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NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT
PLANT REFERENCED SIMULATION FACILITY

REPORT SUMMARY

Facility: James A. FitzPatrick Nuclear Power Plant - Docket Number 50-333

Licensee: New York Power Authority

Location: New York Power Authority
James A. FitzPatrick Nuclear Power Plant
P.O. Box 41
Lycoming, New York 13093

Performance Testing Completed

The testing program described in the "Four Year Performance Testing Report" submitted to the commission on March 17, 1995 has been completed. Performance testing has been conducted in accordance with the requirements of ANSI/ANS 3.5 1985. Pursuant to 10CFR55.45(b)(5)(ii), all test performance failures during this report period have been corrected.

Pursuant to 10CFR55.45(b)(5)(vi), a report is attached (Tab 2), describing the testing completed during this report period. The report lists each test that has been performed, grouped by test type, and includes the test number and test title. Changes to the testing program due to plant modifications, plant and simulator procedure changes, and training value assessments are annotated on the report as follows:

- 1) "deleted" - indicates the function and test are no longer applicable to the simulator. The test has been permanently removed from the testing program.
- 2) "replaced" - indicates testing of the function or feature has been moved to a different test as a result of test or procedure revisions.
- 3) "inactivated" - indicates the function is no longer used in simulator training. The test has been flagged as inactive in the testing database and on the Instructor Station. The test will no longer be performed. The function may be reactivated in the future, after successful re-performance of the test.

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- 4) "added" – indicates additional testing performed not required by the testing plan submitted in 1995 (includes newly developed tests added to the testing program).

The simulator hardware and software platforms were upgraded during this report period. The changes involved replacing the Encore/MPX based computer platform with a Pentium/Windows NT platform and porting the simulation software from the original Singer-Link executive to OpenSim NT. The upgrade acceptance testing appears in the report with other modification testing.

Discrepancies identified during performance testing have been documented and controlled in accordance with the Simulator Configuration Management Control Procedure (STP-1). Testing related discrepancy reports and all performance test results are on file and available for review in the Simulator.

Performance Testing Plan 1999-2002:

Simulator performance testing for the next four years will continue to be conducted in accordance with the requirements of ANSI/ANS 3.5 1985. The program to implement the testing for the next four years is the same as that used for the last four years and is described in the procedure entitled "Simulator Test Program" (STP-3). The specific listing of tests to be performed is now maintained in a testing database and has been revised to reflect simulator changes implemented during the past four year period (as described in this report).

Pursuant to 10CFR55.45(b)(5)vi, a description of the tests to be performed and a testing schedule for the next four year period is attached (Tab 3).

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FOUR YEAR PERFORMANCE TESTING REPORT

TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	NOP	ST-01B	MSIV Fast Closure and Main Steam Line Drain Isolation Valve Test (IST)	11-Mar-98
	NOP	ST-01E	Main Turbine Stop Valves Limit Switch Instrument Functional Test	05-May-97
	NOP	ST-01G	Main Steam Radiation Monitor (17RM-251A, B, C and D) Functional Test	03-Mar-99
	NOP	ST-01I	Main Steam Isolation Valves Limit Switch Instrument Functional Test	11-Mar-99
	NOP	ST-01K	Main Steam Line Isolation Valves, Main Steam Drain Valves and Reactor Water Sample Valves Simulated Automatic Isolation Test	10-Mar-99
	NOP	ST-01L	Main Turbine Control Valve Instrument Channel and Valve Operability Check	01-Dec-97
	NOP	ST-01S	Shutdown Cooling Containment Isolation Valve Testing (IST)	10-Mar-99
Deleted	NOP	ST-01Y	MSIV Partial Closure Exercise Test	N/A
Added	NOP	ST-02AL	RHR Loop A Quarterly Operability Test (IST)	05-Mar-99
Added	NOP	ST-02AM	RHR Loop B Quarterly Operability Test (IST)	07-Mar-99
	NOP	ST-02AN	RHR Loop A Pump and MOV Operability and LPCI Keep-Full Level Switch Functional Test	05-Mar-99
	NOP	ST-02AO	RHR Loop B Pump and MOV Operability and LPCI Keep-Full Level Switch Functional Test	07-Mar-99
	NOP	ST-02J	One RHR Service Water Pump or One Containment Cooling Subsystem Inoperable Test	10-Mar-99
	NOP	ST-02N	LFCl Mode Inoperable Test	10-Mar-99
Replaced	NOP	ST-02R	RHR Service Water Pump and MOV Operability Test (Now in 02RA & 02PB)	N/A

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
Added	NOP	ST-02RA	RHR Service Water Loop A Monthly Operability Test	10-Mar-99
Added	NOP	ST-02RB	RHR Service Water Loop B Monthly Operability Test	10-Mar-99
	NOP	ST-02T	LPCI Cross Connect Position Functional Test	10-Mar-99
	NOP	ST-02Y	RHR Heat Exchanger Performance Test	07-Mar-99
Replaced	NOP	ST-03A	Core Spray Pump and Valve Operability Test (Now in ST-3PA & PB)	N/A
Added	NOP	ST-3PA	Core Spray Loop A Quarterly Operability (IST)	11-Mar-99
Added	NOP	ST-3PB	Core Spray Loop B Quarterly Operability (IST)	11-Mar-99
Deleted	NOP	ST-03M	Core Spray Testable Check Valve Testing (IST)	N/A
	NOP	ST-04B	HPCI Pump and MOV Operability Test	21-May-96
Added	NOP	ST-04K	HPCI Turb Slow Roll & Overspeed Test	02-Feb-97
	NOP	ST-04L	HPCI Class 2 Piping Functional Test (ISI)	28-Sep-97
	NOP	ST-04M	HPCI Torus Suction Operability Test (IST)	03-Mar-99
	NOP	ST-04N	HPCI Flow Rate and Inservice Test (IST)	16-Dec-97
Added	NOP	ST-04P	HPCI Annual Transient Monitoring Test	21-Apr-97
	NOP	ST-05B	APRM Instrument Functional Test (Run Mode)	11-Mar-99
	NOP	ST-05C	IRM-APRM Instrument Range Overlap Check	01-May-97
Added	NOP	ST-05D	APRM Calibration*	01-Jun-97
Added	NOP	ST-05E	Core Performance Daily Surveillance	27-Jan-97
Added	NOP	ST-05F	Turb First Stage Press Scram Byp Setpt Determination	24-Mar-97

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	NOP	ST-05N	APRM Instrument Functional Test (Refuel, Startup, or Shutdown Mode)	24-Sep-97
	NOP	ST-05O	SRM Functional Test	28-Sep-97
	NOP	ST-05P	Source Range Channel Checks	08-Mar-99
	NOP	ST-05Q	APRM Flow Bias Functional Test (Run Mode)	31-May-97
	NOP	ST-05R	RBM Upscale and Downscale Instrument Functional Test	02-Mar-99
Deleted	NOP	ST-05T	RPS Channel A APRM Downscale Functional Test (Run Mode)	N/A
Deleted	NOP	ST-05U	RPS Channel B APRM Downscale Functional Test (Run Mode)	N/A
	NOP	ST-08C	ESW Motor Operated Valves Operability Test	02-Mar-99
Replaced	NOP	ST-09B	EDG Gull Load Test and ESW Pump Operability Test (Now in ST-09BA & ST-09BB)	N/A
Added	NOP	ST-09BA	EDG A & C Full Load Test & ESW Pump Operability Test	03-Mar-99
Added	NOP	ST-09BB	EDG B & D Full Load Test & ESW Pump Operability Test	03-Mar-99
	NOP	ST-09C	Emergency AC Power Load Sequencing Test and 4 KV Emergency Power System Voltage Relays Instrument Functional Test	10-Mar-99
	NOP	ST-09D	EDG, 115KV Reserve Power, Station Battery, or ESW Pump Inoperable Test	11-Jun-98
	NOP	ST-10B	Off-Gas System Automatic Isolation and Closure Test	09-Mar-99
	NOP	ST-11	Off-Gas Process Rad Monitor Instrument Functional Test	25-Apr-97
Deleted	NOP	ST-12B	Reactor Building Exhaust RAD Monitor Instrument Response Test	N/A
Deleted	NOP	ST-12F	Main CR ventilation Rad Monitor Instrument Response Test	N/A

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	NOP	ST-12K	Main CR ventilation Rad Monitor Instrument channel Functional Test	10-Feb-98
Deleted	NOP	ST-13	Main Stack Rad Monitor Response Test	N/A
Added	NOP	ST-13A	Stack Gas Rad Mon Instr Channel Functional Test	10-Mar-99
Deleted	NOP	ST-14A	Normal Service Water Radiation Monitor Functional Test	N/A
	NOP	ST-20A	Rod Worth Minimizer Functional Test	23-Apr-97
	NOP	ST-20C	Control Rod Operability and HCU Cooling Water Supply Check Valve Reverse Flow Check (IST)	10-Mar-99
Deleted	NOP	ST-20J	Verification of Scram Discharge Volume Vents and Drains	N/A
	NOP	ST-20K	Pre-Control Rod Withdrawal Checklist	07-Mar-99
	NOP	ST-20M	Scram Discharge Volume Vent and Drain Valves Full Stroke and Timing Test (IST)	10-Mar-99
	NOP	ST-20N	Control Rod Exercise/Timing/Stall Flow Test	07-Mar-99
	NOP	ST-21A	Main Turbine Overspeed Trip Test (Actual Overspeed Trip Test - Valves Remain Open)	02-Mar-99
	NOP	ST-21C	Main Turbine Combined Intermediate Valve Test	02-Mar-99
	NOP	ST-21E	Main Turbine Backup Overspeed Trip System Test (Actual Overspeed)	02-Mar-99
	NOP	ST-21F	Main Turbine Overspeed Trip Device and Mechanical Trip Valve Test	02-Mar-99
	NOP	ST-21I	Main Turbine Thrust Bearing Wear Detector Test*	02-Mar-99
	NOP	ST-21K	Main Turbine Overspeed Trip System Test (Actual Overspeed)	02-Mar-99
Added	NOP	ST-22B	Manual Safety Relief Vlv Operation & Vlv Monitoring Sys	29-Jun-97

