

ATTACHMENT 2

Consumers Power Company
Palisades Plant
Docket 50-255

SYSTEM FUNCTIONAL EVALUATION
LONG TERM COMMITMENTS

September 30, 1988

36 Pages

OC0988-0157-NL02-NL04

BR10070341 880930
PDR ADOCK 05000255
P PNU

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00001	APW 1	9.7.2.1 Condensate storage tank requirements substantiated by the Acc Anal group. Results will be defined in EOPs. (See Logno 00012)	RJFrigo	Complete	Feedwater inventory calibrations supplied by Eng Analysis EA-P-APW-86137 have been incorporated into the EOPs (eg Ref EOP 2.0 Att 3) (12/17/87)
00002	APW 1 4	9.7.2.1 Flow measurement of APW pump recirculation flow is not designed to be monitored. Flow instrumentation will be added as part of the 5 year plan. See MCTF generic topic on pump testing instrumentation.	RVanWagner	Complete	WBS 35015 defines the 5-Year Plan item for modifications scheduled for 1989.
00003	APW 10 2	7.4.3.2 In the event of a main steam line break, the APW flow toward the affected S/C must be terminated. No interlocks exist to prevent manual isolation of APW flow to generators during a MSLB. This function is addressed procedurally by the EOPs. The FSAR will be corrected.	RMBrzezinski	Complete	Closed by FSAR Change Request 7-31-R3-147 (10/30/87)
00004	APW 11 3	7.4.3.2 Due to nuclear safety considerations, the automatic isolation feature of the FOGC system has been disabled and the operator is instructed by Plant Emergency Operating Procedures to manually isolate the affected steam generator. The FSAR will be clarified.	RMBrzezinski	Closed	FSAR description is correct and will be left intact for future possibility of FOGC use (01/10/87).
00005	APW 12 1	7.1.1 SOP-12. To start/stop P-8A and P-8C. 2/3 low suction pressure trip of pump is not verified by test. This will be verified periodically.	DABixel	Complete	PPAC PWS022 requires the completion of Procedure PWS-I-17.
00006	APW 12 2	SOP-12. To start/stop P-8B. 2/3 low suction pressure trip of pump is not verified by test. This will be verified periodically.	DABixel	Complete	PPAC PWS023 requires the completion of Procedure PWS-I-18.
00007	APW 3 1	9.7.2.3 The FOGC valves are passive normally open valves. They were originally designed to allow for feeding an intact steam generator. This feature is presently disabled. These valves will be tested against differential pressure as part of the plant response to IEB 85-03.	DABixel	Complete	Closed in Special Test T-250 and 1/15/88 submittal in response to IEBUS-03.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00008	AFW 3 1	9.7.2.3 The FOCC actuation system monitors S/C pressure. These are passive normally open valves. They were originally designed to allow for feeding an intact steam generator. This feature is presently disabled. These valves will be tested against differential pressure as part of the plant response to IEB 85-03. (Response could lead to periodic testing but a single test is adequate for this commitment. The bulletin should pick up any needed commitment.	DABixel	Closed	Duplicate of Log #007.
00009	AFW 4 1	9.7.5 All valves on the suction side of the aux feed pumps are inspected monthly to ensure that they are in the locked-open position. This is not directly true. FSAR will be clarified.	DABixel	Closed	Per 7/21 MCK update, FSAR has been reviewed. No clarification necessary.
00010	AFW 4 2	Table 9-13 As a result of the Operational Readiness Assessment on AFW, PRC approved analysis which clarified AFW flow requirements. Special testing has been performed which verifies AFW system can meet these requirements (T-186, T-192, T-201, T-202). Surveillances will be modified to verify these requirements periodically.	DABixel	Complete	See PACS X-OPS387, X-OPS388, X-OPS389, (10 year pump tests) (01/07/88).
00012	AFW 5 2	7.4.1.4 Requirements are substantiated by the Acc Anal group. Results will be included in EOPs. (See Log No 00001)	RJFrigo	Complete	Feedwater inventory calibrations supplied by Engineering Analysis EA-P-AFW-86137-01 have been incorporated into the EOPs (eg Ref SOP 2.0 Att 3) (12/17/87)
00013	AFW 6 1	7.4.1.4 Verify 12 hours of N ² backup to P-8B steam valves. Special Test T-187 verified N ² system would supply 12 hours of N ² to PCV-01 and CV-0522B. This function will be verified for the other flow control valves supplied with backup N ² prior to startup. A PACS will be generated to periodically test this function in the future.	DABixel	Complete	See PACS X-OPS405 for backup N ² (refueling) (01/07/88).

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOCNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00014	APW 6 3	7.4.1.8.5 Detection of low condensate tank level will be via a low suction pressure switch which is installed on the turbine driven auxiliary feedwater pump. This pressure switch turns on an alarm on the auxiliary shutdown panel. Prior to the next Refout a surveillance procedure will be developed to calibrate this pressure switch each refueling.	RMBrzezinski	Complete	TS Test RI-102 revised for this.
00015	APW 7 1	7.4.1.8.5 Upon receipt of the condensate storage tank low level alarm, the auxiliary feedwater pump suction source will be transferred manually to the fire water system. Redundant pressure switches are provided to trip (3 switches; 2 of 3 required for trip) the aux feed pumps on low suction pressure, thus avoiding pump failure due to low or nonexistent tank level. - These switches will be added to a surveillance procedure prior to the next refout.	RMBrzezinski	Complete	FWS-I-17 & 18 have been developed to calibrate switches (7/22)
00016	AIR 1 1	9.5.2.1 Instrument air is not designed to be available following a DBA - was designed as a non-safety system. The BOPs are heavily dependent on the availability of instrument air, however procedural direction is provided if air is lost. A backup means of providing instrument air is available in case offsite power is lost per ONP 25.2. FSAR will be clarified.	GJDaggett	Complete	FSAR Rev 3 9.5.2.1 provides information on backup N ₂ air (01/07/88).
00017	AIR 1 2	9.5.2.1 Nitrogen pressure is maintained at 60 psig vs 90 psig stated in FSAR. Also 8 nitrogen bottles are now in service to operate the APW steam supply valve versus 5 stated in FSAR. FSAR will be changed to clarify this, plus the number of bottles available.	GJDaggett	Complete	Closed by FSAR Change Request 9-41-R3-141 (10/30/88).
00018	AIR 1 6	9.5.2.3.1 Special Test T-187 verifies 60 psig N ₂ system would supply 12 hours of backup N ₂ to the APW flow control valves. This will be verified periodically in the future.	GJDaggett	Complete	See PACS X-OPS405 refueling test (01/07/88).

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

<u>LOGNO</u>	<u>SYSTEM/PAGE/ITEM</u>	<u>REFERENCE (FSAR or other) COMMITMENT</u>	<u>ASSIGNED INDIVIDUAL</u>	<u>JOB DATE</u>	<u>STATUS</u>
00019	AIR 2 1	9.5.2.3.1 ...SS will be developed to verify that instrument air header downstream of the filters has a pressure switch which initiates the closing of a shutoff valve on the service air header in the event the instrument air pressure drops to 85 psig and low-pressure is alarmed in the control room.	GJDaggett	Complete	RPM written to install bypass around CV-1212 such that on line test can be performed. Closed per PPAC CAS052.
00020	AIR 2 5	9.5.3.1 Normal instrument air load is now approximately 180 scfm versus 195 scfm stated in FSAR. Compressor cycle time is being trended by System Eng which will flag degraded compressor or system performance. FSAR will be modified.	GJDaggett	Complete	1 of 3 new inst air compressors will be installed during Refout 88. FSAR will be revised as necessary. This item is also a licensing commitment. Closed per FSAR Change Request 9-43-R6-196 and 8-01-R6-197.
00021	AIR 3 2	9.5.3.3 Our backup nitrogen system is maintained at 60 psig. The adequacy of 60 psig vs 70 psig will be reviewed and the FSAR corrected.	GJDaggett	Complete	Closed by FSAR Change Request 9-37-R3-137 (10/30/87).
00022	AIR 3 2	9.5.3.3 During design basis accident or post-DBA condition, operation of piston-type air-operated valves may be desired. Generate PACS to periodically test the function to the flow control valves supplied with backup N ₂ .	GJDaggett	Complete	Closed per PPAC X-OPS-405 for T-232 and PPAC X-OPS-441 for T-278.
00023	AIR 3 3	9.5.3.3 Generate PACS to address testing to assure that CCW containment isolation valves have accumulators to position valves during a DBA in response to loss of instrument air.	GSzcrzypka	Closed	Same as Logn #06043. Special Test T-223. (7/23/88)
00024	AIR 4 1	ONP-25.2 - 4.12 - Restore Instrument Air (using LCC-13 power feed to LCC-91) - Alternate power feed to LCC-91 will be tested periodically.	RAFenech	Complete	PPACS XOPS 422 issued to test this lineup.
00025	CAC 1 3	6.3.2.1 The service water discharge and supply valves may be manually operated from the main CR and the engineered safeguards local panel. - The surveillance will be modified to periodically stroke these valves from the local panel. (QO-5)	DDCrabtree	Complete	Rev 29 of QO-5.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

