flood.	PAJ
FT	None	Stop valves fail closed. If SGFPs are secured, which they are (See Top MT), this top is successful.	PAJ
GW	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
GZ	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
IP	None	Air accumulator only. Mechanical operation only.	PAJ
K5	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
LF	F	1CV1105/1106/4405/4406 fail closed on loss of power and loss of air.	PAJ
M7	F	MCC 106T fails.	PAJ
M8	F	MCC 116T fails.	PAJ
MC	F	All condensate pumps fail.	PAJ
MN	F	Both SGFPs trip.	PAJ
MP	F	1CV1111/1121 are normally open and fail as-is.	PAJ
MT	None	SGFP trip in this scenario. See top MN.	PAJ

\* This flood is deleted. See note 12 in RAN 98-065 sec 5.4  
*Jan*

TOP	PM	EVALUATION	RI
N1	1BKR	1 breaker challenge.	PAJ
N2	2BKR	2 breaker challenges.	PAJ
N4	2BKR	2 breaker challenges.	PAJ
N5	1BKR	1 breaker challenge.	PAJ
N6	1BKR	1 breaker challenge.	PAJ
N8	3BKR	3 breaker challenges.	PAJ
NR	F	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail. (Note 45)	PAJ
NS	<del>F</del> None	All Unit 1 & Unit 2 Instrument Air/Plant Air Compressors fail. (Note 45)	PAJ
QC	4BKR	4 breaker challenges.	PAJ
QF	4BKR	4 breaker challenges.	PAJ
RL	Spec Impt	Since top event MC fails in this scenario and this hose station is under water. All SFs with either of these make-up options available should be failed.	PAJ
S3	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
S4	None	No equipment impacted. IA & PA Aftercoolers are not affected by flood.	PAJ
T1	None	1CV4406 and 2CV4406 fails closed.	PAJ
TT	None	Control and Stop valves fail closed.	PAJ
VC	F	All Condenser Vacuum Pumps Fail.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	AE	MYCB1Q	MYCB1Q	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	AE	MYCB2Q	MYCB2Q	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	AE	MYCP1Q	MYCP1Q	0
1TB12-2	1PUMPHDV11	11 FW HEATER DRAIN PUMP (1MA206)	AE	MYHD1Q	MYHD1Q	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	AF	MYCB3Q	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	AF	MYCP2Q	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	AF	MYCP3Q	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	AF	MYHD2Q	MYHD2Q	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB4000	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS3940	AB400P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940P	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS3940	C5940T	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS3940	C5940T	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BS	BS3940	IV940T	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3940	IZ940R	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940I	0
1TB27-3	1CV3940OP	MS TURB BYP CV OPERATOR	BS	BS3940	PX940R	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB4200	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS3942	AB420P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942P	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS3942	C5942T	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS3942	C5942T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BS	BS3942	IV942T	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3942	IZ942R	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942I	0
1TB27-3	1CV3942OP	MS TURB BYP VLV OPERATOR	BS	BS3942	PX942R	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB4400	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS3944	AB440P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944P	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS3944	C5944T	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS3944	C5944T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BS	BS3944	IV944T	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3944	IZ944R	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944I	0
1TB27-3	1CV3944OP	MS TURB BYP VLV OPERATOR	BS	BS3944	PX944R	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB4600	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS3946	AB460P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946P	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS3946	C5946T	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS3946	C5946T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BS	BS3946	IV946T	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BS	BS3946	IZ946R	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX946I	0
1TB27-3	1CV3946OP	MS TURB BYP VLV OPERATOR	BS	BS3946	PX960R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1PT4056	MS TURB BYPASS VLV CONTROL PT	BS	BS4056	PT056R	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BS	BS940C	AB40BC	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40AD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	BS940C	IV40BD	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BS	BS942C	AB42BC	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	BS942C	IV42AD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	BS942C	IV42BD	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BS	BS944C	AB44BC	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	BS944C	IV44AD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	BS944C	IV44BD	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BS	BS946C	AB46BC	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	BS946C	IV46AD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	BS946C	IV46BD	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BS	C5940C	C5940C	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BS	C5940C	C5940C	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BS	C5942C	C5942C	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BS	C5942C	C5942C	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BS	C5944C	C5944C	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BS	C5944C	C5944C	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BS	C5946C	C5946C	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BS	C5946C	C5946C	0
1TB27-3	1CV3940REGB	AIR VOL BST FOR 1VV3940	BV	BV3940	AB40BO	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	BV3940	C5940P	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3940	C5940P	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BV3940	C5940P	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AD	0
1TB27-3	1SV3941A	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41AT	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BD	0
1TB27-3	1SV3941B	TURBINE BY-PASS QUICK OPENING	BV	BV3940	IV41BT	0
1TB27-3	1CV3942REGB	AIR VOL BST FOR 1CV3942	BV	BV3942	AB42BO	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	BV3942	C5942P	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3942	C5942P	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BV3942	C5942P	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AD	0
1TB27-3	1SV3943A	TURB BYPASS QUICK OPENING	BV	BV3942	IV43AT	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BD	0
1TB27-3	1SV3943B	TURB BYPASS QUICK OPENING	BV	BV3942	IV43BT	0
1TB27-3	1CV3944REGB	AIR VOL BST FOR 1CV3944	BV	BV3944	AB44BO	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	BV3944	C5944P	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3944	C5944P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BV3944	C5944P	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AD	0
1TB27-3	1SV3945A	TURB BYPASS QUICK OPENING	BV	BV3944	IV45AT	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BD	0
1TB27-3	1SV3945B	TURB BYPASS QUICK OPENING	BV	BV3944	IV45BT	0
1TB27-3	1CV3946REGB	AIR VOL BST FOR 1CV3946	BV	BV3946	AB46BO	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BV	BV3946	C5946P	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	BV3946	C5946P	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BV3946	C5946P	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AD	0
1TB27-3	1SV3947A	TURB BYPASS QUICK OPENING	BV	BV3946	IV47AT	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BD	0
1TB27-3	1SV3947B	TURB BYPASS QUICK OPENING	BV	BV3946	IV47BT	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	BVCLVR	IV940T	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	BVCLVR	IV942T	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	BVCLVR	IV944T	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	BVCLVR	IV946T	0
1TB27-3	1CV3940	TURB BYP VLV (TBV)	BV	C5940O	C5940O	0
1TB27-3	1I/P3940	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C5940O	C5940O	0
1TB27-3	1SV3940	TBV 3940 LO COND VAC I/L SV	BV	C5940O	C5940O	0
1TB27-3	1CV3942	TURB BYP VLV (TBV)	BV	C5942O	C5942O	0
1TB27-3	1I/P3942	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C5942O	C5942O	0
1TB27-3	1SV3942	TBV 3942 LO COND VAC I/L SV	BV	C5942O	C5942O	0
1TB27-3	1CV3944	TURB BYP VLV (TBV)	BV	C5944O	C5944O	0
1TB27-3	1I/P3944	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C5944O	C5944O	0
1TB27-3	1SV3944	TBV 3944 LO COND VAC I/L SV	BV	C5944O	C5944O	0
1TB27-3	1CV3946	TURB BYP VLV (TBV)	BV	C5946O	C5946O	0
1TB27-3	1I/P3946	MS TURB BYPASS VLV CONTROL I/P SIG CONVERTE	BV	C5946O	C5946O	0
1TB27-3	1SV3946	TBV 3946 LO COND VAC I/L SV	BV	C5946O	C5946O	0
1TB12-1	1AFWDOORS	AFW DOUBLE DOORS	FC	Dummy	N/A	0
1TB27-1	1MCC101BT	MCC 101BT	FC	FC1MCC	BU1BTR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	FC	FC1MCC	CB141T	0
1TB12	1PCV1600	AUX FD PP RM CLR TEMP REG VLV	FC	FCSRWC	CV600P	0
1TB12-1	1FDTB12W1	AFW RM SUPPLY FROM AFW TO TB12 FD	FC	FDAMPR	FD002I	0
1TB12	1PCV4510	11A AFW AIR ACCUMULATOR OUTLET PCV	FN	FN0000	CV510P	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	FT	FTFW30	SV010D	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	FT	FTFW40	SV059D	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCO	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	FT	VT11HC	VT1HCT	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HSO	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	FT	VT11HS	VT1HST	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	FT	VT11LC	VT1LCT	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LSO	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	FT	VT11LS	VT1LST	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	FT	VT12HC	VT2HCT	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HCO	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	FT	VT12HS	VT2HST	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	FT	VT12LC	VT2LCT	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LSO	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	FT	VT12LS	VT2LST	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GW	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GW	S7TBAL	ATI22R	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	GW	S7TBAL	ATP21R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	* ABOVE FLOOR
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI21R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	GZ	S7TBAL	ATI22R	0
2TB12-4	2HXPA/CLR21	21 PA COMPR AFTER COOLER	GZ	S7TBAL	ATP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	IP	IPIA99	TK11B	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	K5	K5FIRE	K5FH5F	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	LF	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	LF	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	LF	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	LF	C3106P	C3106P	0
1TB12-3 (CP)	1CV4406	CST TO HTWL MU CV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406O	0
1TB12-3 (CP)	1CV4406	CST TO HTWL MU CV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	LF	LFMUCV	C3406P	0
1TB12-3 (CP)	1CV4405	HOTWELL TO COND STORAGE VLV	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1I/P4405	HOTWELL TO COND STORAGE CONT	LF	LFMUCV	C3504T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	LF	LFMUCV	LT405R	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	LF	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	LF	MNFW40	HX16BP	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	LF	RY83AT	RY83AT	0
1TB27-1	1MCC106T	MCC 106T	M7	BU213Q	BU213Q	0
1TB27-1	1MCC106T	MCC 106T	M7	BUM06R	BUM06R	0
1TB12-2 (CP)	1PNL1C51	11A AMERTAP CNTL PNL 1C51	M7	BUP23Q	BUP23Q	0
1TB12-2 (CP)	1PNL1C52	11B AMERTAP CNTL PNL 1C52	M7	BUP24Q	BUP24Q	0
1TB12-2 (CP)	1PNL1C53	12A AMERTAP CNTL PNL 1C53	M7	BUP25Q	BUP25Q	0
1TB27-1	1BKR52-10602	MCC 106T CIRC H2O PP DISCH 1MOV-5225 BKR	M7	CBP02O	CBP02O	0
1TB27-1	1BKR52-10603	MCC 106T CIRC H2O PP 12 DISCH 1MOV-5229 BKR	M7	CBP03O	CBP03O	0
1TB27-1	1BKR52-10604	MCC 106T CIRC H2O PP 13 DISCH 1MOV-5233 BKR	M7	CBP04O	CBP04O	0
1TB27-1	1BKR52-10605	MCC 106T WELDING RECEPTACLES 1W40-1W43	M7	CBP05O	CBP05O	0
1TB27-1	1BKR52-10606	MCC 106T WELDING RECEPTACLES 1W44-1W47	M7	CBP06O	CBP06O	0
1TB27-1	1BKR52-10607	MCC 106T COND PP 11 LUBE OIL PP BKR	M7	CBP07O	CBP07O	0
1TB27-1	1BKR52-10608	MCC 106T CIRC WTR PRIMING PP 11 BKR	M7	CBP08O	CBP08O	0
1TB27-1	1BKR52-10609	MCC 106T CIRC WTR PRIMING PP 12 BKR	M7	CBP09O	CBP09O	0
1TB27-1	1BKR52-10610	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP	M7	CBP10O	CBP10O	0
1TB27-1	1BKR52-10611	MCC 106T CIRC WTR PRIMING PP RECIRC SEAL PP	M7	CBP11O	CBP11O	0