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	NOP	ST-23B	Control Rod Coupling Integrity Test	02-Mar-99
	NOP	ST-23C	Jet Pump Operability Test for Two Loop Operation (EPIC Available)	24-Feb-98
	NOP	ST-23D	Jet Pump Operability Test for Single Loop Operation	12-Mar-99
	NOP	ST-23E	Jet Pump Operability Test for Two Loop Operation (EPIC Not Available)	02-Mar-99
	NOP	ST-24A	RCIC Pump and MOV Operability Test	10-Mar-99
	NOP	ST-24F	RCIC System Inoperable Test	10-Mar-99
	NOP	ST-24J	RCIC Flow Rate and Inservice Test (IST)	08-Mar-99
Added	NOP	ST-24Q	RCIC Turb Slow Roll & Overspeed Test	21-Apr-97
	NOP	ST-26J	Heatup and Cooldown Temperature Checks	08-Mar-99
	NOP	ST-26K	Recirculation Pump Start-up Differential Temperature Check	07-Mar-99
	NOP	ST-26L	Main Turbine Mechanical Trip Valve and Master Trip Solenoid A and B Test	07-Mar-99
	NOP	ST-27A	Recirc Loop Valve Operability Test (IST)	10-Mar-99
	NOP	ST-29A	Manual Scram Functional Test	19-Aug-97
	NOP	ST-29B	Mode Switch in Shutdown Functional Test	07-Mar-99
	NOP	ST-29C	RPS Channel Test Switch Functional Test	10-Mar-99
	NOP	ST-40C	Computer Out of Service Surveillance	07-Mar-99
	NOP	ST-40D	Daily Surveillance and Instrument Check	11-Mar-99
	NOP	ST-40K	Periodic Pump, Valve, and Component Test	11-Mar-99
	NOP	ST-40X	Daily Shutdown Surveillance and Instrument Check	10-Mar-99
Deleted	NOP	ST-41B	Valve Testing - Reactor Building Closed Loop Cooling Water (IST)	

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
Added	NOP	ST-50	SRM Functional Test	14-May-97
	NOP	OP-65	Plant Startup (including applicable OP's)	10-Mar-99
	NOP	OP-65	Plant Shutdown (including applicable OP's)	12-Mar-99
Added	NOP	RAP-7.3.2.9	Determination of Rated Recirc Flow	11-May-97
Added	NOP	RAP-7.3.7	Core Flow Evaluation and Indication Calcul	11-May-97
	MALF	AD01	ADS Timer Fails to Start	24-Feb-97
	MALF	AD02	ADS Inadvertent Timer and Logic Start	28-Dec-98
	MALF	AD03:A-H	ADS Valve(s) Fail to Initiate Automatically	15-Jan-99
	MALF	AD04:A-K	RX Press Relief Valve Solenoid Failure	28-Jun-98
	MALF	AD05:A-K	RX Press Relief Valve Leak	23-Aug-98
	MALF	AD06:A-K	RX Press Relief Valve Inadvertently Opens	23-Aug-98
	MALF	AD07:A-K	RX Press Relief Valve Fails to Open	28-Jun-98
	MALF	AD08:A-K	RX Press Relief Valve Stuck Open	24-Feb-97
	MALF	AD09:A-K	RX SRV Vacuum Breaker Stuck Open	23-Aug-98
	MALF	AN01:A,B	Control Room Annunciator Power Failure	12-Jan-97
	MALF	CS01:A,B	Core Spray Pump Trip	28-Dec-98
	MALF	CS02:A,B	Core Spray Injection Valve Fails to Auto Open	29-Dec-98
	MALF	CS03:A,B	Core Spray Torus Suction Fails Closed	29-Dec-98
	MALF	CS04:A,B	Core Spray Injection Line Break (non- recoverable)	26-Jan-99
	MALF	CS05:A,B	Core Spray Torus Suction Line Pipe Failure	02-Mar-95
	MALF	CU01	RWCU Flow Control Failure	02-Mar-95
	MALF	CU02:A,B	RWCU Pump Trip	02-Mar-95

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	MALF	CU03:A,B	Tube Leak in RWCU HX (non-recoverable)	09-Mar-95
	MALF	CU04:A,B	RWCU Resin Intrusion	09-Mar-95
Inactivated	MALF	CU05:A,B	RWCU Resin Depletion in Filt/Demin (Ref: JTRG-98-076)	09-Mar-95
	MALF	CU06	RWCU Inadvertent Isolation	09-Mar-95
	MALF	CU07	RWCU Pipe Break Between 12MOV-15 and 12MOV 18	13-Mar-95
	MALF	CU08	RWCU Return Temperature Transmitter Failure	02-Feb-95
	MALF	CU09	RWCU Inlet Pipe Failure (non-recoverable)	13-Mar-95
Added	MALF	CU10	RWCU Valve 12MOV-18 Fails To Auto Isolate	14-Jul-95
	MALF	DG01:A-D	EDG Fails to Start	02-Feb-95
	MALF	DG02:A-D	EDG Fails to Trip	20-Mar-95
	MALF	DG03:A-D	EDG Output Breaker Fails to Auto Close	02-Feb-95
	MALF	DG04:A-D	EDG Trip	06-Apr-95
	MALF	DG05:A-D	EDG Voltage Regulator Oscillations	21-Mar-95
	MALF	DG06:A-D	EDG Slow to Start	20-Mar-95
	MALF	DG07:A-D	EDG Governor Fails High	06-Apr-95
	MALF	DG08:A-D	EDG Governor Fails Low	02-Feb-95
	MALF	ED01:A,B	345/24KV Transformer (T1A, T1B) Failure	22-Mar-95
	MALF	ED02:A,B	115/4KV Transformer (T2, T3) Failure	24-Feb-97
	MALF	ED03:A-D	4KV/600V Transformer (T13, T14, T15, T16) Failure	17-Jan-95
	MALF	ED04:A,B	Inverter (71INV-3A/B) Failure	16-Jan-95
	MALF	ED05:A-H	4KV/600V Transformer (T5, T6, T7, T8, T9, T10,	17-Apr-95

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	MALF	ED06A	120VAC Bus (RBACA5) Failure	30-Mar-95
	MALF	ED06B	120VAC Bus (TBACA6) Failure	10-Apr-95
	MALF	ED06C	120VAC Bus (SWACA7) Failure	10-Apr-95
	MALF	ED06D	120VAC Bus (RBACB5) Failure	10-Apr-95
	MALF	ED06E	120VAC Bus (TBACB6) Failure	10-Apr-95
	MALF	ED06F	120VAC Bus (RWACB7) Failure	10-Apr-95
	MALF	ED07A	120VAC Bus (RRACA8) Failure	10-Apr-95
	MALF	ED07B	120VAC Bus (RRACB8) Failure	13-Apr-95
	MALF	ED07C	120VAC Bus (RBACC5) Failure	03-May-95
	MALF	ED07D	120VAC Bus (TBACC6) Failure	16-Jan-95
	MALF	ED07E	120VAC Bus (SWACC7) Failure	10-Apr-95
	MALF	ED07F	120VAC Bus (RBACD5) Failure	16-Jan-95
	MALF	ED07G	120VAC Bus (TBACD6) Failure	06-Apr-95
Deleted	MALF	ED07H	120VAC Bus (RWACD7) Failure (Ref: JTRG-97-125)	16-Jan-95
	MALF	ED07I	120VAC Bus (RBACE5) Failure	06-Apr-95
	MALF	ED07J	120VAC Bus (71ABAC1) Failure	16-Jan-95
	MALF	ED07K	120VAC Bus (71ACNMS) Failure	16-Jan-95
	MALF	ED07L	120VAC Bus (71ACNMS-A) Failure	16-Jan-95
	MALF	ED07M	120VAC Bus (71ACNMS-B) Failure	16-Jan-95
Deleted	MALF	ED07N	120VAC Bus (71EBAC1) Failure (Ref: JTRG-97-125)	16-Jan-95
Added	MALF	ED0f	120V/240VAC Bus (71AC9/71AC10) Failure	04-May-95
Replaced	MALF	ED08A	120V/240VAC Bus (71AC9) Failure (Now In ED08)	N/A

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Replaced	MALF	ED08B	120V/240VAC Bus (71AC10) Failure (Now In ED08)	N/A
	MALF	ED09:A,B	UPS MG Drive Failure (AC/DC)	03-May-95
	MALF	ED10	120VAC UPS Bus (71ACUPS) Failure	01-Feb-96
	MALF	ED11A	125VDC Bus A (71BCB-2A) Failure	19-Dec-95
	MALF	ED11B	125VDC Bus B (71BCB-2B) Failure	19-Dec-95
	MALF	ED12:A,B	125VDC Bus Battery Charger Failure	14-Sep-95
Added	MALF	ED13	24VDC Bus A(B) System Failure	03-Oct-95
Replaced	MALF	ED13A	24VDC Bus A RR24DCA Failure (Now In ED13)	N/A
Replaced	MALF	ED13B	24VDC Bus B RR24DCB Failure (Now In ED13)	N/A
	MALF	ED14:A,B	24VDC Battery Charger Failure	08-Feb-95
	MALF	ED15	24KV/4KV Transformer T4 Failure	08-Feb-95
Added	MALF	ED16	Power Grid Transient With Load Increasing/Decreasing	03-Mar-96
Replaced	MALF	ED16A	Power Grid Transient With Load Increasing (Now In ED16)	N/A
Replaced	MALF	ED16B	Power Grid Transient With Load Decreasing (Now In ED16)	N/A
	MALF	ED17	Station Blackout	20-Dec-96
	MALF	ED18:A,B	4.16KV Emergency Bus (10500, 10600) Failure	31-Mar-96
	MALF	ED19:A-E	4.16KV Normal Bus (10100, 10200, 10300, 10400,	31-Mar-96
	MALF	ED20:A-H	600VAC Bus (11300, 11400, 12300, 12400, 13300,	31-Mar-96
	MALF	ED21:A-D	600VAC Emergency Bus (11500, 12500, 11600, 12600)	12-Mar-96
	MALF	ED22:A-C	600VAC Normal Bus (113100, 113200, 113300) Failure	28-Nov-95