<u>LOGNO</u>	<u>SYSTEM/PAGE/ITEM</u>	<u>REFERENCE (FSAR or other) COMMITMENT</u>	<u>ASSIGNED INDIVIDUAL</u>	<u>DUE DATE</u>	<u>STATUS</u>
00026	CAC 1 4	6.3.2.1 All fans may be manually started or stopped from the main Ck or at the individual breakers. - A PACS will be generated to periodically operate the fans locally.	GJDaggett	Complete	Closed per PPAC X-OPS-438.
00027	CAC 2 2	6.3.2.1 During post DBA operation, water flows of over 150 gpm will flow through the overflow valves. - PACS will be developed for future inspections.	GJDaggett	Complete	Closed per PPAC's CRS001, CRS002, CRS003 and CRS004.
00028	CAC 2 5	6.3.2.2 3 If standby power is not available and a SIS occurs the emergency D/Gs are started and the DBA sequencers allow all four coolers to start using the DBA rated fans. Recent T/S change submittal is to require only three coolers for DBA requirements. FSAR will be revised to pick this up.	GJDaggett	Complete	Per GJD the FSAR was revised under an FC. FSAR change number 6-19-R4-176.
00029	CAC 3 1	6.3.2.2 A surveillance test will be developed to verify containment air cooler operability on a refueling frequency. Rev 1	GJDaggett	Closed	Special Tests T-216 and T-219 tests CCW flow to coolers. Pm's are in place to clean coils internally. Cooler fans are also tested. Based on testing of individual components no additional testing is needed.
00030	CAC 4 6	FC 713 A review of modification history was performed since start of 1985 Refueling Outage. FC-713 changed VHX-4 service water outlet valve (CV-0867 from fail-open to fail-closed. RO-12 will be revised to address this mod. QO-5, Att 1, page 5 of 14 will be revised to address closure time instead of opening time. Rev 1	DDCrabtree	Complete	See RO-12 and QO-5 Att 1, Page 5 of 14. (01/07/88)
00031	CAC 5 1	SOP5 7.1.3 Accident condition operation. SOP-5 7.1.3a will be revised to reflect the correct accident condition of the fans and coolers. Rev 1	RJFrigo	Complete	SOP 5 Section 7.1.3 revised to reflect CV-0867 closed for accident condition operation. (12/17/87)
00032	CAC 5 1	SOP5 7.1.3 RO-12 will be revised to address the auto closure of VHX-4 service water outlet valve (CV-0867) on a safety injection signal. Rev 1	TABuczynski	Complete	TCN 87-11 to RO-12 to verify CV0867 closes on CHP (01/07/88).

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

<u>LOGNO</u>	<u>SYSTEM/PAGE/ITEM</u>	<u>REFERENCE (FSAR or other) COMMITMENT</u>	<u>ASSIGNED INDIVIDUAL</u>	<u>DUE DATE</u>	<u>STATUS</u>
00033	CCS 4 2	9.3.2.3 3 Containment high pressure now will close the CCW to containment supply and return valves. RO-12 tests containment isolation valves. (This outage we modified the system such that a CHP signal rather than a SIS will cause containment isolation.) The FSAR will be modified to clarify.	RMBrzerinski	Complete	Closed by FSAR Change Request 7-35-R3-152 (10/30/87).
00034	CCS 8 1	Table 9-7 Number of Operating Pumps: Special Test T-213 and T-223 were performed during the 1986 maintenance outage to verify sufficient flow to all safety related loads following DBA. FSAR will be modified for new values as a result of the new analysis.	GSzczyпка	Complete	Closed by FSAR submittal 10/30/87. FSAR Change 9-43-R3-144.
00035	CCMS 1 3	9.3.2.1 The pumps can be started and stopped from the main CR and also locally at the switchgear. - Surveillance procedures will be modified to start pump locally periodically.	GSzczyпка	Complete	QO-15 Rev 0 includes this requirement.
00036	CCMS 1 4	9.3.2.1 The system can be vented to aux bldg through a diaphragm-operated three-way valve on the surge tank. - A PACS will be generated to periodically test this function in the future.	GSzczyпка	Complete	Covered by quarterly test HP 6.8.
00037	CCMS 10 2	7.6 SOP-16 - ECCS pump backup service water supply valve will be cycled periodically.	GSzczyпка	Closed	Duplicate of log #0041.
00038	CCMS 2 1	9.3.2.1 Supply valves to systems shown below are operable from main CR and all, except the containment isolation valves and the fuel pool supply line valve, are operable from the Engineered Safeguards Aux Panel: 1 Shutdown Cooling Heat Exchangers 2 Engineered Safeguards Pumps 3 Spent Fuel Pool Heat Exch 7 Radwaste Equip 4 Services Inside Containment Surveillance Procedures will be reviewed to determine which valves are not periodically cycled from C-33. Procedures will be modified to test these vlvls locally periodically. Rev 1	GSzczyпка	Complete	QO-5 revised to include C33 stroking (5/10/88).

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00039	CCMS 2 3	9.3.2.3 3 The valves in the gland cooling water supply and return headers are automatically opened by a SIS to supply OCM to Engineered Safeguards pumps. - A PACS will be generated to cycle periodically.	GSzczyrka	Complete	Quarterly Q0-16, Q0-19, Q0-20 cycle these valves.
00040	CCMS 3 1	9.3.2.3 Starting of the third OCM pump is initiated by a low pressure signal received from the pressure switch on the OCM pumps common discharge header. - A test will be generated to periodically test this function.	GSzczyrka	Complete	Closed per PPAC CCS033.
00041	CCMS 4 1	9.3.2.3 3 Low cooling water flow in the supply header to each Engineered Safeguards Equipment Room is annunciator in the CR. Changeover from OCM supply to SW is performed by remote manual closing of component cooling supply valve and return valve and opening one of the two SW supply valves and the return valve from the main CR or from the local Engineered Safeguards Auxiliary Panel. - A PACS will be generated to cycle Service Water backup to ESS pump cooling periodically in the future. Rev 1	GSzczyrka	Complete	T/S Test Q0-1 cycles CV6951, MO-29 cycles CV0880, CV0879. Also PAC SMS065 and SMS047. (01/07/88) Also PPAC X-OPS-428.
00043	CCMS 4 3	9.3.2.3 3 Air accumulators of OCM return header isolation valves are not periodically tested. Valves are cycled via Q0-6 with instrument air available. PACS will address and testing will be included as part of augmented test program.	GSzczyrka	Complete	PPAC X-OPS-426 (7/31/88)
00044	CCMS 8 1	Table 9-7 Number of Operating Pumps - MO-29 will be modified to include OCM supply to P-55B and P-55C. See E-PAL-86-093.	GSzczyrka	Complete	See T/S Test MO-29 Rev 18. (01/07/88)
00045	CCMS 9 2	9.3.2.3 1 High component cooling temperature annunciation is not tested. A PACS will be generated to check periodically.	GSzczyrka	Complete	PPACS CCS-007 on TIA 914/916 annunciator is verified. (01/07/88)
00046	CCMS 9 3	9.3.2.3 1 Tank low level is annunciator in the CR. A PACS will be generated to check periodically.	RMBrzezinski	Complete	Performed by PPACs CCS-009.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00047	CCMS 9 4	9.3.2.3 1 High activity is annunciated in the main CR. A FACS will be generated to check periodically.	RMBrzezinski	Complete	HP Procedure 6.8 verifies. PAC X-HLPHY120 requires quarterly performance. (07/18/88)
00048	CIS 1 4	6.7.2.3 The main steam line isolation signal initiates closure of main steam line isolation valves and is derived from two out of four containment high-pressure signals (CHP) or two out of low pressure signals from either S/C. - RI-17 will be revised to document the feature of MSIV closure on low S/C pressure. Rev 1	RMBrzezinski	Complete	RI-17 Rev 9 documents MSIV closure on low S/C pressure.
00049	CIS 1 6	6.7.2.3 Containment de-isolation is accomplished by a manual reset push button each circuit when containment pressure and radiation have decreased below the isolation trip points on at least 3 of the 4 pressure and rad sensors. In response to NUREG-0737 all auto containment isolation valves are electrically locked closed to preclude auto opening upon resetting of CIS. Subsequent to resetting of CIS the control switch for each valve will need to be moved to the "close" position and then to the "open" to reopen valve. This is not precisely true for MSIVs and CCW valves. FSAR will be clarified.	MDKing	Complete	Closed by FSAR Change Request 6-12-R3-125. (10/30/87)
00050	CIS 2 1	6.7.2.3 Instrumentation and control circuits in the CIS are fail-safe. - CCW valves from containment are air to close valves with accumulators to allow valve closure on loss of instrument air. This feature is not periodically tested. PACS being written to address. ST and SR relays are energized to isolate. FSAR will be clarified.	GSzczyпка	Complete	FSAR Change Request 6-16-R3-126. PPAC X-OPS-426 will close this item.
00051	CIS 2 1	6.7.2.3 CCW valves from containment are air to close valves with accumulators to allow valve closure on loss of instrument air. - PACS be written to test periodically.	GSzczyпка	Complete	PPAC X-OPS-426 will close this item.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

<u>LOGNO</u>	<u>?</u>	<u>/PAGE/ITEM</u>	<u>REFERENCE (FSAR or other)</u> <u>COMMITMENT</u>	<u>ASSIGNED</u> <u>INDIVIDUAL</u>	<u>DUE DATE</u>	<u>STATUS</u>
00052	CIS	2 3	7.7.2.3 CIS can be manually initiated with the test switch in the following sequence of ops: Either of 2 redundant switches located in CR pushed to test position de-energizes 2 of 4 channels which will initiate containment iso, initiate SIS and start the containment spray pumps. The spray valves will not open in test position. The containment spray valve can be manually opened by means of their individual hand switches located in CR. Implied logic function is not completely true as specified in FSAR. FSAR will be clarified.	RMBrzerinski	Complete	See also 910, 911. Closed by update to FSAR 5,6,2,3, 6.7.3.2, 7.3.3.2 Rev 3 (10/30/87)
00053	CIS	2 4	6.7.3.2 Operation of the automatic isolation valves can be tested during power operation or while shutdown by means of push buttons located in the main CR. This testing cannot be performed during power operations. The FSAR will be clarified.	MDKing	Complete	Closed by FSAR Change Request 6-16-R2-129. (10/30/87)
00054	CRHV	1 1	9.8.2.4 2 A PACS will be developed to periodically test the post accident function to remove smoke from the control room to allow re-entry.	GJDaggett	Complete	See RO-28 revision, also PAC S-8028. (01/07/88)
00055	CRHV	1 1	9.8.2.4 2 Tornado Dampers - are a passive mechanical device. A PACS will be developed to periodically test.	GJDaggett	Complete	PACS VAS 082, VAS 133 now exist to lubricate the dampers. Dampers were inspected 2/87.
00056	CRHV	2 1	7.4.5.1 NUREG-0800 II.3.a requires positive pressure "relative to all surrounding air spaces". The turbine building and the attached corridor constitute the surrounding air space for normal entry to the CR. Reviewing the different options to locate the reference point, this location was considered the best. See E-PAL-85-022. The acceptance criteria of RO-28 requires greater than 0.125 inch of water vice 0.5 inch of water. The FSAR will be changed to correct this discrepancy.	RMBrzerinski	Complete	Closed by FSAR Change 7-32-R3-148. (10/30/87)
00057	CRHV	2 2	9.8.2.4 A PACS will be generated to periodically test the smoke detector.	GJDaggett	Complete	T/S Test SI-7 Revision (01/07/88)
00058	CRHV	3 1	Table 9-15 Some design basis numbers in Table 9-5 do not reflect normal plant operation. The FSAR will be updated.	GJDaggett	Closed	No change required. Further review indicates table data is acceptable.

