

# **WOLF CREEK GENERATING STATION**

## **FSAR COMMITMENT COMPLIANCE STUDY**

### **RESULTS REPORT**

**DECEMBER 31, 1984**

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## **FSAR COMMITMENT COMPLIANCE STUDY PROGRAM AND RESULTS**

As requested by WCGS management, a program was implemented to reconfirm compliance with FSAR commitments as related to the WCGS Preoperational Test Program.

The program was conducted in two phases. The first phase consisted of reviewing the FSAR and FSAR WCGS Addendum, the Wolf Creek and Callaway Safety Evaluation Reports, and applicable Regulatory Guides, in order to identify preoperational testing commitments. FSAR Section 14.0 was not specifically re-examined, since the test abstracts include explicit test commitments which have been incorporated directly into the preoperational test procedures.

The second phase involved reviewing the Preoperational Tests themselves, in order to confirm that the commitments identified in the first phase had been met.

The following additional guidelines were used in this review:

- 1) Multiple references were avoided where possible, i.e., if a requirement appears in more than one location in the FSAR, only one of the references has been used.
- 2) FSAR Section 16.0 was not considered as a source of preoperational test requirements. However, a separate review of Technical Specification quantitative limits was performed. A summary of the results of this review is attached to this report.
- 3) Only those Regulatory Guides considered to possibly contain preoperational test requirements were reviewed. A listing of the Regulatory Guides reviewed, the results of the review, and the basis for not reviewing selected Reg. Guides, is attached.

While some selectivity as to what did or did not represent a preoperational test requirement was used in Phase I of the program, some of the items identified in Phase I were subsequently determined not to be a preoperational test requirement. These items have been retained in the data base, along with the basis for their not being considered preoperational test requirements.

The attached pages represent the data base generated during Phase I and Phase II. They list the identified FSAR commitments, arranged by commitment code (A, B or X).

The meanings of the codes used are as follows:

- A - An identified commitment which was satisfied by the referenced preop test and sections.
- B - An identified commitment which is currently not included in the test program -- action required. (No listing, at present).
- X - An identified item which has subsequently been determined not to be a preoperational testing requirement.

For those items coded "X", an identifier indicating the basis for the conclusion that the item does not represent a preoperational test commitment is included in the NOTE column, as follows:

CODE		BASIS
1	DESIGN -	Design statement only, or commitment satisfied by the design process alone. Also includes construction-related activities.
2	TYPICAL -	Not an acceptance criterion requiring preoperational test verification.

- |   |             |   |
|---|-------------|---|
| 3 | TEST -      | A commitment satisfied by type, model, or vendor testing alone.   |
| 4 | ANALYSIS -  | A commitment satisfied by analysis only, or a combination of analysis and test.                                   |
| 5 | PROGRAM -   | A commitment satisfied by programmatic controls, which needs not be reflected in individual preoperational tests. |
| 6 | LATER -     | Pertains to post fuel load activities, rather than preoperational testing.  |
| 7 | COMPONENT - | Satisfied by component or NDE testing rather than preoperational testing.   |
| 8 | DUPLICATE - | An item which duplicates other identified commitments.  |

The above codes are also used as the basis (reason) codes for those Regulatory Guides not reviewed, except for Reg. Guides which are indicated as being "N/A" (not applicable to WCGS).

The attached "Summary of Items Initially Identified as Open Which Are Now Closed" provides a listing of the open items identified and the actions taken to close them.



**SUMMARY OF ITEMS INITIALLY IDENTIFIED AS OPEN  
WHICH ARE NOW CLOSED**

**ITEM 1 - FSAR Section 8.3.2.2.1, Page 36**

"Each battery charger power supply is designed to prevent the AC supply from becoming a load on the battery due to a power feedback as the result of the loss of AC power to the chargers."

**Action Taken** - Steps have been incorporated into SU3NK01/Rev 1, to demonstrate backfeed prevention.

**ITEM 2 - FSAR Section 8.3.2.1.3, Page 31a**

"The battery rooms are ventilated by a system which is designed to preclude the possibility of hydrogen accumulation."

**FSAR Section 9.4.1.2.3, Page 13**

"During normal plant operations, the battery rooms are purged with fresh air by the Control Building supply system and the Control Building exhaust system. This purging maintains the local concentration of hydrogen well below 0.1 volume percent."

**Action Taken** - Steps have been incorporated into SU3NK01/Rev 1, to monitor hydrogen concentration at four high points in the battery rooms with the batteries fully charged.

**ITEM 3 - FSAR Section 7.6.7.1, Page 7**

"Instrumentation and controls are provided to automatically isolate each train of the ESW to the air compressors on high flow."

**Action Taken** - A requirement to test ESW flow isolation valves EF-HV43 and EF-HV44 control logic has been included in a retest procedure for SU3EF01.

**ITEM 4 - FSAR Section 3.8.2.3.4, Page 31**

"The thermal load associated with the temperature of 100 F is considered as a design basis for the Structural Integrity Test (SIT). Testing may proceed at any temperature below this."

**Action Taken** - A requirement to specify a test temperature of less than 100 F has been added to SIT Procedure SU3GP02.

**ITEM 5 - FSAR Section 9.4.6.1.2, Page 65**

"The pressurizer cooling fan will limit temperature in the area below the pressurizer skirt to approximately 120 F by inducing air from the containment for cooling."

**Action Taken** - The area below the pressurizer skirt will be verified to be limited to approximately 120 F during Power Ascension Testing. The procedure change is in the review and approval cycle.

**ITEM 6 - FSAR Section WC9.2.3.3, Page 10**

"Flow from the demineralization section to storage will modulate automatically by level in the demineralized storage tank."

**Action Taken** - Level control valve WM-LCV3 response to demineralized storage tank level signals will be verified. This has been included in a retest procedure for SU4-AN01.

**ITEM 7 - FSAR Section Q640.11 I.N(16), Page 11-7**

"A source of heat to the refueling water storage tank, which is non-safety related, is supplied from the auxiliary steam system and is controlled by a temperature control valve, which is operationally tested in Procedure SU3EC01."

**Action Taken** - Operational testing of valve BN-TV6 has been added to SU3EC01.

**ITEM 8 - FSAR Section 7.3.8.2, Page 44**

(Identified by the NRC)

"If an actuation occurs during testing, the automatic actuation circuitry will override testing, as noted above."

**Action Taken** - Procedure SU3NF01 was revised to demonstrate that when in test, an SIS would override the test signal. SU3NF01 testing has been completed.

**ITEM 9 - FSAR Section 7.3.7.2, Page 25**

(Identified by the NRC)

"The control sequence for the 10 percent close test would be interrupted in the event of an actuation signal, and the logic would latch into the fast close state.

**Action Taken** - Procedures SU3AB03 and SU3AE01 have been revised to verify that an SIS will cause the valves to fast close when being stroked in exercise mode (slow close). The revision to SU3AE01 has been approved, and the revision to SU3AB03 is in the review and approval cycle.

**ITEM 10 - FSAR Section 8.3.1.1.8, Page 70**

(Identified by the NRC)

"The motor starting torque is capable of starting and accelerating the connected load to normal speed within sufficient time to perform its safety function for all expected operating conditions, including the design minimum bus voltage stated in 8.3.1.1.3."

**Action Taken** - Procedure SU3NF03 has been revised to demonstrate the above. (Excluding Containment Spray and Aux Feedwater, which will remain on recirc.)

**ITEM 11 - FSAR Section 8.3.2.2.1, Page 34**

(Identified by the NRC)

"The battery room ventilation system limits hydrogen concentration to less than 2 percent by volume at any location in the battery area."

**Action Taken** - Steps have been incorporated into SU3NK01, Rev 1, to monitor hydrogen concentration at four high points in the battery rooms during recharge, following deep discharge.

**ITEM 12 - Reg. Guide 1.68**

(Identified by the NRC)

Extrapolation to accident conditions (lake temperature and air temperature).

**Action Taken** - Procedure SU3NF02 has been revised to incorporate the above extrapolations.

ITEM 13 - Reg Guide 1.108

(Identified by the NRC)

Diesel 35 starts - cooldown to standby conditions between starts.

**Action Taken** - Procedure SU3NE01 was revised to include the cooldown to standby conditions between starts.

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REGULATORY GUIDE REVIEW SUMMARY  
12/31/84

Page 1

REG GUIDE	REV	DATE	TITLE (SUBJECT)	REVIEW	REASON	REVIEW RESULTS
1.1	0	11/2/70	SAFEGUARDS PUMPS NPSH	YES		NO NEW REQ
1.2	0	11/2/70	RY THERMAL SHOCK	NO	3,4	
1.3	2	6/74	ASSUMPTIONS FOR BWR RADIOLOGICAL ANAL	NO	N/A	
1.4	2	6/74	ASSUMPTIONS FOR PWR RADIOLOGICAL ANAL	YES		NO NEW REQ
1.5	0	3/71	ASSUMPTIONS FOR BWR STEAM LINE BREAK	NO	N/A	
1.6	0	3/71	IND OF POWER SYSTEMS	YES		NO NEW REQ
1.7	2	11/78	LOCA COMBUSTIBLE GAS CONTROL	YES		NO NEW REQ
1.8	2	2/79	PERSONNEL SELECTION & TRAINING	NO	5	
1.9	1	11/78	QUALIFICATION OF DIESEL GENERATORS	YES		NEW 'A' ITEMS
1.10	1	1/73	CONCRETE CADWELD SPLICES	NO	7,1	
1.11	0	3/71	CTMT INSTRUMENT LINE PENETRATIONS	YES		NO NEW REQ
1.12	1	4/74	INSTRUMENTATION FOR EARTHQUAKES	YES		NO NEW REQ
1.13	1	12/75	SPENT FUEL STORAGE DESIGN	YES		NEW 'A' ITEM
1.14	1	8/75	RCP FLYWHEEL INTEGRITY	NO	1,3,4	
1.15	1		REBAR TESTING	NO	7	
1.16	--	-----	REPORTING OF OPERATING INFORMATION	NO	5,6	
1.17	--	-----	INDUSTRIAL SABOTAGE PROTECTION	YES		NO NEW REQ
1.18	1	12/72	STRUCTURAL ACCEPTANCE TEST	YES		NO NEW REQ
1.19	1	8/72	NDE OF CONTAINMENT LINER WELDS	NO	7,1	
1.20	2	5/76	REACTOR VESSEL INTERNALS VIBRATION	YES		NO NEW REQ
1.21	1	6/74	RCD RELEASE MEASUREMENT/REPORTING	YES		NO NEW REQ
1.22	0	2/72	PERIODIC TESTING OF PROT SYSTEMS	YES		NO NEW REQ
1.23	--	-----	ONSITE METEOROLOGICAL PROGRAM	YES		NO NEW REQ
1.24	0	3/72	ASSUMPTIONS FOR WASTE GAS TANK FAILURE	YES		NO NEW REQ
1.25	0	3/72	FUEL HANDLING ACCIDENT ASSUMPTIONS	YES		NO NEW REQ

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REG GUIDE	REV	DATE	TITLE (SUBJECT)	REVIEW	REASON	REVIEW RESULTS
1.26	3	2/76	QUALITY GROUP CLASSIFICATIONS	NO	5	
1.27	2	1/76	ULTIMATE HEAT SINK	YES		NO NEW REQ
1.28	2	2/79	QA REQUIREMENTS (DESIGN & CONSTRUCTION)	NO	5,1	
1.29	3	9/78	SEISMIC DESIGN CLASSIFICATION	NO	5	
1.30	0	8/72	QA REQUIREMENTS (INST & ELEC TESTING)	YES		NO NEW REQ
1.31	3	4/78	FERRITE CONTROL IN WELDING	NO	5,7	
1.32	2	2/77	SAFETY-RELATED ELECTRICAL POWER SYSTEMS	YES		NO NEW REQ
1.33	2	2/78	QA PROGRAM (OPERATIONS)	NO	5,6	
1.34	0	12/72	ELECTROSLAG WELDING CONTROL	NO	5,7	
1.35	3	4/79	ISI FOR UNGROUTED TENDONS	YES		NO NEW REQ
1.36	0	2/73	NON-METALLIC INSULATION	NO	1,7	
1.37	0	3/73	QA FOR CLEANING	NO	5	
1.38	2	5/77	QA FOR SHIPPING, STORAGE, ETC.	NO	5	
1.39	2	9/77	HOUSEKEEPING REQUIREMENTS	NO	5	
1.40	0	3/73	CONTAINMENT MOTOR QUALITY TESTING	YES		NO NEW REQ
1.41	0	3/73	PREOP TESTING OF ONSITE ELECTRICAL	YES		NO NEW REQ
1.42	--	-----	(NONE - WITHDRAWN)	NO	N/A	
1.43	0	5/73	STAINLESS WELD CLAD CONTROL	NO	5,7	
1.44	0	5/73	SENSITIZED STAINLESS STEEL CONTROL	NO	5,7	
1.45	0	5/73	RCPB LEAK DETECTION SYSTEMS	YES		NO NEW REQ
1.46	0	5/73	PIPE WHIP PROTECTION	NO	1,7	
1.47	0	5/73	STATUS INDICATION	YES		NO NEW REQ
1.48	0	5/73	SEISMIC I OPERABILITY TESTING/LOADS	NO	3,4	
1.49	1	12/73	POWER LEVELS	NO	1,4	
1.50	0	5/73	WELDING PREHEAT CONTROL	NO	5,7	



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REG GUIDE	REV	DATE	TITLE (SUBJECT)	REVIEW	REASON	REVIEW RESULTS
1.51	--	-----	(NONE - WITHDRAWN)	NO	N/A	
1.52	2	3/78	HEPA/CHARCOAL FILTER TESTING	YES		NEW 'A' ITEM
1.53	0	6/73	SINGLE FAILURE CRITERIA	YES		NO NEW REQ
1.54	0	6/73	QA FOR PROTECTIVE COATINGS	NO	5,7	
1.55	0	6/73	CONCRETE PLACEMENT	NO	7,1	
1.56	1	7/78	WATER PURITY MAINTENANCE (BWR)	NO	N/A	
1.57	0	6/73	DESIGN/LOADING LIMITS FOR CTMT LINER	NO	1,4,7	
1.58	1	9/80	QUALIFICATION OF TESTING PERSONNEL	NO	5	
1.59	2	8/77	DESIGN BASIS FLOODS	NO	1	
1.60	1	12/73	RESPONSE SPECTRA	NO	1,4	
1.61	0	10/73	DAMPING VALUES	NO	1,4	
1.62	0	10/73	MANUAL INITIATION OF PROT ACTIONS	YES		NEW 'A' ITEMS
1.63	2	7/78	CONTAINMENT ELECTRICAL PENETRATIONS	YES		NO NEW REQ
1.64	2	6/76	QA FOR DESIGN	NO	1,5	
1.65	0	10/73	MATERIALS INSPECTIONS FOR RV STUDS	NO	5,7,1	
1.66	--	-----	(NONE - WITHDRAWN)	NO	N/A	
1.67	0	10/73	INSTALLATION OF O/P PROT DEVICES	YES		NO NEW REQ
1.68	2	8/78	INITIAL TEST PROGRAM	YES		NEW 'A' ITEMS
1.68.1	1	1/77	TEST OF FEEDWATER/COND FOR BWR'S	NO	N/A	
1.68.2	1	7/78	TEST OF REMOTE SHUTDOWN CAPABILITY	YES		NEW 'A' ITEMS
1.68.3	0	4/82	TEST OF I & C AIR SYSTEMS	NO	N/A	
1.69	0	12/73	RADIATION SHIELDS	NO	1,7	
1.70	3	11/78	FSAR FORMAT GUIDE	NO	5	
1.71	1	12/73	WELDER QUAL (LIMITED ACCESS)	NO	5	
1.72	2	11/78	FIBERGLASS SPRAY PANEL PIPING	NO	N/A	

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REG GUIDE	REV	DATE	TITLE (SUBJECT)	REVIEW	REASON	REVIEW RESULTS
1.73	0	1/74	QUAL TESTS OF CONT EMO'S	YES		NO NEW REQ
1.74	0	2/74	QA DEFINITIONS	NO	5	
1.75	2	9/78	PHYSICAL IND OF ELECT SYSTEMS	YES		NO NEW REQ
1.76	0	4/74	DESIGN BASIS TORNADO	NO	1,4	
1.77	0	5/74	CONTROL ROD EJECTION ASSUMPTIONS	NO	4	
1.78	0	6/74	CONTROL ROOM HABITABILITY ASSUMPTIONS	YES		NO NEW REQ
1.79	1	9/75	ECCS PREOPERATIONAL TESTING	YES		NEW 'A' ITEM
1.80	0	6/74	INSTRUMENT AIR PREOPERATIONAL TESTING	YES		NO NEW REQ
1.81	1	1/75	SHARED ELECT SYSTEMS FOR MULTI-PLANTS	NO	N/A	
1.82	0	6/74	ECCS SUMPS	YES		NO NEW REQ
1.83	1	7/75	ISI FOR STEAM GENERATOR TUBES	NO	7	
1.84	16	5/80	ASME CODE CASES	NO	1,5	
1.85	16	5/80	ASME CODE CASES (MATERIALS)	NO	1,5	
1.86	0	6/74	TERMINATION OF OPERATING LICENSES	NO	5,6	
1.87	1	6/75	CONSTRUCTION OF HIGH TEMP REACTORS	NO	N/A	
1.88	2	10/76	HANDLING OF QA RECORDS	NO	5	
1.89	0	11/74	QUALIFICATION OF 1E EQUIPMENT	NO	3	
1.90	1	8/77	ISI FOR GROUTED TENDONS	NO	N/A	
1.91	--	-----	TRANSPORT ROUTE EXPLOSIONS	NO	4,5	
1.92	1	2/76	SEISMIC MODAL RESPONSE COMB	NO	4,1	
1.93	0	12/74	AVAILABILITY OF ELECTRICAL POWER SOURCES	YES		NO NEW REQ
1.94	1	4/76	QA FOR CONSTRUCTION	NO	5,7	
1.95	1	1/77	CONTROL ROOM PROT FOR CHLORINE	YES		NO NEW REQ
1.96	1	6/76	BWR MSIV'S	NO	N/A	
1.97	1	8/77	POST-ACCIDENT MONITORING	YES		NO NEW REQ

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REG GUIDE	REV	DATE	TITLE (SUBJECT)	REVIEW	REASON	REVIEW RESULTS
1.98	0	3/76	BWR OFFGAS ASSUMPTIONS	NO	N/A	
1.99	1	4/77	RX VESSEL MATERIAL RADIATION DAMAGE	NO	3,4	
1.100	1	8/77	SEISMIC QUAL OF ELECTRICAL EQUIPMENT	NO	3,4	
1.101	--	-----	(NONE - WITHDRAWN)	NO	N/A	
1.102	1	9/76	FLOOD PROTECTION	YES		NO NEW REQ
1.103	1	10/76	POST-TENSIONED/PRE-STRESSED CONT	YES		NO NEW REQ
1.104	0	2/76	OVERHEAD CRANE SYSTEMS	NO	W/D	
1.105	1	11/76	INSTRUMENT SETPOINTS	YES		NO NEW REQ
1.106	1	11/76	EMD THERMAL OVERLOADS	YES		NO NEW REQ
1.107	1	2/77	QUAL FOR TENDON GROUTING	NO	N/A	
1.108	1	8/77	DIESEL GENERATOR TESTING	YES		NEW 'A' ITEMS
1.109	1	10/77	APPENDIX I DOSE CALCULATIONS	NO	4	
1.110	0	3/76	RADWASTE COST/BENEFITS ANALYSIS	NO	4	
1.111	1	7/77	ESTIMATING AIR RELEASE DISPERSION	NO	4	
1.112	0	5/77	EFFLUENT RELEASE CALCULATIONS	NO	4	
1.113	1	4/77	ESTIMATING WATER RELEASE DISPERSION	NO	4	
1.114	1	11/76	OPERATOR GUIDANCE	NO	5,6	
1.115	1	7/77	TURBINE MISSILE PROTECTION	NO	1,4	
1.116	0	5/77	QA FOR MECHANICAL EQUIPMENT	NO	5	
1.117	1	4/78	TORNADO DESIGN CLASSIFICATION	NO	1,5	
1.118	2	6/78	TESTING OF ELECTRICAL SYSTEMS	YES		NO NEW REQ
1.119	--	-----	(NONE - WITHDRAWN)	NO	N/A	
1.120	1	11/77	FIRE PROTECTION	YES		NO NEW REQ
1.121	0	8/76	STEAM GENERATOR TUBE PLUGGING	NO	6,7	
1.122	1	2/78	FLOOR RESPONSE SPECTRA	NO	1,4	