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	MALF	ED23:A-C	600VAC Normal Bus (114100, 114200, 114300) Failure	07-Dec-95
	MALF	ED24:A-D	600VAC Emergency Bus (115100, 115200, 115300, 115600)	14-Dec-95
	MALF	ED25:A-F	600VAC Bus (116100, 116200, 116300, 116400, 116500,	12-Mar-96
	MALF	ED26:A,B	600VAC Bus (123100, 123200) Failure	07-Dec-95
	MALF	ED27:A,B	600VAC Bus (124100, 124200) Failure	07-Dec-95
	MALF	ED28:A-D	600VAC Bus (125100, 125200, 125300, 125400) Failure	13-Feb-96
	MALF	ED29:A-D	600VAC Emergency Bus (126100, 126200, 126300, 126400)	08-Feb-96
	MALF	ED30:A-D	600VAC Bus (133100, 133200, 133300, 133400) Failure	28-Nov-95
	MALF	ED31:A-D	600VAC Bus (134100, 134200, 134300, 134400) Failure	07-Dec-95
	MALF	ED32:A-E	600VAC Bus (143100, 143200, 143300, 143400, 143500)	19-Mar-96
	MALF	ED33:A-E	600VAC Bus (144100, 144200, 144300, 144400, 144500)	07-Mar-96
	MALF	ED34A	120VAC Bus RPS-A Failure	17-Dec-95
	MALF	ED34B	120VAC Bus RPS-B Failure	17-Dec-95
	MALF	ED35A	120VAC Bus (71ESSA1) Failure	13-Dec-95
	MALF	ED35B	120VAC Bus (71ESSB1) Failure	14-Dec-95
	MALF	ED36A	120VAC Bus (71ACA2) Failure	08-Dec-95
	MALF	ED36B	120VAC Bus (71ACA3) Failure	24-Jan-95
	MALF	ED36C	120VAC Bus (71ACA4) Failure	24-Jan-95
	MALF	ED36D	120VAC Bus (71ACB2) Failure	13-Dec-95

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	MALF	ED36E	120VAC Bus (71ACB3) Failure	08-Dec-95
	MALF	ED36F	120VAC Bus (71ACB4) Failure	24-Jan-95
	MALF	ED37A:1-5	125VDC Bus (71DC-A) Failure	20-Jun-95
	MALF	ED37B:1-5	125VDC Bus (71DC-B) Failure	05-Apr-95
	MALF	ED38:A-E	125VDC Bus (71BMCC) Failure	28-Apr-98
	MALF	ED39:A-G	125VDC Control Power Failure To 4160V Busses	19-Mar-98
	MALF	ED40:A-L	125VDC Control Power Failure To 600V Busses	27-Jun-95
Added	MALF	ED41	Failure To Fast Transfer With A Normal Residual Transfer	13-Dec-96
Added	MALF	ED42	Failure To Fast Transfer With A Loss of RPS	13-Dec-96
Added	MALF	ED43	Loss of Affected 115KV Line	21-Dec-96
Added	MALF	ED44	Loss of Station Reserve Power	13-Dec-96
	MALF	EG01	Main Generator Trip	20-Dec-96
	MALF	EG02A	Main Generator Field Breaker Fails to Close	21-Feb-95
	MALF	EG02B	Main Generator Field Breaker Fails to Open	08-Feb-95
	MALF	EG03:A,E	Loss of Isolated Phase Bus Cooling Fan	08-Feb-95
	MALF	EG04	Main Generator Field Brushes Ground	15-Dec-96
	MALF	EG05	Main Generator Stator Temp High	08-Feb-95
	MALF	EG06	Generator Hydrogen Cooling System Leakage	18-Apr-96
	MALF	EG07	Hydrogen Seal Oil System Failure	30-Apr-96
Added	MALF	EG08	Main Generator Auto V/R Fails	07-Mar-96
Replaced	MALF	EG08A	Main Generator Auto V/R Fails Increasing (Now In EG08)	N/A

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Replaced	MALF	EG08B	Main Generator Auto V/R Fails Decreasing (Now In EG08)	N/A
	MALF	EG09	Main Generator Auto V/R Failure Complete	18-Jul-96
	MALF	EG10	Loss of Stator Cooling Water Flow	07-Mar-96
Added	MALF	EG11	Main H2 Seal Oil Pump Trip	30-Jan-98
Added	MALF	EG12	Emergency Seal Oil Pump Auto Start Failure	30-Jan-98
	MALF	FP01:A-D	EDG Rm Fire	08-Sep-97
	MALF	FP02	Smoke - Zone 01 through Zone 82	05-Jul-97
	MALF	FW01:A,B	RX Feedwater Pump Trip	26-Feb-97
	MALF	FW02A:A,B	RX Feedwater Pump Recirc Valve Fails Open	25-Aug-96
	MALF	FW02B:A,B	RX Feedwater Pump Recirc Valve Fails Closed	25-Aug-96
	MALF	FW03:A,B	RX Feedwater Pump Auto Controller Failure	27-Aug-96
	MALF	FW04:A,B	RX Feedwater Pump Manual Controller Failure	07-Dec-96
	MALF	FW05:A,B	RX Feedwater Pump High Vibration	31-Jul-96
	MALF	FW06:A,B	RX Feedwater Pump Coupling Failure	22-Dec-96
	MALF	FW07:A,B	RX Feedwater Pump Discharge Valve Seat Failure	22-Dec-96
	MALF	FW08	Master Feedwater Flow Control Auto Failure	27-Aug-96
	MALF	FW09	Master Feedwater Flow Control Manual Failure	27-Aug-96
	MALF	FW10	Master Feedwater Flow Control Oscillates	27-Aug-96
Inactivated	MALF	FW11:A-D	Loss of Steam Flow Signal To Fdwtr Level (Ref: JTRG-96-390)	N/A

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Inactivated	MALF	FW12:A, B	Loss of Feed Flow Signal To Fdwtr Level (Ref: JTRG-96-390)	N/A
	MALF	FW13:A, B	Feedwater System 6th Point Heater Tube Leak	22-Dec-96
	MALF	FW14:A, B	Feedwater System 5th Point Heater Tube Leak	13-Jan-99
	MALF	FW15:A, B	Feedwater System 4th Point Heater Tube Leak	13-Jan-99
	MALF	FW16:A, B	Feedwater System 3rd Point Heater Tube Leak	11-Mar-99
	MALF	FW17:A, B	Feedwater System 2nd Point Heater Tube Leak	11-Jun-98
	MALF	FW18:A, B	Feedwater System Drain Cooler Tube Leak	11-Mar-99
	MALF	FW19:A-E	Condensate Pump Trip	27-Jan-97
Inactivated	MALF	FW20	Normal Hotwell Level Controller Failure (Ref: JTRG-96-390)	N/A
Inactivated	MALF	FW21:A-H	Condensate (DEMIN) Conductivity Increases (Ref: JTRG-98-076)	26-Mar-98
	MALF	FW22:A, B	CST Leak Manway Flange Failure	05-Sep-96
	MALF	FW23:A-D	High Pressure Heater Level Control Failure	17-May-97
	MALF	FW24:A, B	RX Feedwater Pump Loss of Oil Pressure	05-Mar-97
	MALF	FW25:A-C	Condensate Booster Pump Trip	05-Mar-97
	MALF	FW26:A, B	Condensate Transfer Pump Trip	25-Jul-96
	MALF	FW27:A, B	Feedwater Line Break Inside Primary Containment	30-Jun-97
	MALF	FW28:A, B	Feedwater Line Break Outside Primary Containment	30-Jun-97
	MALF	FW29:A, B	Feedwater Line Inboard Containment Check Valve	13-Jul-97

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Inactivated	MALF	FW30:A-D	Rx Feedwater Pump Discharge Check Valve Fails Open (Ref: JTRG-97-162)	21-Feb-95
Added	MALF	FW31	Condensate Booster Pmp A Auto Start Failure	12-Oct-95
Added	MALF	FW32	Feedwater Heater Loop Seal Drain Blockage	21-Dec-96
	MALF	HP01	HPCI Failure to Auto Start	24-Feb-97
	MALF	HP02	HPCI Turbine Trip	23-Apr-96
	MALF	HP03	HPCI Discharge Line Break (non- recoverable)	18-Jun-96
	MALF	HP04	HPCI Flow Controller Auto Output Failure	23-Apr-96
	MALF	HP05	HPCI Inadvertent Initiation	30-Apr-96
	MALF	HP06	HPCI Steam Line Break (non-recoverable)	27-Jun-96
	MALF	HP07	HPCI Valve 23MOV-19 Fails to Auto Open	23-Apr-96
	MALF	HP08	HPCI Turbine Exhaust Piping Failure	25-Jun-96
	MALF	HP09	HPCI Torus Suction Pipe Failure (non- recoverable)	09-Dec-96
Added	MALF	HP10	HPCI System Auto Isolation Failure	17-Oct-95
Added	MALF	HP11	HPCI 23MOV-15 Auto Isolation Failure	17-Oct-95
Added	MALF	HP12	HPCI High Rx Water Lvl Trip Failure	12-Oct-95
	MALF	HV01:A-C	Rx Bldg Supply Fan Trip	23-Apr-96
	MALF	HV02:A,B	Rx Bldg Exhaust Fan Trip	09-Dec-96
	MALF	HV03	Secondary Containment Leakage	18-Jul-96
	MALF	IA01	Loss of Air Pressure to Scram Air Header	23-Apr-96
	MALF	IA02	Loss of Instrument Air	18-Jul-96
	MALF	IA03:A-C	Air Compressor Trip	30-Apr-96
Added	MALF	IA04	Serv Air Comp A Auto Start on Low Inst Air Hdr Press Fail	17-Oct-95