1TB27-1	1BKR52-10612	MCC 106T SGFP 11 LUBE OIL CONDITIONER BKR	M7	CBP12O	CBP12O	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	M7	CBP13O	CBP13O	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	M7	CBP14O	CBP14O	0
1TB27-1	1BKR52-10615	SGFP 11 OIL VAPOR EXTRACTOR	M7	CBP15O	CBP15O	0
1TB27-1	1BKR52-10616	MCC 106T BEARING OIL VAPOR EXTR 11 BKR	M7	CBP16O	CBP16O	0
1TB27-1	1BKR52-10617	MCC 106T STM LEAD DRN 1MOV-4652(CV2) BKR	M7	CBP17O	CBP17O	0
1TB27-1	1BKR52-10618	MCC 106T STM LEAD DRN 1MOV-4651(CV4) BKR	M7	CBP18O	CBP18O	0
1TB27-1	1BKR52-10619	MCC 106T HYDRAULIC FLUID FILT PP 11 BKR	M7	CBP19O	CBP19O	0
1TB27-1	1BKR52-10620	MCC 106T MN OIL SEAL PP 11 (MN GEN)	M7	CBP20O	CBP20O	0
1TB27-1	1BKR52-10621	MCC 106T SEAL OIL RECIRC PP 11 BKR	M7	CBP21O	CBP21O	0
1TB27-1	1BKR52-10622	MCC 106T SEAL VACUUM PP 11 BKR	M7	CBP22O	CBP22O	0
1TB27-1	1BKR52-10623	MCC 106T 11A AMERTAP CONTR PNL 1C51 BKR	M7	CBP23O	CBP23O	0
1TB27-1	1BKR52-10624	MCC 106T 11B AMERTAP CONTR PNL 1C52	M7	CBP24O	CBP24O	0
1TB27-1	1BKR52-10625	MCC 106T 12A AMERTAP CONTR PNL 1C53 BKR	M7	CBP25O	CBP25O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-10626	MCC 106T UNIT HTR 9 BKR	M7	CBP280	CBP280	0
1TB27-1	1BKR52-10627	MCC 106T UNIT HTR 10 BKR	M7	CBP270	CBP270	0
1TB27-1	1BKR52-10628	MCC 106T SGFP 11 LP STOP VLV DRN B 1MOV-5090	M7	CBP280	CBP280	0
1TB27-1	1BKR52-10629	MCC 106T COMBINED CNTMT DRN 1MOV-4658(CV) B	M7	CBP290	CBP290	0
1TB27-1	1BKR52-10630	GLAND SEAL STEAM SUPPLY VALVE 1-MOV-4659	M7	CBP300	CBP300	0
1TB27-1	1BKR52-10631	MCC 106T STM SEAL BY-PASS 1MOV-4658(S2) BKR	M7	CBP310	CBP310	0
1TB27-1	1BKR52-10632	MCC 106T STM SEAL UNLOADING 1MOV-4657(B) BKR	M7	CBP320	CBP320	0
1TB27-1	1BKR52-10633	MCC 106T STM PACK EXH 11 BKR	M7	CBP330	CBP330	0
1TB27-1	1BKR52-10635	MCC 106T AUX BOILER FUEL PP 11 BKR	M7	CBP350	CBP350	0
1TB27-1	1BKR52-10636	MCC 106T COND VACUUM RECIRC SEAL PP 11 BKR	M7	CBP360	CBP360	0
1TB27-1	1BKR52-10637	MCC 106T COND VACUUM RECIRC SEAL PP 12 BKR	M7	CBP370	CBP370	0
1TB27-1	1BKR52-10638	SGFP 11 LP STOP VLV DRN 1-MOV-5089	M7	CBP380	CBP380	0
1TB27-1	1BKR52-10639	LIGHTING XFMR (1L11/1L17) L-208-218	M7	CBP390	CBP390	0
1TB27-1	1BKR52-10640	MCC 106T SGFP 11 EXH 1MOV-3964 BKR	M7	CBP400	CBP400	0
1TB27-1	1BKR52-10642	MCC 106T UNIT HTR 11 BKR	M7	CBP420	CBP420	0
1TB27-1	1BKR52-10643	MCC 106T UNIT HTR 12 BKR	M7	CBP430	CBP430	0
1TB27-1	1BKR52-10644	MCC 106T SGFP 11 HP STOP VLV DRN B 1MOV-5088	M7	CBP440	CBP440	0
1TB27-1	1BKR52-10645	ROADWAY LIGHTING PANEL 1L54	M7	CBP450	CBP450	0
1TB27-1	1BKR52-10646	MCC 106T SGFP 11 HP STOP VLV DRN A 1MOV-5087	M7	CBP460	CBP460	0
1TB27-1	1BKR52-10647	DISTRIBUTION XFMR 16 480-208/120V	M7	CBP470	CBP470	0
1TB27-1	1BKR52-10648	MCC 106T UNIT HTR 13 BKR	M7	CBP480	CBP480	0
1TB27-1	1BKR52-10649	MCC 106T SGFP 11 1ST STG DRN 1MOV-5091 BKR	M7	CBP490	CBP490	0
1TB27-1	1BKR52-10651	MCC 106T RHT STM SUPP 1MOV-4026 BKR	M7	CBP510	CBP510	0
1TB27-1	1BKR52-10652	MCC 106T MS TO MS RHTR 11 1MOV-4018 BKR	M7	CBP520	CBP520	0
1TB27-1	1BKR52-10653	MCC 106T EXTRACT STM TO MS RHTR 11 1MOV-401	M7	CBP530	CBP530	0
1TB27-1	1BKR52-10654	SMOKE REMOVAL DAMPER 0M05390 (CLOSED)	M7	CBP540	CBP540	0
1TB27-1	1BKR52-10656	CR & CBL SPREADING RM CHILL WTR SUPP PP 11	M7	CBP560	CBP560	0
1TB27-1	1BKR52-10657	MCC 106T TURB BLDG SUPP FAN 13 BKR	M7	CBP570	CBP570	0
1TB27-1	1BKR52-10658	MCC 106T TURB BLDG SUPP FAN 14 BKR	M7	CBP580	CBP580	0
1TB27-1	1BKR52-10659	MCC 106T COND PP 11 FAN BKR	M7	CBP590	CBP590	0
1TB27-1	1BKR52-10661	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP610	CBP610	0
1TB27-1	1BKR52-10662	MCC 106T TURB BLDG HIGH BAY LTG BKR	M7	CBP620	CBP620	0
1TB27-1	1BKR52-10663	MCC 106T BOOSTER JOCKEY PP FIRE PROT SYS BK	M7	CBP630	CBP630	0
1TB27-1	1BKR52-10667	MCC 106T TURB AREA OILY SUMP 11 PP 11 BKR	M7	CBP670	CBP670	0
1TB27-1	1BKR52-10668	MCC 106T TURB AREA OILY SUMP 11 PP 12 BKR	M7	CBP680	CBP680	0
1TB27-1	1BKR52-10669	MCC 106T SMOKE REMOVAL DMPR 0M05391 BKR	M7	CBP690	CBP690	0
1TB27-1	1BKR52-10670	MCC 106T SMOKE REMOVAL DMPR 0M05392 BKR	M7	CBP700	CBP700	0
1TB27-1	1BKR52-10671	MCC 106T AUX BD TK PP 11 BKR	M7	CBP710	CBP710	0
1TB27-1	1BKR52-10672	MCC 106T SPARE BKR	M7	CBP720	CBP720	0
1TB27-1	1BKR52-10673	SERV XFMR (P-13000-1) COOLING B (EMERGENCY)	M7	CBP730	CBP730	0
1TB27-1	1BKR52-10674	SERV XFMR (U-4000-11) COOLING A (NORMAL)	M7	CBP740	CBP740	0
1TB27-1	1BKR52-10675	SERV XFMR (U-4000-21) COOLING A (NORMAL)	M7	CBP750	CBP750	0
1TB27-1	1BKR52-10676	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11A	M7	CBP760	CBP760	0
1TB27-1	1BKR52-10677	MCC 106T HTR DRN PP 11 LUBE OIL COOLER PP 11B	M7	CBP770	CBP770	0
1TB27-1	1BKR52-10678	MCC 106T HTR DRN PP 11 LUBE OIL COOLER FAN B	M7	CBP780	CBP780	0
1TB27-1	1BKR52-10601	MAIN FEEDER BREAKER	M7	M7BCBM	CBP01T	0
1TB12-3	1PUMPSTC11	11 MG STATOR WTR CLG PUMP (1MB216)	M7	MB215Q	MB215Q	0
1TB12-4	1PUMPEHC11	11 MT EHC HYD UNIT PUMP (1MB216)	M7	MB216Q	MB216Q	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	M7	MB217Q	MB217Q	0
2TB27-8	0PUMPPHM11	11 MAIN HTG HWC PUMP (1MB225)	M7	MB225Q	MB225Q	0
1TB12-3	1PUMPWBP11	11 CW WTRBX PRMG PP (1M0608)	M7	MBP08Q	MBP08Q	0
1TB12-3	1PUMPWBP12	12 CW WTRBX PRMG PP (1M0609)	M7	MBP09Q	MBP09Q	0
1TB12-3	1PUMPWBPSWP11	11 CW WTRBX PRMG PP SEAL WTR PUMP (1M0610)	M7	MBP10Q	MBP10Q	0
1TB12-3	1PUMPWBPSWP12	12 CW WTRBX PRMG PP SEAL WTR PUMP (1M0611)	M7	MBP11Q	MBP11Q	0
1TB27-7	0PUMPBSTR9600	0 FP BSTR PUMP # 9600 (1M0663)	M7	MBP63Q	MBP63Q	0
1TB27-5W	1PUMPWOSMPTB11	TURB AREA OILY SUMP 11 PUMP 11 (1M0667)	M7	MBP67Q	MBP67Q	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-5W	1PUMPWOSMPTB12	TURB AREA OILY SUMP 11 PUMP 12 (1M0668)	M7	MBP68Q	MBP68Q	0
1TB12-2 (CP)	1PUMPM5BD11	11 AUX BD TK PUMP (1M0671)	M7	MBP71Q	MBP71Q	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	M7	MMP07Q	MMP07Q	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	M7	MMP13Q	MMP13Q	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	M7	MMP14Q	MMP14Q	0
1TB12-3	1PUMP2325	GEN H2 SEAL OIL SYS MAIN PUMP (1M0620)	M7	MMP20Q	MMP20Q	0
1TB12-3	1PUMP4624	GEN H2 SEAL OIL SYS RECIRC PUMP (1M0621)	M7	MMP21Q	MMP21Q	0
1TB12-3	1PUMP2316	MG H2 SEAL OIL VACUUM PUMP (1M0622)	M7	MMP22Q	MMP22Q	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	M7	MMP36Q	MMP36Q	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	M7	MMP37Q	MMP37Q	0
1TB12-2	1PUMPHDVLOP11A	11A HTR DRN PP LO CLR PP (1M0676)	M7	MMP76Q	MMP76Q	0
1TB12-2	1PUMPHDVLOP11B	11B HTR DRN PP LO CLR PP (1M0677)	M7	MMP77Q	MMP77Q	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	M7	MVP02Q	MVP02Q	0
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	M7	MVP03Q	MVP03Q	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	M7	MVP04Q	MVP04Q	0
1TB12-2	1MOV4652	14 STEAM LEAD DR	M7	MVP17Q	MVP17Q	0
1TB12-2	1MOV4651	12 STEAM LEAD DR	M7	MVP18Q	MVP18Q	0
1TB12-2	1MOV5090	11 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M7	MVP28Q	MVP28Q	0
1TB12-4	1MOV4658	MN CONT VLVS BEFORE SEAT DRN	M7	MVP29Q	MVP29Q	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	M7	MVP30Q	MVP30Q	0
1TB12-4	1MOV4656	1 GS MS SEAL REG BYP MOV	M7	MVP31Q	MVP31Q	0
1TB12-4	1MOV4657	1 GS SEAL DUMP BYP MOV	M7	MVP32Q	MVP32Q	0
1TB12-2	1MOV5089	11 SGFP LP STOP ABOVE SEAT DRN	M7	MVP38Q	MVP38Q	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	M7	MVP40Q	MVP40Q	0
1TB12-2	1MOV5088	11 SGFP HP STOP BELOW SEAT DRN	M7	MVP44Q	MVP44Q	0
1TB12-2	1MOV5087	11 SGFP HP STOP ABOVE SEAT DRN	M7	MVP46Q	MVP46Q	0
1TB12-2	1MOV5091	1FW SG FD PP 1ST STG EXH DRN	M7	MVP49Q	MVP49Q	0
1TB12-4	1MOV4026	MS TO 11 MSR 2ND STG	M7	MVP51Q	MVP51Q	0
1TB27-6	1MOV4018	MS TO 11 MSR 2ND STG CONT	M7	MVP52Q	MVP52Q	0
1TB27-6	1MOV4019	EXTRACTION STEAM TO MOISTURE SEPARATOR R	M7	MVP53Q	MVP53Q	0
1TB27-1	1XL-208-118	LTG XFMR L-208-118 TURB BLDG EL 27 FT	M7	TMP39Q	TMP39Q	0
1TB27-1	1XDT16	LTG DISTR XFMR 16	M7	TMP47Q	TMP47Q	0
1TB12-2	1FANFPTLOCDTRE11	11 SGFP LO COND VAP EXT (1M0612)	M7	VAP12Q	VAP12Q	0
1TB12-2	1FANFPTLORESVE11	11 SGFP LO RESV VAPOR EXT (1M0615)	M7	VAP15Q	VAP15Q	0
1TB12-4	1FANGSPACK11	11 GLAND STEAM PACKING EXH (1M0633)	M7	VAP33Q	VAP33Q	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	M7	VAP59Q	VAP59Q	0
1TB12-2	1FANHVACHDPS11	11 HTR DRN PUMP AREA CLR (1M0678)	M7	VAP78Q	VAP78Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BU313Q	BU313Q	0
1TB27-1	1MCC116T	MCC 116T	M8	BUM16R	BUM16R	0
1TB12-2 (CP)	1RECEPTMCC116A	POWER RECEPT MCC116 (1W48, 1W49, 1W50, 1W51)	M8	BUQ05Q	BUQ05Q	0
1TB12-2 (CP)	1PNL1C54	12B AMERTAP CNTL PNL 1C54	M8	BUQ23Q	BUQ23Q	0
1TB12-2 (CP)	1PNL1C55	13A AMERTAP CNTL PNL 1C55	M8	BUQ24Q	BUQ24Q	0
1TB12-2 (CP)	1PNL1C56	13B AMERTAP CNTL PNL 1C56	M8	BUQ25Q	BUQ25Q	0
1TB27-1	1BKR52-11602	MCC 116T CIRC H2O PP 14 DISCH 1MOV-5237 BKR	M8	CBQ020	CBQ020	0
1TB27-1	1BKR52-11603	MCC 116T CIRC H2O PP 15 DISCH 1MOV-5241 BKR	M8	CBQ030	CBQ030	0
1TB27-1	1BKR52-11604	MCC 116T CIRC H2O PP 16 DISCH 1MOV-5245 BKR	M8	CBQ040	CBQ040	0
1TB27-1	1BKR52-11605	MCC 116T PWR RECEPTACLE BKR	M8	CBQ050	CBQ050	0
1TB27-1	1BKR52-11606	MCC 116T COND PP 12 LUBE OIL PP BKR	M8	CBQ060	CBQ060	0
1TB27-1	1BKR52-11607	MCC 116T COND PP 13 LUBE OIL PP BKR	M8	CBQ070	CBQ070	0
1TB27-1	1BKR52-11608	MCC 116T CIRC WTR PRIMING PP 13 BKR	M8	CBQ080	CBQ080	0
1TB27-1	1BKR52-11609	MCC 116T UNIT HTR 14 BKR	M8	CBQ090	CBQ090	0
1TB27-1	1BKR52-11610	MCC 116T CIRC WTR PRIMING PP RECIRC SEAL PP	M8	CBQ100	CBQ100	0
1TB27-1	1BKR52-11611	MCC 116T UNIT HTR 15 BKR	M8	CBQ110	CBQ110	0
1TB27-1	1BKR52-11612	MCC 116T SGFP 12 LUBE OIL CONDITIONER BKR	M8	CBQ120	CBQ120	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	M8	CBQ130	CBQ130	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	M8	CBQ140	CBQ140	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-11615	MCC 116T SGFP 12 OIL VAPOR EXTR BKR	M8	CBQ150	CBQ150	0
1TB27-1	1BKR52-11616	MCC 116T 13 KV SERVICE BUSES 11 & 12 SERVICE X	M8	CBQ160	CBQ160	0
1TB27-1	1BKR52-11617	MCC 116T SPARE RCP MTR OIL LIFT PP BKR	M8	CBQ170	CBQ170	0
1TB27-1	1BKR52-11618	MCC 116T CNDSR VACUUM BKR 1MOV-6717 BKR	M8	CBQ180	CBQ180	0
1TB27-1	1BKR52-11620	MCC 116T CNDSR BULLETING PP 11 BKR	M8	CBQ200	CBQ200	0
1TB27-1	1BKR52-11621	MCC 116T TURB LUBE OIL CONDITIONER 11 BKR	M8	CBQ210	CBQ210	0
1TB27-1	1BKR52-11623	MCC 116T 12B AMERTAP CONTR PNL 1C54 BKR	M8	CBQ230	CBQ230	0
1TB27-1	1BKR52-11624	MCC 116T 13A AMERTAP CONTR PNL 1C55 BKR	M8	CBQ240	CBQ240	0
1TB27-1	1BKR52-11625	MCC 116T 13B AMERTAP CONTR PNL 1C56 BKR	M8	CBQ250	CBQ250	0
1TB27-1	1BKR52-11626	MCC 116T UNIT HTR 16 BKR	M8	CBQ260	CBQ260	0
1TB27-1	1BKR52-11627	MCC 116T UNIT HTR 17 BKR	M8	CBQ270	CBQ270	0
1TB27-1	1BKR52-11628	MCC 116T SGFP 12 HP STOP VLV DRN A 1MOV-5092	M8	CBQ280	CBQ280	0
1TB27-1	1BKR52-11629	MCC 116T RHT STM DRN 1MOV-4022 BKR	M8	CBQ290	CBQ290	0
1TB27-1	1BKR52-11630	MCC 116T RHT STM DRN 1MOV-4023 BKR	M8	CBQ300	CBQ300	0
1TB27-1	1BKR52-11631	MCC 116T STM SEAL AUX SUPP 1MOV-4678(SG) BKR	M8	CBQ310	CBQ310	0
1TB27-1	1BKR52-11633	MCC 116T STM PACK EXH 12 BKR	M8	CBQ330	CBQ330	0
1TB27-1	1BKR52-11635	MCC 116T AUX BOILER FUEL PP 12 BKR	M8	CBQ350	CBQ350	0
1TB27-1	1BKR52-11636	MCC 116T COND VACUUM RECIRC SEAL PP 13 BKR	M8	CBQ380	CBQ380	0
1TB27-1	1BKR52-11637	MCC 116T COND VACUUM RECIRC SEAL PP 14 BKR	M8	CBQ370	CBQ370	0
1TB27-1	1BKR52-11638	MCC 116T SGFP 12 LP STOP VLV DRN A 1MOV-5094	M8	CBQ380	CBQ380	0
1TB27-1	1BKR52-11639	MCC 116T LTG XFMR (L-208-112) BKR	M8	CBQ390	CBQ390	0
1TB27-1	1BKR52-11640	MCC 116T SGFP 12 EXH 1MOV-3981 BKR	M8	CBQ400	CBQ400	0
1TB27-1	1BKR52-11641	MCC 116T TURBINE LO XFMR PP 11 BKR	M8	CBQ410	CBQ410	0
1TB27-1	1BKR52-11642	MCC 116T TURB AREA SUMP 11 PP 11 BKR	M8	CBQ420	CBQ420	0
1TB27-1	1BKR52-11643	MCC 116T TURB AREA SUMP 11 PP 12 BKR	M8	CBQ430	CBQ430	0
1TB27-1	1BKR52-11644	MCC 116T SGFP 12 HP STOP VLV DRN 1MOV-5093 B	M8	CBQ440	CBQ440	0
1TB27-1	1BKR52-11645	MCC 116T LTG XFMR (L-208-119) BKR	M8	CBQ450	CBQ450	0
1TB27-1	1BKR52-11646	MCC 116T SGFP 12 LP STOP VLV DRN 1MOV-5095 BK	M8	CBQ460	CBQ460	0
1TB27-1	1BKR52-11647	MCC 116T DISTR XFMR 116 BKR	M8	CBQ470	CBQ470	0
1TB27-1	1BKR52-11648	MCC 116T PWR RECEPTACLE BKR	M8	CBQ480	CBQ480	0
1TB27-1	1BKR52-11649	MCC 116T SGFP 12 FIRST STG DRN 1MOV-5096 BKR	M8	CBQ490	CBQ490	0
1TB27-1	1BKR52-11650	MCC 116T UNIT HTR 18 BKR	M8	CBQ500	CBQ500	0
1TB27-1	1BKR52-11651	MCC 116T RHT STM SUPP 1MOV-4025 BKR	M8	CBQ510	CBQ510	0
1TB27-1	1BKR52-11652	MCC 116T MS TO MS RHTR 12 1MOV-4017 BKR	M8	CBQ520	CBQ520	0
1TB27-1	1BKR52-11653	MCC 116T EXTR STM TO MS RHTR 12 1MOV-4020 BK	M8	CBQ530	CBQ530	0
1TB27-1	1BKR52-11655	MCC 116T HYD PWR UNIT HTR 11 BKR	M8	CBQ550	CBQ550	0
1TB27-1	1BKR52-11656	MCC 116T AUX BD TK PP 12 BKR	M8	CBQ560	CBQ560	0
1TB27-1	1BKR52-11657	MCC 116T TURB BLDG SUPP FAN 15 BKR	M8	CBQ570	CBQ570	0
1TB27-1	1BKR52-11658	MCC 116T TURB BLDG SUPP FAN 16 BKR	M8	CBQ580	CBQ580	0
1TB27-1	1BKR52-11659	MCC 116T COND PP 12 FAN BKR	M8	CBQ590	CBQ590	0
1TB27-1	1BKR52-11660	MCC 116T COND PP 13 FAN BKR	M8	CBQ600	CBQ600	0
1TB27-1	1BKR52-11661	MCC 116T TURB BLDG HIGH BAY LTG BKR	M8	CBQ610	CBQ610	0
1TB27-1	1BKR52-11662	MCC 116T TURB BLDG LOW BAY LTG BKR	M8	CBQ620	CBQ620	0
1TB27-1	1BKR52-11663	MCC 116T TURB AREA SUMP 12 PP 11 BKR	M8	CBQ630	CBQ630	0
1TB27-1	1BKR52-11664	MCC 116T TURB AREA SUMP 12 PP 12 BKR	M8	CBQ640	CBQ640	0