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

<u>LOGNO</u>	<u>SYSTEM/PAGE/ITEM</u>	<u>REFERENCE (FSAR or other) COMMITMENT</u>	<u>ASSIGNED INDIVIDUAL</u>	<u>DUE DATE</u>	<u>STATUS</u>
00059	CRHV 3 3	SOP-24 7.6.6 & 7.6.7 - A PACS will be developed to periodically test the purge mode (purge CR with fresh air).	GJDaggett	Complete	I/S Test RO-28 revision and PACS S-RC28. (01/07/88)
00060	CRHV 3 5	SOP-24 7.6.12 PACS for calibration of temperature indicators TE-1733, 1734, 1735, and 1736 and their alarms will be developed. (Fire in CR HVAC charcoal filters)	RMBrzezinski	Complete	Performed by VAS 101 & 102 (6/24/88)
00061	CSIR 1 1	6.2.1 ESS-1-13 is a maintenance procedure which verifies sequencer operation and pump sequence times. The test is performed on a refueling cycle. The starting times are incorrect as presently stated in the FSAR. The FSAR will be changed to reflect the proper time of 7 seconds and 30 seconds.	MDKing	Complete	Closed by FSAR Change 6-15-R3-128. (10/30/87)
00062	CSIR 2 1	6.2.2.3 2 Initially the pumps take suction from SIRW tank. Upon reaching low tank level, continuation of containment spray is accomplished by automatic transfer of the pump suction to the containment sump. Transfer is automatically accomplished by closing the SIRW tank suction valves and opening the containment sump outlet valves. Switchover is initiated on coincident low level signals from two of the four level switches in the SIRW tank. - RAS has been changed to 1/2 taken twice logic. FSAR will be corrected.	RMBrzezinski	Complete	Closed by FSAR Change 6-14-R3-127. (10/30/87)
00063	CSIR 7 2	6.4.2.1 An iodine removal hydrazine tank and an iodine removal makeup sodium hydroxide tank are provided with redundant tank heating and temperature controls to maintain a minimum temperature in both tanks to avoid freezing or precipitation. Alarm set points will be verified periodically.	RMBrzezinski	Complete	Alarms verified by ESS-019 and ESS-095 (6/29/88)
00064	CSIR 7 5	6.4.2.1 The iodine removal hydrazine tank contains 270 plus or minus 17 gallons of 15.5 plus or minus 0.5% by weight of hydrazine solution with a nitrogen cover gas pressure of 11.2 plus or minus 2 psig. Alarms exist in main CR and alarm setpoints will be verified periodically.	RMBrzezinski	Complete	Performed by ESS-018: pressure and ESS-086 & 088: level (6/24/88)

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00065	CSIR 8 1	6.4.2.1 The sodium hydroxide tank provides a storage volume of 4200 plus or minus 300 gallons of 30.0 plus or minus 0.5% by weight sodium hydroxide solution with a nitrogen cover gas. Alarms exist in main control on tank hi/lo level. Alarm setpoints will be verified periodically.	RMBrezinski	Complete	Performed by ESS-018: pressure ESS-017 & 087: level (6/24/88) (6/24/88)
00066	CSIR 8 4	6.4.2.2 Op procedures require the operator to proceed with injection prior to the one-minute time delay if radiation levels indicate cladding failure and fission product release. - If at the end of one minute, it is determined to be a spurious signal or a secondary line break, the hydrazine injection signal will be manually overridden. - EOPs do not address early initiation of hydrazine injection for hi rad levels. The procedures will be reviewed and modified.	RJFrigo	Closed	EOPs do not require initiation of containment spray (and iodine removal) on indication of high radiation alarm. A high pressure in containment (ie > 3.7 psig is required to provide the driving force to make offsite release possible. Therefore iodine injection (ie containment spray will only be required when containment high pressure conditions exist. No changes in the EOPs are warranted. (12/17/87)
00067	CSIR 8 7	6.1.2.3 One or more spray pumps can also be used to augment flow to the core after the pressure is reduced. EOPs do not address use of spray pumps as alternate injection pumps. Operating procedures will be reviewed and modified as necessary to address this evaluation. FSAR will be clarified. Rev 1	RJFrigo	Complete	EOP 9.0 now uses containment spray pumps as an alternative for injecting SRWT water into core. Rev 9.0 (Rev 0) Success Path RC-3 Step 7. (12/17/87)
00068	CVC 2 1	9.10.2.4 Any one of the 3 charging pumps can inject boron into the primary system at a rate of 460 ppm/h; whereas the increase in reactivity due to cooldown and xenon decay is equivalent to a boron reduction rate of about 160 ppm/h. This statement does not impact safety analysis on record and is not an issue for normal cooldown. FSAR change is required to eliminate this statement.	EMHass	Complete	Closed by FSAR Change 9-31-R3-109. See Rev 3 Page 9.10-4. (10/30/87)
00069	CVC 3 1	9.10.2.6 Item 7 - The variable capacity of charging pump is capable of supplying a variable output of 33-53 gpm. The fixed capacity charging pumps have a design output of 40 gpm. The safety requirement for charging pump flow is 68 gpm for 2 charging pumps (main steam line break analysis) See JAM 86-038. Therefore, present surveillance testing is adequate. FSAR will be changed to clarify.	GJList	Complete	Closed by FSAR Changes 9-28-R3-102 and 9-28-R3-103. (10/30/87)

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00070	CVC 4 3	9.10.2.6 Item 11 - Each boric acid pump is capable of supplying boric acid at the maximum demand condition. Maximum demand is assumed to be the supply required with all 3 charging pumps operating - 133 gpm. The maximum required flow is 68 gpm as defined by the MSLE analysis. 1) The acceptance criteria will be modified to 68 gpm. 2) The FSAR will be modified to clarify this requirement.	GJList	Complete	1. Acceptance criteria changed to 34 gpm. 2. Closed by FSAR Change 9-30-R3-104.
00071	CVC 4 4	9.10.2.6 Item 12 - The boronmeter and its recorder are presently not in our preventive maintenance program. This will be evaluated in the future for need for boronmeter.	GJList	Complete	Boronmeter abandoned in place.
00072	CVC 5 1	9.10.2.6 The process radiation monitors RIA-0202A & B monitor the fluid from the primary coolant loop for high levels of activity which would provide an indication of failed fuel. RR-09L checks RIA-0202A as req by T/S. RIA-0202B is not req by T/S. A test will be generated to periodically calibrate RIA-0202B	RMBrzezinski	Closed	FSAR only references RIA-0202A. No action necessary (6/30/88)
00073	CVC 7 3	9.10.3.3 Makeup water is not automatically introduced at the shutdown boric acid concentration. Makeup to the volume control tank is normally operated in the manual, dilute or borate mode. This will reviewed and the FSAR will be clarified.	GJList	Complete	Closed by FSAR Change 9-38-R3-138. (10/30/87)
00074	CVC 8 1	9.10.3.3 Either the pressurizer level control or the SIS will automatically start all charging pumps. - FSAR needs to be clarified. All 3 charging pumps do not start by SIS. The 3rd pump starts on low level in the pressurizer.	GJList	Complete	FSAR Change Request 9-49-R5-189 also corrected Section 9.10.2.6.7.
00075	CVC 8 1	9.10.3.3 Under emergency conditions either the pressurizer level control or the safety injection signal will automatically start all charging pumps. The SIS will also cause the charging pump suction to be switched from the control tank to the discharge boric acid pump. - Charging pumps start on receipt of a pressurizer low level sig. 1 will be verified periodically.	RMBrzezinski	Complete	Pump start on SIS is verified during QO-1 and RO-8.