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REG GUIDE	REV	DATE	TITLE (SUBJECT)	REVIEW	REASON	REVIEW RESULTS
1.123	1	7/77	QA FOR PROCUREMENT	NO	5	
1.124	1	1/78	COMP SUPP SERVICE LIMITS	NO	4	
1.125	1	10/78	MODELS FOR HYDRAULIC STRUCTURES	NO	3,4	
1.126	1	3/78	FUEL DENSIFICATION MODEL	NO	4	
1.127	1	3/78	WATER CONTROL STRUCTURE INSPECTION	NO	5,7	
1.128	1	10/78	STORAGE BATTERY INSTALLATION	YES		NO NEW REQ
1.129	1	2/78	MAINTENANCE & TESTING OF BATTERIES	YES		NO NEW REQ
1.130	1	10/78	COMP SUPPORT SERVICE LIMITS	NO	1,4	
1.131	0	8/77	QUAL TESTS OF ELECTRICAL CABLES	NO	3	
1.132	1	3/79	INVEST. FOR FOUNDATIONS	NO	5,7	
1.133	1	5/81	LOOSE PARTS MONITORING	YES		NO NEW REQ
1.134	1	3/79	MEDICAL EVALUATION OF OPERATORS	NO	5	
1.135	0	9/79	NORMAL WATER LEVEL & DISCHARGE	YES		NO NEW REQ
1.136	1	10/78	MATERIAL FOR CONCRETE CONTAINMENT	NO	1	
1.137	1	10/79	DIESEL GENERATOR FUEL OIL	YES		NEW 'A' ITEM
1.138	0	4/78	SOILS ENGINEERING ANALYSIS	NO	4	
1.139	1	2/80	RESIDUAL HEAT REMOVAL	YES		NO NEW REQ
1.140	0	3/78	AIR FILTRATION CRITERIA	YES		NO NEW REQ
1.141	0	4/78	CONTAINMENT ISOLATION SYSTEM	YES		NO NEW REQ
1.142	0	4/78	SAFETY-RELATED CONCRETE STRUCTURES	NO	1,4	
1.143	0	7/78	RADWASTE DESIGN GUIDANCE	NO	1	
1.144	1	9/80	QA AUDITING	NO	5	
1.145	0	8/79	ATMOSPHERIC DISPERSION MODELS	NO	4	
1.146	--	8/80	QUALIFICATIONS FOR QA AUDIT PERSONNEL	NO	5	
1.150	1	2/83	REACTOR VESSEL UT	NO	3,7	

## REVIEW OF TECHNICAL SPECIFICATIONS

In general, preoperational test acceptance criteria were developed with limited input from the WCGS Technical Specifications which might apply to the systems being tested. At the time of development of the test procedures the Technical Specifications were not finalized, and basic design documents and the FSAR were considered to be more appropriate technical sources for the preoperational acceptance criteria. Because of this approach, concerns have been raised that inappropriate differences may exist between the Technical Specifications limits and preoperational test acceptance criteria. Consequently, a review of the acceptance criteria for each preoperational test against the Technical Specifications for that system was performed. Since only a limited number of preoperational tests' acceptance criteria have corresponding Tech Spec limits, the actual approach taken in the review was as follows:

1. Using the latest available Technical Specification draft\*, those subsections and paragraphs providing quantitative limits were identified.
2. The Tech Spec quantitative limits were compared to the test acceptance criteria and other test package information in order to identify any differences.
3. Determine if a reasonable basis exists for the difference and identify those differences which may require further action or evaluation.

To identify the Tech Specs which provide quantitative limits, all individual Tech Specs were reviewed and approximately twenty were identified. Table 1, "Tech Specs with Identifiable Limits Pertinent to Preop Testing", lists those which have corresponding acceptance criteria in the preoperational tests. Tech Specs which are of significance following Fuel Load (such as certain specifications for Reactivity Control, or Radioactive Effluent Release) are not applicable, and some sections of the Tech Specs do not apply (Sections 1.0-Definitions, 5.0-Design Bases, and 6.0-Administrative). Generally the quantitative limits are provided in the LCO's and the Surveillance Requirements. The quantitative information

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\* Reference: Koester to Denton, KMLNRC 84-226,  
Subject: Technical Specifications, 12/10/84



of interest to preoperational testing are those parameters which define physical limits for equipment or system performance (such as flow, pressure, response time). Numerical plant operating limits (such as water chemistry limits) that can be adjusted as needed do not provide usable information for comparison to test procedures.

The comparison of the Tech Spec performance parameter limits to equivalent test procedure acceptance criteria and test results indicated that many of the limits were identical. For example, Tech Spec 3/4.3.1, Reactor Trip System Instrumentation, Table 3.3-2 defines limits for instrument response times. The corresponding test procedure (SU3SB01, Solid State Protection System) gives identical values.

In other cases, differences exist which are appropriate because of the different purposes and uses of the Tech Specs vs. the purposes of the preoperational test, such as variances in the way the Tech Specs specify emergency standby pump performance vs. the way the preoperational test criteria specify acceptable performance. One example of this is Tech Spec 3/4.5.2 for Safety Injection Pumps. Paragraph f requires that the pump meet a limit of  $\geq 1445$  psid when tested on recirculation, whereas the preoperational limit is specified near the pump rating point, and gives a criterion of 650 gpm  $+0 -7$  at a TDH of  $\geq 1760$  ft. The variance in the type of specification is appropriate because the intent of the Tech Spec is to permit testing during power operation when full flow testing is impractical. However, the purpose of the preoperational test is to prove that the installed pump performance is correct at the duty point or to generate sufficient points to verify the performance curve. This type of appropriate difference was found in the ECCS, Containment Spray, and Auxiliary Feedwater Pump cases.

A second type of appropriate difference was noted in the response times of Table 3.3-5. The Technical Specification generally specifies sensor-to-component actuation times, while the preoperational tests generally have acceptance criteria for the system or components being tested. In these cases, the acceptance criteria from the various system tests were considered collectively and compared to the Technical Specification values. No cases were identified which would suggest a change in the preoperational test acceptance criteria.



### Conclusions

Although some differences exist between the Technical Specification limits and the preoperational test acceptance criteria, no cases of inappropriate preoperational test acceptance criteria were identified.

TABLE 1 - TECH SPECS WITH IDENTIFIABLE LIMITS  
PERTINENT TO PREOP TESTING

- 1) 3.1.2.3/3.1.2.4 Charging Pump Shutdown/Operating
- 2) 3.3.1 RTS Instrumentation
- 3) 3.3.2 ESFAS Instrumentation
- 4) 3.5.2/3.5.3 ECCS Subsystems
- 5) 3.6.1.1 Containment Integrity
- 6) 3.6.1.2 Containment Leakage
- 7) 3.6.1.3 Containment Airlocks
- 8) 3.6.1.7 Containment Ventilation System
- 9) 3.6.2.1 Containment Spray System
- 10) 3.6.2.2 Spray Additive System
- 11) 3.6.2.3 Containment Cooling System
- 12) 3.6.3 Containment Isolation Valves
- 13) 3.6.4.2 Hydrogen Control System
- 14) 3.7.1.1 Steam Line Safety Valves
- 15) 3.7.1.2 Auxiliary Feedwater System
- 16) 3.7.6 Control Room Emergency Ventilation System
- 17) 3.7.7/3.9.13 Emergency Exhaust System
- 18) 3.7.10.1 Fire Suppression Water System
- 19) 3.8.1.1/3.8.1.2 A.C. Sources Operating/Shutdown
- 20) 3.8.2.1/3.8.2.2 D.C. Sources Operating/Shutdown
- 21) 3.9.8.1/3.9.8.2 RHR and Coolant Circulation/Low Water Level

Note: The above items are listed by their LCO number, but also include the corresponding Surveillance Requirement.

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
AB	10.3.2.2	4	ATMOSPHERIC RELIEF VALVE CONTROLS	3AB04/3008	2.7/APP D	A	
AB	10.3.2.2	5	MSIV CLOSURE REQUIREMENTS	3AB04	2.1,7.2	A	
AB	10.3.2.3	5	MSIV OPERATION IN EMERGENCYS	3AB04	2.2,7.3	A	
AB	10.3.2.3	5	AFW PUMP TURBINE VALVES OPERATE	3AB01	2.7,7.3	A	
AB	10.3.3	7	ATMOS RELIEFS FAIL CLOSED	3AB01	2.8,7.2	A	
AB	10.3.3	7	MSSV'S PROVIDE OVERPRESSURE PROTECTION	3AB02A/2B	2.1/2.1	A	
AB	10.3.4.3	8	MSIV REDUND. ACTUATOR CLOSE TIME TESTING	3AB04	2.1,7.2	A	
AB	15.1.4.1	10	MSIV TRIP CONDITIONS	3SA01	2.1,2.2	A	
AB	15.1.5.1	14	MSIV CLOSE TIME/TRIP COND	3AB04	2.1,7.2	A	
AB	6.3.3	26	RX TRIP TURBINE TRIP & STEAM DUMP	3AB01	2.1,7.1.2	A	
AB	6.3.3	26	RX TRIP TURBINE TRIP & STEAM DUMP	3AB01	2.2,7.1.1	A	
AB	7.3.7.1	23	MSIV'S HAVE 2 INDEPENDENT CLOSING MEANS	3AB04	2.1,7.2	A	
AB	7.3.7.1.1	23	MSIV'S AUTO CLOSE ON SSPS SIGNAL	3AB04/AB03	2.1/2.2	A	
AB	7.3.7.1.1	23	MSIV EXERCISE LOGIC	3AB03	7.2	A	
AB	7.3.7.1.1	24	REDUNDANT VALVE ACTUATORS	3AB04	2.1,7.2	A	
AB	7.3.7.2	25	VALVE EXERCISE IS OVERRIDDEN BY SIS	3AB03	7.2	A	*
AB	7.3.8.3.2	53	STEAM LINE BREAK PROTECTION & TIMING	3AB04	2.1,2,7.0	A	
AB	7.7.1	3	STEAM DUMP CONTROL	3AB01	7.4	A	
AB	Q640.10	7	SAFETY VALVE LIFT SET POINT TOLERANCES	3AB02B/2A	2.1,7.0	A	

\* Change approval in process

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
AC	10.2.1.2	1	T/G ALLOWS PROTECTION TSTS UNDER LOAD	4AC01	7.2	A	
AC	10.2.2.2	2	MSV CLOSE TIME IN EMG CONDITIONS	4AC02	7.1	A	
AC	10.2.2.2	3	CONTROL VALVES CLOSE IN .2 SEC	4AC02	7.1	A	
AC	10.2.2.2	4	ISV'S AND CIV'S CLOSE IN 0.2 SEC	4AC02	7.1	A	
AC	10.2.2.3.3	8	STARTUP OVERSPEED TRIP TESTING	4AC01/02	7.2	A	
AC	10.2.2.3.4	9	REQUIRED TURBINE TRIPS	4AC02	7.1,7.2	A	
AC	10.2.3.5	11	HYDROGEN LEAK TESTING	4CC01	6.2	A	
AC	10.2.3.5	11	HYDROGEN PURITY TESTING	4CC01	2.2,7.3.18	A	
AC	15.1.2.2	5	TURBINE TRIP ON SG HI-HI LEVEL	4AC02	7.2	A	
AC	3.5.1.3.2	5	TURBINE EHC SYSTEM LOGIC DESIGN	4AC02	7.2,7.3	A	
AC	3.5.1.3.2	6	TURBINE OVERSPEED TRIPS STOP VALVES	4AC02	7.2	A	
AC	3.9(N).1.1	8	TURBINE ROLL TEST	4AC01	7.1,7.2	A	
AC	5.4.1.3.8	7	GENERATOR & RCP OVERSPEED PROTECTION	4AC02	7.2	A	
AC	7.2.1.1.1	2	REACTOR TRIP INITIATES TURBINE TRIP	4AC02	7.2	A	
AC	7.7.1.4.2	12	AUTOMATIC TURBINE LOAD RUNBACK	4AC03	7.3	A	
AC	7.7.1.4.3	12	TURBINE LOAD STOP INTERLOCK	4AC03	7.3	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
AD	10.4.1.2.3	3	LEVEL CONTROLS MAINTAIN HOTWELL LEVEL	4AD01	7.13	A	
AD	11.2-2 TABLE	0	CST LEVEL IND & ALARM REQMT	4AD01	7.1.2	A	

SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
AE	10.4.7.4.1	31	MFIV CLOSE TIME TESTING	3AE01	2.2	A	
AE	15.1.2.2	5	SG HI-HI LEVEL TRIP FUNCTION	3AE01	7.4,7.5	A	
AE	15.1.4.1	10	REDUNDANT ISO OF MAIN FEED ON SIS	3AE01	7.1,7.2	A	
AE	7.1.2.5.2	13	FCV'S FAIL CLOSED ON LOSS OF PWR OR AIR	3AE01	7.2.1.8	A	
AE	7.3.7.1	23	MFIV'S HAVE 2 INDEPENDENT CLOSING MEANS	3AE01	7.1	A	
AE	7.3.7.1.1	23	MFIV'S AUTO CLOSE ON SSPS SIGNAL	3AE01	7.1	A	
AE	7.3.7.1.1	23	MFIV EXERCISE LOGIC	3AE01	7.1	A	
AE	7.3.7.1.1	24	REDUNDANT VALVE ACTUATORS	3AE01	7.1.1-4	A	
AE	7.3.7.2	25	VALVE EXERCISE IS OVERRIDDEN BY SIS	3AE01	7.1	A	
AE	7.3.8.3.2	53	STEAM LINE BREAK PROTECTION & TIMING	3AE01	7.1	A	
AE	7.7.1	2	SG LEVEL CONTROL	3AE02	7.0	A	



SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
AL	10.4.9.2.1	47	AFWS COOLING CAPACITY	3AL01/AL02	7.4/7.4	A	
AL	10.4.9.2.1	48	AFWS FLOW RATE REQUIREMENT	3AL01/AL02	7.4/7.4	A	
AL	10.4.9.2.3	50	MD AFWP AUTO START SIGNALS	3AL01	7.1	A	
AL	10.4.9.2.3	50	TD AFWP START SIGNALS	3AL02	7.2	A	
AL	10.4.9.2.3	50	CST LO LEVEL AUTO XFER TO ESWS	3AL01	7.1	A	
AL	10.4.9.2.3	51	TD AFWP START ON 2 SG LO-LO LEVELS	3SA01	7.10	A	
AL	15.2.6.1	11	AUX FEED AUTO START CONDITIONS	3AL01/AL02	7.1/7.2	A	
AL	15.2.6.1	11	PUMP START TO RATED FLOW TIME LIMIT	3AL02/NF02	2.5/2.1,2	A	
AL	15.2.6.2	12	AUX FEED SYSTEM CAPACITY	3AL01/AL02	7.4/7.4	A	
AL	15.2.7.1	16	AUX FEED SUCTION PATHS	3AL01	7.1	A	
AL	15.2.8.2	21	AUX FEED CAPACITY ASSUMPTIONS	3AL01/02	7.4/2.5	A	
AL	18.2.7.2	28	AUTO/MANUAL INITIATION OF AFWS	3SA02	7.5	A	
AL	6.2.1.4.3.2	33	AUX FEED FLOWRATE	3AL01/AL02	7.4/7.4	A	
AL	6.2.1.4.3.2	33	FEEDWATER FLOW RATE DESIGN	3AL01	7.4	A	
AL	6.3.3	25	TURBINE AFWP FLOW RATE REQUIREMENT	3AL02	7.4	A	
AL	7.3.6.1	19	AFAS ISO OF BLOWDOWN & SAMPLE LINES	3SA03	7.15	A	
AL	7.3.6.1.1	19	AFAS INITIATION SIGNALS	3SA02	7.5	A	
AL	7.3.6.1.1	19	AFAS INITIATION SIGNALS	3AL01	2.3	A	
AL	7.3.6.1.1	20	AFWS AUTO SWITCHOVER FROM CST TO ESWS	3AL01	7.1	A	
AL	7.3.6.1.1	20	AFWS CAN ALWAYS FEED AT LEAST 2 SG'S	3AL01/AL02	7.4/7.4	A	
AL	7.3.6.1.2	21	AFWS PROVIDES FULL FLOW WITHIN 60 SEC	3AL01/AL02	7.4	A	
AL	9.4.3.2.3	42	AFW PUMP ROOM COOLER OPERATION	3AL03	7.1.2,7.2	A	
AL	9.4.3.3	46	AFW PUMP ROOM COOLER CAPACITY	3AL03	2.3	A	
AL	Q640.12	1	AUTO START OF AFWP'S ON ESFAS SIGNALS	3AL01	2.3	A	
AL	Q640.12	2	TD AFWP CAN MAKE 5 CONSEC COLD STARTS	3AL02	7.4	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
AL	Q640.6	1	AUX FEED SYSTEM WATER HAMMER TEST REQMT	3AL04	7.1-7.5	A	
AL	SER 22.2	17	AFW PUMP ENDURANCE TEST REQMTS	3AL03/AL05	2.1-2.3	A	
AL	SER APP C	9	S.G. WATER HAMMER TEST	3AL04	2.1	A	
AL	WC9.2.1.2.3	5	ESW SUCTION SUPPLY TO AFWS ON ESF AS	3AL01	7.1	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
AN	9.2.3.1.2	19	DISSOLVED O2 LIMIT FOR DWSTS MU WATER	4AN01	2.3,7.3.22	A	
AN	9.2.3.2.3	21	DWST LEVEL CONTROL LOGIC	4AN01	2.4,7.1	A	
AN	9.2.3.5	22	DEMIN XFER PMP LO PRESS ALARM IN CTRL RM	4AN01	7.4.1	A	
AN	WC9.2.3.1.2	8	DEMIN WTR MAKEUP WTR QUALITY REQMTS	4WM01	8.3	A	
AN	WC9.2.3.3	9	DEMIN WTR MAKEUP WATER PRETREATMENT	4WM01	7.4	A	
AN	WC9.2.3.3	10	AUTO LCV RESPONSE TO STORAGE TANK LEVEL	4AN01	7.0	A	RTST
AN	WC9.2.3.5	10	DEMIN WTR MAKEUP PREOP TESTING REQMT	4AN01	7.0	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
AP	9.2.6.1.2	30	CSTS LIMITS DISSOLVED O2 TO < 0.1 PPM	4AN01	2.3	A	
AP	9.2.6.2.3	31	CST LEVEL CONTROL & CNTRL RM ALARMS	4AD01	7.1	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
BB	11.2-2 TABLE	0	PRT LEVEL ALARMS & INDICATIONS	3BB02	7.2.9,23	A	
BB	11.2.2.2	7	RCDT HX CAPACITY REQUIREMENT	3BB13	7.2.50	A	
BB	18.2.1.1	2	RC VENT IS OPERABLE FROM CONTROL ROOM	6CS09	7.2	A	
BB	18.2.1.3.2	61	RVLIS FUNCTIONAL REQUIREMENTS	80010	7.3	A	
BB	18.2.13.2	61	TCCM ALARM FUNCTIONS	80011	ALL	A	
BB	18.2.17.20.2	81	RCP COOLING IN CASE OF LOSS OFFSITE PWR	3NF03	7.1,7.3	A	
BB	18.2.5.4	24	PORV PIPING DYNAMIC RESPONSE TESTING	30005	7.4	A	
BB	18.2.9.2	32	CTRL RM MANUAL PWR CHG FOR PZR HEATERS	3NG01	2.7,8.5,6	A	
BB	3.9(N).1.1	9	PRIMARY SIDE LEAKAGE TEST	3BB15A	7.1	A	
BB	3.9(N).2.1	33	RCS PIPING VIB & DYN EFFECTS TESTING	3BB14	ALL	A	
BB	3.9(N).2.4	38	HFT INTERNALS TEST AT > FULL FLOW	3BB05	7.14.10	A	
BB	3.9(N).2.4	36	FLOW-INDUCED VIB TEST OF RX INTERNALS	3BB05	7.0	A	
BB	4.4.2.7.2	17	PRIMARY COOLANT LOOP FLOWRATE TEST	3BB01	8.4-8.7	A	
BB	4.4.3.2	27	RCP NPSH REQUIREMENT W/ SEAL FLOW	3BB01/BG02	8.4-7/2.1	A	
BB	5.4-11 TABLE	0	RCS DESIGN PRESSURES	3BB11/BB04	7.6/2.0	A	
BB	5.2.5.1.2	31	RC LEAK DETECT SYS DETECTS LKS > 1 GPM	3BB15A/B	ALL	A	
BB	5.2.5.2.1	36	1GPM LEAKS ARE W/IN LEAK DET SYS CAPABIL	3BB15B/A	ALL/7.2	A	
BB	5.2.5.2.2	37	CTMT NRML & INST TUNNEL SUMPS LK DET SYS	3BB15B	2.2,2.3	A	
BB	5.4.14	54	COMP SUPPORTS ALLOW THERMAL EXPANSION	3BB06	7.8	A	
BB	7.2.2.3.2	32	LOOP TEMP RTD ACCURACY DEMONSTRATION	3BB16	7.2,3,4,5	A	
BB	7.2.2.3.2	32	COMPARISON OF CET'S WITH LOOP RTD'S	3BB16	7.2,3,4,5	A	
BB	7.2.2.3.2	32	LO RTD BYPASS FLO ALRMS & CNTRL BD LITES	8BB03	ALL	A	
BB	7.2.2.3.2	33	LOCAL RTD BYPASS FLOW INDICATORS	8BB03	ALL	A	
BB	7.2.2.3.4	34	PRESSURIZER HIGH LEVEL TRIP (ALARM)	3BB07	7.2.3	A	
BB	7.6.10.1	12	PZR PORV & BLOCK VALVE INTERLOCKS	3BB04	7.2.28,29	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
BB	7.6.6	5	COLD OVERPRESSURE ALARM ACTUATION	3BB04	7.2.28	A	
BB	7.6.6	6	LOW RCS PRESSURE BLOCK VLV LOGIC	3BB04	2.13	A	
BB	7.6.6	6	AUTO RCS PRESSURE CONTROL/PORV LOGIC	3BB04	2.5,6,7.2	A	
BB	7.7.1	2	PZR PRESSURE & LEVEL CONTROL	3BB04/BB07	2.1/7.1,2	A	
BB	Q640.10	9	PZR CONTINUOUS SPRAY FLOW VERIFICATION	8BB12	ALL	A	
BB	Q640.12	2	RCS FLOW COASTDOWN TESTING	8BB10	ALL	A	
BB	Q640.14	1	VERIF OF TEMP SENSORS DNSTRM OF PORVS	3BB13	7.1,7.2	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
BG	15.4.6.2	23	AUTO ACTIONS ON FLUX DOUBLING	3BG05	7.1	A	
BG	15.4.6.2	24	ASSUMED LIMIT ON UNBORATED WATER FLOW	3BG06	7.1,33.9	A	
BG	15.4.6.2	25	MAXIMUM DILUTION FLOW CAPACITY/STARTUP	3BG06	7.1,33.9	A	
BG	3.1.6	25	VCT LO LEVEL CAUSES AUTO MAKE-UP	3BG05	7.1,7.4	A	
BG	5.2.5.2.2	38	CHG PUMP FLOW IND PROVIDED IN CONTROL RM	3BG03/1/6	7.3/8.1,2	A	
BG	6.3-1 TABLE	0	CCP MAXIMUM FLOW VERIFICATION	3EM02	2.7	A	
BG	6.3.2.2	8	CCP MINI-FLOW OVERRIDE ON SIS	3BG01	2.3,2.4	A	
BG	6.3.2.2	8	CCP FLOW VS HEAD CURVE VERIFIED	3EM02	7.1	A	
BG	6.3.4.1.2	31	CCP FLOW RATE PRE-OP TEST	3BG01	2.1,2.2	A	
BG	7.6.11.1	13	VCT ISOLATION VALVE CONTROL LOGIC	3BG05	7.1	A	
BG	9.3-10 TABLE	0	CVCS FAILURE MODE & EFFECTS ANALYSIS	80013	ALL	A	
BG	9.3.4.1.2	33	CVCS CAN SUPPLY WTR AT RCS HYDRO PRESS	3BB11	7.6	A	
BG	9.3.4.1.2	32	CVCS CONTROLS CHANGES IN RCS BORON CONC	3BG06	7.3,2.15	A	
BG	9.3.4.1.2	32	CVCS CAN MAINTAIN RCS INVENTORY	3BG01	8.1,8.2	A	
BG	9.3.4.2.1.1	35	CVCS SUPPLIES 8 GPM/RCP FLTRD SEAL FLOW	3BG02/BG06	2.1/2.4	A	
BG	9.3.4.2.1.1	34	BORON CONCENTRATION DISPLAYED IN CR	3BG06	7.3,8.13	A	
BG	9.3.4.2.1.1	36	VCT LEVEL CONTROL & ALARM LOGIC	3BG05	7.1,7.4	A	
BG	9.3.4.2.1.3	38	RMCS CONTROLS MAKEUP WTR BORON CONC	3BG06	7.3	A	
BG	9.3.4.2.1.3	39	RMCS OPERATING MODE REQUIREMENTS (3 PGS)	3BG06	7.3,7.4	A	
BG	9.3.4.2.1.3	42	BA & MAKEUP WTR FLOW TOTALIZERS	3BG05	7.4	A	
BG	9.3.4.2.1.4	42	LETDOWN CHILLER HX TEMP CONTROL	3BG04	7.3	A	
BG	9.3.4.2.2	48	VCT HI-LOW LEVEL ALARM	3BG05	7.4.1,2	A	
BG	9.3.4.2.2	48	VCT PRESSURE IND, ALARM & AUTO ACTIONS	3HA01/RK01	7.6,8/7.3	A	
BG	9.3.4.2.2	46	EXCESS LETDOWN HX PRESSURE INDICATION	3BG06	8.5.5	A	
BG	9.3.4.2.2	46	EXCESS LTDN HX HI TEMP INDICATION & ALRM	3BG06/RK01	8.5.4/7.5	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
BG	9.3.4.2.2	46	LETDOWN LINE HI TEMP ALARM & AUTO ACTION	3BG03/BG06	7.2.15/7.4	A	
BG	9.3.4.2.2	45	REGEN HX OUTLET TEMP INDICATION & ALARM	3BG04/BG06	7.2.1/8.2	A	
BG	9.3.4.2.2	46	LETDOWN LINE PRESSURE INDICATION & ALARM	3BG06/RK01	7.1.34/7.3	A	
BG	9.3.4.2.2	59	TCV-386 AUTO TRANSFER	3BG04	7.3.8	A	
BG	9.3.4.2.2	44	CHARGING FLOW IS DETERMINED BY PZR LEVEL	3BB07	7.1	A	
BG	9.3.4.2.2	45	BA XFER PUMP OPERATION REQUIREMENTS	3BG05	7.3,7.4	A	
BG	9.3.4.2.2	45	EMG BORATION OPERATION OF BA XFER PUMPS	3BG06	7.3.8	A	
BG	9.3.4.2.2	48	VCT PRESS & LEV ALARMS & CNTRLS (2 PGS)	3BG05	7.4	A	
BG	9.3.4.2.2	49	BA TANK TEMP & LEVEL CONTROL RM ALARMS	3BG05	7.5	A	
BG	9.3.4.2.2	50	CHILLER SURGE TANK LEVEL ALARMS	3BG04	7.3.3	A	
BG	9.3.4.2.2	51	THERMAL REGEN DEMIN TEMP ALARM & DIVERT	3BG06	7.4	A	
BG	9.3.4.2.2	52	SEAL WTR INJ FLTR HIGH DP ALARM ON MCB	3BG02	8.6	A	
BG	9.3.4.2.2	53	LETDOWN CHILLER TEMP REQUIREMENTS	3BG06	7.4.6	A	
BG	9.3.4.2.3.2	58	BTRS AUTOMATIC OPERATIONS (2 PAGES)	3BG06/04	7.4/7.1	A	
BG	9.3.4.2.3.5	62	SIS AUTO ACTUATION OF SI FUNCTIONS	3BG05	2.7-2.10	A	
BG	9.3.4.2.3.5	62	SIS AUTO ACTUATION OF SI FUNCTIONS	3BG01/BG03	2.3,4/2.3	A	
BG	9.3.4.3	63	AUTO STOP OF BORON DILUTION ACCIDENT	3BG05	7.1	A	
BG	9.4.3.2.3	42	CCP ROOM COOLER OPERATION	3BG01	2.5,7.3,4	A	
BG	9.4.3.3	46	CCP ROOM COOLER CAPACITY	3BG06	2.11,7.1	A	
BG	RG-1.68	7	CVCS HEAT TRACING	4QJ03	2.2,7.2	A	
BG	WC6.3.2.2	9	ECCS MOV OPEN/CLOSE TIMES	3BG01/BG03	2.3,4/2.3	A	
BG	WC6.3.2.2	9	ECCS MOV OPEN/CLOSE TIMES	3BG05	2.7-10	A	

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SY'S	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
BM	10.4.8.2.2	38	BLOWDOWN ISO VLV PERFORMANCE	4BM01	2.15	A	
BM	10.4.8.2.2	38	BD SAMPLE ISO VLV PERFORMANCE	4BM01	2.16	A	
BM	10.4.8.2.3	43	BLOWDOWN SYS TEMP LIMITS	4BM01	2.8	A	
BM	10.4.8.2.3	43	SGBSIS INITIATION & RESET	3SA02	2.5	A	
BM	11.2-2 TABLE	0	SG BLDN SURGE TK LEVEL ALARMS	4BM01	2.11,7.4	A	
BM	11.5.2.2.2.3	7	SG BLOWDOWN HI-RAD ISOLATION	4BM01	2.3-5,2.9	A	
BM	7.3.6.1	19	AFAS ISO OF BLOWDOWN & SAMPLE LINES	4BM01	2.6,2.7	A	
BM	7.3.6.1	19	AFAS ISO OF BLOWDOWN & SAMPLE LINES	4BM01	8.1-8.3	A	
BM	7.3.6.1.1	20	SG BLOWDOWN & SAMPLE ISO AFAS LOGIC	4BM01	8.1-8.3	A	
BM	9.3.2.2.1	11	BLOWDOWN SAMPLE LINE ISO ON HI RAD	4BM01	2.9	A	

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SYS	PSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
BL	11.2-2 TABLE	0	MAKE-UP WATER STORAGE LEVEL IND & ALRM	4BL01	7.1	A	
BL	9.2-20 TABLE	0	REACTOR MAKEUP WATER REQUIREMENTS	4BL01	7.3.14,32	A	
BL	9.2.7.1.2	33	MU WATER XFER PUMP CAPACITY	4BL01	7.3.14,32	A	
BL	9.2.7.2.3	36	RMWS PUMP CONTROL LOGIC	4BL01	7.1,7.3	A	
BL	9.2.7.2.3	37	CTMT ISO VALVE CLOSING ON CIS-A	4BL01	7.2.9	A	
BL	9.2.7.5	37	MWST LEVEL CONTROLS & ALARMS	4BL01	7.1	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
BN	11.2-2 TABLE	0	RWST LEVEL INDICATIONS & ALARMS	3EJ01	7.11,7.12	A	
BN	12.2.1.7	5	RWST PROCESSING THRU SFP FILTER/DEMIN	3EC01	7.6	A	
BN	6.2.2.1.2.3	7	ECCS SUCTION AUTO SWITCHOVER TO RECIRC	3EJ01	2.5	A	
BN	6.3-7 FIGURE	0	RWST VOLUMES & SETPOINTS	3EJ01	7.2.96	A	
BN	6.3.2.2	5	LEVEL SETPOINTS & INSTRUMENT ERROR	3EJ01	7.11	A	
BN	6.3.5.5	36	CTRL RM INDICATION FOR MANUAL VLV POSITN	3EJ01	7.2.96	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
DA	10.4-3 TABLE	0	CNDSR DRAIN PMP 900 GPM AT TDH OF 88 FT	4DA01	2.2,7.7.7	A	
DA	10.4-3 TABLE	0	WTR BOX VENT PMP'S REDUCE PRESS TO 5" HG	4DA01	2.3,7.5	A	
DA	10.4.5.1.2	14	CWS LIMITS TEMP RISE THRU THE CONDENSER	4DA01	ALL	A	
DA	10.4.5.1.2	14	CWS SUPPLIES SUFF FLOW TO CONDENSE STEAM	4DA01	2.4,7.6.17	A	
DA	10.4.5.2.3	15	CWS DISCH VLVS CLOSE ON COND HI LEVEL	4DA01	2.7,7.4	A	
DA	10.4.5.2.3	15	STNDPIPE LO-LEV WILL AUTO STOP CND DRN P	4DA01	2.1,7.7.11	A	
DA	WCS.3.1.1	1	SITE AUX POWER TO CWS SCREENHOUSE	4SL04	ALL	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EA	9.2-1 TABLE	0	SWS FLOW REQUIREMENTS - NORMAL OP	4EA01	8.3,5,7	A	
EA	9.2.1.1.2.3	2	ON LOP THE SYSTEM ISOLATES FROM ESWS	3EFO1	2.3	A	
EA	9.2.1.1.5	2	RADIATION DETECTION IS PROVIDED	3SP01	2.11,7.2	A	
EA	WC9.2.1.1.2	1	SWS CAPACITY REQUIREMENTS	4EA01	8.1,8.2	A	
EA	WC9.2.1.1.2	1	SW DISCHARGE PRESSURE & FLOW REQMTS	4EA01	8.3,5,7	A	
EA	WC9.2.1.1.2	1	SW PUMP DISCH PRESS & FLOW REQMTS	4EA01	8.3,5,7	A	
EA	WC9.2.1.1.3	2	SWS HEADER PRESS & LO PRESS ALARMS	4EA01	7.1.5.2,5	A	
EA	WC9.2.1.2.1.1	3	SWS SAFETY DESIGN BASIS	4EA01	8.1,8.2	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EB	9.2-21 TABLE	0	COMPONENTS COOLED BY CICWS	4EB01	2.2,8.1	A	
EB	9.2.8.2.2	39	CL COOLING WATER PUMP CAPACITY	4EB01	2.1,8.2	A	
EB	9.2.8.2.3	39	CL COOLING WATER FLOW CONTROL LOGIC	4EB01/FC01	7.3/7.1,2	A	
EB	9.2.8.2.3	40	CICW SYSTEM AUTO MAKE-UP CONTROL	4EB01	7.1	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EC	3.1.8	42	SFP LOCAL & CNTRL RM ALARMS	3EC01	7.1,2,5	A	
EC	9.1-5 TABLE	0	FP COOLING & CLEANUP DESIGN PARAMETERS	3EC01	7.1,2,3,4	A	
EC	9.1.3.2.1.2	17	FUEL POOL CLEANUP PUMP FLOWRATE	3EC01	7.3.8,14	A	
EC	9.1.3.2.2	18	FUEL POOL COOLING PUMP CAPACITY	3EC01	7.1.6,7.2	A	
EC	9.1.3.2.2	19	FUEL POOL CLEANUP FILTERS	3EC01	7.6.20	A	
EC	9.1.3.2.2	20	FUEL POOL SKIMMER PUMP FLOW	3EC02	7.4.2	A	
EC	9.1.3.2.3.1	22	FP CLEANUP SYSTEM HI-TEMP LIMIT	3EC01	7.5.10	A	
EC	9.1.3.5	24	FP COOLING & CLEANUP INSTRUMENTATION	3EC01	7.3,4,5,6	A	
EC	Q640.11	7	RWST HEAT SUPPLIED BY AUX STM (BN-TV6)	3EC01	7.0	A	RTST
EC	RO-1.68	12	ANTI-SYPHON DEVICE TESTING	3EC02(R)	2.5,2.6	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EF	7.6.7.1	7	ESW ISO VALVES FAIL CLOSED	3EF01	7.5,7.10	A	
EF	7.6.7.1	7	ESW AUTO ISO TO AIR COMP ON HI FLOW	3EF01	7.0	A	RTST
EF	9.2-2 TABLE	0	FLOW REQUIREMENTS - NORMAL OPERATION	3EF01	7.5,10,8.0	A	
EF	9.2-3 TABLE	0	FLOW REQUIREMENTS - POST LOCA	3EF01	7.5,10,8.0	A	
EF	9.2-4 TABLE	0	FLOW REQUIREMENTS - NORMAL SHUTDOWN	3EF01	7.5,7.10	A	
EF	9.2.1.2.2.3	6	SYSTEM PERFORMANCE ON ESFAS	3EF01	7.0	A	
EF	9.2.1.2.4	8	SYS IS TESTABLE THRU FULL OP SEQUENCE	3EF01	7.5,10,8.0	A	
EF	9.2.1.2.5	9	REDUNDANT CONTROLS ARE PROVIDED	3EF01	7.7-7.10	A	
EF	WC9.2-1 TABLE	0	ESWS COMPONENT DATA	3EF01	8.1-8.6	A	
EF	WC9.2.1.2.2.2	4	ESW PUMP CAPACITY & CAPACITY MARGIN	3EF01	8.3,8.5	A	
EF	WC9.2.1.2.2.2	4	ESWP PRELUBE STORAGE TK SIZE REQMT	3EF01	7.5,7.10	A	
EF	WC9.2.1.2.2.2	4	ESW SELF-CLEANING STRAINER AUTO BACKWASH	3EF01	7.5,7.10	A	
EF	WC9.2.1.2.3	5	TRAVELING SCREEN AUTO START & CLEANING	3EF01	7.5,7.10	A	
EF	WC9.2.1.2.3	5	ESW PRELUBE TK LEVEL CONTROL	3EF01	7.5,7.10	A	
EF	WC9.2.1.2.3	5	ESW SCREEN BACKWASH CONTROL	3EF01	7.5,10,3.8	A	
EF	WC9.2.1.2.4	6	ESW TRAINS MEET SINGLE FAILURE CRITERION	3EF01	7.5,10,4.9	A	
EF	WC9.2.1.2.6	7	ESW REDUNDANT CONTROLS & PWR SUPPLIES	3EF01	7.7-7.10	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EG	11.5.2.2.1	7	CCW HI-RAD ALARM & ISOLATION	3EG01	7.13	A	
EG	6.2.4.5	8	RAD MON CLOSES CCW SURGE TK VENT VLV	3EG01/SA03	7.13/7.3	A	
EG	7.6.8.1	9	CCW ISOLATION VALVE LOGIC TESTING	3EG01	7.0	A	
EG	7.6.8.1	10	CCW ISOLATION VALVE INTERLOCKS	3EG01	7.13	A	
EG	9.2-10 TABLE	0	SYSTEM COMPONENT DATA	3EG01	7.14,7.15	A	
EG	9.2-13 TABLE	0	INDICATION & ALARM DEVICES	3EG01	7.0	A	
EG	9.2-7 TABLE	0	SYSTEM REQMTS - NORMAL OPERATION	3EG01	7.6.4,7.7	A	
EG	9.2-8 TABLE	0	SYSTEM REQMTS - SHUTDOWN OPERATIONS	3EG01	7.5.6	A	
EG	9.2-9 TABLE	0	SYSTEM REQUIREMENTS - POST LOCA	3EG01	7.2.3,7.3	A	
EG	9.2.2.2.2	12	PUMP CAPACITY & LOGIC ON SIS & LOP	3EG01	7.14,7.15	A	
EG	9.2.2.2.2	12	AUTO MAKEUP TO SURGE TANKS	3EG01	7.1,7.18	A	
EG	9.2.2.2.2	13	VALVES TO NSR LOOP 7 AIL CLOSED	3EG01	7.1,12-18	A	
EG	9.2.2.2.2	13	CIS AUTO CLOSES CTMT ISO VALVES	3SA03	7.3.11	A	
EG	9.2.2.2.3	14	HI RAD CLOSES SURGE TANK VENT	3EG01	7.13.3	A	
EG	9.2.2.2.3	14	PUMP START LOGIC & INTERLOCKS W/ CCP'S	3EG01	7.14,7.15	A	
EG	9.2.2.5	18	HI FLOW SWITCHES CAUSE ISO VLV CLOSURE	3EG01	7.19-22.5	A	
EG	9.2.2.5	18	SURGE TK LO/LO-LO LEVEL LOGIC	3EG01	7.1,7.8	A	
EG	9.4.3.2.3	42	CCW PUMP ROOM COOLER OPERATION	3EG01	2.18,2.20	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EJ	3.1.6	26	RHR SYS HEAT XFER RATE REQUIREMENTS	3EJ02	8.4	A	
EJ	3.1.6	26	RHR SYS FUNCTION TEMP & PRESS REQMTS	3EJ02	7.1.1-9	A	
EJ	3.1.6	26	RHR RUNS ON ONSITE OR OFFSITE POWER	3NE01	7.3,7.8	A	
EJ	3A APPENDIX	29	RHR SYSTEM COLD PREOP TESTING	3EJ01	A11	A	
EJ	5.4A-3 TABLE	0	RHR FAILURE MODES ANALYSIS TABLE	3EJ01/EJ02	7.1,7.2	A	
EJ	6.2.1-3 TABLE	0	ESFAS RHR SYS DESIGN PARAMETERS	3EJ02	A11	A	
EJ	6.3-1 TABLE	0	RHR PUMP PARAMETERS	3EJ01	7.7,8,9,10	A	
EJ	6.3-3 TABLE	0	ECCS MOV INTERLOCKS/AUTO SIS ACTIONS	3EJ01/EM01	7.1,2/7.3	A	
EJ	6.3-7 FIGURE	0	RWST VOLUMES & SETPOINTS	3EJ01	7.11	A	
EJ	6.3.2.1	3	RHR SVOVER TO SIS RECIRC INTERLOCKS	3EJ01	2.5,2.8	A	
EJ	6.3.2.2	7	RHR PUMP PERFORMANCE CURVE VERIFIED	3EJ01	8.7,8.9	A	
EJ	6.3.2.2	7	BYPASS LINE AUTO CLOSE AFTER FLOW INIT	3EJ01	7.7,7.8	A	
EJ	6.3.2.2	7	RHR PUMP PERFORMANCE CURVE VERIFIED	3EJ01	7.7-7.10	A	
EJ	6.3.2.2	11	RHR SYSTEM BUTTERFLY VALVES FAIL MODE	3EJ01	7.3.5,8.6	A	
EJ	6.3.2.2	12	RHR PUMP NPSH	3EM02	7.8	A	
EJ	6.3.2.2	13	ECCS MOV POWER LOCKOUT	3EJ01	7.1,7.2	A	
EJ	6.3.4.1.2	31	ECCS PUMP & FLOW RATE TESTING	3EJ01	7.7-10	A	
EJ	6.3.5.1	34	RHR HX TEMPERATURE INDICATIONS	3EJ01	7.1,8.3	A	
EJ	6.3.5.2	35	RHR DISCH PRESSURE INDICATION & ALARMS	3EJ01	7.7-10,7.4	A	
EJ	6.3.5.3	35	RHR FLOW INDICATION & CONTROL	3EM02/EJ01	7.8/7.7,8	A	
EJ	6.3.5.3	36	RHR MINI-FLOW CONTROL	3EJ01	7.7,7.8	A	
EJ	6.3.5.5	36	CTRL RM INDICATION FOR MANUAL VLV POSITN	3EJ01	7.2,9.6,9.7	A	
EJ	7.6.2.1	1	RHR ISOLATION VALVE INTERLOCKS	3EJ01	7.1,7.2	A	
EJ	7.6.2.2	2	RHR VLV INTERLOCK SIGNAL & LOGIC TESTING	3EJ01	7.1,7.2	A	
EJ	9.4.3.2.3	42	RHR PUMP ROOM COOLER OPERATION	3EJ02	7.1.14,31	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EJ	9.4.3.3	46	RHR PUMP ROOM COOLER CAPACITY	3EJ02	2.6	A	
EJ	WC5.4.7.2.2	35	INTERLOCKING OF RHR SUCTION ISO VLVS	3EJ01	7.1,7.2	A	
EJ	WC6.3.2.2	9	ECCS MOV OPEN/CLOSE TIMES	3EJ01	8.1,2,5	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EM	3.1.6	29	EM SYS INITIAL VALVE TESTING	3EM01	7.3,8.1	A	
EM	3.1.6	29	AUTO ACTUATN VLV, PUMP & CIRCUIT TESTING	3EM02/NF02	7.4/ALL	A	
EM	3.1.6	29	FULL SYSTEM OPERATIONAL TESTING	3EM02/NF02	7.4/ALL	A	
EM	6.3-1 TABLE	0	SI PUMP PARAMETERS	3EM02	2.1,2.7	A	
EM	6.3-1 TABLE	0	SI PUMP PARAMETERS	3EM02	7.5,7.6	A	
EM	6.3-3 TABLE	0	ECCS MOV INTERLOCKS/AUTO SIS ACTIONS	3EM01/EJ01	7.3/7.1,2	A	
EM	6.3.2.1	4	SI/CHG PMP RECIRC SUCTION VLV INTERLOCK	3EM01	7.3.24-28	A	
EM	6.3.2.2	8	SI PUMP START ON SIS SIGNAL	3EM01	7.1,7.2	A	
EM	6.3.2.2	8	SI PUMP CURVE VERIFIED	3EM02	7.4	A	
EM	6.3.2.2	13	ECCS MOV POWER LOCKOUT (SI VALVES)	3EM01	7.3.29-34	A	
EM	6.3.2.2	12	RHR PUMPS SUPPLY ADEQUATE SI PUMP NPSH	3EM02	2.9,7.8	A	
EM	6.3.2.2	8	CCP CURVE VERIFIED	3EM02	7.1	A	
EM	6.3.4.1.2	31	ECCS PUMP & FLOW RATE TESTING	3EM02	7.4-7	A	
EM	6.3.4.1.2	32	CHECK VALVE TESTING	3EM03	ALL	A	
EM	6.3.5.2	34	SI DISCH PRESSURE INDICATION IN CTRL RM	3EM02	7.4	A	
EM	6.3.5.3	35	SI HEADER FLOW INDICATION	3EM02	7.4	A	
EM	9.4.3.2.3	42	SI PUMP ROOM COOLER OPERATION	3EM02	2.2	A	
EM	9.4.3.3	46	SI PUMP ROOM COOLER CAPACITY	3EM02	2.3	A	
EM	Q210.3	1	PRESSURE ISO VALVE TESTING REQUIREMENTS	3EM03	ALL	A	
EM	WC6.3.2.2	9	ECCS MOV OPEN/CLOSE TIMES	3EM02	2.8,8.6,18	A	
EM	6.3.5.3	35	SI PUMP MINI-FLOW INDICATION	3EM02	7.6	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EN	6.2.1.1.1	10	CTMT SPRAY FLOW RATE REQUIREMENTS	3EN02	7.5,8.2,5	A	
EN	6.2.1.1.1	11	CTMT SPRAY ALARMS & INDICATIONS	3EN02	7.1	A	
EN	6.2.2.1.2.2	3	CTMT SPRAY PUMPS	3EN02	7.4,7.5	A	
EN	6.2.2.1.2.2	4	CTMT SPRAY PUMPS HANDLE RUNOUT FLOW	3EN02	7.5,8.2,5	A	
EN	6.2.2.1.2.2	6	CTMT SPRAY HDR TEST CONNECTION	3EN01	7.1,7.2	A	
EN	6.2.2.1.2.3	6	CSS MANUAL OR AUTO ACTUATION	3EN02	7.1	A	
EN	6.2.2.1.2.3	6	SPRAY ADD EDUCTOR VLVS AUTO OPEN	3EN02	7.1	A	
EN	6.2.2.1.2.3	6	SPRAY ADD EDUCTOR VLVS CLOSE ON RECIRC	3EN02	7.1	A	
EN	6.2.2.1.2.3	7	SPRAY ADD EDUCTOR MANUAL CLOSE LOGIC	3EN02	7.1	A	
EN	6.2.2.1.2.3	7	CSP RECIRC SUCTION LINE REQUIREMENTS	3EN02	7.1	A	
EN	6.2.2.1.2.3	8	CSP CONTROL LOGIC	3EN02	7.6	A	
EN	6.2.2.1.2.3	7	RWST VALVE FUNCTION DURING RECIRC SWOVER	3EJ01	2.5,2.8	A	
EN	6.2.2.1.4	13	PREOP TESTING REQUIREMENTS	3EN01/EN02	7.0/7.0	A	
EN	6.5.2.2.2	6	SPRAY ADD TK LEVEL & VALVE INTERLOCKS	3EN02	7.1,13,17	A	
EN	6.5.2.2.3	7	SPRAY SYS ACTUATION & FLOW	3EN02	7.1-7.5	A	
EN	6.5.2.2.3	7	AUTO ISOLATION OF SPRAY ADD SUBSYS	3EN02	7.1	A	
EN	6.5.2.3	8	MAXIMUM SPRAY ADD FLOW RATE	3EN02	8.2,8.5	A	
EN	6.5.2.4	13	SPRAY ADD SUBSYSTEM TESTING REQUIREMENTS	3EN02	7.1,8.2,5	A	
EN	6.5.2.5	11	SPRAY ADD SUBSYS INSTRUMENTATION REQMTS	3EN02	7.4,7.5	A	
EN	7.3.8.1.1	29	CSP START TIME REQUIREMENTS	3EN02	7.2,7.3	A	
EN	7.3.8.2	48	OPERATR RESET OF CTMT SPRAY LOGIC REQMTS	3EN02	7.0	A	
EN	9.4.3.2.3	42	CTMT SPRAY PUMP ROOM COOLER OPERATION	3EN02	2.13	A	
EN	9.4.3.3	46	CTMT SPRAY PUMP ROOM COOLER CAPACITY	3EN02	2.13	A	
EN	Q640.12	3	PREOPS USE SAME TEST CONNECTIONS	3EN01/EN02	7.1,2/7.0	A	

SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
EP	3A APPENDIX	29	ACCUMULATOR DISCHARGE TESTING	3EP01	7.0	A	
EP	6.3-3 TABLE	0	ECCS MOV'S	3EP01	7.5	A	
EP	6.3.2.2	5	ACCUM GAS PRESS IS ALARM MONITORED	3EP01	7.1-7.4	A	
EP	6.3.2.2	5	ACCUM CAN BE DEPRESSURIZED IN EMG	3EP01	7.1-7.4	A	
EP	6.3.2.2	9	ECCS MOV OPEN/CLOSE TIMES	3EP01	7.1-7.4	A	
EP	6.3.2.2	12	CLOSED ACCUM VALVE ALARMS	3EP01	7.1-7.4	A	
EP	6.3.4.1.2	31	ACCUMULATOR PREOP TESTING REQUIREMENT	3EP01	7.1-7.4	A	
EP	6.3.5.2	34	ACCUM PRESSURE INDICATIONS & ALARMS	3EP01	7.1-7.4	A	
EP	6.3.5.4	36	ACCUM LEVEL INDICATIONS & CONTROLS	3EP01	7.1-7.4	A	
EP	6.3.5.5	37	MOV POSITION INDICATION & LIMIT SWITCHES	3EP01	7.1-7.4	A	
EP	7.6.4	3	ACCUMULATOR MOV LOGIC & INTERLOCKS	3EP01	7.5	A	
EP	7.6.4	4	ACCUMULATOR ISO VLV ALARMS	3EP01	7.1-7.5	A	
EP	WC6.3.2.2	9	ECCS VALVE DESIGN	3EP01	7.1-7.4	A	
EP	WC6.3.2.2	10	ACCUMULATOR CHECK VALVE LEAK TESTING	3EM02	2.8	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
FB	9.5.9.2.1	2	HI RAD/HI CONDUCTIVITY ALARMS & LOGIC	4FB02/3SP1	2.4/2.5	A	
FB	9.5.9.2.2	2	BOILER RATED CAPACITY	4FB01	2.2,2.3	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
FC	10.4.7.5	33	SGFP ONE TURBINE TRIP REQUIREMENTS	4FC01	7.0	A	
FC	10.4.7.5	32	SG FP TWO TURBINE TRIP REQUIREMENTS	4FC01	7.1,7.2	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
FP	WC9.5.1.1	1	FIRE PUMP SYSTEM SPECS	4FP03	7.0	A	
FP	WC9.5.1.2.1	3	FIRE PUMP FLOW REQUIREMENTS	4FP03	7.2,4,10	A	
FP	WC9.5.1.2.1	3	SYS CONTROL VLV LIMIT SWITCHES & ALARMS	4FP03	7.7,11,1	A	
FP	WC9.5.1.2.1	4	I & C SHOP FIRE PROTECTION	4FP03	7.11,12,13	A	
FP	WC9.5.1.2.1	4	FUEL OIL STORAGE TK FIRE PROTECTION	4FP04	7.1,2,3	A	
FP	WC9.5.1.2.2	4	FIRE DETECTION AND ALARMS	4FP03	7.8,12-14	A	
FP	WC9.5.1.4	5	FIRE PROT SYS TESTED IAW NAT'L STANDARDS	4FP02/3	7.0	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GA	9.4-18 TABLE	0	DESIGN DATA	4GA01	2.1	A	
GA	9.4.9.2.3	93	PUMP AUTO START ON LOW OUTSIDE AIR TEMP	4GA01	2.5	A	
GA	9.4.9.5	94	INSTRUMENTATION APPLICATIONS	4GA01	ALL	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GB	9.4-19 TABLE	0	DESIGN DATA	4GB01	2.1,2.2	A	
GB	9.4.10.2.3	96	CHILLED WATER TEMP CONTROL	4GB01	7.5	A	
GB	9.4.10.2.3	97	COMPRESSOR AUTO STOP ON LOW TEMP	4GB01	2.3	A	
GB	9.4.10.5	97	INSTRUMENTATION APPLICATIONS	4GB01	ALL	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GD	9.4-16 TABLE	0	DESIGN DATA	3GD01/0005	8.4A	A	
GD	9.4.8.1.2	86	ESW PUMP HOUSE TEMP LIMITS	3GD01	7.1,2,8.3	A	
GD	9.4.8.2.3	89	TEMP ALARMS & FAN CONTROL	3GD01	7.4	A	
GD	9.4.8.5	91	INSTRUMENTATION APPLICATIONS	3GD01	7.1,7.2	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GE	11.5.2.3.2.1	12	CNDS AIR DISCH RAD MON AUTO ISOLATION	4BM01	2.3	A	
GE	9.4-10 TABLE	0	DESIGN DATA	80005	8.4A	A	
GE	9.4.4.2.1	51	BATTERY ROOM HYDROGEN DILUTION	4GE02	2.1,2,3	A	
GE	9.4.4.2.3	53	TURBINE BLDG HVAC OPERATION	4GE01	2.2,1,3	A	
GE	9.4.4.2.3	54	BATTERY ROOM TEMPERATURE LIMITS	4PK01/2	2.2/2.3	A	
GE	9.4.4.2.3	54	LUBE OIL ROOM TEMPERATURE LIMITS	4GE01	2.3	A	
GE	9.4.4.2.3	54	COMPUTER ROOM TEMP LIMITS	4GE01	2.5	A	
GE	9.4.4.2.3	55	I & C SHOP TEMPERATURE LIMITS	4GE01	2.6	A	
GE	9.4.4.5	56	INSTRUMENT APPLICATIONS	4GE01/CG1	7.0	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GF	9.4-8 TABLE	0	DESIGN DATA	3GF01/GF02	7.3.3/7.2	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GG	11.5.2.3.2.5	14	FUEL BLDG HI-RAD ISO (ESFAS) & ALERT	3GG01	7.4.7,8	A	
GG	11.5.2.3.2.5	14	CNTRL RM RAD MON SAMPLE POINT XFER	3GG01	7.7.2.1-4	A	
GG	11.5.2.4	17	HI-RAD AUTO SWITCH FROM NORM TO EMG VENT	3GG01	7.4.7,8	A	
GG	15.7.4.5.1.1	11	FB HVAC IN ACCIDENT CONDITIONS	3SP01/GG01	7.4/2.1-4	A	
GG	15.7.4.5.1.1	12	FB HVAC IN ACCIDENT CONDITIONS	3SA02/SA03	2.3.1/2.11	A	
GG	6.5-1 TABLE	0	ESF FILTRATION SYSTEM PARAMETERS	3GG01	2.13	A	
GG	7.3.3.1	11	FUEL BLDG ISOLATION ON HI RADIATION	3GG01	2.1-2.4	A	
GG	7.3.3.1.1	12	FUEL BLDG EMG EXHAUST SYS LOGIC	3GG01	7.3,7.4	A	
GG	7.3.3.1.1	13	FBVIS IS FAIL-SAFE	3GG01	7.4.7,8	A	
GG	9.4-6 TABLE	0	DESIGN DATA	3GG01	2.11,2.14	A	
GG	9.4.2.2.3	22	EMG EXHAUST MAINTAINS NEGATIVE PRESS	3GG01	2.12	A	
GG	9.4.2.2.3	23	EMG EXHAUST SYS CONTROL LOGIC	3GG01	7.2,7.3	A	
GG	9.4.2.2.3	23	SFP COOLING PMP ROOM COOLERS	3GG01	2.14,7.8.2	A	
GG	9.4.2.2.3	25	EMERGENCY OPERATIONS (2 PAGES)	3GG01	2.5-2.8	A	
GG	9.4.2.5	29	INSTRUMENTATION APPLICATIONS	3GG01	7.0	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GH	11.5.2.3.3.2	17	RADWST BLDG RAD MON ALERT & HI ALARMS	3SP01	8.8	A	
GH	9.4-11 TABLE	0	DESIGN DATA	4GH01	2.3-2.8	A	
GH	9.4.5.2.3	59	SYSTEM OPERATION	4GH01	2.1,2.2	A	
GH	9.4.5.2.3	60	SUPPLY UNIT TRIP ON LOW TEMP	4GH01	7.1.16	A	
GH	9.4.5.2.3	60	STBY FAN AUTO START	4GH01	7.2.18	A	
GH	9.4.5.2.3	60	SUPPLY FAN INTERLOCKS	4GH01	2.1	A	
GH	9.4.5.2.3	60	DP CONTROLLER ASSURES EXFILTRATION	4GH01	7.2	A	
GH	9.4.5.5	61	INSTRUMENTATION APPLICATIONS	4GH01	7.0	A	

SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GK	11.5.1.1	1	ESFAS ACTUATION ON HI AIRBORNE	3SA03	2.2.1-8	A	
GK	11.5.2.3.2.6	15	CNTRL RM RAD MONITOR ALERT & CRVIS	3SA02	2.2.7	A	
GK	11.5.2.4	17	HI-RAD AUTO SWITCH FROM NORM TO EMG VENT	3SA02	2.2.7	A	
GK	12.2.2	6	AIRBORNE RADIOACTIVITY CONCENTRATIONS	3SA02	2.2.1-8	A	
GK	6.4.2.2	3	ISOLATION DAMPER CLOSE TIMES	3SA02	2.2.4-7	A	
GK	6.4.2.3	3	CONTROL ROOM POSITIVE PRESSURE	3GK01	2.27	A	
GK	6.4.2.4	4	CTRL RM PRESSURE BOUNDARY DOOR LEAKAGE	3GK01	2.27	A	
GK	6.4.4	6	CTRL RM HI RAD & CLORINE DETECTION	3SA02	2.2.7	A	
GK	6.4.6	6	CTRL RM HVAC FAN & DAMPER TESTING	3GK01	8.1	A	
GK	6.4.6	6	CLORINE DETECTN REDUNDANCY & SENSITIVITY	3SA02	7.3.10	A	
GK	6.5-1 TABLE	0	ESF FILTRATION SYSTEM PARAMETERS	3GK01	2.8,2.9	A	
GK	7.3-7 TABLE	0	CRVIS MON SENSITIVITIES & RESPONSE TIMES	3SA02	2.2.7	A	
GK	7.3-8 TABLE	0	CONTROL BLDG ISOLATION DAMPERS	3GK01	8.6,8.7	A	
GK	7.3.4.1	14	CRVIS ON HI RAD OR HI CLORINE	3SA02	2.2.7	A	
GK	7.3.4.1.1	15	CRVIS INITIATION SIGNALS	3SA02	2.2.1-8	A	
GK	8.1.4.3	19	DG MAINTAINS ITS OWN ENVIRONMENT	3GK01	2.25	A	
GK	8.3.2.1	31	125/250 VDC SYS VOLTAGE LIMITS	3NK01	7.1-7.4	A	
GK	8.3.2.1.3	31	BATTERY ROOM VENTILATION	3NK01	7.1-7.4	A	
GK	8.3.2.1.3	31	BATTERY ROOM TEMPERATURE LIMITATIONS	3NK01	7.1-7.4	A	
GK	8.3.2.2.1	34	BATTERY ROOM VENTILATION SYSTEM	3NK01	7.1-7.4	A	
GK	8.3.2.2.1	34	BATTERY ROOM HYDROGEN SURVEY	3NK01	7.1-7.4	A	
GK	9.4-4 TABLE	0	DESIGN DATA	3GK01	2.1-2.9	A	
GK	9.4.1.1.2	3	EXHAUST SYS REMOVES BATTERY H2	3NK01	7.1-7.4	A	
GK	9.4.1.2.3	11	EMERGENCY OPERATION REQUIREMENTS	4KC02/3SA2	2.0/2.0	A	
GK	9.4.1.2.3	12	CONTROL ROOM POSITIVE PRESSURE IN EMG	3GK01	2.27	A	