1TB27-1	1BKR52-11665	MCC 116T LIGHTING TRANSFORMER 1L26 L-208-126	M8	CBQ650	CBQ650	0
1TB27-1	1BKR52-11667	MCC 116T TURBINE BLDG HTG CIRC PP 11 BKR	M8	CBQ670	CBQ670	0
1TB27-1	1BKR52-11668	MCC 116T CR & CSR CHILLED WTR SUPP PP #12 BK	M8	CBQ680	CBQ680	0
1TB27-1	1BKR52-11669	MCC 116T XFMR 1X116 BKR	M8	CBQ690	CBQ690	0
1TB27-1	1BKR52-11670	MCC 116T MTR OPER DOOR 804 BKR	M8	CBQ700	CBQ700	0
1TB27-1	1BKR52-11671	MCC 116T COND COLLECTION TK 11 PP 11 BKR	M8	CBQ710	CBQ710	0
1TB27-1	1BKR52-11672	MCC 116T COND COLLECTION TK 11 PP 12 BKR	M8	CBQ720	CBQ720	0
1TB27-1	1BKR52-11673	MCC 116T SERVICE XFMR (P-13000-1) COOLING B BK	M8	CBQ730	CBQ730	0
1TB27-1	1BKR52-11674	MCC 116T SERVICE XFMR (U-4000-11) COOLING B BK	M8	CBQ740	CBQ740	0
1TB27-1	1BKR52-11675	MCC 116T SERVICE XFMR (U-4000-21) COOLING B BK	M8	CBQ750	CBQ750	0
1TB27-1	1BKR52-11676	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12A	M8	CBQ760	CBQ760	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-1	1BKR52-11677	MCC 116T HTR DRN PP 12 LUBE OIL COOLER PP 12B	M8	CBQ77O	CBQ77O	0
1TB27-1	1BKR52-11678	MCC 116T HTR DRN PP 12 LUBE OIL COOLER FAN B	M8	CBQ78O	CBQ78O	0
1TB27-1	1BKR52-11601	MCC 116T MN FDR BKR	M8	M8BCBM	CBQ01T	0
1TB12-3	1PUMPSTC12	12 MG STATOR WTR CLG PUMP (1MB316)	M8	MB315Q	MB315Q	0
1TB12-4	1PUMPEHC12	12 MT EHC HYD UNIT PUMP (1MB316)	M8	MB316Q	MB316Q	0
1TB12-2 (CP)	1PUMPCAR14	14 CAR VAC PP (1MB317)	M8	MB317Q	MB317Q	0
1TB12-3	1PUMPWBP13	13 CW WTRBX PRMG PP (1M1608)	M8	MBQ08Q	MBQ08Q	0
1TB12-3	1PUMPWBPSWP13	13 CW WTRBX PRMG PP SEAL WTR PUMP (1M1610)	M8	MBQ10Q	MBQ10Q	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	M8	MBQ13Q	MBQ13Q	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	M8	MBQ14Q	MBQ14Q	0
1TB27-7	0PUMPRCPSARE	SPARE RCP MTR OIL LIFT PP MTR (0M1617)	M8	MBQ17Q	MBQ17Q	0
1TB27-5E	1PUMPSWBSTR11	11 SW BOOSTER PUMP (1M1620)	M8	MBQ20Q	MBQ20Q	0
1TB12-2 (CP)	1PUMPSMP11TB11	11 TURB BLDG SUMP 11 PP (1M1642)	M8	MBQ42Q	MBQ42Q	0
1TB12-2 (CP)	1PUMPSMP11TB12	11 TURB BLDG SUMP PP 12 (1M1643)	M8	MBQ43Q	MBQ43Q	0
1TB12-2 (CP)	1PUMPSMP12TB11	12 AUX BD TK PUMP (1M1656)	M8	MBQ56Q	MBQ56Q	0
1TB27-5E	1PUMPSMP12TB11	12 TURB BLDG SUMP PP 11 (1M1663)	M8	MBQ63Q	MBQ63Q	0
1TB27-5E	1PUMPSMP12TB12	12 TURB BLDG SUMP 12 PP (1M1664)	M8	MBQ64Q	MBQ64Q	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	M8	MMQ06Q	MMQ06Q	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	M8	MMQ07Q	MMQ07Q	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	M8	MMQ36Q	MMQ36Q	0
1TB12-2 (CP)	1PUMPCARSWP14	14 CAR SEAL WTR PUMP (1M1637)	M8	MMQ37Q	MMQ37Q	0
2TB27-8	0PUMPPHTB11	11 HTG TURB BLDG HWC PUMP (0M1667)	M8	MMQ67Q	MMQ67Q	0
1TB12-2	1PUMPHDVL0P12A	12A HTR DRN PP LO CLR PP (1M1676)	M8	MMQ76Q	MMQ76Q	0
1TB12-2	1PUMPHDVL0P12B	12B HTR DRN PP LO CLR PP (1M1677)	M8	MMQ77Q	MMQ77Q	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	M8	MVQ02Q	MVQ02Q	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	M8	MVQ03Q	MVQ03Q	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	M8	MVQ04Q	MVQ04Q	0
1TB27-3	1MOV6717	COND VAC BKR	M8	MVQ18Q	MVQ18Q	0
1TB12-2	1MOV5092	12 SGFP HP STOP ABOVE SEAT DRN	M8	MVQ28Q	MVQ28Q	0
1TB12-4	1MOV4022	11 MSR 2ND STG RHT SUPP DRN	M8	MVQ29Q	MVQ29Q	0
1TB12-4	1MOV4023	12 MSR 2ND STAGE RHT SUPP DRN	M8	MVQ30Q	MVQ30Q	0
1TB12-4	1MOV4678	AUX STM SEAL SUPPLY VLV	M8	MVQ31Q	MVQ31Q	0
1TB12-2	1MOV5094	12 SGFP LP STOP ABOVE SEAT DRN	M8	MVQ38Q	MVQ38Q	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	M8	MVQ40Q	MVQ40Q	0
1TB12-2	1MOV5093	12 SGFP HP STOP BELOW SEAT DRN	M8	MVQ44Q	MVQ44Q	0
1TB12-2	1MOV5095	12 SGFP LP STOP BELOW SEAT & CV CHEST DRN	M8	MVQ46Q	MVQ46Q	0
1TB12-2	1MOV5096	12 SGFP 1ST STG EXH DRN	M8	MVQ49Q	MVQ49Q	0
1TB12-4	1MOV4025	MS TO 11 MSR 2ND STG	M8	MVQ51Q	MVQ51Q	0
1TB27-5W	1MOV4017	MS TO 12 MSR 2ND STG CONT	M8	MVQ52Q	MVQ52Q	0
1TB27-6	1MOV4020	EXTRACTION STEAM TO MOISTURE SEPARATOR R	M8	MVQ53Q	MVQ53Q	0
1TB27-1	1XL-208-112	LTG XFMR L-208-112 TURB BLDG EL 27 FT	M8	TMQ39Q	TMQ39Q	0
1TB27-1	1XDT116	LTG DISTR XFMR 116	M8	TMQ47Q	TMQ47Q	0
1TB12-2	1FANFPTLOCDTRE12	12 SGFP LO COND FAN (1M1612)	M8	VAQ12Q	VAQ12Q	0
1TB12-2	1FANFPTLORESVE12	12 SGFP LO RESV VAPOR EXT (1M1615)	M8	VAQ15Q	VAQ15Q	0
1TB12-4	1M1633	12 STM PACKING EXH MTR (1M1633)	M8	VAQ33Q	VAQ33Q	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	M8	VAQ59Q	VAQ59Q	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	M8	VAQ60Q	VAQ60Q	0
1TB12-2	1M1678	12 HDV HTR DRN PP LUBE OIL CLR FAN 12 MTR (1M1	M8	VAQ78Q	VAQ78Q	0
1TB27-7	1PS4453	11 CD BOOSTER PP SUCTION LOW PS	MC	MCBP10	PS453R	0
1TB27-7	1PS4513	COND BOOSTER PUMP 11 PS	MC	MCBP10	PS513R	0
1TB27-7	1PS4480	12 CD BOOSTER PP SUCTION LOW PS	MC	MCBP20	PS460R	0
1TB27-7	1PS4514	COND BOOSTER PUMP 12 PS	MC	MCBP20	PS514R	0
1TB12-2	1PS4467	13 CD BOOSTER PP SUCTION LOW PS	MC	MCBP30	PS467R	0
1TB12-2	1PS4468	13 CD BOOSTER PP DISCHARGE LOW PS	MC	MCBP30	PS468D	0
1TB12-2	1PS4515	COND BOOSTER PUMP 13 PS	MC	MCBP30	PS515R	0
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCCOMM	HXSSEB	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1HXSTMSEALEXH11	11 CD STM SEAL EXH CNDSR	MC	MCGCOMM	HXSSEP	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AB	0
1TB12-3	1HXCDDC11A	11A COND/FW DRN CLR	MC	MCDC10	HXD1AP	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BB	0
1TB12-3	1HXCDDC11B	11B COND/FW DRN CLR	MC	MCDC20	HXD1BP	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CB	0
1TB12-3	1HXCDDC11C	11C COND/FW DRN CLR	MC	MCDC30	HXD1CP	0
1TB27-4	1HXCDLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AB	0
1TB27-4	1HXCDLPH11A	11A LP COND/FW HTR	MC	MCFH10	HX11AP	0
1TB27-4	1HXCDLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AB	0
1TB27-4	1HXCDLPH12A	12A LP COND/FW HTR	MC	MCFH10	HX12AP	0
1TB27-4	1HXCDLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BB	0
1TB27-4	1HXCDLPH11B	11B LP COND/FW HTR	MC	MCFH20	HX11BP	0
1TB27-4	1HXCDLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BB	0
1TB27-4	1HXCDLPH12B	12B LP COND/FW HTR	MC	MCFH20	HX12BP	0
1TB27-4	1HXCDLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CB	0
1TB27-4	1HXCDLPH11C	11C LP COND/FW HTR	MC	MCFH30	HX11CP	0
1TB27-4	1HXCDLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CB	0
1TB27-4	1HXCDLPH12C	12C LP COND/FW HTR	MC	MCFH30	HX12CP	0
1TB12-1	1HXCDLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AB	0
1TB12-1	1HXCDLPH13A	13A LP COND/FW HTR	MC	MCFH40	HX13AP	0
1TB27-2	1HXCDLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AB	0
1TB27-2	1HXCDLPH14A	14A LP COND/FW HTR	MC	MCFH40	HX14AP	0
1TB12-1	1HXCDLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BB	0
1TB12-1	1HXCDLPH13B	13B LP COND/FW HTR	MC	MCFH50	HX13BP	0
1TB27-2	1HXCDLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BB	0
1TB27-2	1HXCDLPH14B	14B LP COND/FW HTR	MC	MCFH50	HX14BP	0
1TB27-7	1TCV1619	11 CBP LO CLR TCV	MC	MCL015	C7619P	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCL015	HXM11B	0
1TB27-7	1HXCDBSTRLO11	11 CD BSTR PUMP LUBE OIL COOLER	MC	MCL015	HXM11P	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCL015	HXS1AB	0
1TB27-7	1HXCBP-SW-11A	CBP-11 SEAL WATER COOLER 11A	MC	MCL015	HXS1AP	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCL015	HXS1BB	0
1TB27-7	1HXCBP-SW-11B	CBP-11 SEAL WATER COOLER 11B	MC	MCL015	HXS1BP	0
1TB27-7	1TCV1620	12 CBP LO CLR TEMP TCV	MC	MCL025	C7620P	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCL025	HXM12B	0
1TB27-7	1HXCDBSTRLO12	12 CD BSTR PUMP LO CLR	MC	MCL025	HXM12P	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCL025	HXS2AB	0
1TB27-7	1HXCBP-SW-12A	CBP-12 SEAL WATER COOLER 12A	MC	MCL025	HXS2AP	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCL025	HXS2BB	0
1TB27-7	1HXCBP-SW-12B	CBP-12 SEAL WATER COOLER 12B	MC	MCL025	HXS2BP	0
1TB12-2	1TCV1621	13 CBP LO CLR TCV	MC	MCL035	C7621P	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCL035	HXM13B	0
1TB12-2	1HXCDBSTRLO13	13 CD BSTR PUMP LO CLR	MC	MCL035	HXM13P	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCL035	HXS3AB	0
1TB12-2	1HXCBP-SW-13A	CBP-13 SEAL WATER COOLER 13A	MC	MCL035	HXS3AP	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCL035	HXS3BB	0
1TB12-2	1HXCBP-SW-13B	CBP-13 SEAL WATER COOLER 13B	MC	MCL035	HXS3BP	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV4380	0
1TB27-4	1I/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV4380	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV4380	0
1TB27-4	1CV4438	COND PP'S MINI-FLOW CV	MC	MCMN10	CV438P	0
1TB27-4	1I/P4438	COND PMP'S MINIMUM FLOW VLV CON	MC	MCMN10	CV438P	0
1TB27-4	1SV4438	COND PUMPS MIN FLOW VLV CONTRL	MC	MCMN10	CV438P	0
1TB27-5E	1FT4438A	CD GLAND STEAM CONDENSER MINI FLOW CONTR	MC	MCMN10	FT38AR	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV4860	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB27-3	1SV4486	COND BSTR PMPS MIN FLOW CONT	MC	MCMN40	CV486O	0
1TB27-3	1CV4486	CBP'S MINI FLOW CV	MC	MCMN40	CV486P	0
1TB27-3	1SV4486	COND BSTR PMPS MIN FLOW CONT	MC	MCMN40	CV486P	0
1TB12-3	1FIC4486	CD BOOSTER PP MINI FLOW CONTROL FIC	MC	MCMN40	FC486R	0
1TB12-1	1FY4486	CD BOOSTER PP MINI FLOW CONTROL FY	MC	MCMN40	FY486R	0
1TB12-1	1FT4484	11 SGFP SUCT FLO XMTR	MC	MCMN51	FT484R	0
1TB12-1	1FY4484	11 FW SGFP SUCT FLO DEVICE	MC	MCMN51	FY484R	0
1TB12-2	1FT4485	12 FW SGFP SUCT FLO XMTR	MC	MCMN52	FT485R	0
1TB12-1	1FY4485	11 & 12 COND BSTR PP MINI FLO DEVICE	MC	MCMN52	FY485R	0
1TB12-2	1HXCDPPOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11B	0
1TB12-2	1HXCDPPOCLR11	11 CD PP LO CLR	MC	MCPP10	HXL11P	0
1TB12-3 (CP)	1YS4414	COND PMP MOTOR 11 OIL STRAINER	MC	MCPP10	YS414P	0
1TB12-2	1HXCDPPOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12B	0
1TB12-2	1HXCDPPOCLR12	12 CD PP LO CLR	MC	MCPP20	HXL12P	0
1TB12-3 (CP)	1YS4421	COND PMP MOTOR 12 OIL STRAINER	MC	MCPP20	YS421P	0
1TB12-2	1HXCDPPOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13B	0
1TB12-2	1HXCDPPOCLR13	13 CD PP LO CLR	MC	MCPP30	HXL13P	0
1TB12-3 (CP)	1YS4428	COND PMP MOTOR 13 OIL STRAINER	MC	MCPP30	YS428P	0
1TB12-3 (CP)	1PUMPCDMTRLO11	11 CD PP LO CLR PP (1M0607)	MC	MML11R	MML11R	0
1TB12-3 (CP)	1PUMPCDMTRLO12	12 CD PP LO CLR PP (1M1606)	MC	MML12R	MML12R	0
1TB12-3 (CP)	1PUMPCDMTRLO13	13 CD PP LO CLR PP (1M1607)	MC	MML13R	MML13R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11R	MYB11R	0
1TB27-7	1PUMPCBP11	CD CBP 11 (1MA204)	MC	MYB11S	MYB11S	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12R	MYB12R	0
1TB27-7	1PUMPCBP12	CD CBP 12 (1MA205)	MC	MYB12S	MYB12S	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13R	MYB13R	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	MC	MYB13S	MYB13S	0
1TB12-3 (CP)	1PUMPCD11	11 CONDENSATE PUMP (1MA207)	MC	MYC11R	MYC11R	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	MC	MYC12R	MYC12R	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	MC	MYC13R	MYC13R	0
1TB12-3	1PUMPCBP-LO-11	CBP-11 LUBE OIL PUMP	MC	NDL11R	NDL11R	0
1TB12-3	1PUMPCBP-LO-12	CBP-12 LUBE OIL PUMP	MC	NDL12R	NDL12R	0
1TB12-3	1PUMPCBP-LO-13	CBP-13 LUBE OIL PUMP	MC	NDL13R	NDL13R	0
1TB27-7	1TE1619	11 CD CBP LUBE OIL CLR TE	MC	TE619R	TE619R	0
1TB27-7	1TE1620	12 CD CBP LUBE OIL CLR OUT TE	MC	TE620R	TE620R	0
1TB12-2	1TE1621	13 CD CBP LUBE OIL CLR OUT TE	MC	TE621R	TE621R	0
1TB12-3 (CP)	1M0659	11 COND PP LUBE OIL COOLER FAN MTR (1M0659)	MC	VAL11R	VAL11R	0
1TB12-3 (CP)	1M1659	12 COND PP LUBE OIL COOLER FAN MTR (1M1659)	MC	VAL12R	VAL12R	0
1TB12-3 (CP)	1M1660	13 COND PP LUBE OIL COOLER FAN MTR (1M1660)	MC	VAL13R	VAL13R	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105O	C3105O	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105O	C3105O	0
1TB27-2	1CV1105	11 SG FD REG VLV BYP	MN	C3105P	C3105P	0
1TB27-2	1I/P1105	STM GEN 11 FDWTR BY-PASS VALVE	MN	C3105P	C3105P	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106O	C3106O	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106O	C3106O	0
1TB27-2	1CV1106	12 SG FD REG VALVE BYPASS	MN	C3106P	C3106P	0
1TB27-2	1I/P1106	STM GEN 12 FDWTR BY-PASS VALVE	MN	C3106P	C3106P	0
1TB27-1	1BKR52-10613	MCC 106T SGFP 11 MN OIL PP BKR	MN	CB013T	CB013T	0
1TB27-1	1BKR52-10614	MCC 106T SGFP 12 MN OIL PP BKR	MN	CB014T	CB014T	0
1TB27-1	1BKR52-11613	MCC 116T SGFP 11 AUX OIL PP BKR	MN	CB113T	CB113T	0
1TB27-1	1BKR52-11614	MCC 116T SGFP 12 AUX OIL PP BKR	MN	CB114T	CB114T	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	CV484O	CV484O	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	CV484O	CV484O	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	CV484O	CV484O	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	CV4840	CV4840	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	CV4840	CV4840	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	CV4840	CV4840	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	CV4840	CV4840	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	CV4840	CV4840	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	CV4850	CV4850	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	CV4850	CV4850	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	CV4850	CV4850	0