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00076	CVC 9 1	9.10.4 The boric acid pumps and the charging pumps may be controlled locally at their switchgear. - Charging pumps will be started locally periodically.	GJList	Complete	Closed per Tech Spec Surv Tests Q0-17 and Q0-18.
00077	CWS 1 4	Table 10-9 Cooling Tower Pump Design Flow. Trend program will monitor performance during power escalation.	DCTurner	Complete	See Trend Program EM-20 Circ Water and Quarterly Report (01/07/88)
00078	EEPS 1 2	8.2.2 Switchyard battery capacity and load testing is not routinely performed. This will be reviewed.	SROakley	Complete	T-FC799-8303-5C1 will test new switchyard batteries per PPAC SWY006.
00079	EEPS 1 4	8.2.2 The 345 kV power circuit breakers have enough air stored in their high pressure receivers to permit five breaker operations. - Testing of the 345 kV breaker to cycle on loss of air compressors will be tested periodically in the future.	SROakley	Complete	PPAC SWY-005 tests breaker using air receiver capacity.
00080	EEPS 11 3	8.4.1.3 Each emergency generator and diesel engine is provided with several alarms, interlocks and trips. Each engine may be started and placed in service locally or from the CR. The generators may be synchornized from the CR so that they can be paralleled with the system for loading tests. - All alarms, interlocks and trips on page 8.4.4 of FSAR will be tested periodically.	SROakley	Complete	Closed per PPAC's EPS006 thru EPS020, EPS025, EPS026, FOS001, SPS025, SPS035 and Special Tests T-262 and T-263.
00081	EEPS 11 4	8.4.1.3 The diesel will be automatically tripped on generator differential or overcurrent relay action, engine overspeed/underspeed, overcrank or low lube oil pressure, low jacket water pressure and can be manually tripped at any time from the local station or from the CR. - Diesel engine trips will be tested periodically.	SROakley	Complete	Closed per Special Tests T-262, T-263, T-264, T-265 and PPAC's MSE042 thru 045.
00082	EEPS 13 1	8.6 Voltage protection and load shedding. - FSAR Chapter 14 time delays will be verified.	SROakley	Complete	Tests RE-66A and RE-66B already contain adequate requirements.

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

<u>LCNO</u>	<u>SYSTEM/PAGE/ITEM</u>	<u>REFERENCE (FSAR or other) COMMITMENT</u>	<u>ASSIGNED INDIVIDUAL</u>	<u>DUE DATE</u>	<u>STATUS</u>
00083	EEPS 13 1	8.6 The voltage protection system automatically prevents load shedding of the safety-related buses when the emergency generators are supplying power to the safeguards loads. Automatic bypass and reinstatement is verified by periodic testing. - This will be tested periodically.	SROakley	Complete	Closed by RT-8C and RT-8D refueling tech spec tests.
00084	EEPS 14 1	8.7.1.7 Battery Room Protection. A sail switch in the ventilation duct warns the control room of a loss of battery room ventilation. - Verify this sail switch functions periodically.	GJDaggett	Complete	FC-798 has installed a battery temp alarm which resolves this issue.
00085	EEPS 2 4	8.2.3 Station loads, including the safety loads, are normally supplied from the main generator through the station power transformer. On loss of the main generator there is an automatic transfer from this normal source to the immediate access offsite power circuit (see Section 8.6). This design includes provision to test this feature during plant operation. - Clarify FSAR that this function is not tested during normal operation.	SROakley	Complete	FSAR Change 6-14-R3-131. (10/30/87)
00086	EEPS 2 4	8.2.3 Station loads, including the safety loads, are normally supplied from the main generator through the station power transformer. On loss of the main generator there is an automatic transfer from this normal source to the immediate access offsite power circuit (see Section 8.6). The design includes provisions to test this feature during plant operation. - Periodically test fast transfer in the future.	SROakley	Complete	Closed per Special Tests T-273 and T-274, and PPAC's MSE040 & MSE041.
00087	EEPS 3 2	8.3.1.2 Following a turbine or reactor trip, the 4,160 volt buses 1A and 1B will automatically transfer to the standby source and all auxiliaries will continue to run. - Last cycle the plant operated normally on startup power. - If it is determined to operate on station power, fast transfer testing will be periodically performed. Rev 1	SROakley	Complete	Closed per Special Tests T-273 and T-274, and PPAC's MSE040 and MSE041.

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00088	EEPS 3 2	8.3.1.2 Following a turbine or reactor trip, the 4,160 volt Buses 1A and 1B will automatically transfer to the standby source and all auxiliaries will continue to run. Last cycle the plant operated normally on startup power. This mode of normal plant operations is presently being evaluated. Rev 1	SROakley	Complete	It has been determined that operating on station power is the proper mode.
00089	EEPS 3 4	8.3.1.2 If the trip is accompanied by a failure in the standby source, the turbine generator will supply power to the primary coolant pumps for a limited time while coasting down to 80% speed. - Periodic testing will be performed if this is determined to be necessary.	SROakley	Complete	Closed per Special Tests T-273 and T-274, and PPAC's MSE040 and MSE041.
00090	EEPS 3 6	8.3.2.2 The 2400 volt system has sufficient capacity to start the largest motor when all the other motors are energized. - Load studies will be reviewed to verify this function.	SROakley	Complete	Closed per internal memo SR088-018.
00091	EEPS 4 2	8.3.2.2 8.4.1.2 also. Periodically test to verify remote/local operation of App R isolation switches for the 2400 V breakers. PACS will be generated.	SROakley	Complete	Closed per Special Test T-280 and PPAC's SPS001 and SPS058.
00092	EEPS 4 4	8.3.2.2 All 2400 breakers on Buses 1C and 1D are also capable of being controlled from the switch gear. - Breakers will be operated locally to verify control of Bus 1C and 1D from switchgear periodically.	SROakley	Complete	Closed per PPAC's Q0-14, Q0-15, Q0-16, Q0-19, Q0-20, M0-38, SPS001, SPS058 and I-OPS-439.
00093	EEPS 5 2	8.3.3.2 The 480 volt system has sufficient capacity to start and accelerate largest motor when all other motors on the system are energized. This method will be reviewed to determine if this criteria is an input to those loads.	SROakley	Complete	Closed per internal memo SR088-018.
00094	EEPS 5 3	8.3.3.2 Critical breaker and motor overload trips are annunciated in the control room. - The annunciation of critical breaker trips and motor overload trip will be verified periodically in the future to the extent practical.	SROakley	Complete	Closed per PPAC's SPS177 thru SPS263.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

<u>LOGNO</u>	<u>SYSTEM/PAGE/ITEM</u>	<u>REFERENCE (FSAR or other) COMMITMENT</u>	<u>ASSIGNED INDIVIDUAL</u>	<u>DUE DATE</u>	<u>STATUS</u>
00095	EEPS 6 4	8.3.3.2 Pressurizer heaters do not trip on a SIS signal. FC-683 was completed during 1986 maintenance outage. FSAR will be corrected.	KEOsborne	Complete	FSAR Change Requests 4-13-R3-124 and 8-17-R3-134 submitted 10/30/87.
00096	EEPS 7 3	8.3.5.2 Both DC systems are ungrounded and are equipped with ground detectors continuous monitoring. Monitoring is also provided on other important system parameters, such as bus voltage and current. Abnormal conditions are annunciated in the control room. - The ground detectors and annunciators will be verified periodically.	SROakley	Complete	Closed per PPAC's SPS156 thru SPS176, SPS003 and SPS004.
00097	EEPS 7 4	8.3.5.2 The 125 volt DC buses undervoltage relays are not periodically calibrated. This was tested under modification procedure FC-407-148. This relay and annunciator will be verified periodically.	SROakley	Complete	Closed per PPAC's SPS156 thru SPS176.
00098	EEPS 7 2	8.3.5.2 Items 2 and 3. - The shunt trip device associated with the 125 volt DC buses will be tested periodically. Rev 1	SROakley	Complete	Closed per PPAC SPS176.
00099	EEPS 8 1	8.3.5.2 The preferred AC buses operate ungrounded and are equiped with ground detectors. - The ground detectors will be verified periodically.	SROakley	Complete	Closed per PPAC's SPS003, SPS004, and SPS156 thru SPS176.
00100	EEPS 8 5	8.3.5.2 Emergency Operation. On loss of normal and standby AC power, all DC loads will be supplied from the station battery. As soon as one of the diesel generators has started and is ready for loading, the battery chargers will automatically resume operation and support the battery. - RO-8 will be revised to document auto operation of battery chargers.	SROakley	Complete	Closed by RT-8C and RT-8D, refueling tech spec tests.
00101	EEPS 8 7	8.3.5.2 System Monitoring. The DC and preferred AC power systems (ie, chargers, inverters, batteries and breakers) are controlled locally. The operational status information is displayed locally. - Periodic testing and calibration of alarm and monitoring devices associated with DC and preferred AC power systems will be verified periodically.	SROakley	Complete	Closed per PPAC's SPS003, SPS004, and SPS156 thru SPS176.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00102	EEPS 9 1	8.3.5.3 Periodic testing and calibration of alarm and monitoring devices associated with DC and preferred AC power systems will be done to ensure proper operation.	SROakley	Complete	Closed per PPAC's SPS003, SPS004 and SPS156 thru SPS176.
00103	EEPS 9 2	8.3.5.3 Modifications have been performed to add loads to preferred AC buses. This will be reviewed to verify excess capacity still exists. If not the FSAR will be clarified.	SROakley	Complete	FSAR Change 8-18-R3-145 (10/30/87)
00104	ESC 2 1	7.3.2.2 Safety Injection with Standby Power Available - If standby power is available at the time of initiation of SIS, fast transfer to the standby source is effected by the turbine generator trip. The SIS relays initiate the simultaneous start of the engineered safeguards equipment. - No periodic test documents the operability of the fast transfer relays associated with standby power. An appropriate test will be generated to periodically test in the future.	SROakley	Complete	Closed per Special Tests T-275 and T-276 and PPAC's MSE038 and MSE039.
00105	ESC 2 7	7.3.3.2 Instrument air and MSIV bypasses in control room are not closed by SIS as implied by FSAR. FSAR will be corrected.	RMBrzerinski	Complete	FSAR Change 7-35-R3-152 (10/30/87)
00106	ESC 3 1	7.3.3.2 Resetting the isolation circuits will not result in automatically opening the containment isolation valves, the operator must manually reopen each valve, except CCW valves. Resetting CHP will result in CCW valves reopening. FSAR will be clarified.	RMBrzerinski	Complete	FSAR Change 7-35-R3-152. (10/30/87)
00107	ESC 3 5	7.3.3.3 Failure in control source power to the pressure/radiation sensor relay circuit or to the redundant initiating circuit causes the circuit to fail in a mode to initiate isolation, but isolation will not be affected unless a second failure occurs. The FSAR statement will be enhanced to be more specific.	RMBrzerinski	Complete	FSAR Change 7-35-R3-152. (10/30/87)