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	MALF	MC01	Main Condenser Air In-Leakage	18-Jul-96
	MALF	MC02:A-D	Main Condenser Tube Leak	29-Aug-96
	MALF	MC03:A-D	Main Condenser Water Box Flow Block	29-Aug-96
Added	MALF	MC04	SJAE Steam Supply Valve Fails	12-Sep-96
Replaced	MALF	MC04A	SJAE Steam Supply Valve Fails Open (Now In MC04)	N/A
Replaced	MALF	MC04B	SJAE Steam Supply Valve Fails Closed (Now In MC04)	N/A
	MALF	MC05:A-C	Circulating Water Pump Trip	06-Aug-96
	MALF	MC06	Air Ejector Condenser High Level	20-Jan-98
	MALF	MC07:A-C	Circ Water Pump Discharge Valve Fails to Close	18-Jul-96
	MALF	MC08:A-C	Circ Water Pump Discharge Valve Fails to Open	25-Jul-96
	MALF	MC09:A-D	Loss of Condenser Water Box Vacuum Priming	05-Sep-96
	MALF	MC10	Water Icing in Intake Structure	05-Sep-96
	MALF	MS01:A,B	Main Steam Header Press Xmtr Failure	03-Jul-96
	MALF	MS02:A-D	Steam Leakage Inside Primary Containment	04-May-97
	MALF	MS03:A-D	Main Steam Line Rupture Inside Primary	08-Mar-99
	MALF	MS04:A-D	Main Steam Line Rupture Outside Primary	10-Mar-97
	MALF	MS05	Steam Leak Outside Primary Containment	05-May-97
Added	MALF	MS06	Steam Seal Pressure Regulator Fails	03-Sep-96
Replaced	MALF	MS06A	Steam Seal Pressure Regulator Fails Open (Now In MS06)	N/A
Replaced	MALF	MS06B	Steam Seal Pressure Regulator Fails Closed (Now In MS06)	N/A

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	MALF	MS07:A-H	MSIV Disc Separates from Stem (non-recoverable)	05-May-97
	MALF	MS08A:A-H	MSIV Fails Closed	03-Sep-96
	MALF	MS08B:A-H	MSIV Fails Open	02-Sep-96
	MALF	MS09:A,B	First Stage Reheat Steam Supply to MSR Fails	27-Jan-98
	MALF	MS10:A-H	MSIV Slow Test Closure Time	02-Sep-96
	MALF	MS11:A,B	Second Stage Reheat Steam Supply to MSR Fails	12-Sep-96
	MALF	MS12:A-D	Moisture Separator Drain Tank Level Control	06-Jul-97
	MALF	MS13:A-D	First Stage Reheat Drain Tank Level Control	06-Jul-97
	MALF	MS14:A-D	Second Stage Reheat Drain Tank Level Control	06-Jul-97
	MALF	MS15:A-J	Loss of Feedwater Extraction Steam	07-Jul-97
	MALF	MS16:A-L	SRV Discharge Line Break Above Torus Water Level	15-Aug-97
	MALF	NM01:A-D	SRM Channel Failure	09-Dec-96
	MALF	NM02:A,B	SRM Channel Recorder Failure	09-Dec-96
	MALF	NM03:A-D	SRM Channel Inoperative	10-Sep-96
	MALF	NM04:A-D	SRM Channel Detector Stuck	10-Sep-96
	MALF	NM05:A-D	SRM Channel Retract Permit Failure	09-Dec-96
	MALF	NM06:A-H	IRM Channel Failure	07-Dec-96
	MALF	NM07:A-H	IRM/APRM-RBM Channel Recorder Failure	05-Mar-97
	MALF	NM08:A-H	IRM Channel Inoperative	07-Dec-96
	MALF	NM09:A-H	IRM Channel Detector Stuck	07-Dec-96
	MALF	NM10:A-H	IRM Channel Retract Permit Failure	07-Dec-96

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	MALF	NM11:XXYYZZ	LPRM (XX-YY-ZZ) Failure	12-Sep-96
	MALF	NM12:A,B	RBM Channel Failure	10-Sep-96
	MALF	NM13:A,B	RBM Channel Inoperative	10-Sep-96
	MALF	NM14:A-F	APRM Channel Failure	10-Sep-96
	MALF	NM15:A-F	APRM Channel Inoperative	10-Sep-96
Deleted	MALF	NM17:XX:YY	Leak in LPRM Dry Tube (non-recoverable) (Ref: JTRG-97-086)	10-Sep-96
	MALF	OG01	Off Gas Condenser High Level	23-Jun-97
	MALF	OG02	Off Gas Drain Pot High Level	20-Jan-98
	MALF	OG03	Explosion in Air Ejector Discharge	23-Jun-97
	MALF	OG04	Fire in Air Ejector	27-Jan-98
	MALF	OG05	Recombiner Trip	28-Apr-98
	MALF	OG06	Stack Isolation Valve Fails Closed	21-May-98
Added	MALF	OG07	Off Gas 01-107AOV-100 Auto Isolation Failure	08-Oct-95
	MALF	PC01	Containment Vent Purge Fan Trip	07-May-97
	MALF	PC02	Loss of Instrument Nitrogen	07-May-97
	MALF	PC03:A-H	Drywell Cooling Fan Trip	23-Apr-97
	MALF	PC04:A,B	SBGT Fan Trip	10-Mar-97
Added	MALF	PC05	Containment Pressure Transmitter Failure	14-Jul-97
Replaced	MALF	PC05A	Containment Pressure Transmitter Failure (Now In PC05)	N/A
Replaced	MALF	PC05B	Containment Pressure Transmitter Failure (Now In PC05)	N/A
	MALF	PC06	Torus Drywell Vacuum Breaker 27VB-1 Fails to Close	17-May-97

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	MALF	PC07	Primary Containment Leakage (non-recoverable)	07-May-97
	MALF	PC08	Primary Containment Hydrogen High	07-May-97
	MALF	PC09	Primary Containment Oxygen High	07-May-97
	MALF	PC10	Torus Level Decreases (non-recoverable)	10-Mar-97
	MALF	RC01:A,B	RCIC Turbine Loss of Oil Pressure	23-Jun-97
	MALF	RC02	RCIC System Fails to Auto Start	30-Jun-97
	MALF	RC03	RCIC System Turbine Trip	15-Jun-97
	MALF	RC04	RCIC Turbine Failure to Auto Trip	23-Jun-97
	MALF	RC05	RCIC System Isolation	15-Jun-97
	MALF	RC06	RCIC Inadvertent Initiation	15-Jun-97
	MALF	RC07:A,B	RCIC Governor Fails High/Low (HSS/LSS)	13-Jul-97
Inactivated	MALF	RC08:A,B	RCIC-RHR Suction Valve (10MOV-3A/B) Fails Closed (Ref: JTRG-98-059)	N/A
	MALF	RC09	RCIC Steam Line Break (non-recoverable)	05-Mar-98
	MALF	RC10	RCIC Discharge Line Break (non-recoverable)	05-Jul-97
	MALF	RC11	RCIC Turbine Exhaust Pipe Failure (non-recoverable)	05-Jul-97
	MALF	RC12	RCIC Isolation Relay, 13A-K15, Failure	05-Apr-95
Added	MALF	RC13	RCIC High Rx Water Lvl Shutdown Failure	12-Oct-95
	MALF	RD01A:A-H	SDV Vent or Drain Valve Fails Open	01-Apr-98
	MALF	RD01B:A-H	SDV Vent or Drain Valves Fail Closed	14-Jul-97
Inactivated	MALF	RD02:A,B	Scram Discharge Instrument Volume High Level (Ref: JTRG-98-107)	15-Apr-98
	MALF	RD03:A,B	CRD Flow Control Valve Failure	28-Jul-97
	MALF	RD04:A,B	CRD Drive Water Filter Clogging	10-Feb-98

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	MALF	RD05:A,B	CRD Stabilizing Valves Fail Closed	28-Jul-97
	MALF	RD06:A,B	CRD Hydraulic Pump Trip	28-Jul-97
	MALF	RD07:**:**	Control Rod (XX-YY) Drift-In	19-Jul-97
	MALF	RD08:**:**	Control Rod (XX-YY) Drift-Out	19-Jul-97
	MALF	RD09:**:**	Control Rod (XX-YY) Accumulator Trouble	19-Jul-97
	MALF	RD10:**:**	Control Rod (XX-YY) Blade Stuck	19-Jul-97
	MALF	RD11:**:**	Control Rod (XX-YY) Uncoupled	19-Jul-97
	MALF	RD12:**:**	Control Rod (XX-YY) Scrammed	19-Jul-97
	MALF	RD13:**:**	Control Rod (XX-YY) Fail to Scram	19-Jul-97
	MALF	RD14:**:**	Control Rod (XX-YY) RPIS Failure	10-Feb-98
	MALF	RD15	Rod Drive Control System Timer Fail	16-Mar-98
	MALF	RD16	Rod Position Info System Total Failure	02-Dec-97
	MALF	RD17:**:**	Control Rod (XX-YY) High Temperature	11-Feb-98
	MALF	RD18:A,B	Scram Discharge Volume Rupture (non-recoverable)	20-Jan-99
	MALF	RD19:A,B	CRD Suction Filter Hi Delta-Pressure	19-Jan-99
	MALF	RD20:**:**	Line Break CRD HCU (XX-YY) (non-recoverable)	31-Mar-98
	MALF	RD21:**:**	Leaking Control Rod Withdraw SOV	30-Apr-98
	MALF	RD22	Scram Discharge Volume Hydraulic Lock	25-Jul-95
	MALF	RH01:A-D	RHR Pump Trip	08-Jun-97
	MALF	RH03:A,B	RHR Heat Exchange Tube Leak (non-recoverable)	03-Feb-99
	MALF	RH04A:A,B	LPCI Injection Valve Fails Closed	29-Jun-97
	MALF	RH04B:A,B	LPCI Injection Valve Fails Open	29-Jun-97