1TB12-2	1/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	CV4850	CV4850	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	CV4850	CV4850	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	CV4850	CV4850	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	CV4850	CV4850	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	CV4850	CV4850	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	CV4850	CV4850	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BR	MB11BR	0
1TB12-2	1PUMPFPTLOMOP11B	11B SGFP AUX OIL PUMP (1M1613)	MN	MB11BS	MB11BS	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BR	MB12BR	0
1TB12-2	1PUMPFPTLOMOP12B	12B SGFP AUX OIL PUMP (1M1614)	MN	MB12BS	MB12BS	0
1TB12-2	1PUMPFPTLOMOP11A	11A SGFP MAIN OIL PUMP (1M0613)	MN	MM11AR	MM11AR	0
1TB12-2	1PUMPFPTLOMOP12A	12A SGFP MAIN OIL PUMP (1M0614)	MN	MM12AR	MM12AR	0
1TB27-5E	1PUMPCDSGFPBSTR1	11 CD SGFP SEAL WTR BSTR PP (1M0112)	MN	MML11R	MML11R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12R	MML12R	0
1TB12-4	1PUMPCDSGFPBSTR1	12 CD SGFP SEAL WTR BSTR PP (1M0152)	MN	MML12S	MML12S	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MN	MN011R	MN011R	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MN	MN012R	MN012R	0
1TB27-1	1MCC101AT	MCC 101AT	MN	MNF71B	BU01AR	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	MN	MNF71B	CB101T	0
1TB27-1	1MCC101BT	MCC 101BT	MN	MNF72B	BU01BR	0
1TB27-1	1BKR52-10141	MCC 101BT MN FDR BKR	MN	MNF72B	CB141T	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AB	0
1TB27-2	1HXFWHPH16A	16A HP FEEDWATER HTR	MN	MNFW30	HX16AP	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BB	0
1TB27-2	1HXFWHPH16B	16B HP FEEDWATER HTR	MN	MNFW40	HX16BP	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	MNFW52	VT1HCP	0
1TB12-2	1CV3959A	11 FW SGFPT HP STOP VLV	MN	MNFW52	VT1HSP	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	MNFW53	VT1LCP	0
1TB12-2	1CV3961A	11 FW SGFPT LP STIP VLV	MN	MNFW53	VT1LSP	0
1TB12-2	1LS4705	11 GS GEN FEED PP TURBINE CASING HIGH LS	MN	MNFW54	LS705R	0
1TB27-3	1MOV3964	11 SGF PP TURB EXH	MN	MNFW54	MV964P	0
1TB12-2	1PSS5002	BRG OIL HDR PS TO LOW PRESS TURB TRIPS	MN	MNFW54	PS002R	0
1TB12-2	1PSS5025	11 FW SGFPT ACTIVE FRNT BTHR BRG PS	MN	MNFW54	PS025R	0
1TB12-2	1PSS5027	11 FW SGFPT INACTIVE REAR THR BRG PS	MN	MNFW54	PS027R	0
1TB12-2	1SV5010	SGFP 11 TURB TRIP & RESET	MN	MNFW54	SV010T	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704P	0
1TB12-2	1CV4704	SGFP 11 PP SIDE SEAL BACK PRESS CV	MN	MNFW57	C7704T	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707P	0
1TB12-2	1CV4707	SGFP 11 TURB SIDE SEAL BACK PRESS CV	MN	MNFW57	C7707T	0
1TB12-2	1CV4702	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV702P	0
1TB12-2	1CV4705	11 SGFP INJECT SEAL WTR CV	MN	MNFW57	CV705P	0
1TB12-2	1PDC4702	11 CD SGFP INJECTION PDC	MN	MNFW57	PC702R	0
1TB12-2	1PC4704	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC704R	0
1TB12-2	1PDC4705	11 CD SGFP INJECTION PDC	MN	MNFW57	PC705R	0
1TB12-2	1PC4707	11 FW SGFP INJECTION DISCHARGE PC	MN	MNFW57	PC707R	0
1TB12-2	1CV4704OP	SGFP 11 PP SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX704R	0
1TB12-2	1CV4707OP	SGFP 11 TURB SIDE SEAL BACK PRESS CV OPER	MN	MNFW57	PX707R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011B	0
1TB12-2	1HXFPTLO-11	SGFP TURB LUBE OIL COOLER 11	MN	MNFW58	HX011P	0
1TB12-2	1CV4484	11 SGFP MINI FLOW	MN	MNFW59	CV484P	0
1TB12-2	1FY4484A	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484B	SGFP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1FY4484C	SG FEED PUMP 11 MIN FLOW CONTROL	MN	MNFW59	CV484P	0
1TB12-2	1I/P4484	STEAM GENERATOR FEED PUMP 11 MINIFLOW	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484A	A/S 11 SGFP MINFLW CV POSIT	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484B	A/S 11 SGFP MINFLW CLOSE SV	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484C	A/S 11 SGFP MINFLW SNP RY	MN	MNFW59	CV484P	0
1TB12-2	1PCV4484D	A/S 11 SGFP MINFLW CONT	MN	MNFW59	CV484P	0
1TB12-2	1SV4484	SGFP 11 TURB TRIP & RESET	MN	MNFW59	CV484P	0
1TB12-1	1FT4484A	11 FW SGFP MINI FLO XMTR	MN	MNFW59	FT84AR	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	MNFW62	VT2HCP	0
1TB12-2	1CV3974A	12 FW SGFPT HP STOP VLV	MN	MNFW62	VT2HSP	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	MNFW63	VT2LCP	0
1TB12-2	1CV3980A	12 FW SGFPT LP STOP VLV	MN	MNFW63	VT2LSP	0
1TB12-2	1LS4711	12 GS GEN FEED PP TURBINE CASING LS	MN	MNFW64	LS711R	0
1TB27-3	1MOV3981	12 SGF PP TURB EXH	MN	MNFW64	MV981P	0
1TB12-2	1PS5051	LOW BRG OIL PRESS TURB TRIP PS	MN	MNFW64	PS051R	0
1TB12-2	1PS5074	12 FW SGFPT ACTIVE FRNT THR BRG PS	MN	MNFW64	PS074R	0
1TB12-2	1PS5076	12 FW SGFPT INACTIVE THR BRG PS	MN	MNFW64	PS076R	0
1TB12-2	1SV5059	SGFP 12 TURB TRIP & RESET	MN	MNFW64	SV059T	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710P	0
1TB12-2	1CV4710	12 SGFP SEAL DRN REG	MN	MNFW67	C7710T	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713P	0
1TB12-2	1CV4713	12 SGFP SEAL DRN REG	MN	MNFW67	C7713T	0
1TB12-2	1CV4708	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV708P	0
1TB12-2	1CV4711	12 SGFP INJECT SEAL WTR CV	MN	MNFW67	CV711P	0
1TB12-2	1PDC4708	12 CD SGFP INJECTION PDC	MN	MNFW67	PC708R	0
1TB12-2	1PC4710	12 FW SEAL WTR DISCHARGE PC	MN	MNFW67	PC710R	0
1TB12-2	1PDC4711	12 CD SGFP INJECTION PDC	MN	MNFW67	PC711R	0
1TB12-2	1PC4713	12 FW SGFP SEAL WTR DISCHARGE PC	MN	MNFW67	PC713R	0
1TB12-2	1CV4710OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX710R	0
1TB12-2	1CV4713OP	12 SGFP SEAL DRN REG OPER	MN	MNFW67	PX713R	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012B	0
1TB12-2	1HXFPTLO-12	SGFP TURB LUBE OIL COOLER 12	MN	MNFW68	HX012P	0
1TB12-2	1CV4485	12 SGFP MINI FLOW	MN	MNFW69	CV485P	0
1TB12-2	1FY4485A	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485B	SGFP 12 MIN FLOW CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1FY4485C	SG FEED PUMP 12 MIN FLO CONTROL	MN	MNFW69	CV485P	0
1TB12-2	1I/P4485	STEAM GENERATOR FEED PUMP 12 MINIFLOW	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485A	A/S 12 SGFP MINFLW CV POSIT	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485B	A/S 12 SGFP MINFLW CLOSE SV	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485C	A/S 12 SGFP MINFLW SNP RY	MN	MNFW69	CV485P	0
1TB12-2	1PCV4485D	A/S 12 SGFP MINFLW CONT	MN	MNFW69	CV485P	0
1TB12-2	1SV4485	SGFP 12 TURB TRIP & RESET	MN	MNFW69	CV485P	0
1TB12-1	1FT4485A	12 FW SGFP MINI FLO XMTR	MN	MNFW69	FT85AR	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622P	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622P	0
1TB12-2	1CV1622	11 SGFP LUBE OIL TEMP CV	MN	MNSRW1	CT622R	0
1TB12-2	1TIC1622	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW1	CT622R	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623P	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623P	0
1TB12-2	1CV1623	12 SGFP LUBE OIL TEMP CV	MN	MNSRW2	CT623R	0
1TB12-2	1TIC1623	LUBE OIL TEMPERATURE CONTROL	MN	MNSRW2	CT623R	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1PS5042A	12 FW SGFP AUX OIL PP PS	MN	PS42AD	PS42AD	0
1TB12-2	1PS4482	11 & 12 SGFP SUCT LO PS	MN	PS482R	PS482R	0
1TB12-2	1PS4483	11 & 12 SGFP SUCT LO PS	MN	PS483R	PS483R	0
1TB27-5E	1PS4486	CD SGFP SEAL WATER BOOSTER PPS SUCTION PS	MN	PS486R	PS486R	0
1TB12-4	1PS4487	CD SGFP SEAL WATER BOOSTER PPS DISCHARGE	MN	PS487D	PS487D	0
1TB12-2	1PS4490	11 FW SGFP DISCH PS	MN	PS490R	PS490R	0
1TB12-2	1PS4491	11 FW SGFP DISCH PS	MN	PS491R	PS491R	0
1TB12-2	1PS4495	12 FW SGFP DISCH PS	MN	PS495R	PS495R	0
1TB12-2	1PS4496	12 FW SGFP DISCH PS	MN	PS496R	PS496R	0
1TB12-2	1PS4992A	11 FW SGFP AUX OIL PUMP PS	MN	PS92AD	PS92AD	0
1TB12-2	1PY4482	SGFP 11 TURB TRIP & RESET	MN	RY482T	RY482T	0
1TB12-2	1PY4483	SGFP 11 TURB TRIP & RESET	MN	RY483T	RY483T	0
1TB12-2	1PY4482A	SGFP 12 LO SUCT PR ALARM	MN	RY82AT	RY82AT	0
1TB12-2	1PY4483A	SGFP 12 LO SUCT PR TRIP	MN	RY83AT	RY83AT	0
1TB12-2	1AY4483A	SGFP 12 LO SUCT PR TRIP	MN	RYA3AT	RYA3AT	0
1TB12-2	1AY4483	SGFP 11 TRIP & RESET	MN	RYA83T	RYA83T	0
1TB12-2	1CV3959B	11 FW SGFPT HP GOV VLV	MN	VT1HCO	VT1HCO	0
1TB12-2	1CV3961B	11 FW SGFPT LP GOV VLV	MN	VT1LCO	VT1LCO	0
1TB12-2	1CV3974B	12 FW SGFPT HP GOV VLV	MN	VT2HCO	VT2HCO	0
1TB12-2	1CV3980B	12 FW SGFPT LP GOV VLV	MN	VT2LCO	VT2LCO	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111C	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111C	0
1TB27-2	1CV1111	11 SG FD REG VLV	MP	MP11RV	CF111T	0
1TB27-2	1CV1111A	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1CV1111B	1CV1111 ACTUATOR CONTROL	MP	MP11RV	CF111T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP11RV	CF111T	0
1TB27-2	1SV1111	11 FRV AIR TO VALVE POSITIONER SV	MP	MP11RV	CF111T	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121C	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121C	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121C	0
1TB27-2	1CV1121	12 SG FD REG VLV	MP	MP12RV	CF121T	0
1TB27-2	1CV1121A	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1CV1121B	1CV1121 ACTUATOR CONTROL	MP	MP12RV	CF121T	0
1TB27-2	1I/P1111	STM GEN 11 FDWTR CONTROL VALVE	MP	MP12RV	CF121T	0
1TB27-2	1SV1121	12 FRV AIR TO VALVE POSITIONER SV	MP	MP12RV	CF121T	0
1TB12-2	1PUMPFW11	11 STM GEN FEED PUMP (1M0121)	MT	BHEMT1	Trips	0
1TB12-2	1PUMPFW12	12 STM GEN FEED PUMP (1M0161)	MT	BHEMT1	Trips	0
1TB27-1	1MCC101AT	MCC 101AT	N1	BU109Q	BU109Q	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	N2	CM118Q	CM118Q	0
1TB12-4	1COMP1A11	11 PA COMPR (1MB123)	N2	CM123Q	CM123Q	0
1TB27-1	1MCC101BT	MCC 101BT	N4	BU419Q	BU419Q	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	N4	CM418Q	CM418Q	0
2TB27-7	2MCC201AT	MCC 201AT	N5	BUT59Q	BUT59Q	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	N6	CMT18Q	CMT18Q	0
2TB27-7	2MCC201BT	MCC 201BT	N8	BUT19Q	BUT19Q	0
2TB12-4	2COMP1A21	21 PA COMPR (2MB423)	N8	CMT21Q	CMT21Q	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	N8	CMT28Q	CMT28Q	0
2TB12-4	2TCV1636	PA COMP TCV	NR	C72S6O	C72S6O	0
1TB12-4	1TCV1634	12 IA COMPR TEMP REG VLV	NR	C7S34O	C7S34O	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CM011R	CM011R	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CM011S	CM011S	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012R	CM012R	0
1TB12-4	1COMP1A12	12 IA COMPR (1MB418)	NR	CM012S	CM012S	0
1TB12-4	1COMP1A11	11 IA COMPR (1MB118)	NR	CMP11R	CMP11R	0
2TB12-4	2COMP1A21	21 PA COMPR (2MB423)	NR	CMP21R	CMP21R	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	IPIA99	TKA11B	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	IV2S6D	IV2S6D	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	IVS33D	IVS33D	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	IVS34D	IVS34D	0
1TB27-1	1MCC101AT	MCC 101AT	NR	NR1P01	BU1ATR	0
1TB27-1	1PNL1P11	LTG DISTR PNL 111	NR	NR1P01	BUP11R	0
1TB27-1	1BKR52-10101	MCC 101AT MAIN FDR BKR	NR	NR1P01	CB101T	0
1TB27-1	1BKR52-10116	MCC 101AT DISTR XFMR 11 BKR	NR	NR1P01	CB116T	0
1TB27-1	1XDT11	LTG DISTR XFMR 11	NR	NR1P01	TM1P1R	0
1TB12	1PCV1628	SRW TO I&P/A COMPR PCV	NR	NRC1SW	CV628P	0
1TB12-4	1TCV1630	11 IA COMPR TEMP REG VLV	NR	NRIA11	C7630P	0
1TB12-4	1MUFFIAFIL11	11 IA COMPR FILTER SILENCER	NR	NRIA11	FL011P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11B	0
1TB12-4	1HXIAI/CLR11	11 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA11	HXA11P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA11	HXI11P	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062D	0
1TB12-4	1SV2062	COMPR LOAD SV	NR	NRIA11	IV062T	0
1TB12-4	1SV1629	11 I/A COMPR A/CLR SRW INLET	NR	NRIA11	IV629T	0
1TB12-4	1SV1630	11 I/A COMPR SRW INLET	NR	NRIA11	IV630T	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	NRIA11	PS062R	0
1TB12-4	1PS2063	11 IA COMPR OIL PS LOW	NR	NRIA11	PS063R	0
1TB12-4	1TE1630	11 SRW IA COMPR OUT TE	NR	NRIA11	TE630R	0
1TB12-4	1TS2063	11 IA COMPR A/CLR OUT TS HI	NR	NRIA11	TS063R	0
1TB12-4	1TS2082	11 IA COMPR I/CLR OUT TS	NR	NRIA11	TS082R	0
1TB12-4	1TCV1634	12 I/A COMPR TEMP REG VLV	NR	NRIA12	C7S34P	0
1TB12-4	1MUFFIAFIL12	12 IA COMPR FILTER SILENCER	NR	NRIA12	FLS12P	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA12	HXAS2P	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2B	0
1TB12-4	1HXIAI/CLR12	12 IA COMPR INTER COOLER	NR	NRIA12	HXIS2P	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064D	0
1TB12-4	1SV2064	12 IA COMPR LOADING SV	NR	NRIA12	IV064T	0
1TB12-4	1SV1633	12 I/A COMPR A/CLR SRW INLET	NR	NRIA12	IVS33T	0
1TB12-4	1SV1634	12 I/A COMPR SRW INLET	NR	NRIA12	IVS34T	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	NRIA12	PS064R	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	NRIA12	PS067R	0
1TB12-4	1PS2065	12 IA COMPR OIL PS LOW	NR	NRIA12	PSS65R	0
1TB12-4	1TE1634	12 SRW IA COMPR OUT TE	NR	NRIA12	TES34R	0
1TB12-4	1TS2065	12 IA COMPR A/CLR OUT TS HI	NR	NRIA12	TSS65R	0
1TB12-4	1TS2084	12 IA COMPR I/CLR OUT TS	NR	NRIA12	TSS84R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	NR	NRIA99	HXA11B	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	NR	NRIA99	HXAS2B	0
1TB12-4	1ACCIA11	11 IA COMPR RCVR	NR	NRIA99	TK011B	0
1TB12-4	1ACCIA12	12 IA COMPR RCVR	NR	NRIA99	TK012B	0
1TB12-2	1DRYA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12AP	0
1TB12-2	1DRYA12	12 IA COMP AIR DRYER	NR	NRIAHD	AD12BP	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001P	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001P	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0



ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001R	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001R	0
1TB12-2	1CV2001	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1CV2001A	12 IA DRYER TOWER 12A INL CV	NR	NRIAHD	C0001T	0
1TB12-2	1SV2001	INST AIR DRYER 12A TOWER INLET	NR	NRIAHD	C0001T	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002P	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002P	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002R	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002R	0
1TB12-2	1CV2002	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1CV2002A	12 IA DRYER TOWER 12B INL CV	NR	NRIAHD	C0002T	0
1TB12-2	1SV2002	INST AIR DRYER 12B TOWER INLET	NR	NRIAHD	C0002T	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003R	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003R	0
1TB12-2	1CV2003	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1CV2003A	12 IA DRYER TOWER 12A PURGE CV	NR	NRIAHD	C0003T	0
1TB12-2	1SV2003	INST AIR DRYER 12A TOWER PURGE	NR	NRIAHD	C0003T	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004R	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004R	0
1TB12-2	1CV2004	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1CV2004A	12 IA DRYER TOWER 12B PURGE CV	NR	NRIAHD	C0004T	0
1TB12-2	1SV2004	INST AIR DRYER 12B TOWER PURGE	NR	NRIAHD	C0004T	0
1TB12-4	1NP113B	IA DRYER 12 LOCAL CONTROL PNL	NR	NRIAHD	COD12R	0
1TB12-4	1FU1NP113B/FU3	12 IA DRYER CONTR CKT FU	NR	NRIAHD	FUC12R	0
1TB12-2	1HS2004	12 IA DRYER HS	NR	NRIAHD	HS004T	0
1TB12-4	1PCV2003	IA DRYER 12 PILOT REG PCV	NR	NRIAHD	PC003R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA01	HXAP1B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA01	HXPA2B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NR	NRPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NR	NRPA01	TKP21B	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NR	NRPA11	C7636P	0
1TB12-4	1MUFFPAFILT11	11 PA COMPR FILTER SILENCER	NR	NRPA11	FLP11P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXAP1P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NR	NRPA11	HXPA1P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11B	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR INTER COOLER	NR	NRPA11	HXP11P	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NR	NRPA11	IV154T	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NR	NRPA11	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NR	NRPA11	IV636T	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NR	NRPA11	PS055R	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	NRPA11	PS154R	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NR	NRPA11	TE636R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NR	NRPA11	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NR	NRPA11	TS086R	0
2TB12-4	2TCV1636	PA COMP TCV	NR	NRPA21	C7286P	0
2TB12-4	2COMPPA21	21 PA COMP (2MB423)	NR	NRPA21	CMP21S	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCVS	NR	NRPA21	CV228P	0
2TB12-4	2MUFFPAFILT21	21 PA COMPR FILTER SILENCER	NR	NRPA21	FLS21P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXIP2B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR INTER COOLER	NR	NRPA21	HXIP2P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NR	NRPA21	HXPA2P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NR	NRPA21	IV054T	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NR	NRPA21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NR	NRPA21	IV2S6T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	NRPA21	PS054R	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	NRPA21	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NR	NRPA21	PSS25R	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NR	NRPA21	TE2S6R	0
2TB12-4	2TS2062	21 IA COMPR I/CLR OUT TS	NR	NRPA21	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NR	NRPA21	TSS25R	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NR	NRPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NR	NRPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NR	NRPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NR	NRPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NR	NRPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NR	NRPALP	PS259R	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061O	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061O	0
1TB12-4	1CV2061	11 PA TO IA AUTO CROSSCONNECT CV	NR	NRPAXA	C3061P	0
1TB12-4	1SV2061	PLNT AIR TO INST AIR VLV CONT	NR	NRPAXA	C3061P	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061D	0
1TB12-4	1PS2061	1 PA TO IA SV CONTR PS	NR	NRPAXA	PS061R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NR	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NR	PS056D	PS056D	0
1TB12-4	1PS2062	11 IA COMPR UNLOADER CONTR PS	NR	PS062D	PS062D	0
1TB12-4	1PS2064	12 IA COMPR UNLOADER CONTR PS	NR	PS064D	PS064D	0
1TB12-4	1PS2067	12 IA RCVR 11 TO COMPR 11 CONTR PS	NR	PS067D	PS067D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NR	PS154D	PS154D	0
2TB12-4	2TCV1636	PA COMP TCV	NS	C72S6O	C72S6O	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	C7634O	C7634O	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021R	CM021R	0
2TB12-4	2COMP1A21	21 IA COMPR (2MB118)	NS	CM021S	CM021S	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022R	CM022R	0
2TB12-4	2COMP1A22	22 IA COMPR (2MB418)	NS	CM022S	CM022S	0
1TB12-4	1COMPPA11	11 PA COMPR (1MB123)	NS	CMP11R	CMP11R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	CMP21R	CMP21R	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	IV2S5D	IV2S5D	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	IV2S6D	IV2S6D	0
2TB12-4	2SV1633	22 IA COMP A/CLR SRW INLET	NS	IV633D	IV633D	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	IV634D	IV634D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154D	0
1TB12-4	1SV2054	11 PA COMPR LOADING SV	NS	NRCMP1	IV154T	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	NRCMP1	PS154R	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054D	0
2TB12-4	2SV2054	21 PA COMPR TOTAL CLOSURE SV	NS	NRCMP2	IV054T	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	NRCMP2	PS054R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NS	NRDPP1	HXP1P	0
1TB12-4	1HXPAI/CLR11	11 PA COMPR INTER COOLER	NS	NRDPP1	HXP1B	0
2TB12-4	2HXPAI/CLR21	21 PA COMPR INTER COOLER	NS	NRDPP2	HXP2B	0
1TB12-4	1MUFFPAFIL11	11 PA COMPR FILTER SILENCER	NS	NRHVP1	FLP1P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2MUFFPAFLT21	21 PA COMPR FILTER SILENCER	NS	NRHVP2	FLS21P	0
1TB12-4	1PS2055	11 PA COMPR OIL PS LOW	NS	NRPSP1	PS055R	0
1TB12-4	1TS2055	11 PA COMPR A/CLR OUT TS HI	NS	NRPSP1	TS055R	0
1TB12-4	1TS2086	11 PA COMPR I/CLR OUT TS	NS	NRPSP1	TS086R	0
2TB12-4	2COMPPA21	21 PA COMPR (2MB423)	NS	NRPSP2	CMP21S	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	NRPSP2	PS056R	0
2TB12-4	2PS2055	21 PA COMPR OIL PS LOW	NS	NRPSP2	PSS25R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NRPSP2	TSS22R	0
2TB12-4	2TS2055	21 PA COMPR A/CLR OUT TS HI	NS	NRPSP2	TSS25R	0
1TB12-4	1TCV1636	11 P/A COMPR TEMP REG VLV	NS	NRSW13	C7636P	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NS	NRSW13	HXP1P	0
1TB12-4	1HXP/CLR11	11 PA COMPR INTER COOLER	NS	NRSW13	HXP1P	0
1TB12-4	1SV1635	11 P/A COMPR A/CLR SRW INLET	NS	NRSW13	IV635T	0
1TB12-4	1SV1636	11 P/A COMPR SRW INLET	NS	NRSW13	IV636T	0
1TB12-4	1TE1636	11 SRW PA COMPR OUT TE	NS	NRSW13	TE636R	0
2TB12-4	2TCV1636	PA COMP TCV	NS	NRSW21	C72S6P	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NS	NRSW21	CV228P	0
2TB12-4	2HXP/CLR21	21 PA COMPR INTER COOLER	NS	NRSW21	HXP2P	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NS	NRSW21	HXP2P	0
2TB12-4	2SV1635	PA COMP A/CLR SRW INLET	NS	NRSW21	IV2S5T	0
2TB12-4	2SV1636	PA COMP SRW INLET	NS	NRSW21	IV2S6T	0
2TB12-4	2TE1636	21 PX COMP CLR SRW TCV TE	NS	NRSW21	TE2S6R	0
2TB27-7	2MCC201AT	MCC 201AT	NS	NS1P01	BU2ATR	0
2TB27-7	2PNL2P01	LTG DISTR PNL 21	NS	NS1P01	BUP21R	0
2TB27-7	2BKR52-20101	MCC 201AT MN FDR BKR	NS	NS1P01	CB201T	0
2TB27-7	2BKR52-20116	DISTRIBUTION XFMR 480-208 120V	NS	NS1P01	CB216T	0
2TB27-7	2XDT21	LTG DISTR XFMR 21	NS	NS1P01	TM2P2R	0
2TB12-4	2PCV1628	SRW TO IA & PA COMP PCV'S	NS	NSC1SW	CVS28P	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262D	0
2TB12-4	2SV2062	21 IA COMPR CLOSURE SV	NS	NSCMI1	IV262T	0
2TB12-4	2PS2082	21 IA COMPR UNLOADER CONTR PS	NS	NSCMI1	PSS62R	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264D	0
2TB12-4	2SV2064	22 IA COMPR CLOSURE SV	NS	NSCMI2	IV264T	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	NSCMI2	PSS64R	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSDPI1	HXA21P	0
2TB12-4	2HXIA/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21B	0
2TB12-4	2HXIA/CLR21	21 IA COMPR INTER COOLER	NS	NSDPI1	HXI21P	0
2TB12-4	2HXIA/CLR22	22 IA COMPR INTER COOLER	NS	NSDPI1	HXI22B	0
2TB12-4	2MUFFIAFLT21	21 IA COMPR FILTER SILENCER	NS	NSHV11	FL021P	0
2TB12-4	2MUFFIAFLT22	22 IA COMPR FILTER SILENCER	NS	NSHV12	FLS22P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSIA99	HXA21B	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSIA99	HXA22B	0
2TB12-4	2ACCIA21	21 IA COMPR RCVR	NS	NSIA99	TK021B	0
2TB27-8	2ACCIA22	22 IA COMPR RCVR	NS	NSIA99	TK022B	0
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22AP	0
2TB27-8	2DRYIA22	22 IA DRYER	NS	NSIAHD	AD22BP	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201P	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201R	0
2TB27-8	2CV2001	22 IA DRYER TOWER 22A INL CV	NS	NSIAHD	C0201T	0
2TB27-8	2CV2001A	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2SV2001	INST AIR DRYER 22A TOWER INLET	NS	NSIAHD	C0201T	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202P	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202P	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202R	0
2TB27-8	2CV2002	22 IA DRYER TOWER 22B INL CV	NS	NSIAHD	C0202T	0
2TB27-8	2CV2002A	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2SV2002	INST AIR DRYER 22B TOWER INLET	NS	NSIAHD	C0202T	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203R	0
2TB27-8	2CV2003	22 IA DRYER TOWER 22A PURGE CV	NS	NSIAHD	C0203T	0
2TB27-8	2CV2003A	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2SV2003	INST AIR DRYER 22A TOWER PURGE	NS	NSIAHD	C0203T	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204R	0
2TB27-8	2CV2004	22 IA DRYER TOWER 22B PURGE CV	NS	NSIAHD	C0204T	0
2TB27-8	2CV2004A	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2SV2004	INST AIR DRYER 22B TOWER PURGE	NS	NSIAHD	C0204T	0
2TB27-8	2PNL2NP0103B	IA DRYER 22 CONTROLLER	NS	NSIAHD	COD22R	0
2TB27-8	2FU2NP0103B/FU3	22 IA DRYER CONTR CKT FU	NS	NSIAHD	FUC22R	0
2TB27-8	2HS2004	22 I/A DRYER H/S	NS	NSIAHD	HS204T	0
2TB27-8	2PCV2003	22 IA DRYER PILOT REG	NS	NSIAHD	PC203R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	NS	NSPA01	HXAP1B	0
2TB12-4	2HXPAA/CLR21	21 PA COMPR AFTER COOLER	NS	NSPA01	HXPA2B	0
1TB12-4	1ACCPA11	11 PA COMPR RCVR	NS	NSPA01	TKP11B	0
2TB12-4	2ACCPA21	21 PA COMPR RCVR	NS	NSPA01	TKP21B	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059C	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059C	0
1TB12-4	1CV2059	1 PA HDR ISOL CV	NS	NSPALP	C3059T	0
1TB12-4	1SV2059	PLNT AIR HEADER ISOL VLV CONT	NS	NSPALP	C3059T	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259C	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259C	0
2TB12-4	2CV2059	PA TO PA HEADER	NS	NSPALP	C3259T	0
2TB12-4	2SV2059	PA TO PA HEADER SV	NS	NSPALP	C3259T	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059D	0
1TB12-4	1PS2059	1 PA ISOL VLV CONTR PS	NS	NSPALP	PS059R	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259D	0
2TB12-4	2PS2059	2 PA HDR ISOL SV PS	NS	NSPALP	PS259R	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261O	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261O	0
2TB12-4	2CV2061	PA TO IA XCONN CV	NS	NSPAXA	C3261P	0
2TB12-4	2SV2061	PLNT AIR TO INST AIR VLV CONT	NS	NSPAXA	C3261P	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61D	0
2TB12-4	2PS2061	2 PA TO IA CROSSCONNECT PS	NS	NSPAXA	PSS61R	0
2TB12-4	2PS2063	21 IA COMPR OIL PS LOW	NS	NSPSI1	PSS63R	0
2TB12-4	2TS2063	21 IA COMPR A/CLR OUT TS	NS	NSPSI1	TS263R	0
2TB12-4	2TS2082	21 IA COMPR I/CLR OUT TS	NS	NSPSI1	TS282R	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	NSPSI2	PSS67R	0
2TB12-4	2TS2065	22 IA COMPR A/CLR OUT TS	NS	NSPSI2	TS065R	0
2TB12-4	2TS2084	22 IA COMPR I/CLR OUT TS	NS	NSPSI2	TS084R	0
2TB12-4	2TCV1630	21 IA COMPR TCV	NS	NSSW11	C7S30P	0
2TB12-4	2HXIAA/CLR21	21 IA COMPR AFTER COOLER	NS	NSSW11	HXIA2P	0
2TB12-4	2HXIAI/CLR21	21 IA COMPR INTER COOLER	NS	NSSW11	HXII2P	0
2TB12-4	2SV1629	21 IA COMPR A/CLR SRW INLET	NS	NSSW11	IVS29T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2TB12-4	2SV1630	21 IA COMPR SRW INLET	NS	NSSW11	IVS30T	0
2TB12-4	2TE1630	21 IA COMP CLR SRW TCV TE	NS	NSSW11	TE163R	0
2TB12-4	2TCV1634	22 IA COMP TCV	NS	NSSW12	C7634P	0
2TB12-4	2HXIAA/CLR22	22 IA COMPR AFTER COOLER	NS	NSSW12	HXA22P	0
2TB12-4	2HXIAI/CLR22	22 IA COMPR INTER COOLER	NS	NSSW12	HXI22P	0
2TB12-4	2SV1633	22 IA COMP AVCLR SRW INLET	NS	NSSW12	IV633T	0
2TB12-4	2SV1634	22 IA COMP SRW INLET	NS	NSSW12	IV634T	0
2TB12-4	2TE1634	22 IA COMPR CLR SRW TCV TE	NS	NSSW12	TE634R	0
2TB12-4	2PS2054	21 PA COMPR UNLOADER CONTR PS	NS	PS054D	PS054D	0
2TB27-8	2PS2056	21 PA RCVR COMPR CONTR PS	NS	PS056D	PS056D	0
1TB12-4	1PS2054	11 PA COMPR UNLOADER CONTR PS	NS	PS154D	PS154D	0
2TB12-4	2PS2062	21 IA COMPR UNLOADER CONTR PS	NS	PSS62D	PSS62D	0
2TB12-4	2PS2064	22 IA COMPR UNLOADER CONTR PS	NS	PSS64D	PSS64D	0
2TB27-8	2PS2067	22 IA RCVR TO COMPR 22 CONTR PS	NS	PSS67D	PSS67D	0
1TB12-2	1PUMPCBP13	CD CBP 13 (1MA304)	QC	QCMISC	MYCB3Q	0
1TB12-3 (CP)	1PUMPCD12	12 CONDENSATE PUMP (1MA307)	QC	QCMISC	MYCP2Q	0
1TB12-3 (CP)	1PUMPCD13	13 CONDENSATE PUMP (1MA308)	QC	QCMISC	MYCP3Q	0
1TB12-2	1PUMPHDV12	12 FW HEATER DRAIN PUMP (1MA306)	QC	QCMISC	MYHD2Q	0
2TB12-3	2PUMPCBP21	21 CD CBP (2MA204)	QF	QFMISC	MXCB1Q	0
2TB12-3	2PUMPCBP22	22 CD CBP (2MA205)	QF	QFMISC	MXCB2Q	0
2TB12-2 (CP)	2PUMPCD21	21 CONDENSATE PUMP (2MA207)	QF	QFMISC	MXCP1Q	0
2TB12-3	2PUMPHDV21	21 FW HEATER DRAIN PUMP (2MA206)	QF	QFMISC	MXHD1Q	0
1TB12-1	1HOSE12-16	1 FP TURB BLDG TYPE C HOSE STA	RL	RLFHSF	RLFHSF	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S3	S3TBAL	ATIA2R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	S3	S3TBAL	ATPA1R	0
1TB12-4	1HXIAA/CLR11	11 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA1R	0
1TB12-4	1HXIAA/CLR12	12 IA COMPR AFTER COOLER	S4	S3TBAL	ATIA2R	0
1TB12-4	1HXPAA/CLR11	11 PA COMPR AFTER COOLER	S4	S3TBAL	ATPA1R	0
1TB12-3 (CP)	1CV4406	CST TO HTWL M/U CV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1I/P4406	COND STORAGE TO HOTWELL CONT	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1SV4406	CD STORAGE TO HOTWELL CONTROL SV	T1	T1CS1F	C3406T	0
1TB12-3 (CP)	1LT4405	CD CONDENSER HOTWELL LT	T1	T1CS1F	LT405R	0
2TB27-2E	2CV4406	21 CST TO HTWL M/U CV	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2I/P4406	COND STORAGE TO HOTWELL CONTRL	T1	T1CS2F	C3B06T	0
2TB12-2 (CP)	2LT4405	CD HOTWELL LEVEL CONTROL LT	T1	T1CS2F	LTB05R	0
1TB27-6	1CVMT-11	11 MT CV	TT	V1CV1C	V1CV1C	0
1TB27-6	1CVMT-12	12 MT CV	TT	V1CV2C	V1CV2C	0
1TB27-6	1CVMT-13	13 MT CV	TT	V1CV3C	V1CV3C	0
1TB27-6	1CVMT-14	14 MT CV	TT	V1CV4C	V1CV4C	0
1TB27-6	1FCVMT-11	11 MT STOP VLV	TT	V1SV1C	V1SV1C	0
1TB27-6	1FCVMT-12	12 MT STOP VLV	TT	V1SV2C	V1SV2C	0
1TB27-6	1FCVMT-13	13 MT STOP VLV	TT	V1SV3C	V1SV3C	0
1TB27-6	1FCVMT-14	14 MT STOP VLV	TT	V1SV4C	V1SV4C	0
1TB12-2 (CP)	1PUMPCARSWP11	11 CAR SEAL WTR PUMP (1M0636)	VC	MMS11R	MMS11R	0
1TB12-2 (CP)	1PUMPCARSWP12	12 CAR SEAL WTR PUMP (1M0637)	VC	MMS12R	MMS12R	0
1TB12-2 (CP)	1PUMPCARSWP13	13 CAR SEAL WTR PUMP (1M1636)	VC	MMS13R	MMS13R	0
1TB12-2 (CP)	1PUMPCAR11	11 CAR VAC PP (1MB203)	VC	MMV11R	MMV11R	0
1TB12-2 (CP)	1PUMPCAR12	12 CAR VAC PP (1MB217)	VC	MMV12R	MMV12R	0
1TB12-2 (CP)	1PUMPCAR13	13 CAR VAC PP (1MB303)	VC	MMV13R	MMV13R	0
1TB12-2	1CV1627	SRW TO COND VAC PP PCV	VC	VC0SRW	C3827P	0
1TB12-2	1PIC1627	10 SRW CNDSR PP VAC INL PIC	VC	VC0SRW	PC627R	0
1TB27-3	1MOV6717	COND VAC BKR	VC	VC717T	MV717T	0
1TB12-3 (CP)	1HS5225	11 CW PP WTRBX INL VLV HS	VC	VCCW1A	HS225T	0
1TB12-3 (CP)	1MOV5225	11A COND'R INLET STRNR VLV	VC	VCCW1A	MV225P	0
1TB12-3 (CP)	1HS5229	12 CW PP WTRBX INL VLV HS	VC	VCCW2A	HS229T	0