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00108	ESC 4 1	7.3.4.2 Coincident two out of four low level in SINWT signals will initiate valve operations and trip both low pressure safety injection pumps. A manual bypass is provided so that the low pressure safety injection pumps may be restarted. A modification installed this outage changed the 2 out of 4 logic to 1 out of 2 taken twice. The FSAR will be corrected.	KBOsborne	Complete	FSAR Change 7-31-R3-147. (10/30/87)
00109	ESC 4 4	7.3.2.2 Failure of the control power or any one redundant circuit will be annunciated in the control room. - Annunciators are not periodically tested. These will be tested periodically in the future.	SROakley	Complete	Closed per FPAC's ESS126 thru ESS128, PWS093, PWS094, MS1001 thru MS1008, SPS152 thru SPS155 and TCS077.
00110	ESC 4 6	7.3.3.2 TESTING. The containment high pressure detectors and aux relays can be tested at power without actuating containment isolation by tripping 1 out of the 4 local pressure switches. Actuation of the aux relay is annunciated in the control room. The detectors and aux relays for containment hi radiation are tested in the same manner as containment high pressure circuits. FSAR wording will be verified.	RMBrzerinski	Complete	FSAR Rev 3. FSAR Change 7-35-R3-152
00111	ESC 5 1	7.3.3.2 Testing described in the FSAR is not the method used. FSAR will be clarified.	RMBrzerinski	Complete	FSAR Rev 3. FSAR Change 7-35-R3-152
00112	FPS 1 6	9.6.3.1 There are no PACS to periodically schedule these activities. Ops Dept manually schedules and controls these checklists. The scheduling system will be reviewed for effectiveness.	RWPhillips	Complete	The existing scheduling system is adequate. No PACS required.
00113	FPS 2 2	9.6.3.1 A dry pipe fusible link sprinkler system is provided for protection in track alley. It is annunciated and indicated in the same manner as the wet pipe systems. - This activity is not scheduled periodically by a PACS. Ops Dept manually schedules and controls this checklist (CL21.17). This scheduling system will be reviewed for effectiveness.	RWPhillips	Complete	The existing scheduling system is adequate. No PACS required.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOCNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00114	FPS 2 4	9.6.3.1 Portable fire extinguishers are provided at convenient and accessible locations. The extinguishing media are pressurized water, Co ² or dry chemicals as appropriate for the service requirements of the area. - There are no PACS to periodically schedule these activities. Operations Dept manually schedules and controls Checklists. This system will be reviewed for effectiveness.	RWPhillips	Complete	The existing scheduling system is adequate. No PACS required.
00115	FPS 4 5	Table 9-12 There is no periodic test to verify capacity of the fire system jockey pump (P-13). Normal plant operations and indications would denote if system pressure (flow) degraded to cause the other pumps to start. This will be reviewed for inclusion in the equipment trend program.	GJDaggett	Complete	See EM-20 Trend Program. (01/07/88) No further trending required.
00116	HFA 1 1	9.5.2.1 We do not periodically test stroke the associated safety valves to verify that the HP air system is capable of placing the valves in their safety position. - A PACS will be generated to perform Special Test T-205 periodically.	TABuczynski	Complete	Valves are stroked by the following PPACS: ESS 112 - CV3018, 3027, 3036, 3037, 3056, 5059; FIN 063 - CV 0347, 0744; KOPS 279 - CV 3006, 3025, 3055; ESS 110 - CV3031, 3055, 3057, 3070, 3071, 3212, 3213, 3223, 3224; ESS 069 - CV3029, 3030, 3031, 3057, Q0-21 - CV 0521 This should be sufficient to replace performance of T-205. (01/07/88)
00117	HPSI 1 1	6.1.1 One high pressure pump has sufficient capacity with 25% spillage to maintain the core water level at the start of recirculation. FSAR will be expanded to define what this means.	SKupka	Complete	FSAR change submitted.
00118	HPSI 1 2	6.1.1 The hot leg injection is designed to split HPSI flow so that half goes to one hot leg and the other half goes to the four cold legs. The FSAR will be clarified as to how much flow is required to get to each hot leg to meet design assumptions.	SKupka	Closed	FSAR wording is accurate and clear. No change required.
00119	HPSI 5 3	Table 6-3 HPSI Pump Design Flow - The coil pump performance curve will be verified for HPSI pumps during the next Refueling Outage.	SKupka	REPORT 88	Verification will be done by the end of REPORT 88.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

<u>LOGNO</u>	<u>SYSTEM/PAGE/ITEM</u>	<u>REFERENCE (FSAR or other) COMMITMENT</u>	<u>ASSIGNED INDIVIDUAL</u>	<u>DUE DATE</u>	<u>STATUS</u>
00120	HPSI 5 4	6.3.2.2 A low-flow alarm is provided on the seal cooling water to the pumps to warn of cooling water or seal cooling malfunction. - Annunciator is not specifically tested. This will be verified this outage and periodically in the future.	RMBrzezinski	Complete	Closed per Proc CCS-1-4 and PFAC CCS001.
00121	HVAC 1 1	9.8.2.4 13 As a result of evaluation of IEB 80-06 circuitry modifications were made to ESF Room Cooler Valves SV-0825 & SV-0875 such that these valves do not close upon an ESF reset signal. In addition, to preclude an inadvertent closure of the SV valves supplying cooling to the ESF room coolers, the hand switch controllers (HO-0825A & HS-0875A for these valves were changed from hand switches w/o locks to hand switches with cylinder lock operators. FSAR will be modified to correct this discrepancy.	DCCrabtree	Complete	FSAR Change 9-35-R3-135. (10/30/87)
00122	HVAC 1 4	9.8.2.5 The performance of the Safeguards Room Coolers will be verified prior to startup and periodically thereafter.	GJDaggett	Complete	Will be done under PACS VAS 199.
00123	LPSI 2 2	6.1.2.1 The SIS also opens certain valves, as shown on P&ID 203, Sh 1 & 2. FSAR will be clarified on P&ID numbers. These numbers are not correct.	TCSaarela	Closed	No change required. P&ID's are properly referenced.
00124	LPSI 7 2	6.1.2.3 The supply valves from the SIRW tank and sump are designed to ensure at least a one minute overlapping stroke to allow mixing and assure adequate NPSH during the transfer. - The acceptance criteria Q0-2 may not positively demonstrate that flow from the sump and SIRW tank will overlap for a minimum of one minute following receipt of a RAS. The acceptance criteria to Q0-2 will be reviewed and the FSAR will be clarified. (Was Page 6, Item 2)	TCSaarela	Complete	Closed per FSAR Change Request 6-24-R5-188 and Revision 19 of Q0-2

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

<u>LOGNO</u>	<u>SYSTEM/PAGE/ITEM</u>	<u>REFERENCE (FSAR or other) COMMITMENT</u>	<u>ASSIGNED INDIVIDUAL</u>	<u>DOE DATE</u>	<u>STATUS</u>
00125	LPSI 7 2	6.1.2.3 Item 3.6. The supply valves from the SIRW tank and sump are designed to ensure at least a one minute overlapping stroke to allow mixing and assure adequate NPSH during the transfer. The acceptance criteria of QO-2 may not positively demonstrate. QO-2 will be reviewed and modified. (Max Page 6)	TCSaarela	Closed	Duplicate of Item #00124.
00126	LPSI 8 2	6.1.2.2 8 The SIRW tank temperature is indicated and alarmed for high and low temperature in the main control room. Annunciator feature is not specifically checked. RI-18 will be modified to verify alarm function - Alarm set 110°F. Must be changed to less than 100°F. (Page # changed from 7)	TABuczwinak	Complete	RI-18, Rev 9 Att 1, sets high level alarm at 95°F. Step 5.5 uses annunciator to indicate alarm setpoints. (01/07/88)
00127	LPSI 9 1	6.1.2.2 Level instrumentation mounted on each safety injection tank provides indication in the main control room. Redundant high and low alarms on each tank are provided. Alarms will be tested periodically. (page # changed from 8)	RMBrzerinski	Complete	RI-15C Rev 7 checks the SI tank alarms.
00128	LPSI 9 2	6.1.2.2 8 Containment sump water level indication is provided by two level indicators in the main control room. The high level alarm will be tested periodically. (Page # changed from 8)	RMBrzerinski	Complete	Performed by ESS-001 & RI-68 (6/24/88)
00129	LPSI 9 3	6.1.2.2 8 Water level in each engineered safeguards pump room is indicated in the main control room. This will be calibrated periodically. (Page # changed from 8)	RMBrzerinski	Complete	Performed by RWS-051 (6/24/88)
00130	MPCS 2 3	7.5.1.3 In event of low S/G pressure less than 500 psia, the main feedwater reg and reg bypass vlv are closed to prevent excessive flow to S/Gs. Admin control of bypass of S/G pressure signal to close these vlv is facilitated by using key-operated switches to override the signal for manual takeover of controls. Although the reg bypass vlv have key switches the main reg vlv have push buttons. The push buttons override auto closure of reg bypass vlv, reg vlv & REGIVa. The FSAR will be revised accordingly.	DCTurner	Complete	FSAR Change 7-30-R3-130. (10/30/87)