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SYS	PSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GK	9.4.1.2.3	13	AUTO INITIATION OF CLASS 1E AIR COND SYS	4KC02	2.17,2.22	A	
GK	9.4.1.2.3	13	BATTERY RM PURGE & H2 CONCENTRATION	3NK01	7.1-7.4	A	
GK	9.4.1.5	17	CONTROL ROOM ALARMS	3GK01/SA03	7.16/7.3	A	
GK	0450.01	1	CONTROL ROOM ISOLATION DAMPER SPECS	3GK01	2.27	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GL	7.3.3.1.1	12	FUEL BLDG EMG EXHAUST SYSTEM LOGIC	3GL01	8.18.6A	A	
GL	9.4-8 TABLE	0	DESIGN DATA/FAN FLOWS	3GL01	2.1-2.14	A	
GL	9.4.3.2.3	43	DECON TANK EXHAUST HOODS	3GL01/0005	232,240	A	
GL	9.4.3.2.3	43	MAIN STM TUNNEL EXHAUST SYSTEM	3GF01	7.1	A	
GL	9.4.3.2.3	43	AUX BLDG AIR ISOLATION ON SIS	3GL01	7.1.18,23	A	
GL	9.4.3.2.3	44	EMERGENCY OPERATION	3GL01	2.15	A	

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SYS	FS AR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GM	9.4-14 TABLE	0	DESIGN DATA	3GM01	7.3.1	A	
GM	9.4.7.2.3	81	SUPPLY AIR MAKEUP FOR COMBUSTION AIR	3GM01/0005	7.3.1/8.4A	A	
GM	9.4.7.3	83	COOLING CAPACITY & CONTROL LOGIC	3GM01	7.1-7.4	A	
GM	9.5.8.2.3	3	DG ROOM MINIMUM TEMP DURING DG OPERATION	3GM01	7.4.1	A	

SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GN	6.2.2.2.1.1	16	CTMT COOLING PWR GENERATION DESIGN BASIS	80007.1	2.1,7.14	A	
GN	6.2.2.2.2.3	18	POST-ACCIDENT OPERATION	3GN01	7.2	A	
GN	9.4.6.1.2	64	CRDM SHROUD AMBIENT TEMP LIMITS	U80007.1	7.12	A	
GN	9.4.6.1.2	65	CAVITY COOLING REQUIREMENTS	U80007.1	7.1.6	A	
GN	9.4.6.5	76	INSTRUMENT APPLICATIONS	3GN01	7.0	A	



SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GP	11.2.1.1	1	CTMT ISO VLVS TESTED IAW 10CFR50	8GP01	AP E,8.2,3	A	
GP	3.1.7	35	CTMT DESIGN PRESS LIMIT	3GP02	7.2.2.7	A	
GP	3.8.1.3	7	SIT PRESSURE IS 69 PSIG	3GP02	7.2.2.7	A	
GP	3.8.1.5	10	SIT ACCEPTANCE CRITERIA	3GP02	8.5-8.8	A	
GP	3.8.1.7.1	25	SIT COMPLIANCE WITH REG GUIDE 1.18	3GP02	7.0	A	
GP	3.8.2.2.4	30	ILRT TEST PER 10CFR50 APPENDIX J	3GP01/8GP1	7.0/7.0	A	
GP	3.8.2.3.4	31	SIT TESTING BELOW 100 DEG F	3GP02	5.2	A	
GP	3.8.2.5	35	SIT ACC CRIT--NO PERMANENT DEFORMATIONS	3GP02	2.0	A	
GP	6.2.1-2 TABLE	0	PRINCIPAL CTMT DESIGN PARAMETERS	3GP01/GP02	7.0/7.0	A	
GP	6.2.2.1.1.1	2	CTMT ISOLATION VALVE TESTING	8GP01	8.2,8.3	A	
GP	6.2.2.2.2.3	18	CTMT ILRT TESTING	3GP01	5.12,7.3.7	A	
GP	6.2.6.1	1	CTMT ILRT TYPE A TEST	3GP01	2.0	A	
GP	6.2.6.1.1	1	ILRT PRE-TEST REQUIREMENTS (3 PAGES)	8GP01/3GP1	7.0/6,AP B	A	
GP	6.2.6.1.1	3	FIRST ILRT FOLLOWS THE PREOP SIT	3GP02/GP01	AP C/AP A	A	
GP	6.2.6.1.2	3	ILRT TEST METHOD	3GP01	7.0	A	
GP	6.2.6.2	4	CTMT PENETRATION LEAK RATE TESTS, TYPE B	8GP01	AP E,8.2,3	A	
GP	6.2.6.3	5	CTMT PENETRATION LEAK RATE TESTS, TYPE C	8GP01	E,8.1,2,3	A	
GP	6.2.6.3	6	LLRT TEST EQUIPMENT & PROCEDURES	8GP01	4.5.1,AP B	A	
GP	6.2.6.3	6	LLRT MAX ALLOWABLE LEAKAGE RATE 0.6 L <sub>a</sub>	8GP01	2.1,8.4	A	
GP	8.1.4.3	21	ELECT. PENETRATION GAS LEAKAGE	8GP01	8.3,APP G	A	
GP	8.1.4.3	21	ELECT PEN POST INSTALL LEAK TEST	8GP01	8.3,APP G	A	
GP	9.1.4.2.3	39	FUEL XFER TUBE O-RING SEALS	8GP01	PKG X17	A	
GP	9.2.1.2.1.1	3	EF CTMT ISO VLV TESTING	8GP01	8.3	A	
GP	9.2.2.1.1	11	EG CTMT ISO VALVES ARE TESTED	8GP01	8.3	A	
GP	9.2.7.1.1	33	SA & BL SYS CTMT ISO VALVE TESTING	8GP01	8.3	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GP	9.3.1.1.1	2	KA CTMT ISOLATION VALVE TESTING	8GP01	8.3	A	
GP	9.3.2.1.1	8	SJ CTMT ISOLATION VALVE TESTING	8GP01	8.3	A	
GP	9.3.3.1.1	15	LF CTMT ISOLATION VALVE TESTING	8GP01	8.3	A	
GP	9.3.4.1.1	31	BG SYS CTMT ISO VALVE TESTING	8GP01	8.3	A	
GP	9.4.6.1.1	64	GT SYS CTMT ISOLATION VALVE TESTING	8GP01	8.3	A	
GP	9.4.6.4	76	CTMT PURGE VALVE LEAK RATE TESTING	8GP01	8.3	A	
GP	9.5.1.1.1	1	KC SYS CTMT ISO VALVE TESTING	8GP01	8.3	A	
GP	Q640.11	2	CONTAINMENT AIRLOCK LEAK RATE	8GP01	7.0,8.3	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GS	16.2.12.2	56	H2 MONITOR INITIATION & MEASUREMENTS	3GS01	7.8,7.9	A	
GS	6.2.5-1 TABLE	0	DESIGN DATA FOR CTMT H2 CONTROL SYS	3GS01	2.1	A	
GS	6.2.5.1.1	2	H2 MON SYS PROVIDES READINGS & SAMPLES	3GS01	7.8,7.9	A	
GS	6.2.5.2.2.1	4	H2 RECOMBINER FLOW RATE	3GS01	2.1	A	
GS	6.2.5.2.2.3	5	H2 MONITORING SYS HEAT TRACING	3GS01	7.0	A	
GS	6.2.5.2.4.2	10	CIS-A & H2 SAMPLE VALVE LOGIC	3GS01	2.7	A	
GS	6.2.5.4	14	RECOMBINER TESTING	3GS01	7.6.6	A	
GS	6.2.5.5.4	15	H2 ANALYZER SCALE & ACCURACY	3GS01	7.8.9.9,10	A	
GS	6.2.5.5.4	15	H2 ANALYZER MALFUNCTION ALARMS	3GS01	7.8.7.9	A	
GS	7.3.1.1.1	2	SIS AUTO RUNS H2 MIX FANS AT SLOW SPEED	3GN01	2.1	A	
GS	7.3.1.1.1	2	CIS ISOLATES H2 SAMPLING & PURGE LINES	3GS01	2.3,4,7	A	
GS	7.3.1.1.3	3	H2 FANS AUTO START	3SA03	2.1	A	
GS	7.3.1.2	4	H2 FAN FUNCTION & RESPONSE TIME	3SA01/SA03	8.44/2.1	A	

SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GT	11.5.2.3.2.2	12	CTMT ATMOS HI RAD PURGE ISO (ESF AS)	3SA02	2.0	A	
GT	11.5.2.3.2.3	13	CTMT PURGE HI AIRBORNE ISO (ESF AS)	3SA02	2.0	A	
GT	11.5.2.3.3.1	16	DUAL ALARM LIMITS--ALERT & HIGH	3SP01	8.9	A	
GT	11.5.2.4	17	HI-RAD AUTO SWITCH FROM NORM TO EMG VENT	3SA02	2.0	A	
GT	12.2-11 TABLE	0	CTMT VENTILATION RATE REQUIREMENTS	3GT01	2.1-2.4	A	
GT	15.7.4.5.1.1	11	AUTO ISOLATION OF PURGE & VENT LINES	3GT01	2.7,2.5	A	
GT	15.7.4.5.1.2	13	CTMT PURGE RATE IS 20,000 CFM	3GT01	2.3,2.4	A	
GT	15.7.4.5.1.2	13	CTMT PURGE ISOLATION TIME	3GT01	2.8	A	
GT	6.2.4.2.1	4	MINI-PURGE VALVE CAPACITY & CLOSE TIMES	3GT01	2.1-2.9	A	
GT	6.2.4.2.3	5	CTMT PURGE SYS ISOLATES ON HI RADIATION	3SA03	2.6	A	
GT	6.2.5.2.2.2	5	H2 MIXING FAN AIR DISTRIBUTION REQMT	3GN01	2.7,2.8	A	
GT	7.3.2.1.3	10	CTMT PURGE SYSTEM ISOLATION LOGIC	3SA03	2.6	A	
GT	7.3.4.1.1	15	CRVIS INITIATION SIGNALS	3SA02	7.0	A	
GT	9.4-12 TABLE	0	DESIGN DATA	3GT01	2.1-4,10	A	
GT	9.4.6.1.2	64	SHUTDOWN PURGE SYSTEM OPERATION	3GT01	7.2	A	
GT	9.4.6.2.3	71	SHTDN PURGE SUPPLY AUTO STOP ON LO TEMP	3GT01	7.3.3.2-10	A	
GT	9.4.6.2.3	74	PURGE VALVE ISO ON CPIS	3GT01		A	
GT	9.4.6.2.3	74	PURGE VALVE CLOSE TIMES	3GT01	2.8	A	
GT	9.4.6.5	76	INSTRUMENT APPLICATIONS	3GT01	7.0	A	
GT	WC9.4-12 TABLE	0	DESIGN DATA	3GT01	2.10	A	
GT	9.4.6.2.3	72	CAVITY COOLING CONCRETE TEMP LIMITS	80007	8.15	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
GX	RG-1.137	3	VERIFY UNDERGRND CATHODIC PROT ADEQUACY	4GX01	2.1,8.3	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
HA	11.3.6	9	GRWS COMPRESSOR INTERLOCK TRIPS	3HA01	2.1,5,6	A	
HA	11.3.6	9	GRWS O2 HI CONC ALARMS & ISOLATION	3HA01	7.3,7.5	A	
HA	11.3.6	10	RECOMB H2 CONCENTRATION ALARMS & LOGIC	3HA01	7.3,7.5	A	
HA	11.3.6	10	RECOMB O2 CONC ALARMS & LOGIC	3HA01	7.3,7.5	A	
HA	11.3.6	11	RECOMB HI-TEMP ALARMS & LOGIC	3HA01	7.3,7.5	A	
HA	WC11.3-1 TABLE	0	WASTE GAS COMP DESIGN N2 FLOW	3HA01	2.5	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
HB	11.2-1 TABLE	0	LWPS EQUIPMENT PRINCIPAL DESIGN PARAMS	4HB01	7.0	A	
HB	11.2-2 TABLE	0	CHEM DRAIN TK LEVEL ALARMS	4HC03	2.2,2.3	A	
HB	11.2-2 TABLE	0	WASTE EVAP TK LEVEL ALARMS	4HB01	7.4	A	
HB	11.2-2 TABLE	0	WASTE HOLDUP TK LEVEL ALARMS	4HB01	7.2	A	
HB	11.2-2 TABLE	0	FLOOR DRN TK LEVEL ALARMS	4HB01	7.3	A	
HB	11.2-2 TABLE	0	WASTE MONITOR TK LEVEL ALARMS	4HB01	7.6	A	
HB	11.2-2 TABLE	0	WASTE EVAP TK LEVEL ALARM & CONTROLS	4HB01	7.4	A	
HB	11.2-2 TABLE	0	LAUNDRY & SHWR TK LEVEL ALARMS	4HB01	7.5	A	
HB	11.2-2 TABLE	0	RCDT LEVEL ALARMS	4HB01	7.1	A	
HB	11.2.2.2	6	ONE RCDT PUMP PROVIDES ADEQUATE FLOW	4HB01	7.1	A	
HB	11.2.2.2	6	WASTE EVAP FD PMP AUTO SHUTOFF LO-LEV	4HB01	7.2	A	
HB	11.2.2.3	11	HEAT TRACING FOR RADWASTE SYSTEM	4QJ03	2.1,7.1	A	
HB	11.2.2.3	14	CHEM DRAIN TK PROVIDES A HI-LEVEL ALARM	4HC03	7.1	A	
HB	11.2.6	15	WASTE PROC AND RCDT PUMP INTERLOCKS	4HB01	2.3	A	
HB	11.5.2.2.3.2	10	LIQUID RADWASTE RAD MON AUTO DISCH TERM	4HB01	7.7.11	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
HC	11.2-2 TABLE	0	EVAP BOTTOMS TK LEVEL ALARMS & IND	4HC01	7.3	A	
HC	11.2-2 TABLE	0	SPENT RESIN STORAGE TK LEVEL ALARMS	4HC02	7.4,7.5	A	
HC	11.2-2 TABLE	0	SOLID RADWASTE DECANT TK LEVEL ALARMS	4HC01	7.4	A	
HC	11.4.1.2	1	SOLID WASTE MGMT SYS DESIGN BASES	4HC01	7.1,7.2	A	
HC	11.4.1.2	2	SOLID WASTE MGMT SYS ALARA CRITERIA	4HC01	7.7,7.5	A	
HC	11.4.2.3.1	6	SOLID RADWASTE SOLIDIFICATION AUTO CNTRL	4HC01	7.7	A	
HC	11.4.2.3.1	7	SOLID RADWASTE STATION AUTO FLUSHING	4HC01	7.5	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
HE	11.2-2 TABLE	0	RECYCLE HOLDUP TK LEVEL ALARMS & IND	4HE01	7.1,7.2	A	
HE	11.2-2 TABLE	0	RECYCLE EVAP LEVEL ALARMS & CONTROLS	4HE02	7.2	A	
HE	9.3-13 TABLE	0	COMPONENT DATA SUMMARY	4HE01	2.2,7.1,2	A	
HE	9.3.6.2.2	74	RECYC EVAP FEED PUMP USE FOR DEMIN CLNUP	4HE02	7.2	A	
HE	9.3.6.2.3	77	RECYC HU TK FLOW MONITORING & ALARM	4HE01	7.1,7.2	A	
HE	9.3.6.5	79	RECYC EVAP FD DEMIN TEMP ALRM & AUTO BYP	4HE02	7.2	A	
HE	9.3.6.5	79	RECYC EVP FD DEMIN PRESS ALRM & AUTO BYP	4HE02	7.2	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
JE	Q430.7	1	CONTROL ROOM ALARMS & INDICATIONS	3JE01	7.1-4,8.1	A	
JE	RG-1.108	0	SWITCH DG FUEL OIL SUPPLY	3JE01	7.5	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
KA	9.3-1 TABLE/SH 2	0	ACCUMULATOR OP VALVE TIME PROVIDED	30009	ALL	A	
KA	9.3.1.2.3	5	SVC AIR/COMP AIR ISO ON LOW PRESSURE	4KA01	2.2	A	
KA	9.3.1.5	7	CTRL ROOM INDICATIONS & ALARMS	4KA01	7.2	A	
KA	Q640.0	1	BACKUP AIR SPLY FOR REQ'D VALVE CYCLES	30009	2.1,2.2	A	
KA	WC9.3.1.2.2	3	COMPRESSOR PRESSURE & FLOW RATINGS	4KA01	2.1	A	
KA	WC9.3.1.2.2	3	COMPRESSOR AFTERCOOLER REQUIREMENTS	4KA01	8.1-8.4	A	
KA	WC9.3.1.2.2	3	COMPRESSOR AIR DRIERS	4KA02	ALL	A	
KA	WC9.3.1.2.2	4	ACCUMULATOR CAPACITY REQUIREMENTS	30009	2.1,2.2	A	
KA	WC9.3.1.2.3	5	STBY COMPRESSOR AUTO START ON LO PRESS	4KA01	2.4	A	
KA	WC9.3.1.2.3	4	STBY COMPRESSOR AUTO START ON LO PRESS	4KA01	2.4	A	
KA	WC9.3.1.2.3	4	CMPSR AUTO SHUTDOWN & ALARM ANNUN	4KA01	7.2	A	
KA	WC9.3.1.2.3	4	AIR DRYER/FILTER CAPACITY	4KA02	2.1	A	

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SYS	FEAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
KC	6.4.2.4	4	CTRL RM AIR SYSTEM SMOKE DETECTION	4KC03	8.13	A	
KC	9.4.1.2.3	14	AUTO HVAC ACTION ON HALON RELEASE	4KC02	7.2	A	
KC	9.5.1.1.2	2	LOCAL & CONTROL ROOM ALARMS	4KC01 A/B23	8.0	A	
KC	9.5.1.2.1	5	INADVERTENT VALVE OPENING IS ALARMED	4KC01 A/B23	7.0	A	
KC	9.5.1.2.1	5	CIRCUIT FAILURE IS ALARMED	4KC01 A/B,3	8.0	A	
KC	9.5.1.2.2.1	6	SYSTEM LEAKAGE IS ALARMED	4KC01 A/B,3	8.0	A	
KC	9.5.1.2.2.1	7	DELUGE VALVE TESTING & ALARMS	4KC01 A/B	8.0	A	
KC	9.5.1.2.2.1	8	PREACTION SYSTEM PRESSURE ALARMS	4KC01 A/B	8.0	A	
KC	9.5.1.2.2.1	9	CTMT PULL STATION/STANDPIPE OPERATION	4KC03	8.5	A	
KC	9.5.1.2.2.1	9	MAIN SUPPLY HDR SUPERVISORY SWITCHES	4KC01 A/B23	7.0	A	
KC	9.5.1.2.2.1	10	HALON CYLINDER CHARGE PRESSURES	4KC02	8.2	A	
KC	9.5.1.2.2.1	10	HALON SYSTEM CONTROL PANELS	4KC02	7.2,3,4	A	
KC	9.5.1.2.2.2	11	DETECTION SYSTEM POWER SUPPLIES	4KC03	7.1,7.2	A	
KC	9.5.1.2.2.2	12	CABLE ROUTING & SUPERVISION	4KC03	7.1,7.2	A	
KC	9.5.1.2.2.2	12	ALARM & CONTROL FUNCTION ANNUNCIATION	4KC03	7.2,8.2	A	
KC	9.5.1.2.2.2	13	SYSTEM TEST SWITCHES	4KC03	7.2.1	A	
KC	9.5.1.2.2.2	13	ELECTRICAL SYSTEM FAULT PERFORMANCE	4KC03	7.1,7.2	A	
KC	9.5.1.2.2.2	13	FP CONTROL PANEL AUDIBLE ALARM	4KC01 A/B23	8.0	A	
KC	9.5.1.2.2.2	14	HALON DISCH CONSTRAINT W/ SINGLE FAULT	4KC02	8.2,3,4	A	
KC	9.5.1.2.2.2	14	FIRE ALARM HORNS & LIGHTS	4KC02	7.2	A	
KC	9.5.1.2.3	23	XFRMR DEACTIVATION ON SPRAY DOWN	4KC01 A	7.8,8.8	A	
KC	9.5.1.2.3	23	2-ZONE TRIP REQMT FOR TRANSFORMERS	4KC01 A	8.8	A	
KC	9.5.1.2.3	25	HALON DISCH WARNING & TIME DELAY	4KC02	APP J	A	
KC	9.5.1.2.3	25	REQUIRED HALON CONCENTRATION	4KC02	7.5.1	A	
KC	9.5.1.2.3	26	HALON CYLINDER PRESSURE GAUGES	4KC02	7.5.2	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
KC	9.5.1.2.3	26	FLAME & SMOKE DETECTOR SENSITIVITY	4KC03	8.0	A	

SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
KE	15.7.4.5.1.1	10	FUEL HANDLING EQUIPMENT LIMITS	3KE01/-05	2.0	A	
KE	9.1-5 FIGURE	0	POLAR CRANE HOOK LIMITS	8KE03	2.2-6	A	
KE	9.1-7 FIGURE	0	CASK HANDLING CRANE HOOK LIMITS	3KE03	2.11,2.12	A	
KE	9.1-7 TABLE	0	FUEL HANDLING CRANE DATA	8KE01/3KE5	7.0.C/2.5	A	
KE	9.1-9 FIGURE	0	SFP BRIDGE CRANE HOOK LIMITS	3KE01	2.7.3,4	A	
KE	9.1.4.2.2	28	REFUELING MACHINE INTERLOCKS & SPEEDS	3KE04/KE05	7.2/7.2	A	
KE	9.1.4.2.2	30	REFUELING MACHINE SAFETY FEATURES	3KE05	2.2,7.2	A	
KE	9.1.4.2.2	32	CASK HANDLING CRANE RATINGS&LIMIT SWTCHS	3KE03/8KE2	2.1-3/2.0	A	
KE	9.1.4.2.2	33	SFP BRIDGE CRANE RATINGS & LIMIT SWITCHES	3KE01/8KE1	2.7-9/2.0	A	
KE	9.1.4.2.2	34	CTMT POLAR CRANE DESIGN FEATURES	3KE05/8KE3	7.9,10/2.0	A	
KE	9.1.4.2.2	35	FUEL XFER CAR OPERATION & INTERLOCKS	3KE04	2.1,2.5	A	
KE	9.1.4.2.2	37	NEW FUEL ELEVATOR	3KE02	2.1-2.3	A	
KE	9.1.4.2.2	37	SPENT FUEL ASSY HANDLING TOOL TESTING	3KE01	2.8,7.4	A	
KE	9.1.4.2.2	38	NEW FUEL ASSY HANDLING TOOL TESTING	3KE03	7.9,7.10	A	
KE	9.1.4.3	47	FUEL XFER SYS INTERLOCKS/LIMIT SWITCHES	3KE01/-5	2.0	A	
KE	9.1.4.3	48	CASK HANDLING CRANE INTERLOCKS/SWITCHES	3KE03	2.2,2.3	A	
KE	9.1.4.4	61	LIFTING DEVICE LOAD TESTING	8KE01/2/3	2.1/2.1/7	A	
KE	9.1.4.4	61	LIFTING DEVICE LOAD TESTING	3KE04/KE05	2.4/2.5,9	A	
KE	RG-1.13	2	FUEL BRIDGE CRANE INTERLOCKS	3KE01	2.7	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
KJ	7.3.1.1.1	2	LOP COINCIDENT W/ SIS STARTS H2 MIX FANS	3NF02	7.1,7.2	A	
KJ	9.5.4-1 TABLE	0	COMPONENT DATA	3JE01	2.3	A	
KJ	9.5.4.2.3	4	DAY TANK LEVEL CONTROL	3JE01	7.1,7.2	A	
KJ	9.5.4.2.3	4	FIRE SIGNAL/TRANSFER PUMP INTERLOCK	3JE01	7.1,7.2	A	
KJ	9.5.4.4	6	TRANSFER PUMP TESTING	3JE01	7.1,7.2	A	
KJ	9.5.4.5	7	STORAGE & DAY TANK LEVEL ALARMS	3JE01	7.1-7.4	A	
KJ	9.5.4.5	7	LOW FUEL OIL PRESSURE ALARM	3KJ01	2.4	A	
KJ	9.5.5.2.1	2	ELECTRIC COOLING PUMP OPERATION IN STBY	3NE01	7.5.1,10	A	
KJ	9.5.5.2.1	2	COOLING WATER EXPANSION TANK	3KJ01	7.1.1.1,2	A	
KJ	9.5.5.2.3	4	COOLING WATER TEMPERATURE ALARMS	3KJ01	7.1.1	A	
KJ	9.5.5.3	6	JACKET WATER KEEPWARM SYSTEM	3KJ01	7.1.1	A	
KJ	9.5.6.1.1	1	COMPONENTS CAN BE ISOLATED IF REQUIRED	3KJ01	APP C&D	A	
KJ	9.5.6.1.1	2	EDESS CAPACITY REQUIREMENT	3KJ01	2.5	A	
KJ	9.5.6.2.1	2	ENGINE WILL START ON ONE OR BOTH BANKS	3KJ01	7.1,7.2	A	
KJ	9.5.6.2.2	2	COMPRESSOR CAPACITY & CONTROLS	3KJ01	2.7	A	
KJ	9.5.6.2.2	3	AFTERCOOLER ISOLATION	3KJ01	7.1.10	A	
KJ	9.5.6.2.3	4	STARTING AIR SYS AUTO OPERATION	3KJ01	7.1.8,2	A	
KJ	9.5.6.2.3	4	BARRING GEAR INTERLOCK	3KJ01	7.1,7.2	A	
KJ	9.5.7.2.1	2	DG OIL KEEPWARM SYSTEM FUNCTIONS	3NE01	7.5,7.10	A	
KJ	9.5.7.2.2	5	ENGINE SUMP OIL AUTO MAKEUP	3KJ01	7.1.2,7.2	A	
KJ	9.5.7.2.3	6	OIL SUMP LEVEL INSTRUMENTATION	3KJ01	7.1,7.2	A	
KJ	Q430.21	1	CONDITIONS ALARMED BY "DIESEL TROUBLE"	3KJ01	7.1.1,5-7	A	
KJ	Q430.27	1	LOW LUBE OIL LEVEL ALARM	3KJ01	7.1.2	A	
KJ	Q430.29	1	LUBE OIL SYSTEM ALARMS & CONTROL LOGIC	3KJ01	7.1.2-7	A	
KJ	RG-1.9	2	DG DIFFERENTIAL TRIP WORKS	3KJ01	7.1,7.2	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
KJ	RG-1.9	2	DG OVERSPEED TRIP WORKS	3KJ01	7.1,7.2	A	

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SYS	FEAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
LE	9.3.3.2.1.2	21	RAD MONITORING OF DISCHARGES	4LE01	7.4.4.7	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
LF	11.2-2 TABLE	0	EQPT DRAIN SUMPS LEVEL ALARMS	4LF01	7.8,10.3	A	
LF	6.2.1.1.1	11	CTMT SUMP LEVEL ALARMS	4LF01	7.9.3.8.3	A	
LF	9.3.3.2.1.1	17	SUMP PUMP RUN TIMES ARE MONITORED BY PC	4LF02	8.2	A	
LF	9.3.3.2.1.1	17	CTMT COOLER STANDPIPE LEAK DETECTION	3BB15B	2.1,7.1	A	
LF	9.3.3.2.1.1	19	AUX BLDG AUTO ISOLATION ON HI RAD	4LF01	7.15.2,3	A	
LF	9.3.3.2.1.1	19	CIS-A/SUMP PUMP DISCH VALVE LOGIC	4LF01	7.9.2.6-14	A	
LF	9.3.3.2.3	25	PUMP ACTUATION LOGIC & ALARM FUNCTIONS	4LF01	8.1,8.2	A	
LF	9.3.3.2.3	25	CTMT & AUX BLDG ISO VALVE CTRL LOGIC	4LF01	7.15,7.9.2	A	
LF	9.3.3.2.3	25	CTMT LEAK DETECTION VIA STANDPIPES/PC	3EC02/BB15	7.6,2.4/2.	A	
LF	9.3.3.5	27	RHR PMP RM/AUX BLDG LEAK DETECTION	4LF01/BB15	8.2/2.0	A	
LF	9.3.3.5	28	SUMP LEVEL INDICATIONS & ALARMS	4LF01	APP C	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
NB	7.3.1.1.1	2	LOP COINCIDENT W/ SIS STARTS H2 MIX FANS	3GN01	2.1,2,7,8	A	
NB	8.1.4.3	4	INTERLOCKS PREVENT PARALLEL STBY PWR	3NB01	7.1,7.2	A	
NB	8.1.4.3	6	1E LOADS ACCEPT DESIGN VOLTAGE & FREQ RN	3NB01	7.1,7.2	A	
NB	8.1.4.3	6	CTRL RM CIRCUIT BKRS FOR 1E 4.16KV BUS'S	3NB01	7.1,7.2	A	
NB	8.1.4.3	8	1E SUPPLY BKRS UNDERVOLTAGE TRIP	3NB01	7.1,7.2	A	
NB	8.1.4.3	8	1E PWR SYSTEM FUNCTIONAL TEST	3NF01	2.2,2.6	A	
NB	8.1.4.3	8	VERIFY NO INTERCONNECTION OF LOAD GPS	3NF02	7.1,7.2	A	
NB	8.3.1.1.2	3	INTERLOCKS PREVENT PARALLEL STBY PWR	3NB01	7.1,7.2	A	
NB	8.3.1.1.2	5	BUS VOLTAGE & UV INST IN CONTROL RM	3NB01	7.1,7.2	A	
NB	8.3.1.1.2	5	ELECTRICAL CIRCUIT PROTECTION SYSTEMS	3NB01	7.1,7.2	A	
NB	8.3.1.1.2	5	BUS OVERCURRENT & GROUND PROTECTION	3NB01	7.1,7.2	A	
NB	8.3.1.1.2	6	4.16KV & 480V UNDERVOLTAGE RELAYS	3NB01	7.1,7.2	A	
NB	8.3.1.1.2	6	TRANSFORMER DIFFERENTIAL RELAYS	3NB01	7.1.1,7.2	A	
NB	8.3.1.1.2	3	MANUAL XFER OF 1E LOAD GROUPS OK	3NB01	7.1,7.2	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
NE	11.5-5 TABLE	0	RAD MON PWR RESTORED AFTER L O P	3NF02	7.1,2,7.2	A	
NE	6.3.2.5	14	DG'S EACH SUPPLY 1 ECCS TRAIN	3NE01/NF02	7.1,6/2.0	A	
NE	9.5.6.2.3	4	DG START, ACCELERATION & ALARM REQMTS	3KJ01	7.1,7.2	A	
NE	RG-1.108	3	DG'S MUST START 35 CONSECUTIVE TIMES	3NE01	2.7	A	
NE	RG-1.9	3	DG RECOVERY DOESN'T CAUSE OVERSPEED TRIP	3NE01	2.6.2	A	
NE	RG-1.9	2	DG LOADING FRFQ & VOLTAGE REQUIREMENTS	3NE01	2.5.1	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
NF	15.2.6.1	10	DG START ON LOSS OF VOLTAGE	3KJ01	2.3	A	
NF	18.2.7.2	28	AUTO LOAD SEQUENCE OF AFWS PMPs & VLVS	3NF02	7.2,7.1	A	
NF	18.2.9.2	32	PZR HTR AUTO LOAD SHED ON SIS	3NF03	7.1.1	A	
NF	18.2.9.3	33	PZR BKUP HTR PWR INTERRUPT ON SIS OR UV	3NF03/NF02	7.1,3/7.1	A	
NF	6.2.1.1.1	3	DG START TIME REQUIREMENTS	3NF02	2.1,2,6,7	A	
NF	6.2.2.1.2.2	4	CTMT SPRAY PUMP MOTORS	3NF02	7.1,7.2	A	
NF	6.3.2.5	18	LOSS OF OFFSITE PWR LOAD SEQUENCER TIMES	3NF02	2.2,2.7	A	
NF	7.3.8.2	44	SIS OVERRIDE DURING LOCA SEQUENCER TEST	3NF01	7.9.26	A	
NF	8.1.4.3	4	EXCLUSIVE CONNECTION OF DG TO 1 LOAD GP	3NF02	2.2,2.7	A	
NF	8.1.4.3	5	DG START & LOAD SEQUENCING	3NE01/NF03	2.6/2.2.4	A	
NF	8.1.4.3	5	DG MAINTAINS FREQ & VOLTAGE AT START	3NE01	2.5.1,2	A	
NF	8.1.4.3	5	DG HANDLES STEP CHANGES IN LOAD	3NE01/NF02	2.5/7.1,2	A	
NF	8.1.4.3	6	DG LOCAL CONTROLS ARE PROVIDED	3NE01/KJ01	7.1-9/7.0	A	
NF	8.1.4.3	8	ESFAS LOAD SEQUENCING	3NF02	7.1,7.2	A	
NF	8.1.4.3	20	DG AUTO RESET ON LOSS OFFSITE PWR	3NF02/NF03	2.0/7.0	A	
NF	8.1.4.3	20	DG AUTO/MANUAL CONTROL FUNCTIONS	3NE01/KJ01	ALL	A	
NF	8.1.4.3	20	DG METERING IN CONTROL ROOM	3NE01/KJ01	7.0/7.1,2	A	
NF	8.1.4.3	21	DG TESTED IAW IEEE 387	3NE01/KJ01	ALL	A	
NF	8.1.4.3	4	1 OPER ERROR WON'T    STBY PWR SOURCES	3NB01	7.1,7.2	A	
NF	8.3.1.1.2	4	LOCA LOAD SEQUENCING OPTIONS	3NF02	7.1,7.2	A	
NF	8.3.1.1.3	8	DG ELECTRICAL ISO FROM EACH OTHER	3NF02	2.2,2.7	A	
NF	8.3.1.1.3	8	DG STARTING INITIATING CIRCUITS	3NE01/KJ01	7.2-8/7.0	A	
NF	8.3.1.1.3	9	DG PROTECTIVE TRIPPING DEVICES & SIS	3NE01/KJ01	2.11,13/2.	A	
NF	8.3.1.1.3	9	DG STARTUP TEST TRIP FEATURES	3KJ01	7.1.6,7.2	A	
NF	8.3.1.1.3	9	DG UNDERFREQUENCY PROTECTION	3NE01	2.11,2.13	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
NF	8.3.1.1.3	10	DG ALARMS PRIOR TO TRIP	3KJ01/NE01	7.0/7.0	A	
NF	8.3.1.1.3	10	DG ELECTRICAL INTERLOCKS	3NE01	7.1,2,6,7	A	
NF	8.3.1.1.3	10	DG STARTING PERMISSIVES	3NE01	7.2,7.7	A	
NF	8.3.1.1.3	11	AUTO LOAD SHED/DG START LOGIC	3NF03	7.1,7.3	A	
NF	8.3.1.1.3	13	DG STARTUP TESTING REQUIREMENTS	3NE01/NF03	7.5,10/7.0	A	
NF	8.3.1.1.3	14	DG I&C REQUIREMENTS	3NE01/KJ01	7.0/7.1,2	A	
NF	8.3.1.1.3	15	DG LOCAL & CONTROL ROOM ALARMS	3KJ01/NF12	ALL	A	
NF	8.3.1.1.3	17	DG/ESFAS INSTRUMENTATION REQMTS	3NE01/F123	ALL	A	
NF	8.3.1.1.3	10	DG ELECTRICAL INTERLOCKS	3NB01	7.1,7.2	A	
NF	8.3.1.1.3	10	DG ELECTRICAL INTERLOCKS	3NF02	2.2,2.7	A	
NF	8.3.1.1.8	19	1E MOTOR MINIMUM ACCELERATING VLTG	3NF03	7.2,7.4	A	
NF	8.3.1.1.8	20	1E MOTOR STARTING TORQUE	3NF03	7.2,7.4	A	
NF	8.3.1.1.8	20	1E MOTOR/PUMP TORQUE MARGIN	3NF03	7.2,7.4	A	
NF	9.1.3.2.3.1	20	FP COOLING PUMP SWITCH TO STBY PWR SYS	3NF02	7.1,7.2	A	
NF	9.2.1.2.5	9	REDUND CLASS 1E PWR FOR ESWS	3NF02	2.2,8,2.7	A	
NF	9.2.2.2.3	15	CCW PUMP LOGIC ON LOSS OF OFFSITE PWR	3NF02	2.1.3.2	A	
NF	9.5.5.2.3	4	DIESEL OPERATION PRIOR TO ESW START	3NF02	2.1.3.2	A	
NF	9.5.7.2.3	6	DG CRANKCASE PRESS ALARM/AUTO SHUTDOWN	3KJ01	2.4	A	
NF	9.5.7.2.3	7	DG OIL SYS LEAK WILL CAUSE AUTO SHUTDOWN	3KJ01	2.4	A	
NF	Q420.2	1	EQPMT STAYS IN EMG MODE AFTER ESF RESET	3SA03	2.0	A	
NF	RG-1.108	3	SYNCH & TRANSFER DG W/ OFFSITE POWER	3NF02	7.2,7.1	A	
NF	RG-1.68	21	EXTRAP TO ACC COND (LAKE & AIR TEMPS)	3NF02	7.2.3.31.1	A	
NF	RG-1.68	9	EXTRAP TO ACC COND (LAKE & AIR TEMPS)	3NF02	7.1.3.31.1	A	
NF	RG-1.9	3	DG FREQ & VOLT RQMTS FOR LD SEQ TIME INT	3NF02	2.2.5	A	
NF	WC9.2.1.2.3	5	ESW PUMP SEQUENCING ON SIS	3NF02	2.1,2.6	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
NK	8.1.4.2.1	3	BATTERY CAPACITY WITHOUT CHARGERS	3NK01	7.2.2.9,10	A	
NK	8.3.2.1	31	125/250 VDC SYS VOLTAGE LIMITS	3NK01	7.1,7.2	A	
NK	8.3.2.1.2	31	CLASS 1E BATTERY CHARGER CAPACITY	3NK01	2.3,2.4	A	
NK	8.3.2.1.3	31	BATTERY ROOM VENTILATION	3NK01	7.1-7.4	A	
NK	8.3.2.1.3	31	BATTERY ROOM TEMPERATURE LIMITATIONS	3NK01	8.0	A	
NK	8.3.2.2.1	32	REG GUIDE 1.32 SPECI REQMT FOR IEEE TEST	3NK01	2.3,2.4	A	
NK	8.3.2.2.1	32	BATTERY SERVICE TEST OF IEEE 450-1975	3NK01	7.2.2.9,10	A	
NK	8.3.2.2.1	34	MAX. TEMP DIFFERENCE BET BATTERY CELLS	3NK01	8.1-8.11	A	
NK	8.3.2.2.1	35	BATTERY CAPACITY AFTER LOSS OF CHARGER	3NK01	2.2.1,6	A	
NK	8.3.2.2.1	35	BATTERY CHARGER CAPACITY	3NK01	2.3,2.4	A	
NK	8.3.2.2.1	35	DC SUBSYS INST & ALARM REQUIREMENTS	3NK01	7.1,7.4	A	
NK	8.3.2.2.1	36	BACKFEED PREVENTION	3NK01	7.1-7.5	A	
NK	8.3.2.2.1	34	BATTERY ROOM VENTILATION SYSTEM	3NK01	7.1-7.4	A	
NK	8.3.2.2.1	34	BATTERY ROOM HYDROGEN SURVEY	3NK01	APP AB	A	
NK	8.3.2.2.1	33	PREOP OF REDUND ONSITE 125 VDC SYSTEMS	3NK01	7.0	A	
NK	Q640.22	1	BATTERY DISCH & CHARGER CAPACITY TEST	3NK01	7.1-7.5	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
NN	8.3.1.1.5	18	INVERTER XFER TO BACKUP SOURCE	3NN01	2.2-2.5	A	
NN	Q420.1	1	VITAL CLASS 1E INSTRUMENT AC POWER	3NN01	7.0	A	
NN	Q420.1	2	CONTROL ROOM ALARMS	3NN01	7.0	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
PA	8.3.1.1.1	1	13.8KV BUS AUTO TRANSFER	4PA01	7.1,7.2	A	
PA	8.3.1.1.1	2	13.8KV BUS XFER 30-SEC DELAY	4AC01	7.2.47	A	
PA	WC8.3.1.1	1	CIRC WTR SCREENHOUSE SWGR SYSTEM	4PA01	7.1	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
PB	8.3.1.1.1	2	PB03/PB04 AUTO XFER TO ALT SOURCE	4PB01	2.2	A	
PB	8.3.1.1.2	6	TRANSFORMER DIFFERENTIAL RELAYS	4PB01	2.3	A	
PB	8.3.1.1.3	12	OPTIMIZATION OF SAFETY-REL BUS VOLTAGE	4PB01	2.5	A	
PB	WC8.2.1.3	5	REDUNDANT 13.8 KV SUPPLIES	4PB01	2.7	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
PJ	Q640.22	1	BATTERY DISCH & CHARGER CAPACITY TEST	4PJ01	7.0	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
PK	18.2.9.3	33	125 VDC BTRY CHG AUTO TRIP ON SIS OR UV	4PK01/02	2.4/2.5	A	
PK	9.5.1.2.2.2	11	BATTERY CAPACITY REQUIREMENTS	4PK01/02	2.1/2.2	A	
PK	9.5.1.2.2.2	12	BATTERY CHARGER & CHGR FAILURE RATINGS	4PK01/02	2.3	A	
PK	Q420.1	2	CONTROL ROOM ALARMS	4PK02	7.1.3,7.2	A	
PK	Q640.22	1	BATTERY DISCH & CHARGER CAPACITY TEST	4PK01/02	2.2,2.3	A	
PK	WC8.3.1.1	2	M/U WTR SCREENHOUSE BTRY & CHARGER	4PK01	2.8	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
PQ	7.2.2.2.3	28	SSPS GENERAL WARNING ALARM TRIPS	5PQ01	7.5	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
QD	9.5.1.2.2.5	21	EMG LIGHTING SYSTEM DESIGN	4QD01	2.2,2.5	A	
QD	9.5.3.2.3	2	LIGHTING IN AREAS REQD FOR SAFE SHUTDOWN	4QD01	2.2.2	A	
QD	9.5.3.2.3	2	LIGHTING UNIT AUTO XFER TO BATTERY PWR	4QD01	2.1,2.4	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
QF	9.5.2.3	3	BACKGROUND NOISE LEVEL EVALUATION	4QF01	2.1	A	
QF	9.5.2.4	7	COMMUNICATIONS SYSTEM TESTING	4QF01	ALL	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
RJ	6.2.1.1.1	11	BOP COMPUTER CTMT SPRAY ALARMS	8RJ01	7.0	A	
RJ	7.7.1.3.3	10	PLANT COMP ALARM FOR ROD DEVIATION	8RJ01	7.0	A	
RJ	Q640.11	5	PROCESS COMPUTERS	8RJ02	7.0	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
RM	9.3.2.2.3	12	SAMPLE TEMPERATURE CONDITIONING	4RM01	7.1.5,7.8	A	
RM	9.3.2.3	12	CIS ISOLATION OF PSS LINES ENTERING CTMT	4BM01	8.1-8.3	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SA	15.1.4.1	10	REDUNDANT ISO OF MAIN FEED ON SIS	3SA03	2.2,8.2	A	
SA	15.1.4.1	10	MSIV TRIP CONDITIONS	3SA01/SA03	2.1/2.11	A	
SA	15.1.5.1	14	SAFETY INJECTION ACTUATION CONDITIONS	3SA01	2.0	A	
SA	18.2.11.1	36	CTMT ISO SYSTEM DESIGN CRITERIA	3SA02	7.2,2.1	A	
SA	18.2.11.3	38	CTMT ISO RESET DOES NOT UNISOLATE CTMT	3SA03	7.1,7.3	A	
SA	18.2.11.3	38	CIS-A INITIATION SIGNALS REQUIRED	3SA02	2.1.1-5	A	
SA	18.2.11.3	38	SLIS INITIATION SIGNALS REQUIRED	3SA01/SA03	2.1-5/2.11	A	
SA	18.2.11.3	39	CIS-B INITIATION SIGNALS & LOGIC REQ'D	3SA01/SA03	2.6/2.9	A	
SA	18.2.11.3	39	CPIS INITIATION SIGNALS & LOGIC REQ'D	3SA01/SA03	2.3/2.5	A	
SA	18.2.7.2	29	NO LOSS OF MANUAL AFW'S ACT ON AUTO FAIL	3SA02	2.4.5,7.2	A	
SA	3.1.5	16	ESFAS DESIGN & LOGIC FUNCTIONS	3SA03/SA01	2.1/2.2.5	A	
SA	3.1.5	18	RCP UF/UV TRIPS MANUALLY OR ON SIS	3BB01/SA03	7.3/7.1.15	A	
SA	3.1.5	19	ESFAS ACTUATION FAILURE MODES	3SA03/SA01	2.4-7/2.7	A	
SA	6.2.4.5	8	CTMT ISO VLV REPOSITION LIMITS IN CIS	3SA03	2.0	A	
SA	6.3.2.1	3	ECCS ACTIONS INITIATED ON SIS	3SA03	7.1.15,8.1	A	
SA	6.3.2.2	12	SIS COMPONENT POSITION DISPLAYS/ALARMS	3SA03/8SA1	2.1/7.0	A	
SA	6.3.3	30	SIS ALWAYS OVERRIDES ALL OTHER SIGNALS	3SA03/eta1	ALL	A	
SA	6.3.3	22	SIS ACTUATION & ACTIONS	3SA03	7.1.15,8.1	A	
SA	6.3.3	23	SIS SEQUENCING W/ NO LOSS OF OFFSITE PWR	3SA03	7.1.15,8.1	A	
SA	6.3.5.5	36	VALVE POSITION INDICATION	3SA03/8SA1	7.0/7.0	A	
SA	7.1.2.5.2	11	CHNL BYPASS IS EXCLUSIVE & ALARMED	3SA01	7.1,7.2	A	
SA	7.1.2.5.2	13	FCV RELAY & SOLENOID TESTING	3SA01	7.3	A	
SA	7.1.2.6.2	16	PRIMARY & AUX RESPONSE TIME TESTING	3SA01/SA02	3.7	A	
SA	7.2.1.1.2	10	REACTOR TRIP ON SIS	3SA01	2.11	A	
SA	7.3.1.1.1	2	SIS AUTO RUNS H2 MIX FANS AT SLOW SPEED	3SA03	2.1	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SA	7.3.1.1.1	2	LOP COINCIDENT W/ SIS STARTS H2 MIX FANS	3NF02	8.3A,8.12A	A	
SA	7.3.1.1.3	3	H2 FANS AUTO START ON CIS	3SA01	2.4.1,2	A	
SA	7.3.2.1.1	8	ACTUATION SIGNALS MUST BE MANUALLY RESET	3SA03	2.0	A	
SA	7.3.3.1	11	FUEL BLDG ISOLATION ON HI RADIATION	3GG01/SA02	2.1-4/7.1	A	
SA	7.3.4.1.1	15	CRVIS INITIATION SIGNALS	3SA02	2.2	A	
SA	7.3.6.1.1	19	AFAS INITIATION SIGNALS	3SA02	2.4	A	
SA	7.3.6.1.1	19	AFAS INITIATION SIGNALS	3SA03	7.2.10-12	A	
SA	7.3.8.1.1	29	SIS INITIATION LOGIC	3SA01	2.3,2.4	A	
SA	7.3.8.1.1	30	FUNCTIONS RELYING ON ESFAS FOR INITIATN	3SA01/SA03	2.0/2.0	A	
SA	7.3.8.1.1	31	ESFAS FINAL ACTUATION CIRCUITRY	3SA03	2.0	A	
SA	7.3.8.1.2.6	35	ESFAS SYSTEM PERFORMANCE TIME REQMTS	3SA01	2.0	A	
SA	7.3.8.2	44	AUTO OVERRIDE OF TEST MODE & EXCEPTIONS	3NF01	7.9.26	A	
SA	7.3.8.2	42	AFW, CCW AND SW ARE INITIATED BY SIS	3SA03	7.1.15,8.1	A	
SA	7.3.8.2	43	MASTER RELAY SELECTOR SW REQUIREMENTS	3SA01	7.1,7.2	A	
SA	7.3.8.2	44	AUTO OVERRIDE OF TEST MODE & EXCEPTIONS	3NF01	7.5.26	A	
SA	7.3.8.2	45	CONTINUITY TEST CIRCUITS PROVING LIGHTS	3SA01	7.3,7.4	A	
SA	7.3.8.3.2	53	STEAM LINE BREAK PROTECTION & TIMING	3SA01	2.2.1,8.25	A	
SA	7.3.15 TABLE	0	ESFAS NSSS INTERLOCKS	3SA01/SA02	2.13/7.2	A	
SA	7.5.2.2.1	4	ESFAS BYPASSES ARE ANNUNCIATED ON MCB	3SA01	7.1.2,7.2	A	
SA	7.5.2.2.1	5	ESFAS EQPMT IS MONITORED BY STATUS LITES	3SA03/8SA1	7.1-4/7.0	A	
SA	7.5.2.2.1	5	ESFAS BYPASS INITIATES AUDIBLE ALARM	8SA01	7.0	A	
SA	7.5.2.2.1	5	BYPASS INDICATIONS CAN'T BE REMOVED	3SA03	2.0	A	
SA	9.2.7.2.3	37	BL CTMT ISO VALVE AUTO CLOSE ON CIS-A	3SA01	7.1.15,8.4	A	
SA	Q640.11	5	ANNUNCIATORS FOR REACTOR CNTRL & ESF	3SA01	7.0	A	
SA	RG-1.62	1	NO LOSS OF MAN. ACT ON LOSS OF AUTO. ACT	3SA03	ALL	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SA	WC9.4.2.2.1	20	HIRAD AUTO TRANSFER TO EMERGENCY HVAC	3SA02/SA03	2.11/2.3.1	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SB	15.0-4 TABLE	0	TRIP TIME DELAYS ASSUMED IN ANALYSES	3SB01	2.1	A	
SB	15.1.2.1	3	SG HI-HI LEVEL TRIP FUNCTION	3SB01	2.11,8.12	A	
SB	3.1.5	22	RPS PWR LOSS TRIPS THE REACTOR	3SB01	7.33	A	
SB	4.4.4.3.2	31	AUTO REDUCE TRIP STPT ON AXIAL PWR IMB	3SB01	7.28,7.29	A	
SB	7.2-1 TABLE	0	REACTOR TRIPS	3SB01	ALL	A	
SB	7.2-2 TABLE	0	PROTECTION SYSTEM INTERLOCKS	3SB01	ALL	A	
SB	7.2.1.1	2	REACT TRIP BKRS MUST BE MANUALLY RESET	3SB01	7.1	A	
SB	7.2.1.1.1	2	REACTOR TRIP INITIATES TURBINE TRIP	3SB01/4AC2	7.1/7.2	A	
SB	7.2.1.1.2	2	REACT TRIP CIRCUITS AUTO OPEN TRIP BKRS	3SB01	ALL	A	
SB	7.2.1.1.2	3	PWR RNG HI FLUX TRIP	3SB01	7.8,7.9	A	
SB	7.2.1.1.2	3	INTER RNG HI FLUX TRIP	3SB01	7.4,7.5	A	
SB	7.2.1.1.2	3	SOURCE RNG HI FLUX TRIP	3SB01	7.2,7.3	A	
SB	7.2.1.1.2	4	PWR RNG HI POSITIVE RATE TRIP	3SB01	7.8,7.9	A	
SB	7.2.1.1.2	4	PWR RNG HI NEGATIVE RATE TRIP	3SB01	7.8,7.9	A	
SB	7.2.1.1.2	4	CORE THERMAL OVERPWR TRIP	3SB01	7.26-7.29	A	
SB	7.2.1.1.2	4	CORE OVERTEMP DELTA T TRIP	3SB01	7.28,7.29	A	
SB	7.2.1.1.2	6	CORE OVERPWR DELTA T TRIP	3SB01	7.26,7.27	A	
SB	7.2.1.1.2	9	REACTOR TRIP ON TURBINE TRIP	3SB01	7.30,7.31	A	
SB	7.2.1.1.2	10	MANUAL REACTOR TRIP	3SB01	2.3	A	
SB	7.2.1.1.2	10	REACTOR TRIP ON SIS	3SA01	2.11	A	
SB	7.2.1.1.2C.1	7	PZR LOW PRESSURE TRIP	3SB01	7.12,7.13	A	
SB	7.2.1.1.2C.2	7	PZR HIGH PRESSURE TRIP	3SB01	7.10,7.11	A	
SB	7.2.1.1.2C.3	7	PZR HIGH WATER LEVEL TRIP	3SB01	7.14,7.15	A	
SB	7.2.1.1.2D.1	8	LOW RC FLOW TRIP	3SB01	7.20,7.21	A	
SB	7.2.1.1.2D.2	8	RC PUMP UNDERVOLTAGE TRIP	3SB01	7.16,7.17	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SB	7.2.1.1.2D.3	8	RC PUMP UNDERFREQUENCY TRIP	3SB01	7.18,7.19	A	
SB	7.2.1.1.2E	9	SG LOW-LOW WATER LEVEL TRIP	3SB01	7.22,7.23	A	
SB	7.2.1.1.2F	9	REACTOR TRIP ON TURBINE TRIP	3SB01	7.30,7.31	A	
SB	7.2.1.1.3	10	POWER ESCALATION PERMISSIVES	3SB01	2.4,2.5	A	
SB	7.2.1.1.3	11	P-7 & P-8 INTERLOCK TRIP BLOCKS	3SB01	2.7,2.9	A	
SB	7.2.1.1.3	12	P-9 INTERLOCK TRIP BLOCK	3SB01	8.15,16	A	
SB	7.2.2.2.3	27	CHECK OF INPUT RELAYS	3SB01	ALL	A	
SB	7.2.2.2.3	28	CHECK OF LOGIC MATRICES	3SB01	ALL	A	
SB	7.2.2.2.3	28	SSPS GENERAL WARNING ALARM TRIPS	3SB01	7.1,7.34	A	
SB	7.2.2.2.3	29	REACT TRIP BKR & BYPASS BKR TESTING	3SB01	7.1	A	
SB	7.2.2.2.3	29	CLOSING BOTH BYPASS BKRS CAUSES TRIP	3SB01	7.1.17-20	A	
SB	7.2.2.2.3	29	BYPASS OF A PROT TRAIN CAUSES AN ALARM	3SB01	7.1	A	
SB	7.2.2.2.3	29	PERMISSIVE P-4 INTERLOCK TEST	3SB01	7.1.39-50	A	
SB	7.2.2.2.3	31	REACTOR TRIP, CHANNEL TRIP ALARMS	3SB01	ALL	A	
SB	7.2.2.2.3	29	ALL RTB'S TRIP	3SB01	7.1.4-12	A	
SB	RG-1.62	1	MANUAL RX TRIP AT SYSTEM LEVEL	3SB01	7.1	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SC	7.2.2.3.1	32	FLUX CHANNEL DEVIATION ALARMS	3SB01	7.26-7.29	A	