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1TB12-3 (CP)	1MOV5229	11B COND'R INLET STRNR VLV	VC	VCCW2A	MV229P	0
1TB12-3 (CP)	1HS5233	13 CW PP WTRBX INL VLV HS	VC	VCCW3A	HS233T	0
1TB12-3 (CP)	1MOV5233	12A COND'R INLET STRNR VLV	VC	VCCW3A	MV233P	0
1TB12-3 (CP)	1HS5237	14 CW PP WTRBX INL VLV HS	VC	VCCW4A	HS237T	0
1TB12-3 (CP)	1MOV5237	12B COND'R INLET STRNR VLV	VC	VCCW4A	MV237P	0
1TB12-3 (CP)	1HS5241	15 CW PP WTRBX INL VLV HS	VC	VCCW5A	HS241T	0
1TB12-3 (CP)	1MOV5241	13A COND'R STRNR INLET VLV	VC	VCCW5A	MV241P	0
1TB12-3 (CP)	1HS5245	15 CW PP WTRBX INL VLV HS	VC	VCCW6A	HS245T	0
1TB12-3 (CP)	1MOV5245	13B COND'R INLET STRNR VLV	VC	VCCW6A	MV245P	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098C	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098C	0
1TB12-4	1CV5098	MISC DRN TK TO COND OUT CV	VC	VCMDTK	C3098T	0
1TB12-4	1SV5098	MISC TURB DRN TNK LEV CONT VLV	VC	VCMDTK	C3098T	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098D	0
1TB12-4	1LS5098	11 CD MISC DRN TANK LO LS	VC	VCMDTK	LS098R	0
1TB12-2 (CP)	1CV1754	11 CAR UNIT MOTIVE AIR	VC	VCP011	C3754P	0
1TB12-2	1SV1753	11 CAR BYP & MOTIVE VLV	VC	VCP011	C3754P	0
1TB12-2 (CP)	1CV1755	11 CAR UNIT SYS DIAPHRAM	VC	VCP011	C3755P	0
1TB12-2 (CP)	1LCV1753	11 CAR SEP	VC	VCP011	LC753R	0
1TB12-2 (CP)	1PS1755	11 CAR CNDSR VAC PP SEAL LOW PRESSURE WTR	VC	VCP011	PS755R	0
1TB12-2 (CP)	1CV1757	12 CAR UNIT MOTIVE AIR	VC	VCP012	C3757P	0
1TB12-2	1SV1756	12 CAR BYP & MOTIVE VLVS	VC	VCP012	C3757P	0
1TB12-2 (CP)	1CV1758	12 CAR UNIT SYS DIAPHRAM	VC	VCP012	C3758P	0
1TB12-2 (CP)	1LCV1756	12 CAR SEP LO LVL CONTROL	VC	VCP012	LC758R	0
1TB12-2 (CP)	1PS1758	12 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE	VC	VCP012	PS758R	0
1TB12-2 (CP)	1CV1760	13 CAR UNIT MOTIVE AIR	VC	VCP013	C3760P	0
1TB12-2	1SV1759	13 CAR BYP & MOTIVE VLVS	VC	VCP013	C3760P	0
1TB12-2 (CP)	1CV1761	13 CAR UNIT SYS DIAPHRAM	VC	VCP013	C3761P	0
1TB12-2 (CP)	1LCV1759	SEP LO LVL CONTROL	VC	VCP013	LC759R	0
1TB12-2 (CP)	1PS1761	13 CAR CNDSR VAC PP SEAL WTR LOW PRESSURE	VC	VCP013	PS761R	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11B	0
1TB12-3 (CP)	1HXCARSWC11	11 CAR SEAL WTR CLR	VC	VCS011	HXS11P	0
1TB27-1	1RY1B0636/1Y0636	11 RECIRC SEAL PP INTK RE	VC	VCS011	RY036P	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12B	0
1TB12-3 (CP)	1HXCARSWC12	12 CAR SEAL WTR CLR	VC	VCS012	HXS12P	0
1TB27-1	1RY1B0637/1Y0637	12 RECIRC SEAL PP INTK RELAY	VC	VCS012	RY037P	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13B	0
1TB12-3 (CP)	1HXCARSWC13	13 CAR SEAL WTR CLR	VC	VCS013	HXS13P	0
1TB27-1	1RY1B1636/1Y1636	13 RECIRC SEAL PP INTK RELAY	VC	VCS013	RY136P	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681O	0
1TB12-4	1CV4681	MN STM SEAL REG	VC	VCTGS1	CV681P	0
1TB12-4	1MOV4659	1 GS MS SEAL SUPPLY MOV	VC	VCTGS1	MV659P	0
1TB12-4	1PC4681	GS STM SEAL FEED VLV CONTROL PC	VC	VCTGS1	PC681R	0