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	MALF	RH05:A-D	RHR Pump Discharge Leak (non-recoverable)	29-Jun-97
	MALF	RH06	RHR/SDC Valve 10MOV-18 Fails	23-Jun-9
	MALF	RH07	RHR/SDC Valve 10MOV-17 Fails	23-Jun-97
	MALF	RH08:A-D	RHR Pump SDC Suction Valve Fails Closed	23-Jun-97
	MALF	RH09:A,B	LPCI - Injection Line Failure (non-recoverable)	29-Jun-97
	MALF	RH10:A,B	RHR Loop Suction Line Piping Failure	05-Mar-98
Inactivated	MALF	RH11:A,B	RHR Hx Level Controller Auto Mode Failure (Ref: JTRG-98-019)	N/A
Inactivated	MALF	RH12:A,B	RHR Hx Steam Supply Valve Fails Closed (Ref: JTRG-98-019)	N/A
Inactivated	MALF	RH13:A,B	RHR Hx Press Reducing Valve Fails Closed (Ref: JTRG-98-019)	N/A
	MALF	RH14	LPCI Failure to Auto Initiate	29-Jun-97
Added	MALF	RH15	RHR/SDC Valve 10MOV-17(18) Auto Isolation Failure	27-Oct-95
Added	MALF	RH16	RHR Pump Motor Winding Temperatures High	27-Apr-98
	MALF	RM01A:1-5	Process Rad Mon Failure	12-May-97
	MALF	RM01B:1-4	Process Rad Mon Failure	08-Jun-97
	MALF	RM01C:1-7	Process Rad Mon Failure	12-May-97
	MALF	RM01D:1-8	Process Rad Mon Failure	21-Jul-97
	MALF	RM01E:1-7	Process Rad Mon Failure	17-May-97
	MALF	RM02A:1-10	ARM Failure	21-Apr-97
	MALF	RM02B:11-20	ARM Failure	21-Apr-97
	MALF	RM02C:21-30	ARM Failure	21-Apr-97
	MALF	RP01A	RPS Auto Scram Failure	30-Jun-97

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	MALF	RP01B	RPS Manual Scram Failure	12-May-97
	MALF	RP02	Inadvertent Reactor Scram	14-May-97
	MALF	RP03	Inadvertent Group I Isolation	24-Feb-97
	MALF	RP04	Inadvertent Group II Isolation	19-Jul-97
	MALF	RP05:A,B	RPS M-G Set Trip	15-Jan-97
	MALF	RP06:A,B	RPS Electrical Protection Assembly Trip	15-Jun-97
	MALF	RP07:A-D	Control Rod Group Fail to Scram	30-Jun-97
	MALF	RP08:A-D	Control Rod Group (1,2,3,4) Scram	02-Apr-98
	MALF	RP09	ARI Fails to Actuate	17-Feb-98
Added	MALF	RP10	PCIS Group III Low Rx Water Lvl Isolation Failure	24-Oct-95
Added	MALF	RP11	PCIS Group II Isolation Failure	16-Nov-95
Added	MALF	RP12	PCIS Group I Inboard(Outboard) MSIV Isolation Failure	24-Oct-95
Added	MALF	RP13	PCIS Group I Isolation Failure	24-Oct-95
	MALF	RR01:A,B	RWR Pump/Gen Field Breaker Trip	18-Jan-99
	MALF	RR02:A,B	RWR Pump Control Signal Failure Scoop Tube Lock	19-Feb-98
	MALF	RR03:A,B	RWR Pump Incomplete Start Sequence	03-Feb-99
	MALF	RR04:A,B	RWR Pump #1 Seal Failure (non-recoverable)	07-Jul-95
	MALF	RR05:A,B	RWR Pump #2 Seal Failure (non-recoverable)	07-Jul-95
Deleted	MALF	RR06:A,B	RWR Pump Dual Seal Failure (non-recoverable) (Ref: DR# 7340)	N/A
	MALF	RR07:A-H	RWR Loop Flow Transmitter Fails	01-Mar-99
	MALF	RR08:A-T	Jet Pump Failure (non-recoverable)	01-Feb-99

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Inactivated	MALF	RR09	RWR Master Flow Controller Failure (Ref: JTRG-98-067)	N/A
	MALF	RR10:A,B	RWR System MG Flow Controller Failure	30-Apr-98
	MALF	RR11:A,B	RWR Pump Shaft Binding	12-Mar-98
	MALF	RR12:A,B	RWR Pump Drive Motor Breaker Trip	03-Mar-97
	MALF	RR13:A-C	ATWS System Fails to Initiate RWR Pump Trip	29-Apr-98
	MALF	RR14:A,B	RWR Loop Rupture (DBA) (non-recoverable)	12-May-98
	MALF	RR15:A,B	RWR Coolant Leakage Inside Primary Containment	25-Jan-99
	MALF	RR16:A,B	Reactor Vessel Wide Range Level Transmitter Fails	07-Jul-95
Replaced	MALF	RR16:C,D,E,F (UNDER DEVELOPMENT) (Now in RR16:A,B)		N/A
	MALF	RR17:A,B	Reactor Vessel Fuel Zone Level Failure	30-Apr-98
	MALF	RR18	Refuel Water Level Indicator Fails	17-Feb-98
	MALF	RR19:A-D	Rx Vessel Lvl Transmitter To FW Lvl Control	22-Jan-99
	MALF	RR20:A,B	Loss Pressure Compensation to Feedwater Control	17-Feb-98
	MALF	RR21:A-D	Loss of Pressure Compensation to Feedwater	21-Jan-99
Added	MALF	RR22	Reactor Vessel Scram Level Transmitter Failure	29-Apr-98
Replaced	MALF	RR22A	Reactor Vessel Scram Level Transmitter Failure (Now In RR22)	N/A
Replaced	MALF	RR22B	Reactor Vessel Scram Level Switch (A-D) Fail Downscale (Now In RR22)	N/A
Replaced	MALF	RR22C	Reactor Vessel Scram Level Switch (A-D) Fail As Is (Now In RR22)	N/A
	MALF	RR23:A-D	RWR Flow Unit Failure	20-Jan-99

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	MALF	RR24:A-D	Jet Pump Summer Failure	27-Apr-98
	MALF	RR25:A,B	Core Spray Pipe Break Inside Downcomer	29-Dec-98
	MALF	RR26	Unexplained Reactivity Change (non-recoverable)	23-Aug-98
	MALF	RR27:A,B	Rx Level Narrow Range Reference Leg De-Gassing	30-Apr-98
	MALF	RR28	Rx Level Narrow Range Reference Legs Severe	21-Jan-99
	MALF	RR29	Reactor Vessel NR Lvl Transmitter Fails	17-Oct-95
Added	MALF	RR30	RWR MG Set Drive Motor Breaker Trip Failure	05-Sep-95
Added	MALF	RR31	Reactor Vessel Wide Range Level Transmitter Fails	07-Jul-95
	MALF	RW01	Rod Worth Minimizer Failure	14-Jan-99
	MALF	RX01	Fuel Cladding Failure	12-Jan-95
	MALF	RX02:XX:YY	Increased Rod Worth (XX-YY)	03-Feb-99
	MALF	RX03	Core Thermal Hydraulic Instability	29-Apr-98
	MALF	SL01:A,B	Standby Liquid Control Pump Breaker Trip	27-Apr-98
	MALF	SL02:A,B	Standby Liquid Control Squib Valve Fails to Open	30-Mar-98
	MALF	SL03:A,B	SLC Pump Relief Valve Lifts	30-Mar-98
Added	MALF	SL04	Standby Liquid Control Squib Valve Loss of Continuity	17-Mar-98
	MALF	SW01:A,B	Loss of RBCLC Flow to RWR	13-Jan-99
	MALF	SW02:A-C	TBCLC Hx Cooling Water Blockage	20-Jan-99
	MALF	SW03:A-C	RBCLC Hx Cooling Water Blockage	06-Jan-99
	MALF	SW04:A-D	RHR Service Water Pump Trip	28-Jun-98

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	MALF	SW05:A-C	Service Water Pump Trip	15-Jun-97
	MALF	SW06:A,B	RHR Hx Cooling Water Blockage	28-Jun-98
	MALF	SW07:A-C	TBCLC Pump Trip	27-Apr-98
	MALF	SW08:A-C	TBCLC Hx Tube Leak (non-recoverable)	12-Jan-99
	MALF	SW09:A-C	RBCLC Pump Trip	28-Feb-99
	MALF	SW10:A-C	RBCLC Hx Tube Leak (non-recoverable)	04-Mar-99
	MALF	SW11	RBCLC Leakage in Drywell (non-recoverable)	18-Jan-99
	MALF	SW12:A,B	Loss of Drywell Cooling Assemblies	22-Dec-98
	MALF	SW13	Loss of Cooling to RWCU NRHX	08-Mar-99
	MALF	SW14:A,B	Emergency Service Water Pump Trip	30-Apr-98
Added	MALF	SW15	Service Water Pump A Auto Start Failure	25-Jul-95
Added	MALF	SW16	TBCLC Pmp A Auto Start Failure	12-Oct-95
Added	MALF	SW17	RBCLC Pmp A Auto Start Failure	12-Oct-95
Added	MALF	SW18	ESW Pmp A(B) Auto Start Failure	17-Oct-95
	MALF	TC01	Main Turbine Acceleration	02-Feb-99
	MALF	TC02:A,B	EHC Pump Trip	28-Jun-98
Added	MALF	TC03	EHC Pump Press Reg Fails	29-Dec-98
Replaced	MALF	TC03A:A,B	EHC Pump Press Reg Fails High (Now In TC03)	N/A
Replaced	MALF	TC03B:A,B	EHC Pump Press Reg Fails Low (Now In TC03)	N/A
Added	MALF	TC04	Bypass Valve Failure	03-Feb-99
Replaced	MALF	TC04A	Bypass Valve Failure (Now In TC04)	N/A
Replaced	MALF	TC04B	Bypass Valve Fails Closed (Now In TC04)	N/A