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00131	MFCS 4 7	MCTF - CDS-01 FMs are being developed to clean the condenser hotwell and to disassemble/inspect CV-0730 each Refueling Outage.	DCTurner	Complete	See PACS CDS-009 and CDS-014. (01/07/88)
00132	MISC 1 9	9.8.2.4 In the event of failure of the radwaste area supply fan, one of the exhaust fans is automatically shut down but the pressure control apparatus will limit the amount of the negative pressure developed by the lack of supply air and prevent excessive pressure differentials. - Supply/exhaust fan interlock will be tested periodically.	TPNeal	Complete	Quarterly Process monitor interlock Procedure HP-6.8 covers this. (01/10/88)
00133	MISC 2 1	9.8.2.4 In the event of a spillage of radioactive material in the radwaste area, the radiation monitor at the filter plenum senses the activity and stops the supply fan, closes the radwaste area supply Damper PO-1809, and stops the selected exhaust fan; however a low flow alarm will override the high rad signal and keep the standby exhaust fan running. - Automatic actions resulting from high rad will be verified periodically in the future.	TPNeal	Complete	Quarterly Process monitor interlock Procedure HP-6.8 covers this. (01/10/88)
00134	MISC 2 9	9.8.2.4 Operation of the Aux Bldg addition fuel handling supply and radwaste supply.If the fan motor is shut off, the fresh air inlet dampers close. - Interlock will be verified periodically.	TPNeal	Complete	Quarterly Process monitor interlock Procedure HP-6.8 covers this. (01/10/88)
00135	MISC 3 1	9.8.2.4 The supply fans will trip on high-radiation signal from radiation monitors located in the corresponding exhaust system ducts. - This will be verified periodically.	TPNeal	Complete	Quarterly Process monitor interlock procedure HP-6.8 covers this. (01/10/88)
00136	MISC 3 5	9.8.2.4 The operation of the aux bldg addition fuel handling area exhaust and radwaste system.... In the event of a failure of a supply fan, one of the exhaust fans will shutdown. - Interlock will be verified periodically.	TPNeal	Complete	Quarterly process monitor interlock procedure HP-6.8 covers this. (01/10/88)

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00137	MISC 3 6	9.8.2.4 In the event of release of radioactive material in the area serviced by the system, the radiation monitor at the filter plenum senses the activity and trips the supply fan which in turn trips one of the exhaust fans. However, a low flow condition will override the high radiation signal and keep the stand-by exhaust fan running. - Automatic actions from high radiation will be tested periodically.	TPNeal	Complete	Quarterly process monitor interlock procedure HP-6.8 covers this. (01/10/88)
00138	MISC 4 2	9.8.2.4 Item 24 - Supply fan V-33 provides air to the areas identified. Makeup air to V-33 is a blend of outside air and recirculated air from V-43. This blend is controlled by a mixed air temperature controller. - Temperature controller and damper positioners will be verified periodically.	KAToner	Complete	PPAC on fans in place. FC-798 installed battery room temp alarm which resolves the issue listed.
00139	MISC 4 3	9.8.2.4 Item 24 - Cable spreading, switchgear and 2.4 kV switch gear rooms increases above 104°F, temperature switches 1824, 1825 and 1826 will initiate a control room annunciator. The operator manually starts the supplemental exhaust fan V-47. - The annunciator will be verified periodically.	RMBrzerinski	Complete	PPAC VAS-043 developed.
00140	MISC 5 7	SOP-24 Attachment 2 Item 2. Test radwaste area fans and supply dampers periodically.	TPNeal	Complete	HP-6.8 process monitor interlocks covers this. (01/10/88)
00141	MSS 1 3	10.2.1 4 The MSIVs are closed on either a low S/G pressure signal or a containment high pressure signal. - RI-17 will be revised to document the feature of MSIV closure on low S/G pressure.	TABuczynski	Complete	RI-17 Rev 9 verifies MSIV's close on low S/G pressure. (01/07/88)
00142	MSS 2 2	10.2.1 4 Four pressure transmitters on each S/G actuate contacts in indicating meter relays which are connected in a two-out-of-four logic to close both MSIVs. R-17 will be revised to document this feature.	TABuczynski	Complete	RI-17 Rev 9 verifies MSIV's close on low S/G pressure. (07/07/88)
00143	MSS 2 3	10.2.1 4 Auto block of MSIVs auto closure is on low S/G pressure only not on containment high pressure. FSAR clarification needed.	JRJohn	Complete	FSAR Change 10-01-R3-143 (07/02/87)

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOCNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00144	MSS 2 3	10.2.1 4 Automatic closing of the MSiVs can be blocked by pushing both of two isolation block push buttons as the steam pressure is decreasing toward the isolation set point. The isolation block is automatically removed by a two-out-of-four logic when the S/G pressure rises to 50 psi above the isolation set point pressure. - RI-17 will be revised to document this feature.	RMBrzezinski	Complete	Rev 9 to RI-17 covers this.
00145	MSS 3 1	10.2.1 4 An accumulator is provided for each MSIV to hold valve open in case of a loss of air supply to the valve operator. - No testing is presently performed to address. The MSIV accumulators are provided for reliability purposes. On loss of air, accumulators provide operators enough time to regain pressure to prevent valves from drifting/slaming closed. There is a low pressure alarm on each header and backup for the H/P air syst. Testing of these accumulators will be evaluated.	JRJohns	Complete	A backup air supply has been provided. Accumulator testing at power is not considered advisable and will not be done. See ltr to TCBordine from JRJ. 87*006 (12/18/87) File: 03110, 13103.
00146	MSS 3 2	10.2.1 The S/G blowdown system is continuously monitored by a process monitor which detects radioactivity which may have leaked into the S/G from the primary system. - QR-22 will be revised to add the S/G blowdown valves. Rev 1	DCTurner	Complete	See QR-22 revision (01/07/88)
00147	NMS 1 5	7.6.1.4 Quadrant power tilt is alarmed in the CR via the power range safety channels and linear heat rate is alarmed in the CR via the incore alarm system. - Quadrant power tilt alarm from power range safety channels will be verified periodically.	RMBrzezinski	Complete	Setpoints for alarm/trips are verified by MI-1, RI-62 & RO-21 (6/30/88)
00148	NMS 1 7	7.6.2.2 The rate-of-change information (wide range logarithmic channels) actuates alarms, a reactor trip, or a control rod withdrawal prohibit signal. - Reactor trip on high startup rate will be verified periodically.	RMBrzezinski	Complete	Setpoints for alarm/trips are verified in the following procedures: MI-1, RI-62, RO-21.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00149	NMS 4 1	7.6.2.2 The output from the comparator average is returned to each channel drawer and compared to each channel via two deviation comparators. - Quadrant power tilt alarm will be verified periodically. (SHO-1 compares power range channels each shift and verifies deviation does not exist.)	RMBrzezinski	Complete	RI-62 Rev 10 verifies quadrant power tilt alarm.
00150	NMS 4 3	7.6.2.2 The alarm light alerts the operator in the event that the ratio signal violates an operator-set upper-or-lower limit which would be indicative of an undesirable axial power distribution will be tested periodically.	RMBrzezinski	Closed	This recorder has been removed from service as part of TM/LP change.
00151	NMS 4 5	7.6.2.2 Generates high and low power ratio signal alarm limits from signals sent from the power ratio set point potentiometer and power ratio deviation potentiometer located on the control console. These potentiometers are adjusted by the operator as a function of control rod position and NSS power, or as directed by the reactor engineer. - The power ratio alarm will be verified periodically.	RMBrzezinski	Closed	This recorder has been removed from service as part of the TM/LP change.
00152	NMS 7 1	7.6.2.2 A reactivity computer can be reconnected to one of power range control channels to read reactivity for 10% to 100% full power. The output indication is located in the control room next to the other meters above to provide surveillance during start-up and at power, as well as an accurate source of test data. - This equipment is not used. FSAR will be clarified.	RMBrzezinski	Complete	FSAR Change 7-34-R3-150. (10/30/87)
00153	NMS 7 2	7.6.2.2 Reactor Internals Vibration Monitor is no longer used. T/S have been revised to delete these limits. The FSAR will be corrected.	RMBrzezinski	Complete	FSAR Change 7-29-R3-122. (10/30/87)
00155	PCS 2 5	4.3.3 A reactor internals vibration monitoring surveillance program has been instituted to ensure reactor vessel internals integrity. Amendment 91 to our T/S dated 9/5/87 deleted this requirement. The FSAR will be changed to correct this statement.	GJList	Complete	FSAR Change 4-11-R3-121. (10/30/87)

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITFM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00156	PCS 3 6	4.3.7 Pressurizer heater controls de-energize all heaters on receipt of a SIS and remain de-energized until SIS is reset. This feature has been deleted during the 1986 maintenance outage per FC-683. The FSAR will be changed to correct this statement.	GGire	Complete	FSAR Change 4-13-R3-124. (10/30/87)
00157	PCS 4 1	4.3.7 See 4.3.9.3 also. If an abnormal incident results in pressurizer pressure rise which exceeds the relieving capacity of the pressurizer spray, this pressure will open two power-operated relief valves and trip the Rx. The relief valves are opened as a secondary action to a reactor trip. Since no credit been taken for the relief capacity of these valves in Chapt 14, the plant is permitted to operate at full pressure and temperature with the PORV isolation valves closed. The FSAR will be clarified.	GJList	Complete	FSAR Change 4-12-R3-123. (10/30/87)
00158	PCS 4 4	4.3.9.3 PORVs are actuated by the high primary syst pressure reactor trip signal. The PORVs are tested for low pressure protection via MC-27. They have not been tested at system differential pressures required for the feed and bleed success path for controlling the high ECS pressure. Prior to the end of the next Refout new certified PORV block valves will be installed.	GJList	Closed	This will be resolved under separate response to NUREG 0737. (01/07/88)
00159	PCS 5 1	4.3.9.3 PORVs will be installed or the PORVs will be removed and tested at feed and bleed pressures. Special Test if internals are not replaced.	GJList	Closed	This will be resolved under separate response to NUREG 0737. (01/07/88)
00160	PCS 5 2	4.3.9.3 The PORVs and their block valves would be used if a feed and bleed type operation was required to cool the PCS in an emergency shutdown situation. - PORVs will be installed or the PORVs will be removed and tested at feed and bleed pressures.	GJList	Closed	This will be resolved under separate response to NUREG 0737. (01/07/88)