**Flood Evaluation Query****CF-33A-SISPAN**

02-Dec-98

<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
AA	2BKR	2 breaker challenges.	PAJ
AB	1BKR	1 breaker challenge.	PAJ
AC	1BKR	1 breaker challenge.	PAJ
AD	2BKR	2 breaker challenges.	PAJ
GW	F	22 and 23 SW Pump fail.	PAJ
GZ	F	21 and 23 SW Pump fail.	PAJ
S1	F	11 and 13 Salt Water Pump fail.	PAJ
S2	F	12 and 13 Salt Water Pump fail.	PAJ
TH(HD1)	None	Covered by Top S1 and S2.	PAJ
TH(HD2)	None	Covered by Top S1 and S2.	PAJ
VC	F	All Circulating Water Pumps Fails to run.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	AA	MWSW1Q	MWSW1Q	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	AA	MWSW3Q	MWSW3Q	168
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	AB	MWSW2Q	MWSW2Q	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	AB	MWSW4Q	MWSW4Q	168
2INTK-1	2PUMPSW21	21 SALT WATER PUMP (2MA105)	AC	MWSW5Q	MWSW5Q	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	AC	MWSW7Q	MWSW7Q	168
2INTK-2	2PUMPSW22	22 SALT WATER PUMP (2MA405)	AD	MWSW6Q	MWSW6Q	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	AD	MWSW8Q	MWSW8Q	168
2INTK-2	2PUMPSW22	22 SALT WATER PUMP (2MA405)	GW	MWS22R	MWS22R	168
2INTK-2	2PUMPSW22	22 SALT WATER PUMP (2MA405)	GW	MWS22S	MWS22S	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GW	MWS23R	MWS23R	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GW	MWS23S	MWS23S	168
2INTK-1	2PUMPSW21	21 SALT WATER PUMP (2MA105)	GZ	MWS21R	MWS21R	168
2INTK-1	2PUMPSW21	21 SALT WATER PUMP (2MA105)	GZ	MWS21S	MWS21S	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GZ	MWS23R	MWS23R	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GZ	MWS23S	MWS23S	168
2INTK-4	2CV5149	EMERG SW DISCH TO BAY	GZ	S5149T	C4S49T	48
2INTK-4	2SV5149	SALT WTR EMERG OUT	GZ	S5149T	C4S49T	0
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	S1	MWS11R	MWS11R	168
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	S1	MWS11S	MWS11S	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S1	MWS13R	MWS13R	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S1	MWS13S	MWS13S	168
1INTK-4	1CV5149	EMERG SW DISCH TO BAY	S1	S1149T	C4149T	48
1INTK-4	1SV5149	SALT WTR EMERG OUT	S1	S1149T	C4149T	0
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	S2	MWS12R	MWS12R	168
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	S2	MWS12S	MWS12S	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S2	MWS13R	MWS13R	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S2	MWS13S	MWS13S	168
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	TH(HD1)	BHER3B	Start	168
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	TH(HD2)	BHER3B	Start	168
1INTK-4	1PUMPCWDEWTR11	11 CW DEWATERING PUMP	VC	MPD11R	MPD11R	0
1INTK-4	1PUMPCWDEWTR12	12 CW DEWATERING PUMP	VC	MPD12R	MPD12R	0
1INTK-4	1PUMPCWDEWTR13	13 CW DEWATERING PUMP	VC	MPD13R	MPD13R	0
1INTK-4	1PUMPCWDEWTR14	14 CW DEWATERING PUMP	VC	MPD14R	MPD14R	0
1INTK-4	1PUMPCWDEWTR15	15 CW DEWATERING PUMP	VC	MPD15R	MPD15R	0
1INTK-4	1PUMPCWDEWTR16	16 CW DEWATERING PUMP	VC	MPD16R	MPD16R	0
1INTK-4	1PUMPCW11	11 CIRCULATION WATER PUMP (1MA502)	VC	MYCW1R	MYCW1R	0
1INTK-4	1PUMPCW12	12 CIRCULATION WATER PUMP (1MA503)	VC	MYCW2R	MYCW2R	0
1INTK-4	1PUMPCW13	13 CIRCULATION WATER PUMP (1MA504)	VC	MYCW3R	MYCW3R	0
1INTK-4	1PUMPCW14	14 CIRCULATING WATER PUMP (1MA601)	VC	MYCW4R	MYCW4R	0
1INTK-4	1PUMPCW15	15 CIRCULATING WATER PUMP (1MA602)	VC	MYCW5R	MYCW5R	0
1INTK-4	1PUMPCW16	16 CIRCULATING WATER PUMP (1MA603)	VC	MYCW6R	MYCW6R	0
1INTK-4	1LS5214	11 CW PP DEWATERING PP LS	VC	VCCW1A	LS214D	0
1INTK-4	1LS5216	12 CW PP DEWATERING PP LS	VC	VCCW2A	LS216D	0
1INTK-4	1LS5218	13 CW PP DEWATERING PP LS	VC	VCCW3A	LS218D	0
1INTK-4	1LS5220	14 CW PP DEWATERING PP LS	VC	VCCW4A	LS220D	0
1INTK-4	1LS5222	15 CW PP DEWATERING PP LS	VC	VCCW5A	LS222D	0
1INTK-4	1LS5224	16 CW PP DEWATERING PP LS	VC	VCCW6A	LS224D	0



# Flood Evaluation Query

CF-33B-SISPAR

02-Dec-98

TOP	PM	EVALUATION	RI
AA	2BKR	2 breaker challenges.	PAJ
AB	1BKR	1 breaker challenge.	PAJ
AC	1BKR	1 breaker challenge.	PAJ
AD	2BKR	2 breaker challenges.	PAJ
GW	<del>F</del> None	<del>22 and 23 SW Pump fail.</del> *	PAJ
GZ	<del>F</del> None	<del>21 and 23 SW Pump fail.</del> *	PAJ
S1	F	11 and 13 Salt Water Pump fail.	PAJ
S2	F	12 and 13 Salt Water Pump fail.	PAJ
TH(HD1)	None	Covered by Top S1 and S2.	PAJ
TH(HD2)	None	Covered by Top S1 and S2.	PAJ
VC	F	All Circulating Water Pumps Fails to run.	PAJ

\* This flood is recovered prior to the flood level reaching the SW pumps. See note 37 in RAN 98-065 Sect. 5.4.