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
Added	MALF	TC05	Main Turbine Load Select Failure	03-Feb-99
Replaced	MALF	TC05A	Main Turbine Load Select Fails High (Now In TC05)	N/A
Replaced	MALF	TC05B	Main Turbine Load Select Fails Low (Now In TC05)	N/A
Replaced	MALF	TC06A:A,B	EHC System Regulator Fails High (Redundant, Now In MS01) DR#7759	N/A
Replaced	MALF	TC06B:A,B	EHC System Regulator Fails Low (Redundant, Now In MS01) DR#7759	N/A
	MALF	TC07:A,B	EHC System Regulator Oscillation	28-Jan-99
Added	MALF	TC08	Turbine Control Valve Failure	26-Jan-99
Replaced	MALF	TC08A:A-D	Turbine Control Valve Fails Open (Now In TC08)	N/A
Replaced	MALF	TC08B:A-D	Turbine Control Valve Fails Close (Now In TC08)	N/A
Added	MALF	TC09	Turbine Stop Valve Failure	02-Feb-99
Replaced	MALF	TC09A:A-D	Turbine Stop Valve Fails Open (Now In TC09)	N/A
Replaced	MALF	TC09B:A-D	Turbine Stop Valve Fails Closed (Now In TC09)	N/A
	MALF	TC10	Turbine Load Reject	03-Feb-99
Added	MALF	TC11	Main Turbine Auto Trip Failure	04-Aug-95
	MALF	TU01	Inadvertent Turbine Trip	05-Mar-97
	MALF	TU02:A-J	Main Turbine Bearing High Temp	28-Jun-98
	MALF	TU03	Main Turbine Bearing Oil Pressure Low	15-Jan-99
	MALF	TU04:A-J	Main Turbine Bearing High Vibration	28-Jun-98
	MALF	TU05	Main Turbine Shaft Driven Oil Pump Failure	29-Dec-98
	MALF	TU06	Turbine Motor Suction Pump Trip	14-Jan-99

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	MALF	TU07	Turbine Emergency Bearing Oil Pump Trip	14-Jan-99
Added	MALF	TU08	Exhaust Hood Spray Valve Failure	14-Jan-99
Replaced	MALF	TU08A	Exhaust Hood Spray Valve Fails Open (Now In TU08)	N/A
Replaced	MALF	TU08b	Exhaust Hood Spray Valve Fails Closed (Now In TU08)	N/A
	MALF	YC01	EPIC Fails	19-Mar-98
	STEADY STATE	SS-01	25% Rated Thermal Power	01-Mar-99
	STEADY STATE	SS-02	75% Rated Thermal Power	01-Mar-99
	STEADY STATE	SS-03	100% Rated Thermal Power Stability Test	01-Mar-99
	TRANSIENT TEST	TT01	Manual RX Scram	01-Mar-99
	TRANSIENT TEST	TT02	Trip All Feedwater Pumps	01-Mar-99
	TRANSIENT TEST	TT03	Closure of All MSIVs	01-Mar-99
	TRANSIENT TEST	TT04	Trip of Both Recirc Pumps	01-Mar-99
	TRANSIENT TEST	TT05	Single Recirc Pump Trip	01-Mar-99
	TRANSIENT TEST	TT06	Main Turbine Trip (No Scram)	01-Mar-99
	TRANSIENT TEST	TT07	Max Rate Power Ramp	01-Mar-99
	TRANSIENT TEST	TT08	DBA LOCA With Loss of Off-site Power	01-Mar-99
	TRANSIENT TEST	TT09	Main Steam Line Rupture	01-Mar-99

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	TRANSIENT TEST	TT10	Closure of All MSIVs With Stuck Open Relief Valve	01-Mar-99
	MOD	7091	MOD 88-173: TO MAIN GENERATOR EXCITER VOLTAGE ADJUSTER DRIVE MOTOR ASSEMBLY.	15-Feb-95
	MOD	7257	MOD 88-238 INSTALLS AN EDW/FP SYSTEM CROSS CONNECT	14-Sep-95
	MOD	7426	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD D1-89-055. RWCU TEMP SWITCH REMOVAL.	25-Nov-96
	MOD	7089	MOD 89-158: POWER MONITORING & ANALYZING PANEL (27MAP) FROM STATION BATTERIES.	24-Apr-95
	MOD	7425	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD F1-90-202. 12P-1A REPLACEMENT.	10/23/19
	MOD	7424	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD M1-90-206. EDG VENT SYSTEM ALARM.	12/13/1995
	MOD	7494	IMPLEMENT MOD 90-220 - METER SCALE DIVISIONS ON 33LI-101A IN PLANT HAS CHANGED AND SIMULATOR METER DOES NOT MATCH	04/02/1996
	MOD	7417	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD M1-91-093. INST. AIR SYSTEM IMPROVEMENTS.	12/13/1995
	MOD	7259	MOD 91-102 DISABLES 29-MOV-102	06/12/1995
	MOD	7255	MOD 91-337 REPLACES SOME RAD MONITOR BULBS	05/22/1995
	MOD	7423	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD D1-92-003. REPLACE 25" MONITORS ON 09-5 W/ 33" MONITORS.	12/04/1995
	MOD	7097	MOD 92-338: RPV WTR LVL COND. CHAMBERS TEMP MONITORS.	02/27/1995
	MOD	7427	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD 92-377. MOD TO RELAY ROOM CO2 SYSTEM.	04/30/1997

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	MOD	7258	MOD 93-086 REMOVES MSL ISOL VLV CLOSURE FUNCTION AND SCRAM FUNCTION FROM MAIN STM RAD MON.	04/11/1995
	MOD	7094	MOD 94-001: RELOCATION OF EPIC POINTS TO THE SEQ OF EVENTS LOG.	10/23/1995
	MOD	7260	MOD 94-057 IMPLEMENTS ELEC. SEPARATION OF CONTROL ROOM VENT INTAKE AIR ISOL VLV 70MOV-108 AND DAMPER 70MOD-15.	08/18/1995
	MOD	7422	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD M1-94-083. REMOVAL OF MAIN TURBINE TURNING GEAR MOTOR FAST SPEED.	12/05/1995
	MOD	7421	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD M1-94-116. RESTORATION OF AUTO-START FUNCTION FOR 70FN-6A&B	12/13/1995
	MOD	7420	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD D1-94-131. ADD RED LINE @ 53 AMPS ON 71AM14A.	12/04/1995
	MOD	7256	MOD 94-133 REMOVES EPIC TREND RECORDER AND RELATED HARDWARE.	04/12/1995
	MOD	7419	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD M1-94-171. MODIFY MAIN TURB GEN VIB TRIP SYS.	12/19/1995
	MOD	7418	PLANT CHANGE REQUIRES IMPLEMENTATION ON THE SIMULATOR - MOD D1-94-174. INSTALLATION OF DC LED LAMPS ON 09-4 PANEL.	07/25/1996
	MOD	7472	PLANT MODIFICATION 94-195 IS INSTALLED IN THE PLANT CONTROL ROOM EMERGENCY VENTILATION DAMPER MODIFICATION.	05/28/1996
	MOD	7491	MODIFICATION 95-090 VALVE POSITION INDICATION LIGHTS FOR 31MOV-RSSV-1	01/29/1996
	MOD	7638	PLANT MODIFICATION 93-038 -- 71KVR-349 TRANSDUCER REPLACEMENT	04/04/1996
	MOD	7640	PLANT MODIFICATION 94-061 -- D/W FLOOR SUMP FLOW INTEGRATOR SUBSTITUTION	06/27/1996

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	MOD	7641	PLANT MODIFICATION 94-112 -- HPCI BOOSTER PUMP IMPELLER SUBSTITUTION	05/20/1996
	MOD	7972	MODIFICATION 94-211 HAS BEEN COMPLETED IN THE PLANT	06/30/1997
	MOD	7643	PLANT MODIFICATION 95-013 -- SUBSTITUTION OF 02-3TE-69J2 FOR RECORDER INPUT IN PLACE OF 02-3TE-69J1	04/12/1996
	MOD	7644	PLANT MODIFICATION 95-034 -- CONTROL ROOM CEILING EGGCRATE SUPPORT ENHANCEMENT	06/25/1997
	MOD	7645	PLANT MODIFICATION 95-058 -- MAIN STEAM RAD MONITOR NOISE SUPPRESSION	04/04/1996
	MOD	8127	MODIFICATION D1-95-088 TO REPLACE GREEN PCIS LAMPS HAS BEEN COMPLETED IN THE PLANT	09/08/1997
	MOD	7974	MODIFICATION 95-131 HAS BEEN COMPLETED IN THE PLANT	05/13/1997
	MOD	8256	MOD 97-056 REPLACES METER SCALES 12- 4FI141A & B 0-120 SCALES WITH 0-130 SCALES.	01/06/1998
	MOD	7971	MODIFICATION 94-031 HAS BEEN COMPLETED IN THE PLANT	12/02/1997
	MOD	7807	POWER UPRATE MOD 96-045 PACKAGE IMPLEMENTATION.	10/06/1997
	MOD	7970	MOD 92-088 HAS BEEN COMPLETED IN PLANT	04/16/1997
	MOD	7637	PLANT MODIFICATION 93-018 -- RWCU PUMP 'B' SEAL COOLER REMOVAL	07/16/1996
	MOD	7642	PLANT MODIFICATION 94-157 -- 94TR-200 REPLACEMENT	04/12/1996
	MOD	7483	IMPLEMENT THE EPIC/LEFM MODIFICATION 95- 056.	06/29/1998
	MOD	7973	MODIFICATION 95-077 HAS BEEN COMPLETED IN THE PLANT	01/26/1998