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00161	PCS 7 2	4.3.9.3 See 7.4.2.1 also. The PCS overpressurization subsystem (OPS) has been designed to provide automatic pressure relief of the PCS whenever the conditions of low temperature (250°F or lower) and high pressure (400 psia or higher) exist concurrently. Specific temperatures and pressures at which relief is required varies with amount of vessel irradiation. Values will be clarified as necessary.	GJlist	Complete	Done via LTOP issue and T/S Change. (01/07/88)
00162	PCS 9 4	4.3.5 The performance of the shaft seal system is monitored by pressure and temperature sensing devices in the seal system. A controlled bleedoff flow through the pump seal is maintained. - No calibration PAC for seal bleedoff flow was found. This will be done periodically.	RMBrzezinski	Complete	Performed by PCS-007, PCS-006 and PCS-018. (6/24/88)
00163	PDL 1 1	7.6.1.5 Validity of inputs to the datalogger system will be evaluated to determine methods to ensure proper datalogger functionality.	RMBrzezinski	Complete	Done under PPAC X-OPS-429.
00164	RAD 5 1	11.5.3 In 1983 a main steam relief monitoring system was installed to monitor accident releases in the event the atmospheric dump or safety valves lift. In the event of a steam release, an acoustic switch, triggered the Radiation Monitor to operate at high speed for greater resolution. - The acoustic switch will be calibrated and the recorder response verified periodically. / Rev 1	RMBrzezinski	Complete	Performed under RWS-119 (6/24/88)
00165	RAD 5 3	11.5.3.1 A two-pen flow indicator/recorder with flow alarm outputs continuously monitors the stack and sample flow. - Flow recorders are no longer used. A local continuous monitor is now used and calibrated by RR-84D. FSAR will be corrected.	RMBrzezinski	Complete	FSAR Change 11-05-R3-151. (10/30/87)

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00166	RAD 6 1	11.5.3.2 On indication of abnormal stack effluent activity (alert level) a 15 second grab sample is automatically trapped in a sample bottle and an annunciator in the CR indicates the off-normal condition. - Grab sample feature testing is not documented. Alert levels are alarmed on the RIA but are not annunciated. FSAR will be clarified.	TPNeal	Closed	Grab sample testing is documented in QR-22. Alert is annunciated. No FSAR clarification required.
00167	RAD 6 1	11.5.3.2 On indication of abnormal stack effluent activity (alert level), a 15 second grab sample is automatically trapped in a sample bottle and an annunciator in the control room indicates the off-normal condition. - The grab sample and annunciator will be verified periodically.	TPNeal	Complete	Surveillance Test QR-22, covers this.
00168	RAD 6 2	11.5.3.2 Following a high level indication, the normal sample loop is bypassed and the sample flow is split with approximately 0.02 acfm directed through the high-range filter and the balance of the 2 acfm through the ion changer. A "high radiation" annunciator in the control room alerts the plant operators to the condition. - Testing of the changes in sample flow paths will be verified and documented periodically.	TPNeal	Complete	Covered under quarterly test QR-22.
00169	RPS 2 2	7.2.3.3 Low flow trippoints and the overpower trip points are simultaneously changed by a manual switch to the allowable values for the selected pump condition. Since we can only run with 4 PCS coolant pumps this may not be significant. The plant does not presently allow operation with less than 4 pumps running. The plant will trip if a PCP is tripped. Therefore the testing of the trip setpoints with less than four pumps operating is not required. FSAR will be changed to clarify this function.	RMBrzezinski	Complete	FSAR Change 7-38-R3-155. (10/30/87)

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00170	RPS 3 1	7.2.3.4 Pre-trip alarms are initiated if the coolant flow approaches minimum required for corresponding power level. Since we can only run with 4 PCS coolant pumps this may not be significant. The plant does not presently allow operation with less than 4 pumps running. The plant will trip if a PCP is tripped. Therefore testing of the trip setpoints with less than 4 pumps operating is not required. FSAR will be changed to clarify this function.	RMBrzezinski	Complete	FSAR Change 7-38-R3-155. (10/30/87)
00171	RPS 4 2	7.2.3.8 FSAR 7.2.3.8 states that S/G low pressure trip signal will close the turbine stop valves. This interlock does not exist. The S/G low pressure trip signal does not close the turbine stop valves. The reactor trips, which trips the turbine, which closes the turbine stop valves. This will be clarified in the FSAR.	RMBrzezinski	Complete	FSAR Change 7-27-R3-113. (10/30/87)
00172	RPS 4 4	7.2.3.9 FSAR 7.2.3.9 states that CHP pre-trip alarm occurs at 3 psig. The actual pre-trip setpoint is 0.9 psig and MI-5 does not document the pre-trip setpoint of alarm annunciation. These are calibrated every 11 months via PACS VAS-016. This PACS calibrates containment pressure indicators and was last performed on 10/21/86. The FSAR will be corrected for actual pre-trip alarm setpoint.	RMBrzezinski	Complete	FSAR Change 7-37-R3-154. (10/30/87)
00173	RPS 7 4	7.2.3.6 A reactor trip will automatically be initiated after a turbine trip occurs. The trip will be initiated when the turbine auto stop oil pressure decreases. This trip is automatically bypassed when three of four power safety channels indicate less than 15% full power. - Loss of load trip will be tested periodically.	RMBrzezinski	Complete	Loss of load trip is tested prior to startup per RPS checklist CL36 Section 5.
00174	SCS 2 1	7.4.1.6 FSAR states that instrumentation is available to indicate service water and CCW flow. Such instrumentation is not available. Instrumentation is available to "indicate" flow but not to quantify flow. Evaluation of modifications to provide adequate instrumentation for system performance testing is planned.	DDCrabtree	Complete	Evaluation done. RPM issued. (01/07/88)

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00175	SCS 2 2	7.4.1.6 Analysis of fire damage in any of the areas containing portions of systems required for the shutdown cooling operation shows there will always be an undamaged power supply to one or the other of the shutdown cooling pumps (LPSI). - Manual stroking of the shutdown cooling valves needs to be verified during valve PACS.	SKupka	Complete	PPAC X-OPS-440 verifies this function.
00176	SCS 2 3	9.1.2.3 A reanalysis was performed for CCW with a 3000 gpm flow to the shutdown cooling heat ex with 6000 gpm shutdown cooling flow. The result was 53 hrs is required to cool PCS to 130°F. (PAL-86-083) This same section states that all noncritical service water is discontinued. This is not the normal plant practice. Typically we continue service water flow to FWP, VRS, condensate pumps etc. The FSAR will be corrected to clarify this statement.	MDKing	Complete	FSAR Change 9-36-R3-136/9-42-R3-142. (10/30/87)
00177	SCS 4 1	Table 6-4 Shutdown Cooling Ht Exc Operating Parameters. Verification of Shutdown Cooling Heat Exchanger performance is performed each shutdown when shutdown cooling is put on line and the plant is cooled down and maintained cool. Specific exchanger performance will be evaluated for future trending.	TCSaarela	Closed	Future trending will be accomplished by monitoring ability to obtain adequate cooldown rate. No special tests required.
00178	SCS 5 1	ONP 17 4.3 Low temperature overpressure protection concerns, the risk of using HPSI for shutdown cooling (solid plant) may outweigh the benefit of routine testing. This Off Normal Procedure will be reviewed and modified if necessary with respect to this concern.	RJFrigo	Complete	HPSI pump has been removed from ONP-17. (01/07/88)
00179	SCS 5 2	OPN 17 4.3 The ability to use Spent Fuel Pool Cooling for shutdown cooling is not periodically tested. This evolution requires the RX head to be removed and the Rx cavity full and refueling gates open. This will be verified during the next refout. Special Test?	TCSaarela	REPOUT 88	This design item will be tested during REPOUT 88 through special operating lineups.
00180	SCS 5 2	?? ONP-17. Shutdown Cooling using Spent Fuel Pool Cooling upon loss of normal shutdown cooling - Special Test to verify during the next Refout.	TCSaarela	Closed	Duplicate of Log #179.

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00181	SCSS 1 1	9.2.1 The system is designed to maintain concrete temperature below 165°F. It is capable of removing 180,000 Btu/h. T/S basis lists capacity as 120,000 Btu/hr. FSAR will be clarified - design impact only.	MDKing	Closed	No FSAR change necessary.
00182	SCSS 1 5	9.2.2.3 Makeup water to the surge tank is pumped from the condensate storage tank through an on-off solenoid valve which is actuated by a level switch on the surge tank. - This supply comes from condensate tank. Supply is from T-81. FSAR will be clarified.	GJList	Complete	FSAR Change 9-40-R3-140. (10/30/87)
00183	SCSS 1 6	9.2.2.3 High and low level in the tank is annunciated in the control room. - This will be verified periodically.	RMBrzzezinski	Complete	Performed by SCS-003 (6/24/88)
00184	SCSS 1 7	9.2.2.3 The surge tank vents to the containment atmosphere. The FSAR will be corrected.	GJList	Complete	FSAR Change 9-39-R3-139. (10/30/87)
00185	SCSS 2 1	9.2.2.3 Temperature indication, high temperature (120°F) and low flow annunciation from the discharge of each set of coils are located in the control room. - Annunciators will be tested periodically.	RMBrzzezinski	Complete	Closed per PPAC's SCS006, SCS007 and SCS008.
00186	SPS 1 3	8.1.2 The non-vital instrumentation and controls are supplied from a 120 volt AC instrument bus. The instrument bus is normally supplied from one of two 480-120 volt transformers, each transformer being connected to a separate 480 volt motor control center. The transfer to the alternate source is automatic. - This auto transfer function will be verified periodically.	SROakley	Complete	Closed per FPAC X-OPS-434.
00187	SPS 1 4	8.2.3 Station loads, including the safety loads, are normally supplied from the main generator through the station power Xformer. On loss of main generator there is an auto Xfer from this normal source to the immediate access offsite power circuit. The design includes provisions to test this feature during plant operation. - This function will be periodically verified in the future. This is not tested during plant operation. The FSAR will be clarified.	SROakley	Complete	FSAR Change 8-14-R3-131. (10/30/87)

