

005 - Chapter 14 - Question 4 - Supporting Information

Basis for revising, modifying or deleting the following preoperational and power ascension tests, FSAR Tables 14.2-1 and 14.2-2, of Amendment 97.

Table 14.2-1 PREOPERATIONAL TESTS SUMMARIES

FSAR Sheet No.	Title	Change	Justification
4, 5	Essential Raw Cooling Water	Deleted tests of ERCW pumps, traveling screens, backwash strainers and screen wash pumps.	Equipment turned over to U1. Ref: Drawing 1-47W845-1
7, 8	Component Cooling water	Changed auto-start of "redundant" CCS pump to "2B-B" CCS pump.	Ref: System Description N3-70-4002 3.3.1, Drawings 45W760-70-1, 2-45W760-70-1, and Note 5 on 1-45W600-57-23A (CSS Pump 2B-B Low Pressure Auto Start Signal is disconnected in 2B1-B SWGR for Appendix R interaction). The auto-start signal will be reconnected per DCN 53413.
		Deleted Hydraulic performance test of CSS Pumps and operation of the Seal Leakage Return Pumps.	CSS and Seal Leakage pumps turned over to U1. Ref: Drawing 1-47W859-1
11	Post Accident Sampling	Deleted Test Method 3 "Verify liquid sample panel and CASP carts/casks are operational".	Carts/casks only used with PASF. PASF is being abandoned by EDCR 53920. Ref: Drawing 2-47W610-43-8 and 9.
12	Liquid Waste Drains, Collection and Transfer System	Deleted Test Method 4 "Verify ECCS room passive sump and alarm actuation."	Equipment turned over to U1. Ref: Drawing 1-47W852-1
13, 14	Fire Protection	Deleted Test Method 2 and Acceptance Criteria 1.	Equipment turned over to U1. Ref: Drawing 1-47W832-2
		Changed scope of Test Method 4 from Plant to "Unit 2 annulus and reactor building".	Identifies required test scope (all else is Unit 1 or turned over to Unit 1).
		Deleted Test Method 7 and Acceptance Criteria 4.	Equipment turned over to U1. Ref: Drawing 1-47W850-10

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		Deleted Test Method 8.	Equipment turned over to U1. Ref: Drawings 1-47W843-1 and 2
18, 19	Chemical and Volume Control	Deleted "pumps and" from Test Method 6.	Equipment turned over to U1. Ref: Drawing 1-47W809-5
		Deleted Test Method 9.	Equipment turned over to U1. Ref: Drawing 1-47W809-5
		Deleted "batched, stored and" from Acceptance Criteria 4.	Equipment turned over to U1. Ref: Drawing 1-47W809-5
20	Flood Mode Boration System	Deleted "alarms and interlocks" from Test Method 1.	Equipment turned over to U1. Ref: Drawings 1-47W809-7 and 2-45W760-84-1
		Deleted Test Method 6.	Equipment turned over to U1. Ref: Drawing 1-47W809-7
		Deleted "and booster pumps" from Acceptance Criteria 1.	Equipment turned over to U1. Ref: Drawing 1-47W809-7
21	Boron Recycle System	Deleted entire Sheet.	Ref: EDCR-53580, DCN 53387 and Drawings 47W809-3, 4, 5 and 6. Note: Gas stripper pumps and associated piping for draining HUTs to WDS are transferred to Unit 1.
28	Liquid Waste Processing	Deleted "including the waste holdup tanks" from Test Method 1.	Equipment turned over to U1. Ref: Drawing 1-47W809-3
		Deleted Test Method 4 "To demonstrate that the system filters and strainers are capable of passing the required flow rate within the design pressure drop."	Equipment turned over to U1. Ref: Drawings 1-47W830-1, 2, 3 & 4
30	Gaseous Waste Processing	Deleted "including filling and isolation of the gas decay tanks, and waste gas compressor performance" from Test Method 1.	Equipment turned over to U1. Ref: Drawing 1-47W830-4
		Deleted Acceptance Criteria 1.	Equipment turned over to U1. Ref: Drawing 1-47W830-4