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	MOD	7734	IMPLEMENT MODIFICATION M1-95-123 EHC PANEL MODIFICATION FOR TEST MONITORING SYSTEM AND POWER UPRATE PROJECT	10/06/1996
	MOD	7913	UPDATE THE 3D-MONICORE REPORTS PERIODIC LOG, CONTROL ROD POSITIONS, AND CORE POWER AND FLOW LOG, AND LPRM READINGS AS SHOWN ON THE ATTACHMENTS. MOD 95-123	06/23/1997
	MOD	7912	UPDATE THE 3D-MONICORE MAIN MENU DISPLAYS IN ACCORDANCE WITH THEIR NEW FORMAT. MOD 95-130	06/16/1997
	MOD	7843	THERMAL STABILTIY/3D MONICORE UPGRADE MOD 95-130	02/19/1998
	MOD	7751	IMPLEMENT NECESSARY CHANGES FOR M1-96-005 REVISED SCALES FOR METER AND RECORDER CHANGES FOR POWER UPRATE.	09/12/1996
	MOD	7975	MODIFICATION 96-018 HAS BEEN COMPLETED IN THE PLANT	06/02/1997
	MOD	7976	MODIFICATION 96-078 HAS BEEN COMPLETED IN THE PLANT	05/05/1997
	MOD	7639	PLANT MODIFICATION 93-093 -- 20LS-355A RX BLDG LEVEL SWITCH SUBSTITUTION	07/16/1996
	MOD	7447	COMPUTER PLATFORM UPGRADE - MASTER CONTROLLER I/O INTERFACE	21-May-96
	MOD	7448	COMPUTER PLATFORM UPGRADE - INSTRUCTOR STATION H/W & S/W INTERFACES	10-Feb-98
	MOD	7449	COMPUTER PLATFORM UPGRADE - EPIC SYSTEM SOFTWARE AND HARDWARE	10-Feb-98
	MOD	7450	COMPUTER PLATFORM UPGRADE - SIMULATION LOAD MODULES	10-Feb-98
	SCR	7575	SET POINT CHANGE TO 02-3 MTU-272A-D	03/26/1996
	SCR	7619	CST LEVEL ALARM SETPOINTS HAVE CHANGED IN PLANT	03/27/1996
	SCR	7261	MOD CHANGES CST TEMP ALARM SETPOINT TO 40 DEG F. PER SCR-JAF-94-0022	04/28/1995

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	SCR	7262	CHANGES 02RV-71A THROUGH 02RV-71L SETPOINTS.	03/17/1995
	SCR	7630	PLANT SETPOINT FOR 33DPS-111 HAS CHANGED	06/07/1996
	SCR	7629	PLANT SETPOINTS FOR 94PNS-101, 102, 103, AND 104 HAVE CHANGED	04/04/1996
	SCR	7618	SETPOINT FOR 23PT-68A,B,C,&D HAS CHANGED IN PLANT	03/26/1996
	SCR	7612	SETPOINT FOR 34PS-137 HAS CHANGED IN THE PLANT	06/18/1996
	SCR	7607	SETPOINT FOR 17RM-150 A & B HAS BEEN CHANGED IN THE PLANT	03/21/1996
	SCR	7576	SET POINT CHANGE TO 76CO2-PNL-1 TIMER	05/21/1996
	SCR	7574	SET POINT CHANGE TO 02-3 MTU-202A-D	03/26/1996
	SCR	7573	SET POINT CHANGES TO 17RM-150A & B	03/21/1996
	SCR	7572	SETPOINT CHANGES TO 17RM-251A-D	03/21/1996
	SCR	7263	MOD IS SETPOINT CHANGE TO 39TS-113A,B,C PER SCR-JAF-94-0027	04/28/1995
	SCR	7264	MOD IS SETPOINT CHANGES FOR RPS EPA UNDER & OVER VOLTAGE, AND UNDER FREQUENCY. -- NORMAL FEED, PER SCR-JAF-94-0036.	04/28/1995
	SCR	7265	MOD IS SETPOINT CHANGE RPS EPA TIME DELAYS ALTERNATE FEED PER SCR-JAF-94-0037	04/28/1995
	SCR	7266	MOD IS SETPOINT CHANGE RPS EPA TIME DELAYS NORMAL FEED PER SCR-JAF-94-0038	04/28/1995
	SCR	7267	MOD IS SETPOINT CHANGE FOR RPS EPA UNDER & OVER VOLTAGE, AND UNDER FREQUENCY. -- ALTERNATE FEED PER SCR-JAF-94-0039	04/28/1995
	SCR	7577	SET POINT CHANGE TO 03DPIS-246	03/21/1996
	SCR	7827	CHANGE 70FN-4A TIME DELAY START LOGIC	05/05/1997
	SCR	7810	RPS EPA UV RELAY SETPOINT CHANGES.	12/16/1996

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	SCR	7811	02-3MTU-255A-D SETPOINT CHANGES.	12/16/1996
	SCR	7812	02MTU-216 THRU 219A-219D.	12/16/1996
	SCR	7813	RX HIGH PRESSURE ALARM SETPOINT CHANGE.	12/16/1996
	SCR	7817	29PNS-80A2,B2,C2,D2 AND 29PNS- 86A2,B2,C2,D2 SETPOINTS HAVE CHANGED FROM 8% TO 7%.	03/17/1997
	SCR	7822	CHANGE VALUES FOR ALERT AND CAUTION ALARMS FOR MAXIMUM RX POWER FOR EPIC POINT 3312	12/23/1996
	SCR	7823	CHANGE VALUES FOR ALERT AND CAUTION ALARMS FOR MAXIMUM RX POWER FOR EPIC POINT 3390	12/23/1996
	SCR	7824	CHANGE HPCI TURBINE MECHANICAL OVERSPEED SETPOINT FOR POWER UPRATE	12/23/1996
	SCR	7731	SETPOINTS FOR 02-MTU-234A-D HAVE BEEN CHANGED IN THE PLANT	10/07/1996
	SCR	7826	CHANGE SRV SETPOINTS FOR UPRATE	12/23/1996
	SCR	7805	72TS-129 THROUGH 132 SETPOINT REVISIONS	03/24/1997
	SCR	7878	SCR-JAF-96-0082 HAS BEEN IMPLEMENTED IN THE PLANT REVISING 71UPS-3UVR SETPOINT	10/06/1997
	SCR	8000	ADD STARTING TIME DELAY SETPOINT FOR 70-62 1CRVA02 .	06/23/1997
	SCR	8001	ADD STARTING TIME DELAY SETPOINT FOR 70-62 1CRVB02 .	06/23/1997
	SCR	8002	ADD STARTING TIME DELAY SETPOINT FOR 70-62 1CRVB04 .	06/23/1997
	SCR	8003	MODIFY LOW OFFGAS FLOW SETPOINT ON INSTRUMENT 01-107FS-108L.	06/23/1997
	SCR	8213	CHANGE SETPOINT OF 29PS-107 FROM 190 PSIG TO 155 PSIG.	08/26/1997
	SCR	8310	SETPOINT CHANGE TO RPS EPA'S	03/13/1998

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	SCR	8313	ADD NEW EPIC ALARM SETPOINTS FOR FW HEATERS.	03/30/1998
	SCR	8348	TIME DELAY SETPOINT FOR CO2 DISCHARGE INTO RELAY ROOM HAS BEEN CHANGED.	06/18/1998
	SCR	7825	CHANGE RCIC TURBINE MECHANICAL OVERSPEED SETPOINT FOR POWER UPRATE	12/23/1996
	SCR	7777	SETPOINT CHANGES FOR 70TS-103.	03/24/1997
	SCR	7730	SETPOINTS FOR 02-3MTU-201A-D HAVE BEEN CHANGED IN THE PLANT	10/06/1996
	SCR	7732	SETPOINTS FOR 33MTU-235A-D, 33PT-135A-D HAVE BEEN CHANGED IN THE PLANT	12/16/1996
	SCR	8396	IMPLEMENT SCR-JAF-97-0014, OFFGAS RECOMBINER LOW FLOW ALARM SETPOINT FROM 12.5 TO 7.5 SCFM.	08/10/1998
	SCR	7745	SETPOINTS FOR 02-3STU-274 A & B HAVE BEEN CHANGED IN THE PLANT	10/07/1996
	SCR	7746	SETPOINTS FOR 02-3MTU-283 A & B HAVE CHANGED IN THE PLANT	10/07/1996
	SCR	7747	PLANT SETPOINTS FOR 02-3MTU-283 C & D HAVE CHANGED IN THE PLANT	10/07/1996
	SCR	7748	PLANT SETPOINTS FOR 02-3MTU-273 & 279 HAVE CHANGED IN THE PLANT	10/07/1996
	SCF	7749	PLANT SETPOINTS FOR 23MTU-276, 23MTU-277, 23STU-278, 23STU-279, 23DPT-76 AND 23DPT-77 HAVE CHANGED IN THE PLANT	10/07/1996
	SCR	7750	SETPOINTS FOR 13MTU-284, 13STU-286, 13DPT 84, 13DPT-83, 13MTU-283 AND 13STU-285 HAVE CHANGED IN PLANT	10/07/1996
	SCR	7809	4 KV DEGRADED VOLTAGE TIME DELAY RELAY SETPOINT CHANGE.	03/17/1997
	SCR	7758	IMPLEMENT REQUIRED CHANGES IAW SCR--96-003	11/25/1996

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TEST LIST CHANGES	TEST TYPE	TEST NUMBER	TEST TITLE	LAST DATE PERFORMED
	SCR	7806	ADD A REMOTE FUNCTION FOR INSTRUCTOR TO CHANGE THE REACTOR HI PR ATWS TRIP FROM THE NORMAL 1139 PSIG TO 1104 PSIG IN THE CASE WHERE TWO OR MORE SRV'S ARE INOPERABLE.	12/16/1996
	SCR	7778	SETPOINT CHANGES FOR 23MTU-277, 23STU-279, 13MTU-284 AND 13STU-286.	09/25/1997
	SCR	7779	CRESCENT AREA UNIT COOLER LOW TEMP ALARM SETPOINT REVISIONS.	03/19/1997
	SCR	7780	37TICS-101SETPOINT CHANGE.	03/24/1997
	SCR	7800	70TS-103 SETPOINT REVISION	03/19/1997
	SCR	7801	CRESCENT AREA UNIT COOLER LOW TEMPERATURE ALARM SETPOINT REVISION	03/19/1997
	SCR	7802	37TICS-101 SETPOINT REVISION	03/19/1997
	SCR	7803	07SRM-40A-D SETPOINT REVISION	06/02/1997
	SCR	7804	72TS-122A/B SETPOINT REVISION	03/24/1997
	SCR	7729	SETPOINTS FOR 27RM-104A&B HAVE BEEN CHANGED IN THE PLANT	03/19/1997
	SCR	7753	SETPOINTS FOR 66TS-107A, B, C, D, G, H, J, & K HAVE CHANGED IN THE PLANT	03/31/1997