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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SD	12.3.4.1.2.10	24	ARMS INDICATIONS & ALARM INDICATIONS	4SD01	7.1.5-12	A	
SD	12.3.4.1.2.2	21	ARMS INST ENERGY DEP/RESPONSE TIME	4SD01	7.1,8.3,B	A	
SD	12.3.4.1.2.3	22	ARMS ALARMS & SETPOINTS	4SD01	7.1.3-12	A	
SD	12.3.4.1.2.7	23	ARM INST SENSITIVE TO 0.1 MREM/HR	4SD01	7.1,7.2	A	
SD	12.3.4.1.2.9	24	ARMS INSTRUMENT SETPOINTS & BASES	4SD01	7.1.5-12	A	
SD	9.1.1.5	5	RADIATION MONITOR REQUIREMENTS	4SD01	7.1.6,11	A	
SD	9.1.2.3	12	RAD MONITOR AUDIBLE ALARM	4SD01	7.1.11	A	
SD	9.1.2.5	13	RAD MONITOR HI-HI ALARM LIMIT	4SD01	7.1.11	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SE	15.4.6.2	23	FLUX DOUBLING ALARM	8SE01	2.1.3	A	
SE	7.2.1.1.3	10	POWER ESCALATION PERMISSIVES	8SE01	2.1.5,10	A	
SE	7.2.1.1.6	13	PWR RNG CHNL OVERPWR RECORDING	8SE01	2.3	A	
SE	Q640.0	2	POST INSTALLATION CHECK	8SE01	7.0	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SF	7.7.1.3.2	7	DRPIS UNITS PROVIDE CTRL BD DISPLAYS	8SF02	7.6	A	
SF	7.7.1.3.2	8	DRPIS CAN FUNCTION WITH ONLY 1 CHANNEL	8SF02	7.2	A	
SF	7.7.1.3.4	11	ROD DEVIATION ALARMS	8SF02	7.4,5,8.1	A	
SF	7.7.1.3.5	11	ROD BOTTOM ALARMS	8SF02	7.3	A	

SYS	FEAR SECTION	PO	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SV	1.5.2.2.2	7	SG BLOWDOWN HI-RAD ISOLATION	4BM01	2.9	A	
SJ	1.12.3.2	17	IN-LINE RCS SAMPLING CAPABILITY	3SJ01	2.3	A	
SV	7.3.1.1.1	2	CIS ISOLATES H2 SAMPLING & PURGE LINES	3OS01	2.3,4,6,7	A	
SJ	7.3.6.1.1	20	SG BLOWDOWN & SAMPLE ISO AFAS LOGIC	4BM01	2.6,2.7	A	
SV	9.3.2.2.1	10	SAMPLE RACK REDUCTION OF TEMPERATURES	3SJ01	2.4	A	
SJ	9.3.2.2.1	11	BLOWDOWN SAMPLE LINE ISO ON HI RAD	4BM01	2.6,2.7	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SP	11.5-1 TABLE	0	LIQUID PROCESS RAD MON ALARMS & FUNCTION	3SP01	7.2,8.5	A	
SP	11.5-3 TABLE	0	AIRBORNE RAD MONS ALARMS, FLOWS & FNCTS	3SP01	8.8,8.12	A	
SP	11.5-4 TABLE	0	AIRBORNE RAD MONS ALARMS & FUNCTIONS	3SP01	7.3,8.8	A	
SP	11.5.1.2	2	RAD MONS ALARM & TERMINATE RELEASES	3SP01	8.5	A	
SP	11.5.1.2	2	RAD MONS ALARM & TERMINATE FLUID XFERS	3SP01	8.5	A	
SP	11.5.1.2	2	RAD MONS PROVIDE INDIC OF FAILED FUEL	3SP01	8.5	A	
SP	11.5.1.2	2	RAD MONS PROVIDE DATA FOR REG GUIDE RPTS	3SP01	7.1.1,7.7	A	
SP	11.5.2.1.1	3	RAD MON AUTO DATA COLLECTION & PRINTOUT	3SP01	7.1.1,7.7	A	
SP	11.5.2.1.2	3	RAD MON 3-LEVEL ALARM SYSTEM	3SP01	7.2	A	
SP	11.5.2.1.5	4	RAD MON CALIBRATION DATA RECORDS	3SP01	8.1,8.2	A	
SP	11.5.2.2.2.5	8	BORON RECYCLE RAD MON AUTO DIVERT	3SP01	7.2	A	
SP	12.3-3 TABLE	0	AIMS SENSITIVITIES & ALARM SETPTS ETC.	3SP01	8.8,8.12	A	
SP	12.3.4.2.2.1.4	29	AIMS SAMPLE PUMP FAILURE ALARMS & CNTRL	3SP01	7.3,6,8.8	A	
SP	7.3.3.1	11	FUEL BLDG ISOLATION ON HI RADIATION	3GG01	7.4.7,8	A	
SP	7.3.4.1	14	CRVIS ON HI RAD OR HI CLORINE	3GK01	7.17	A	
SP	7.3.4.1.1	15	CRVIS INITIATION SIGNALS	3GK01	7.17	A	
SP	9.3.6.2.1	73	HI RAD TRIPS 3-WAY DIVERT VALVE	3SP01	7.2	A	
SP	VC9.2.1.1.6	3	SWS HI RAD ALARMS IN CONTROL ROOM	3SP01	2.11,7.2.7	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SQ	4.4.6.4	45	CHANNEL AUDIO OUTPUTS RECORDED IN HFT	4SQ02	2.1.1,7.5	A	
SQ	4.4.6.4	45	LPMS ALARMS ON 0.5 FT-LBS, 3 FT FM SENSR	4SQ02	2.1	A	
SQ	4.4.6.4	45	LPMS AUTO RECORDING & MICROPROCESSING	4SQ02	7.4,7.5	A	
SQ	4.4.6.4	45	AUD & VISUAL ALRMS AT LPMS CONSOLE IN CR	4SQ02	7.3,7.4	A	
SQ	4.4.6.4	45	SPURIOUS ALRMS PREVENTED BY ALRM DISABLE	4SQ02	2.1.2	A	
SQ	4.4.6.4	45	LP'S DETECTION AT A FREQ OF *25 KHZ	4SQ02	7.4,7.5	A	

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SYS	FSAR SECTION	PG	TESTING REQUIREMENT	PROCEDURE	SECTION(S)	C	NOTE
SU	3.9(B).2.1	4	STEADY-ST VIBRATION & DYN EFFECTS TESTS	30005/ME12	ALL	A	
SU	3.9(B).2.1	6	THERMAL EXPANSION TESTING	30004	ALL	A	
SU	3.9(B).3.4.2.1	17	HOT & COLD POSITIONS OF SNUBBERS	30004	2.2,2.3	A	
SU	3A APPENDIX	29	GENERIC LOSS OF INST AIR TESTING REQ'MT	80013/eta1	ALL	A	
SU	6.2.4-1 FIGURE	0	CTMT PEN VLV STROKE TIMES & FAIL MODES	35A03/8013	ALL	A	
SU	6.2.4.1.1	2	CTMT ISOLATION VALVES DESIGN CRITERIA	80013/eta1	ALL	A	
SU	9.3-2 TABLE	0	SAFETY-RELATED PNEU OP VLV FAILURE MODES	80013	ALL	A	
SU	9.4 TABLES 4-12	0	HVAC SYSTEM FAN DATA	80005	ALL	A	
SU	9.4.4.4	56	GE SYSTEM HEPA FILTER TESTING	30006	7.3	A	*
SU	9.4.5.4	61	GH SYSTEM HEPA FILTER TESTING	30006	7.4	A	*
SU	9.4.6.1.2	65	PZR SKIRT AREA < 120 °F	80007.2	7.0	A	**
SU	9.4.6.4	75	GT SYSTEM HEPA FILTER TESTING	30006	7.5,7.6	A	
SU	Q640.29	2	EVACUATION ALARM AUDIBILITY TEST & LOG	80007.1	2.2	A	
SU	RG-1.52	4	DUCT & HOUSING LEAK TESTS (HVAC)	6ME09	ALL	A	
SU	RG-1.68.2	3	RC TEMP IS LOWERED FOR RHR FM OUTSIDE CR	30008	2.1	A	
SU	RG-1.68.2	3	RC TEMP LOWRD 50 DEG F ON RHR FM OTSD CR	30008	2.2	A	
SU	RG-1.68.2	2	PREREQS FOR REMOTE SHUTDOWN DEMONSTRATN	30008	5.0,6.0	A	
SU	RG-1.79	2	RHR PUMP SUCTION DEMO (EMG RECIRC MODE)	80006	ALL	A	
SU	WC9.4.1.4	15	GK SYSTEM HEPA FILTER TESTING	30006	7.7,8,9	A	*
SU	WC9.4.2.4	28	GG SYSTEM HEPA FILTER TESTING	30006	7.2	A	*
SU	WC9.4.3.3	47	GL SYSTEM HEPA FILTER TESTING	30006	7.1	A	*

\* HEPA filter testing performed in SU30006 and discussed in FSAR Section 9.4 complies with the test guidelines in NRC Reg. Guide 1.52, Rev 2, 1978.