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00188	SPS 1 4	8.2.3 Station loads, including the safety loads, are normally supplied from the main generator through the station power transformer. On loss of the main generator there is an auto transfer from this normal source to the immediate access offsite power circuit. The design includes provisions to test this feature during plant operation. - This function will be verified periodically.	SROakley	Complete	Closed per Special Tests T-273 and T-277 and PPAC's MSE037 thru MSE041.
00189	SPS 1 5	8.3.1.s The capabilities of the four 4,160 volt sections are sufficient to permit plant operation under reduced load with any 4,160 volt bus out of service. - Bus 1A and 1B cannot be taken out of service because operation on without PCPs is not allowed. The FSAR will be clarified.	SROakley	Complete	FSAR Change 8-15-R3-132. (10/30/87)
00190	SPS 2 6	8.3.2.2 The reserve transformer will provide capability of sparing SU (Standby) Transformer 1-2 during shutdown conditions. - This installed reserve transformer has provisions to supply plant buses. Instructions are provided in SOP-30. This transformer is only needed as a backup during shutdown operations. Evaluation of testing needs will be completed prior to the next Refout.	SROakley	Complete	FSAR Change Request 8-23-R6-198.
00191	SPS 2 6	8.3.2.2 The reserve transformer will provide capability of sparing start-up (Standby) transformer 1-2 during shutdown conditons. - Evaluation of testing needs will be completed prior to next Refout.	SROakley	Complete	FSAR Change Request 8-23-R6-198.
00192	SPS 4 2	8.6.2 In order to permit the main transformer backfeed mode of operation (Subsection 8.2.) the fast transfer on turbine generator trip and the emergency generators automatic start signals are blocked manually using a selector switch in the main control room ("Instant Transfer Cutout"). - Diesel Generators are only blocked by manual action. FSAR will be clarified.	SROakley	Complete	FSAR Change 8-16-R3-133. (10/30/87)

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00193	SPS 4 3	8.6.2 4,160 Volt System - Automatic transfer of the 4,160 volt buses from the normal power source (station power transformer 1-1) to the standby power source (Startup Transformer 1-1 and 1-3) is initiated by turbine trip or generator trip. - This function will be periodically verified in the future.	SROakley	Complete	Closed per Special Tests T-273 and T-274, and PPAC's MSE040 and MSE041.
00194	SPS 4 4	8.6.2 Automatic transfer is blocked if the startup transformer voltage is low. The lockout relays may also be operated manually to prevent bus transfer if a startup transformer is inoperable for any reason. - These lockout relays will be tested periodically in the future.	SROakley	Complete	Closed per Special Tests T-273 thru T-277, and PPAC's MSE037 thru MSE041.
00195	SPS 4 5	8.6.2 2,400 Volt System. Automatic transfer of the 2,400 volt buses from the normal power source (Station Power Transformer 1-2) to the standby power source (Startup Transformer 1-2) is initiated by turbine trip or generator trip. Two separate turbine auto stop oil pressure sensors are provided for initiating the transfer. - This function will be periodically verified in the future.	SROakley	Complete	Closed per Special Tests T-273 thru T-277, and PPAC's MSE037 thru MSE041.
00196	SPS 5 1	8.6.2 Automatic transfer is blocked if the startup transformer voltage is low. Each of the lockout relays may also be operated manually to prevent one of the bus transfer if the corresponding startup transformer breaker is inoperable for any reason. - These lockout relays will be tested periodically in the future.	SROakley	Complete	Closed per Special Tests T-273 thru T-277, and PPAC's MSE037 thru MSE041.
00197	SPS 6 6	SPS-02 Charging Pump Motor Breakers. Evaluation is underway to either replace switchgear or to refurbish existing switchgear. MCTF item.	SROakley	Closed	Breakers have been refurbished and placed on 18 month PM schedule.
00198	SPS 6 8	SPS-03 Evaluate importance of DC ground alarm in CR and troubleshooting techniques for isolating/repairing DC grounds. - A procedure and/or checklist will be devised with operations to determine which breakers can be troubleshot during specific plant conditions. MCTF item.	SROakley	88/11/01	DC troubleshooting checklist has been tech reviewed and is in comment resolution. Will be in vendor file by 11/01/88.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00199	SWS 1 1	9.1.2.1 Each pump can be started or stopped remotely from the main control room or locally at the switchgear. - Surveillance procedures will be modified to periodically start locally.	DDCrabtree	Complete	See QO-14, Rev 0
00200	SWS 1 2	9.1.2.1 Each pump can be isolated from their common header by a hand-operated valve in the pump discharge. - A PACS will be developed to cycle CV-0844, 0845, 0846, 0857 & CV-1318 & CV-1319 in the future.	DDCrabtree	Complete	See PAC X-OPS 281. (01/07/88)
00201	SWS 1 3	9.1.2.1 9.1.3.1 & 9.1.3.3 also The common header contains sectionalizing valves which can be closed from the main control room if isolation of a portion of the service water supply system is required. - A PACS will be developed to cycle CV-0844, 0845, 0846, 0857 and CV-1318 and 1319.	TABuczynski	Complete	See PAC X-OPS 281. (01/07/88)
00202	SWS 2 1	9.1.2.1 9.1.3.1 & 9.1.3.3 also PACS will be developed to cycle automatic valves used to isolate service water pumps, common header or critical service lines - CV-0844, 0845, 0846, 0857 and CV-1318 & 1319. Rev 1	TABuczynski	Complete	See PAC X-OPS 281. (01/07/88)
00203	SWS 3 4	9.1.2.3 PACS will be generated to periodically test ESS pump backup service water cooling on loss of CCW.	DDCrabtree	Complete	See PPAC X-OPS-444.
00204	SWS 4 1	9.1.2.3 Test will be generated to periodically test the auto start of service water pumps on low discharge pressure. - Normal Operation. Two pressure switches are provided in the discharge of each pump connecting to the starting circuits of the remaining two pumps. If the service water pressure falls below a preset value, one of the switches initiates automatic starting.	MDKing	Complete	See QO-14, Rev 0.
00205	SWS 4 4	9.1.3.2 Test will be generated to periodically test the auto start of service water pumps on low discharge pressure. - Each service water pump can be periodically tested for auto-start by selection on one pump for standby service and tripping of one operating pump.	DDCrabtree	Complete	See QO-14 Revision. (01/07/88)

10/12/1987

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00206	SWS 7 1	Test MO-29 Monthly valve alignment check of engineered safety systems. - Service water valves CV-0876 and 0877 will be added to MO-29.	TCSaarela	Complete	See RO-29 revision of 05/01/88.
00207	SWS 7 8	SOP-15 7.7.1 - To supply cooling water to ESP pumps using service water. - PACS will be generated to periodically test.	DDCrabtree	Closed	Duplicate of Log #00203.
00208	TURB 1 4	7.5.2.6 Emergency trip action is caused by the operation of trips located in the hydraulic mechanical system protective device unit: low-vacuum, low bearing oil pressure, over speed trip and loss of generator load, or manually with the overspeed trip lever. This action is also caused by operation of the solenoid trip which is actuated by the manual trip switch in the control room and by electrical system protective relays. - Overspeed testing and loss of load trip will be verified periodically.	RMBrzezinski	Complete	RPS Checklist CL-36 Section 5 verifies loss of load trip & overspeed testing.
00209	TURB 1 7	7.5.2.6 When the turbine is under dispatch control, load reference changes are made manually. The impulse chamber pressure is compared to the load reference setting. The difference is a load error to the controller, which repositions the governor valve actuators until the load error becomes zero. The FSAR will be clarified.	RMBrzezinski	Complete	FSAR Change 7-33-R3-149. (10/30/87)
00210	TURB 2 3	7.5.3.6 Auxiliary Governor. This is an acceleration response device which closes the turbine main governing valves and the moisture separator intercept valves. - Aux governor overspeed limiter will be tested periodically.	JDStafford	Closed	Turbine overspeed protection controller is tested each time the turbine starts per SOP-8. No further testing planned.
00211	TURB 2 5	10.2.2 Steam Turbine. Turbine trip input to RPS will be tested periodically.	RMBrzezinski	Complete	RPS Checklist CL-36 Section 5 verifies loss of load trip.

SYSTEM FUNCTIONAL EVALUATION LONG TERM COMMITMENTS

LOGNO	SYSTEM/PAGE/ITEM	REFERENCE (FSAR or other) COMMITMENT	ASSIGNED INDIVIDUAL	DUE DATE	STATUS
00212	TURB 2 6	10.2.2 Upon turbine control's receipt of a dropped rod signal from the CRDS or a rapid flux change signal from the power range nuclear instruments, the turbine output is automatically limited by the turbine controls to a maximum of 70% of full load output. - This feature is disabled and is no longer used. The FSAR will be clarified.	JDStafford	Complete	Per 7/21 DTurner update, FSAR has been clarified. FSAR change number 10-01-R3-143
00213	TURB 3 1	10.2.2.3 Electrical Generator. Seal Oil System. The turbine bearing oil system serves as a seal oil backup should the seal oil pump stop or if the seal oil pressure should drop below 8 psi. Turbine bearing oil pump auto start will be verified periodically.	DGTurner	Complete	See SOP-8 Att 2 Step 7.
00214	TURB 3 2	10.2.2.3 Signal System This system provides the operator with signals on the operating conditions present in Table 10-4. - Hydrogen supply low pressure, hydrogen high temperature and hydrogen side low oil level switches will be tested periodically.	RMBrezinski	Complete	PPAC's TGS020, TGS021, TGS031 and TGS032.