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34, 35	Control Building Ventilation	Deleted entire Sheet.	Equipment turned over to U1. Ref: Drawing 1-47W866-4
36, 37	Auxiliary Building Ventilation	Deleted water chillers, circulating pumps and HEPA/charcoal filters from Objective.	Equipment turned over to U1. Ref: Drawing 1-47W866-2, 3, 8, 10 & 11
		Deleted Post Accident Sampling Facility (PASF) - environmental control system (PASFECS) from Objective.	To be deleted by EDCR 54923
		Identified specific air handling units in Objectives.	Clarification
		Deleted "ventilation supply and", "water chillers, circulating pumps, refrigerant condensing units", and HEPA and charcoal filters" from Test Method 1.	Equipment turned over to U1. Ref: Drawing 1-47W866-2, 3, 8, 10 & 11
		Deleted Test Methods 2, 4 and 5	Equipment turned over to U1. Ref: Drawing 1-47W866-2, 3, 8, 10 & 11
		Deleted Acceptance Criteria 1, 2, 4, 5, 6 and 7.	Equipment turned over to U1. Ref: Drawing 1-47W866-2, 3, 8, 10 & 11
40	Combustible Gas Control System	Deleted "Hydrogen recombiners including the heaters, controllers, fans and instrumentation" from Sheet 40.	Equipment abandoned in place per EDCR 52329
41, 42	Secondary Containment Ventilation System	Deleted "The auxiliary building gas treatment system (ABGTS) provides a similar contamination control capability in the ABSCE" in Objective.	Equipment turned over to U1. Ref: Drawing 1-47W866-10
		Added "shield" building conditions to Objective.	Scope clarification
		Added "annulus vacuum control subsystem" in Test Method 1.	Added to differentiate between Annulus Vacuum Control Subsystem and the EGTS Air Cleanup Units of Test Method 2

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			Replaced Test Method 2 with "verify capability of the emergency gas treatment system air cleanup units to maintain the correct annulus pressure at design flow".	Equipment turned over to U1. Ref: Drawing 1-47W866-1
			Deleted Test Methods 3 and 7.	Equipment turned over to U1. Ref: Drawings 1-47W866-1 & 10
			Deleted Test Methods 4 and 8.	Equipment turned over to U1. Ref: Drawing 1-47W866-10
			Added "EGTS" for clarification to Test Method 9.	Scope clarification
			Deleted Acceptance Criteria 2.	Equipment turned over to U1. Ref: Drawing 1-47W866-10
			Deleted entire Sheet.	Equipment turned over to U1. Ref: Drawing 1-47W866-9
43	Diesel Generator Building Ventilation System		Changed Objective to specify "Unit 2" diesel generator units and delete "(four standby diesels).	Equipment turned over to U1. Ref: Drawing 1-15E500-2
44, 45, 46	Diesel Generators		Deleted Test Methods 1 -5 and 9 -13.	Equipment turned over to U1. Ref: Drawing 1-15E500-2
			Deleted Acceptance Criteria 1 - 5 and 8.	Equipment turned over to U1. Ref: Drawing 1-15E500-2
48, 49	AC Power Distribution		Deleted Test Method 5.	Equipment tested in PTI-262-01
			Deleted Acceptance Criteria 2	Equipment tested in PTI-262-01
50, 51	DC Power System		Deleted entire Sheet.	Equipment turned over to U1. Ref: Drawing 1-45W700-1
52, 53	120V AC Power System Test		Deleted entire Sheet.	Equipment turned over to U1. Ref: Drawing 1-45W700-1
54	Integrated Computer System		Computer system name changed from "P2500" to "ICS".	P2500 system changed to ICS per EDCR 52322
58	Rod control System		Note following Acceptance Criteria deleted.	Coil current was verified as part of EDCR 52325. Note is no longer applicable.

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66	Steam Generator Blowdown	Deleted "and pumps" from Test Method 4. Added "including isolation features" for clarification to Acceptance Criteria 1.	Pumps to be abandoned per EDCR 53462
68, 69	Condensate and Condenser Vacuum	Deleted "condensate pumps and condensate transfer pumps" from Test Method 1.	Equipment turned over to U1. Ref: Drawing 1-47W804-1
		Deleted Test Method 3, "Demonstrate the operation of the condensate transfer pumps including head and flow characteristics".	Equipment turned over to U1. Ref: Drawing 1-47W804-1
		Deleted "and condensate transfer pump" from Acceptance Criteria 1.	Equipment turned over to U1. Ref: Drawing 1-47W804-1
70	Condenser Circulating Water System	Clarified Prerequisite 2.	Clarification
71, 72	Auxiliary Feedwater	Deleted "Flow restrictors" from Acceptance Criteria 3 for clarification.	Clarification
74, 75	Fuel Handling Equipment	Deleted "test weights" and "manipulator crane and spent fuel bridge crane" and added "fuel handling equipment" to Prerequisite 2.	Equipment turned over to U1. Ref: Drawing 1-45W743-2
		Deleted "spent fuel pit bridge and electric hoist, new fuel elevator" from Test Method 1.	Equipment turned over to U1. Ref: Drawing 1-45W743-2
		Deleted "on the Manipulator Crane and the Spent Fuel Pit Bridge Crane" from Test Method 6.	Equipment turned over to U1. Ref: Drawing 1-45W743-2