\*\* Change approval in process

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10.2.3.5	11	AC	OTHER PRESERVICE INSPECTION TESTING	X	7
10.4.7.2.2	26	AE	MFIV'S - GENERAL OPERATION REQUIREMENTS	X	8
10.4.7.2.2	26	AE	MFCV'S & BYPASS VLVS - GENERAL REQMTS	X	8
10.4.8.1.2	35	BM	SG BLOWDOWN SYSTEM CAPACITY	X	1
10.4.9.2.1	48	AL	CST RCS COOLDOWN CAPACITY REQUIREMENTS	X	1,4
11.2-2 TABLE	0	BG	VCT LEVEL ALARMS & INDICATION	X	8
11.2.2.2	7	HB	RCDT MAINTAINS A CONSTANT LEVEL	X	1
11.2.2.3	11	HB	BLDG TEMP RESTRICTIONS ON EVAP TRANSFER	X	1
11.3-3 TABLE	0	HA	GASEOUS WASTE PROC INST DESIGN PARAMS	X	6
11.3.2.2	0	HA	NO STEM LEAKAGE FROM RECOMB GLOBE VLVS	X	7
11.5.2.1.5	4	SP	RAD MONITOR POST-REFUELING CALIBRATION	X	6
11.5.2.1.6	4	SP	EFFLUENT MONITOR SENSITIVITIES	X	3
11.5.2.1.8	5	SP	PROCESS MONITOR HI ALARM SETPOINTS	X	4
12.2-11 TABLE	0	GG	FUEL BLDG VENTILATION RATE REQUIREMENTS	X	4
12.2.2	6	GE	TURBINE BLDG AIRBORNE & EXHAUST CAPACITY	X	8
12.2.2	6	GG	AIRBORNE RADIOACTIVITY CONCENTRATIONS	X	4
12.3-2 TABLE	0	SD	ARM RANGES & ALARM LIMITS	X	1
12.3.4.2.1.2	26	SD	AIRBORNE MONS WILL DETECT 10 MPC-HRS	X	1
12.3.4.2.2.1.1	26	SD	AIMS DATA COLLECT NO SINGLE FAULT FAILUR	X	1,7
12.3.4.2.2.1.1	27	SD	AIMS DATA RECORD & DISPLAY REQUIREMENTS	X	1,7
12.3.4.2.2.1.2.4	28	SD	AIRBORNE MON SENSITIVITY & ALARM SETPTS	X	1,4
12.3.4.2.2.1.8	30	SD	AIRMS SENSITIVE TO 10 MPC-HRS OR MORE	X	1
12.3.4.2.2.1.9	31	SD	SETPTS LIMIT EXPOSURE PER 10CFR20&TS LIM	X	4
15.4.6.2	23	BL	UNBORATED WATER FLOW RESTRICTION	X	1,4
15.4.6.2	23	BG	AUTO ACTION ON FLUX DOUBLING ALARM	X	8



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FSAR SECTION	PG	SYS	TESTING REQUIREMENT	C	NOTE
18.2.1.1	3	BB	RC VENT VLVS TESTED IAW ASME SEC XI	X	6
18.2.12.2	55	EM	LP SI AUTO SWITCHOVER TO RECIRC MODE	X	8
18.2.12.2	55	SA	CTMT PRESSURE RESPONSE TIME	X	2
18.2.17.6.2	75	BB	PORV PID CONTROLLER LOGIC	X	5,6
18.2.9.3	33	PK	NON-1E 125 VDC GROUP 5 & 6 CROSSTIE	X	1
3.1.4	11	BB	RCS SAFETY&RELIEF VLV CRITERIA & SETPTS	X	4,7
3.1.5	19	SB	PROT SYS SEPARATE FROM CNTRL SYSTEMS	X	1
3.1.5	19	SB	ADEQUACY OF SYSTEM ISOLATION IS VERIFIED	X	1
3.1.5	19	SB	RPS PREVENTS EXCEEDING OF FUEL DESIGN LM	X	1
3.1.5	21	SC	REACTIVITY CNTRL SYS LIMITS RATE OF INCR	X	1
3.1.5	22	BB	CORE COOLING CAPABILITY IS ASSURED	X	1,4
3.1.6	28	EM	INITIAL SYS HYDRO & FLOW TEST REQMTS	X	4,8
3.1.6	29	GN	SYSTEMS CAN MAINTAIN CTMT PRESS IN LMTS	X	8
3.1.6	30	GN	NO SINGLE FAILURE OF CTMT COOLING SYSTMS	X	1
3.1.7	37	GP	CTMT ISOLATION VALVE OP TESTING	X	6
3.5.1.3.2	6	AC	TURBINE STOP & INTERCEPT VALVE DESIGN	X	1
3.9(B)-15 TABLE	0	SU	VIB MEAS FOR NON NSSS PUMPS	X	7,3
3.9(B)-16 TABLE	0	SU	ACTIVE VALVES (VIBRATION TESTING)	X	7,3
3A APPENDIX	28	EJ	VORTEX CNTRL & PRESSURE DROP TESTING	X	3
4.4.3.5	27	SB	LOAD FOLLOWING W/ 1 RCP OUT OF SERVICE	X	6
5.4.1.2.2	3	BB	RCP MOTOR AIR COOLER EFFICIENCY	X	1
6.2.1-3 TABLE	0	EG	ESFAS CCW SYS DESIGN PARAMETERS	X	1
6.2.1-3 TABLE	0	EN	ESFAS CTMT SPRAY SYS DESIGN PARAMETERS	X	1
6.2.1.1.1	5	GP	DESIGN EXTERNAL PRESS LOAD ON CONTAINMT	X	1,4
6.2.1.1.1	9	EN	ESFAS PREVENTS INADVERTENT CTMT SPRAY	X	1

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6.2.1.1.1	13	EP	ACCUMULATOR N2 RELEASE RATE	X	4
6.2.1.1.3	9	SA	ESFAS PREVENTS INADVERTENT CTMT SPRAY	X	8
6.2.2.1.2.2	4	EN	CTMT SPRAY HDR WITHSTANDS WTR HAMMER	X	1,4
6.2.2.1.3	9	EN	SPRAY FLOW STARTS WITHIN 60 SECONDS	X	1,4
6.2.2.1.3	11	EN	CSP NPSH EXCEEDS REQ'D NPSH BY 10 %	X	4
6.2.2.2.1.1	16	GN	CTMT COOLING SAFETY DESIGN BASIS	X	1
6.2.2.2.2.2	17	GN	CTMT COOLING FUSIBLE LINK PLATE DESIGN	X	1,7
6.2.2.2.2.3	19	GN	CTMT COOLING AIR DISCH THROW	X	1
6.2.5.1.1	2	GS	HCS MAINTAINS CTMT H2 < 4.0 VOLUME %	X	1,4
6.2.5.2.4.2	10	GS	H2 ANALYZER CAN SAMPLE 30 MIN AFTER SIS	X	1
6.2.5.3	11	GS	HEATER FAIL DOES NOT REDUCE RECOMB EFF	X	1
6.2.5.4	14	GS	PERIODIC TESTING OF H2 GAS ANALYZER	X	6
6.2.6.3	5	GP	CLOSED SYSTEM PERIODIC TYPE A TESTS	X	6
6.2.6.4	7	GP	PREOP TEST REPORT REQUIREMENTS	X	5
6.3.2.2	5	EM	INJECTION MODE FLOW RATES	X	1
6.3.2.2	5	EM	PUMP FLOW RATES	X	4
6.3.2.2	5	EM	ECCS INJECTION MODE OPERATION	X	1,2
6.3.2.2	5	BN	RWST XFER ALLOWANCE FOR ECCS SWITCHOVER	X	8
6.3.2.2	7	BG	CCP SUCTION & DISCH DESIGN FEATURES	X	8,2
6.3.2.8	19	EJ	AUTO CHANGEOVER FROM INJ TO RECIRC MODE	X	3,8
6.3.2.8	19	EM	AUTO CHANGEOVER FROM INJ TO RECIRC MODE	X	8
6.3.4.1.2	31	EP	ACCUMULATOR CHECK VALVE TESTING	X	6
6.3.5.2	34	BG	BIT PRESSURE INDICATION & ALARM	X	7
6.3.5.3	35	BG	BIT RECIRC FLOW INDICATION & ALARM	X	7
6.5.2.2.2	6	GL	AUX BLDG TEMP MAINTAINED > 60 DEG F	X	6

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FSAR SECTION	PG	SYS	TESTING REQUIREMENT	C	NOTE
7.2.1.2.4	16	SB	REACTOR TRIP SYS OPERATIONAL LIMITS	X	1,4
7.2.2.3.2	33	BB	OVERPRESSURE PROT VALVE DESIGN REQMT	X	4,7
7.3.8.2	39	SA	ESFAS SYSTEM TESTING REQUIREMENTS (3 PGS)	X	6
7.3.8.2	51	SU	LOSS OF AIR/CCW WON'T EXCEED SAFETY LMTS	X	1,4
7.3.8.2	51	SU	ALL PNEU VLVS&CNTRLS FAIL TO SAFE COND	X	1
7.3.8.3.2	53	AL	STEAM LINE BREAK PROTECTION & TIMING	X	8
7.6.4	4	EP	ACCUMULATOR VLV CLOSED TIME LIMITS	X	5,6
7.7-1 TABLE	0	SF	PLANT CONTROL SYSTEM INTERLOCKS	X	6
7.7-2 TABLE	0	BG	BORON CONC MEAS SYS SPECIFICATIONS	X	1,2
7.7.1	1	SF	RX CNTRL SYS LOAD CHG/TEMP/PRESS CNTRL	X	6
7.7.1	2	SF	RX CNTRL SYS ALARM INDICATIONS	X	6
7.7.1	2	SF	RX CONTROL SYSTEM INTERLOCKS	X	6
7.7.1.3.3	8	SF	ROD INSERTION LIMIT ALARMS	X	6
8.1.4.3	4	NB	NO AUTO XFER OF LOADS	X	1
8.1.4.3	4	NF	NO AUTO PARALLEL OF DG'S/LD GPS	X	1
8.1.4.3	6	PB	1E LOADS ACCEPT DESIGN VOLTAGE & FREQ RN	X	1,4
8.1.4.3	13	PN	NON-1E INST AC DOES NOT TRIP ON SIS	X	1
8.1.4.3	19	NF	DG STARTS & LOADS ITS COOLING EQPMT	X	8
8.1.4.3	20	NF	DG VIBRATION & OVERSPEED	X	1
8.3.1.1.1	2	NB	NB01/NB02 MANUAL XFER TO ALT SOURCE	X	1
8.3.1.1.2	3	NB	NO AUTO XFER OF 1E LOAD GROUPS	X	1
8.3.1.1.2	4	NB	NO PERMISSIVES ON SAFETY-RELATED MTRS	X	1
8.3.1.1.2	5	NG	ELECTRICAL CIRCUIT PROTECTION SYSTEMS	X	1
8.3.1.1.2	5	NG	BUS OVERCURRENT & GROUND PROTECTION	X	1
8.3.1.1.2	6	NG	480V CIRCUIT BKR OVERCURRENT TRIPS	X	1

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8.3.1.1.2	6	NG	480V MCC OVERCURRENT RELAYS	X	1
8.3.1.1.2	6	NG	4.16KV & 480V UNDERVOLTAGE RELAYS	X	1
8.3.1.1.2	6	NG	TRANSFORMER DIFFERENTIAL RELAYS	X	1
8.3.1.1.2	6	PA	3500 HP MOTOR DIFFERENTIAL PROTECTION	X	1
8.3.1.1.2	7	NB	ESFAS CIRCUIT BKR/CONTACTOR OPERATION	X	6
8.3.1.1.2	7	NG	ESFAS CIRCUIT BKR/CONTACTOR OPERATION	X	6
8.3.1.1.6	18	PN	NONVITAL INST AC AUTO XFER TO DG PWR	X	1
8.3.1.1.8	20	NB	TEMP MONITORING FOR LARGE 1E MOTORS	X	1
8.3.2.1.2	31	NK	CLASS 1E BATTERY CAPACITY	X	1
8.3.2.2.1	32	NK	NO LOAD XFER BETWN 125VDC SUBSYSTEMS	X	1
8.3.2.2.1	35	NK	CLASS 1E DC DISTRIBUTION CAPACITY	X	1
8.3.2.2.1	37	NK	BATTERY CAPACITY FACTORY TESTING	X	7
8.3.2.2.1	38	NK	BATTERY SURVEILLANCE REQUIREMENTS	X	6
8.3.2.2.1	38	NK	BATTERY RATING REQUIREMENTS	X	1
8.3.2.2.1	38	NK	INSPECTION DATA & RECORDS REQUIREMENTS	X	5
9.1-4 FIGURE	0	KE	CTMT POLAR CRANE SPECS	X	1
9.1-6 FIGURE	0	KE	CASK HANDLING CRANE SPECS	X	1
9.1-8 FIGURE	0	KE	SFP BRIDGE CRANE SPECS	X	1
9.2.2.2.2	13	EG	VALVES TO RHR HX FAIL AS IS	X	1
9.2.2.2.3	13	EG	CCW HX MAINTAINS TEMP AT 60 DEG F	X	1
9.2.4.2.1	24	KD	RAD AREA HDR BACKFLOW PREVENTER	X	1
9.2.4.2.2	24	KD	HOT WATER SUPPLY TEMP CONTROL	X	7,1
9.2.4.2.2	24	KD	SUPPLY PRESSURE CONTROL	X	7,1
9.3-8 TABLE	0	BG	CVCS SYSTEM DESIGN PARAMETERS	X	2
9.3.1.1.2	2	KA	8-HR AIR SUPPLY FOR MFCV'S	X	8

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9.3.3.2.2	23	LF	CTRL RM TRAP CAN BE TESTED & FILLED	X	7
9.3.4.1.1	31	BG	CCP'S FUNCTION AS PART OF ECCS ON SIS	X	8
9.3.4.1.2	32	BG	CVCS CAN MAINTAIN RCS O2 & PH IN LIMITS	X	6
9.3.4.2.2	44	BG	REDUND CCP'S PWR'D FROM SEPARATE SOURCES	X	5,1
9.3.4.2.2	52	SF	ROD SHUTDOWN LIM STPT ALRM FOR EMG BORATION	X	6
9.3.6.2.1	73	HE	EVAPORATOR BORON CONCENTRATION	X	6
9.4-4 TABLE	0	GL	DESIGN DATA	X	8
9.4.1.1.2	3	GK	CNTRL BLDG FRESH AIR VENTILATION RATE	X	1
9.4.1.2.3	13	GK	H2 CONC LIMITS DURING CNTRL BLDG ISO	X	1
9.4.1.2.3	13	GK	BATTERY ROOM AMBIENT TEMPERATURES	X	2
9.4.3.1.2	32	GL	MAIN STEAM TUNNEL TEMP LIMITS	X	1,6
9.4.3.1.2	32	GL	AUX BLDG TEMPERATURE LIMITS	X	1,6
9.4.4.2.3	55	GE	EHC CABINET ROOM TEMP LIMITS	X	1,7
9.4.8.3	90	GD	ESW PUMPHOUSE COOLING CAPACITY	X	1
9.5.1.2.1	3	LF	ADEQUATE DRAINAGE IS PROVIDED	X	1,5
9.5.1.2.1	4	KC	HEAT & SMOKE VENT AUTO ACTUATION	X	1
9.5.1.2.2.2	11	KC	ACU RELAY MODULE OPERATION	X	1,2
9.5.2.2.1	2	QF	EVAC ALARM IS DISCERNIBLE FROM FIRE ALRM	X	1,5
9.5.4.2.2	3	KJ	STORAGE TANK CAPACITY REQUIREMENTS	X	1
9.5.4.2.2	3	KJ	FUEL OIL TRANSFER PUMP CAPACITY	X	1
9.5.4.2.2	3	KJ	DAY TANK CAPACITY REQUIREMENTS	X	1
9.5.4.2.2	4	KJ	DAY TANK LEVEL SETTINGS	X	1
9.5.5.2.1	3	KJ	COOLING WATER EXPANSION TK CAPACITY	X	1
9.5.5.2.3	4	KJ	COOLING WATER HEAT EXCHANGER OPERATION	X	1
9.5.5.2.3	5	LF	DG SUMP LEVEL IS MONITORED	X	5



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9.5.5.5	6	KJ	EXPANSION TANK MAKEUP IS LOGGED	X	5
9.5.6.2.1	2	KJ	OTHER FUNCTIONS OF STARTING AIR SYS	X	1
9.5.6.2.2	3	KJ	STARTING AIR DRYERS	X	1
9.5.7.2.3	6	KJ	OIL SUMP LEVEL CONTROL	X	1
9.5.9.2.2	2	FB	REBOILER RATED CAPACITY	X	1
Q280	1	SU	REMOVAL OF STARTUP STRAINERS	X	5
Q430.38	2	KJ	EXHAUST SYSTEM PRESSURE DROP	X	1
Q492.31	1	BB	RCP FLOW/DP TEST DATA	X	4,6
WC11.2.2.3	9	HB	RCDT H2 COVER GAS MAINTAINS CNST PRESS	X	8
WC11.2.2.3	10	HB	DRAINING OF RCS BY USE OF RCDT PUMPS	X	1
WC11.3-1 TABLE	0	HA	WASTE GAS COMP OPERATING TEMP RANGE	X	1
WC11.3-1 TABLE	0	HA	RECOMBINERS DESIGN FLOW & PRESSURE	X	1
WC15.0-4 TABLE	0	SB	ASSUMED TRIP POINTS & TIME DELAYS	X	4,8
WC15.0-5 TABLE	0	SB	DETERMINATION OF MAX OVERPWR TRIP POINT	X	4
WC8.2.1.1	1	MR	KG&E VOLTAGE & FREQ RANGE LIMITS	X	1
WC8.2.1.2	3	MR	MAIN BKR CONTROL & INDICATIONS	X	1
WC8.2.1.3	5	MR	345 KV BREAKER REQUIREMENTS	X	1,6
WC8.2.1.3	5	MR	ISOLATION OF TRANSMISSION LINES	X	1
WC8.2.1.3	5	PB	ISO BETWEEN SWYD & PWR BLK BATTERIES	X	1
WC8.2.1.3	5	PA	REDUNDANT 13.8 KV SUPPLIES	X	1
WC8.2.1.3	5	PK	ISO BETWEEN SWYD & PWR BLK BATTERIES	X	1
WC8.2.1.3	8	MR	KG&E/WCGS INTERFACE REQUIREMENTS	X	1,4
WC8.3.1.1	2	MR	ONSITE AUX PWR/NORMAL PWR INTERLOCKS	X	1
WC9.2.4.1.2	11	LA	SANITARY WTR SYS CAPACITY & STANDARDS	X	1,5
WC9.2.4.3	12	LA	SEWAGE TREATMENT PLANT CAPACITY	X	1