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	AA	MWSW1Q	MWSW1Q	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	AA	MWSW3Q	MWSW3Q	168
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	AB	MWSW2Q	MWSW2Q	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	AB	MWSW4Q	MWSW4Q	168
2INTK-1	2PUMPSW21	21 SALT WATER PUMP (2MA105)	AC	MWSW5Q	MWSW5Q	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	AC	MWSW7Q	MWSW7Q	168
2INTK-2	2PUMPSW22	22 SALT WATER PUMP (2MA405)	AD	MWSW6Q	MWSW6Q	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	AD	MWSW8Q	MWSW8Q	168
2INTK-2	2PUMPSW22	22 SALT WATER PUMP (2MA405)	GW	MWS22R	MWS22R	168
2INTK-2	2PUMPSW22	22 SALT WATER PUMP (2MA405)	GW	MWS22S	MWS22S	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GW	MWS23R	MWS23R	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GW	MWS23S	MWS23S	168
2INTK-1	2PUMPSW21	21 SALT WATER PUMP (2MA105)	GZ	MWS21R	MWS21R	168
2INTK-1	2PUMPSW21	21 SALT WATER PUMP (2MA105)	GZ	MWS21S	MWS21S	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GZ	MWS23R	MWS23R	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GZ	MWS23S	MWS23S	168
2INTK-4	2CV5149	EMERG SW DISCH TO BAY	GZ	S5149T	C4S49T	48
2INTK-4	2SV5149	SALT WTR EMERG OUT	GZ	S5149T	C4S49T	0
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	S1	MWS11R	MWS11R	168
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	S1	MWS11S	MWS11S	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S1	MWS13R	MWS13R	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S1	MWS13S	MWS13S	168
1INTK-4	1CV5149	EMERG SW DISCH TO BAY	S1	S1149T	C4149T	48
1INTK-4	1SV5149	SALT WTR EMERG OUT	S1	S1149T	C4149T	0
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	S2	MWS12R	MWS12R	168
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	S2	MWS12S	MWS12S	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S2	MWS13R	MWS13R	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S2	MWS13S	MWS13S	168
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	TH(HD1)	BHER3B	Start	168
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	TH(HD2)	BHER3B	Start	168
1INTK-4	1PUMPCWDEWTR11	11 CW DEWATERING PUMP	VC	MPD11R	MPD11R	0
1INTK-4	1PUMPCWDEWTR12	12 CW DEWATERING PUMP	VC	MPD12R	MPD12R	0
1INTK-4	1PUMPCWDEWTR13	13 CW DEWATERING PUMP	VC	MPD13R	MPD13R	0
1INTK-4	1PUMPCWDEWTR14	14 CW DEWATERING PUMP	VC	MPD14R	MPD14R	0
1INTK-4	1PUMPCWDEWTR15	15 CW DEWATERING PUMP	VC	MPD15R	MPD15R	0
1INTK-4	1PUMPCWDEWTR16	16 CW DEWATERING PUMP	VC	MPD16R	MPD16R	0
1INTK-4	1PUMPCW11	11 CIRCULATION WATER PUMP (1MA502)	VC	MYCW1R	MYCW1R	0
1INTK-4	1PUMPCW12	12 CIRCULATION WATER PUMP (1MA503)	VC	MYCW2R	MYCW2R	0
1INTK-4	1PUMPCW13	13 CIRCULATION WATER PUMP (1MA504)	VC	MYCW3R	MYCW3R	0
1INTK-4	1PUMPCW14	14 CIRCULATING WATER PUMP (1MA601)	VC	MYCW4R	MYCW4R	0
1INTK-4	1PUMPCW15	15 CIRCULATING WATER PUMP (1MA602)	VC	MYCW5R	MYCW5R	0
1INTK-4	1PUMPCW16	16 CIRCULATING WATER PUMP (1MA603)	VC	MYCW6R	MYCW6R	0
1INTK-4	1LS5214	11 CW PP DEWATERING PP LS	VC	VCCW1A	LS214D	0
1INTK-4	1LS5216	12 CW PP DEWATERING PP LS	VC	VCCW2A	LS216D	0
1INTK-4	1LS5218	13 CW PP DEWATERING PP LS	VC	VCCW3A	LS218D	0
1INTK-4	1LS5220	14 CW PP DEWATERING PP LS	VC	VCCW4A	LS220D	0
1INTK-4	1LS5222	15 CW PP DEWATERING PP LS	VC	VCCW5A	LS222D	0
1INTK-4	1LS5224	16 CW PP DEWATERING PP LS	VC	VCCW6A	LS224D	0

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**Flood Evaluation Query****CF-33C-FISPAM***02-Dec-98*

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<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
GZ	None	2CV5149 fails closed on loss of power and loss of air.	PAJ
S1	None	1CV5149 fails closed on loss of power and loss of air.	PAJ
VC	F	All Circulating Water Pumps Fails to run.	PAJ

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ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2INTK-4	2CV5149	EMERG SW DISCH TO BAY	GZ	S5149T	C4S49T	48
2INTK-4	2SV5149	SALT WTR EMERG OUT	GZ	S5149T	C4S49T	0
1INTK-4	1CV5149	EMERG SW DISCH TO BAY	S1	S1149T	C4149T	48
1INTK-4	1SV5149	SALT WTR EMERG OUT	S1	S1149T	C4149T	0
1INTK-4	1PUMPCWDEWTR11	11 CW DEWATERING PUMP	VC	MPD11R	MPD11R	0
1INTK-4	1PUMPCWDEWTR12	12 CW DEWATERING PUMP	VC	MPD12R	MPD12R	0
1INTK-4	1PUMPCWDEWTR13	13 CW DEWATERING PUMP	VC	MPD13R	MPD13R	0
1INTK-4	1PUMPCWDEWTR14	14 CW DEWATERING PUMP	VC	MPD14R	MPD14R	0
1INTK-4	1PUMPCWDEWTR15	15 CW DEWATERING PUMP	VC	MPD15R	MPD15R	0
1INTK-4	1PUMPCWDEWTR16	16 CW DEWATERING PUMP	VC	MPD16R	MPD16R	0
1INTK-4	1PUMPCW11	11 CIRCULATION WATER PUMP (1MA502)	VC	MYCW1R	MYCW1R	0
1INTK-4	1PUMPCW12	12 CIRCULATION WATER PUMP (1MA503)	VC	MYCW2R	MYCW2R	0
1INTK-4	1PUMPCW13	13 CIRCULATION WATER PUMP (1MA504)	VC	MYCW3R	MYCW3R	0
1INTK-4	1PUMPCW14	14 CIRCULATING WATER PUMP (1MA601)	VC	MYCW4R	MYCW4R	0
1INTK-4	1PUMPCW15	15 CIRCULATING WATER PUMP (1MA602)	VC	MYCW5R	MYCW5R	0
1INTK-4	1PUMPCW16	16 CIRCULATING WATER PUMP (1MA603)	VC	MYCW6R	MYCW6R	0
1INTK-4	1LS5214	11 CW PP DEWATERING PP LS	VC	VCCW1A	LS214D	0
1INTK-4	1LS5216	12 CW PP DEWATERING PP LS	VC	VCCW2A	LS216D	0
1INTK-4	1LS5218	13 CW PP DEWATERING PP LS	VC	VCCW3A	LS218D	0
1INTK-4	1LS5220	14 CW PP DEWATERING PP LS	VC	VCCW4A	LS220D	0
1INTK-4	1LS5222	15 CW PP DEWATERING PP LS	VC	VCCW5A	LS222D	0
1INTK-4	1LS5224	16 CW PP DEWATERING PP LS	VC	VCCW6A	LS224D	0

**Flood Evaluation Query****CF-33D-FISPAN \***

02-Dec-98

<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
AA	2BKR	2 breaker challenges.	PAJ
AB	1BKR	1 breaker challenge.	PAJ
AC	1BKR	1 breaker challenge.	PAJ
AD	2BKR	2 breaker challenges.	PAJ
GW	F	22 and 23 SW Pump fail.	PAJ
GZ	F	21 and 23 SW Pump fail.	PAJ
S1	F	11 and 13 Salt Water Pump fail.	PAJ
S2	F	12 and 13 Salt Water Pump fail.	PAJ
TH(HD1)	None	Covered by Top S1 and S2.	PAJ
TH(HD2)	None	Covered by Top S1 and S2.	PAJ
VC	F	All Circulating Water Pumps Fails to run.	PAJ

\* This flood is deleted. See note 12 in  
PAN 98-065 Sect. 5.4 JDM

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	AA	MWSW1Q	MWSW1Q	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	AA	MWSW3Q	MWSW3Q	168
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	AB	MWSW2Q	MWSW2Q	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	AB	MWSW4Q	MWSW4Q	168
2INTK-1	2PUMPSW21	21 SALT WATER PUMP (2MA105)	AC	MWSW5Q	MWSW5Q	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	AC	MWSW7Q	MWSW7Q	168
2INTK-2	2PUMPSW22	22 SALT WATER PUMP (2MA405)	AD	MWSW6Q	MWSW6Q	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	AD	MWSW8Q	MWSW8Q	168
2INTK-2	2PUMPSW22	22 SALT WATER PUMP (2MA405)	GW	MWS22R	MWS22R	168
2INTK-2	2PUMPSW22	22 SALT WATER PUMP (2MA405)	GW	MWS22S	MWS22S	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GW	MWS23R	MWS23R	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GW	MWS23S	MWS23S	168
2INTK-1	2PUMPSW21	21 SALT WATER PUMP (2MA105)	GZ	MWS21R	MWS21R	168
2INTK-1	2PUMPSW21	21 SALT WATER PUMP (2MA105)	GZ	MWS21S	MWS21S	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GZ	MWS23R	MWS23R	168
2INTK-3	2PUMPSW23	23 SALT WATER PUMP (2MA412)	GZ	MWS23S	MWS23S	168
2INTK-4	2CV5149	EMERG SW DISCH TO BAY	GZ	S5149T	C4S49T	48
2INTK-4	2SV5149	SALT WTR EMERG OUT	GZ	S5149T	C4S49T	0
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	S1	MWS11R	MWS11R	168
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	S1	MWS11S	MWS11S	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S1	MWS13R	MWS13R	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S1	MWS13S	MWS13S	168
1INTK-4	1CV5149	EMERG SW DISCH TO BAY	S1	S1149T	C4149T	48
1INTK-4	1SV5149	SALT WTR EMERG OUT	S1	S1149T	C4149T	0
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	S2	MWS12R	MWS12R	168
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	S2	MWS12S	MWS12S	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S2	MWS13R	MWS13R	168
1INTK-3	1PUMPSW13	13 SALT WATER PUMP (1MA412)	S2	MWS13S	MWS13S	168
1INTK-1	1PUMPSW11	11 SALT WATER PUMP (1MA105)	TH(HD1)	BHER3B	Start	168
1INTK-2	1PUMPSW12	12 SALT WATER PUMP (1MA405)	TH(HD2)	BHER3B	Start	168
1INTK-4	1PUMPCWDEWTR11	11 CW DEWATERING PUMP	VC	MPD11R	MPD11R	0
1INTK-4	1PUMPCWDEWTR12	12 CW DEWATERING PUMP	VC	MPD12R	MPD12R	0
1INTK-4	1PUMPCWDEWTR13	13 CW DEWATERING PUMP	VC	MPD13R	MPD13R	0
1INTK-4	1PUMPCWDEWTR14	14 CW DEWATERING PUMP	VC	MPD14R	MPD14R	0
1INTK-4	1PUMPCWDEWTR15	15 CW DEWATERING PUMP	VC	MPD15R	MPD15R	0
1INTK-4	1PUMPCWDEWTR16	16 CW DEWATERING PUMP	VC	MPD16R	MPD16R	0
1INTK-4	1PUMPCW11	11 CIRCULATION WATER PUMP (1MA502)	VC	MYCW1R	MYCW1R	0
1INTK-4	1PUMPCW12	12 CIRCULATION WATER PUMP (1MA503)	VC	MYCW2R	MYCW2R	0
1INTK-4	1PUMPCW13	13 CIRCULATION WATER PUMP (1MA504)	VC	MYCW3R	MYCW3R	0
1INTK-4	1PUMPCW14	14 CIRCULATING WATER PUMP (1MA601)	VC	MYCW4R	MYCW4R	0
1INTK-4	1PUMPCW15	15 CIRCULATING WATER PUMP (1MA602)	VC	MYCW5R	MYCW5R	0
1INTK-4	1PUMPCW16	16 CIRCULATING WATER PUMP (1MA603)	VC	MYCW6R	MYCW6R	0
1INTK-4	1LS5214	11 CW PP DEWATERING PP LS	VC	VCCW1A	LS214D	0
1INTK-4	1LS5216	12 CW PP DEWATERING PP LS	VC	VCCW2A	LS216D	0
1INTK-4	1LS5218	13 CW PP DEWATERING PP LS	VC	VCCW3A	LS218D	0
1INTK-4	1LS5220	14 CW PP DEWATERING PP LS	VC	VCCW4A	LS220D	0
1INTK-4	1LS5222	15 CW PP DEWATERING PP LS	VC	VCCW5A	LS222D	0
1INTK-4	1LS5224	16 CW PP DEWATERING PP LS	VC	VCCW6A	LS224D	0

**Flood Evaluation Query**

**CF-33E-<sup>F</sup>CISPAM**  
*GM*

02-Dec-98

<b>TOP</b>	<b>PM</b>	<b>EVALUATION</b>	<b>RI</b>
GZ	None	2CV5149 fails closed on loss of power and loss of air.	PAJ
S1	None	1CV5149 fails closed on loss of power and loss of air.	PAJ
VC	F	All Circulating Water Pumps Fails to run.	PAJ

ROOM#	INCLUDED COMP	DESCRIPTION	TOP	FB	BEVENT	" ABOVE FLOOR
2INTK-4	2SV5149	SALT WTR EMERG OUT	GZ	S5149T	C4S49T	0
1INTK-4	1SV5149	SALT WTR EMERG OUT	S1	S1149T	C4149T	0
1INTK-4	1PUMPCWDEWTR11	11 CW DEWATERING PUMP	VC	MPD11R	MPD11R	0
1INTK-4	1PUMPCWDEWTR12	12 CW DEWATERING PUMP	VC	MPD12R	MPD12R	0
1INTK-4	1PUMPCWDEWTR13	13 CW DEWATERING PUMP	VC	MPD13R	MPD13R	0
1INTK-4	1PUMPCWDEWTR14	14 CW DEWATERING PUMP	VC	MPD14R	MPD14R	0
1INTK-4	1PUMPCWDEWTR15	15 CW DEWATERING PUMP	VC	MPD15R	MPD15R	0
1INTK-4	1PUMPCWDEWTR16	16 CW DEWATERING PUMP	VC	MPD16R	MPD16R	0
1INTK-4	1PUMPCW11	11 CIRCULATION WATER PUMP (1MA502)	VC	MYCW1R	MYCW1R	0
1INTK-4	1PUMPCW12	12 CIRCULATION WATER PUMP (1MA503)	VC	MYCW2R	MYCW2R	0
1INTK-4	1PUMPCW13	13 CIRCULATION WATER PUMP (1MA504)	VC	MYCW3R	MYCW3R	0
1INTK-4	1PUMPCW14	14 CIRCULATING WATER PUMP (1MA601)	VC	MYCW4R	MYCW4R	0
1INTK-4	1PUMPCW15	15 CIRCULATING WATER PUMP (1MA602)	VC	MYCW5R	MYCW5R	0
1INTK-4	1PUMPCW16	16 CIRCULATING WATER PUMP (1MA603)	VC	MYCW6R	MYCW6R	0
1INTK-4	1LS5214	11 CW PP DEWATERING PP LS	VC	VCCW1A	LS214D	0
1INTK-4	1LS5216	12 CW PP DEWATERING PP LS	VC	VCCW2A	LS216D	0
1INTK-4	1LS5218	13 CW PP DEWATERING PP LS	VC	VCCW3A	LS218D	0
1INTK-4	1LS5220	14 CW PP DEWATERING PP LS	VC	VCCW4A	LS220D	0
1INTK-4	1LS5222	15 CW PP DEWATERING PP LS	VC	VCCW5A	LS222D	0
1INTK-4	1LS5224	16 CW PP DEWATERING PP LS	VC	VCCW6A	LS224D	0