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		Deleted Acceptance Criteria 5, Spent Fuel Pit Bridge crane controls and interlocks.	Equipment turned over to U1. Ref: Drawing 1-45W743-2
		Deleted "and the Spent Fuel Pit Bridge Crane" from Acceptance Criteria 5.	Equipment turned over to U1. Ref: Drawing 1-45W743-2
76	Reactor Coolant System Cold Hydrostatic Test	Replaced "the reciprocating charging pump is operational" with "a positive displacement pump is available" in Prerequisite 1.	Equipment abandoned per EDCR 53421
78	Integrated Hot Functional Tests	Test Method 3 deleted.	Equipment was replaced by EDCR 52321 (WINCISE)
81	Containment Local Leak Rate Tests	Added "Option B" of Appendix J of 10 CFR Part 50 to Test Methods and Acceptance Criteria.	This Local Leak Rate test option was selected by TVA. Option B is now used by Unit 1. The Option does not change the preoperational test.
82	Containment Integrated Leak Rate Test	Added "Option B" of Appendix J of 10 CFR Part 50 to Test Methods and Acceptance Criteria.	This Local Leak Rate test option was selected by TVA. Option B is now used by Unit 1. The Option does not change the preoperational test.
		Changed the ANSI /ANS standard from "1987" to "1994".	ANSI/ANS 56.8-1987 was superseded by the 1994 version. The 1994 version is required when using Option B.
85, 86	Compressed Air System	Prerequisites 3 and 4 were changed .	Equipment turned over to U1. Ref: Drawing 1-47W846-1 (Station Air Compressors) and 1-47W848-1 (Aux Air Compressors)
		Test Methods 1 - 4 and Acceptance Criteria 1 were deleted.	Equipment turned over to U1. Ref: Drawing 1-47W846-1 (Station Air Compressors) and 1-47W848-1 (Aux Air Compressors)
87	Ice Condenser System	Grammatical change to Prerequisite 7.	

Table 14.2-2 POWER ASCENSION TEST SUMMARIES

FSAR Sheet No.	Title	Change	Justification
4	Reactor System Sampling for Core Loading	Deleted "above the midplane of the hot leg nozzles" from Prerequisite 3.	Made prerequisite less specific, no change to test method or acceptance criteria.
8	Rod Position Indication System	Computer system name changed from "P2500" to "ICS".	P2500 system changed to ICS per EDCR 52322
9	Rod Drop Time Measurement and Stationary Gripper Release Timing Test Summary	Added specific test conditions to Test Method and deleted note.	Scope clarification
11	Spent Fuel Pool Cooling System	Deleted entire Sheet.	Equipment turned over to U1. Ref: Drawing 1-47W855-1
12	Incore Instrumentation System	Entire Sheet revised for new instrumentation system (WINCISE).	Equipment was replaced by EDCR 52321 (WINCISE)
13	Pressurizer Spray Capability and Continuous spray Flow Setting Test	Deleted "Plant Trip From 100% Power" from Objective.	Editorial error introduced in U1 FSAR Amendment 91 was subsequently corrected. The Unit 1 test was performed in 1-PAT-3.2 with the prerequisite condition of MODE 3 prior to initial criticality.
27	Flux Distribution Measurement Test	Sheet revised for new instrumentation system (WINCISE).	Equipment was replaced by EDCR 52321 (WINCISE)
29	Integrated Computer System Test	Computer system name changed from "P2500" to "ICS".	P2500 system changed to ICS per EDCR 52322
39	Inadequate Core Cooling Monitoring System	New system added.	The Common Q PAMS (equivalent to Unit 1's ICCM) EDCR is 52351. The RVUIS EDCRs are 52601 and 55385.