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
STEADY STATE	SS-01	25% Rated Thermal Power	ANNUALLY
STEADY STATE	SS-02	75% Rated Thermal Power	ANNUALLY
STEADY STATE	SS-03	100% Rated Thermal Power Stability Test	ANNUALLY
TRANSIENT TEST	TT01	Manual RX Scram	ANNUALLY
TRANSIENT TEST	TT02	Trip All Feedwater Pumps	ANNUALLY
TRANSIENT TEST	TT03	Closure of All MSIVs	ANNUALLY
TRANSIENT TEST	TT04	Trip of Both Recirc Pumps	ANNUALLY
TRANSIENT TEST	TT05	Single Recirc Pump Trip	ANNUALLY
TRANSIENT TEST	TT06	Main Turbine Trip (No Scram)	ANNUALLY
TRANSIENT TEST	TT07	Max Rate Power Ramp	ANNUALLY
TRANSIENT TEST	TT08	DBA LOCA With Loss of Off-site Power	ANNUALLY
TRANSIENT TEST	TT09	Main Steam Line Rupture	ANNUALLY
TRANSIENT TEST	TT10	Closure of All MSIVs With Stuck Open Relief Valve	ANNUALLY
MALFUNCTION TEST	AD01	ADS Timer Fails to Start	Year 1
MALFUNCTION TEST	AD02	ADS Inadvertent Timer and Logic Start	Year 4
MALFUNCTION TEST	AD03:A-H	ADS Valve(s) Fail to Initiate Automatically	Year 4
MALFUNCTION TEST	AD04:A-K	RX Press Relief Valve Solenoid Failure	Year 4

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	AD05:A-K	RX Press Relief Valve Leak	Year 4
MALFUNCTION TEST	AD06:A-K	RX Press Relief Valve Inadvertently Opens	Year 4
MALFUNCTION TEST	AD07:A-K	PX Press Relief Valve Fails to Open	Year 4
MALFUNCTION TEST	AD08:A-K	RX Press Relief Valve Stuck Open	Year 1
MALFUNCTION TEST	AD09:A-K	RX SRV Vacuum Breaker Stuck Open	Year 4
MALFUNCTION TEST	AN01:A,B	Control Room Annunciator Power Failure	Year 3
MALFUNCTION TEST	CS01:A,B	Core Spray Pump Trip	Year 4
MALFUNCTION TEST	CS02:A,B	Core Spray Injection Valve Fails to Auto Open	Year 4
MALFUNCTION TEST	CS03:A,B	Core Spray Torus Suction Fails Closed	Year 4
MALFUNCTION TEST	CS04:A,B	Core Spray Injection Line Break (non-recoverable)	Year 4
MALFUNCTION TEST	CS05:A,B	Core Spray Torus Suction Line Pipe Failure	Year 1
MALFUNCTION TEST	CU01	RWCU Flow Control Failure	Year 1
MALFUNCTION TEST	CU02:A,B	RWCU Pump Trip	Year 1
MALFUNCTION TEST	CU03:A,B	Tube Leak in RWCU HX (non-recoverable)	Year 1
MALFUNCTION TEST	CU04:A,B	RWCU Resin Intrusion	Year 1
MALFUNCTION TEST	CU06	RWCU Inadvertent Isolation	Year 1
MALFUNCTION TEST	CU07	RWCU Pipe Break Between 12MOV-15 and 12MOV-18	Year 1

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	CU08	RWCU Return Temperature Transmitter Failure	Year 1
MALFUNCTION TEST	CU09	RWCU Inlet Pipe Failure (non-recoverable)	Year 1
MALFUNCTION TEST	CU10	RWCU Valve 12MOV-18 Fails To Auto Isolate	Year 1
MALFUNCTION TEST	DG01:A-D	EDG Fails to Start	Year 1
MALFUNCTION TEST	DG02:A-D	EDG Fails to Trip	Year 1
MALFUNCTION TEST	DG03:A-D	EDG Output Breaker Fails to Auto Close	Year 1
MALFUNCTION TEST	DG04:A-D	EDG Trip	Year 1
MALFUNCTION TEST	DG05:A-D	EDG Voltage Regulator Oscillations	Year 1
MALFUNCTION TEST	DG06:A-D	EDG Slow to Start	Year 1
MALFUNCTION TEST	DG07:A-D	EDG Governor Fails High	Year 1
MALFUNCTION TEST	DG08:A-D	EDG Governor Fails Low	Year 1
MALFUNCTION TEST	ED01:A,B	345/24KV Transformer (T1A, T1B) Failure	Year 1
MALFUNCTION TEST	ED02:A,B	115/4KV Transformer (T2, T3) Failure	Year 1
MALFUNCTION TEST	ED03:A-D	4KV/600V Transformer (T13, T14, T15, T16) Failure	Year 1
MALFUNCTION TEST	ED04:A,B	Inverter (71INV-3A/B) Failure	Year 1
MALFUNCTION TEST	ED05:A-H	4KV/600V Transformer (T5, T6, T7, T8, T9, T10,	Year 1

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	ED06A	120VAC Bus (RBACA5) Failure	Year 1
MALFUNCTION TEST	ED06B	120VAC Bus (TBACA6) Failure	Year 1
MALFUNCTION TEST	ED06C	120VAC Bus (SWACA7) Failure	Year 1
MALFUNCTION TEST	ED06D	120VAC Bus (RBACB5) Failure	Year 1
MALFUNCTION TEST	ED06E	120VAC Bus (TBACB6) Failure	Year 1
MALFUNCTION TEST	ED06F	120VAC Bus (RWACB7) Failure	Year 1
MALFUNCTION TEST	ED07A	120VAC Bus (RRACA8) Failure	Year 1
MALFUNCTION TEST	ED07B	120VAC Bus (RRACB8) Failure	Year 1
MALFUNCTION TEST	ED07C	120VAC Bus (RBACC5) Failure	Year 1
MALFUNCTION TEST	ED07D	120VAC Bus (TBACC6) Failure	Year 1
MALFUNCTION TEST	ED07E	120VAC Bus (SWACC7) Failure	Year 1
MALFUNCTION TEST	ED07F	120VAC Bus (RBACD5) Failure	Year 1
MALFUNCTION TEST	ED07G	120VAC Bus (TBACD6) Failure	Year 1
MALFUNCTION TEST	ED07I	120VAC Bus (RBACE5) Failure	Year 1
MALFUNCTION TEST	ED07J	120VAC Bus (71ABAC1) Failure	Year 1
MALFUNCTION TEST	ED07K	120VAC Bus (71ACNMS) Failure	Year 1
MALFUNCTION TEST	ED07L	120VAC Bus (71ACNMS-A) Failure	Year 1

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	ED07M	120VAC Bus (71ACNMS-B) Failure	Year 1
MALFUNCTION TEST	ED08	120V/240VAC Bus (71AC9/71AC10) Failure	Year 1
MALFUNCTION TEST	ED09:A,B	UPS MG Drive Failure (AC/DC)	Year 1
MALFUNCTION TEST	ED10	120VAC UPS Bus (71ACUPS) Failure	Year 2
MALFUNCTION TEST	ED11A	125VDC Bus A (71BCB-2A) Failure	Year 1
MALFUNCTION TEST	ED11B	125VDC Bus B (71BCB-2B) Failure	Year 1
MALFUNCTION TEST	ED12:A,B	125VDC Bus Battery Charger Failure	Year 1
MALFUNCTION TEST	ED13	24VDC Bus A(B) System Failure	Year 1
MALFUNCTION TEST	ED14:A,B	24VDC Battery Charger Failure	Year 1
MALFUNCTION TEST	ED15	24KV/4KV Transformer T4 Failure	Year 1
MALFUNCTION TEST	ED16	Power Grid Transient With Load Increasing/Decreasing	Year 2
MALFUNCTION TEST	ED17	Station Blackout	Year 2
MALFUNCTION TEST	ED18:A,B	4.16KV Emergency Bus (10500, 10600) Failure	Year 2
MALFUNCTION TEST	ED19:A-E	4.16KV Normal Bus (10100, 10200, 10300, 10400,	Year 2
MALFUNCTION TEST	ED20:A-H	600VAC Bus (11300, 11400, 12300, 12400, 13300,	Year 2
MALFUNCTION TEST	ED21:A-D	600VAC Emergency Bus (11500, 12500, 11600, 12600)	Year 2

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	ED22:A-C	600VAC Normal Bus (113100, 113200, 113300) Failure	Year 1
MALFUNCTION TEST	ED23:A-C	600VAC Normal Bus (114100, 114200, 114300) Failure	Year 1
MALFUNCTION TEST	ED24:A-D	600VAC Emergency Bus (115100, 115200, 115300, 115600)	Year 1
MALFUNCTION TEST	ED25:A-F	600VAC Bus (116100, 116200, 116300, 116400, 116500,	Year 2
MALFUNCTION TEST	ED26:A,B	600VAC Bus (123100, 123200) Failure	Year 1
MALFUNCTION TEST	ED27:A,B	600VAC Bus (124100, 124200) Failure	Year 1
MALFUNCTION TEST	ED28:A-D	600VAC Bus (125100, 125200, 125300, 125400) Failure	Year 2
MALFUNCTION TEST	ED29:A-D	600VAC Emergency Bus (126100, 126200, 126300, 126400)	Year 2
MALFUNCTION TEST	ED30:A-D	600VAC Bus (133100, 133200, 133300, 133400) Failure	Year 1
MALFUNCTION TEST	ED31:A-D	600VAC Bus (134100, 134200, 134300, 134400) Failure	Year 1
MALFUNCTION TEST	ED32:A-E	600VAC Bus (143100, 143200, 143300, 143400, 143500)	Year 2
MALFUNCTION TEST	ED33:A-E	600VAC Bus (144100, 144200, 144300, 144400, 144500)	Year 2
MALFUNCTION TEST	ED34A	120VAC Bus RPS-A Failure	Year 1
MALFUNCTION TEST	ED34B	120VAC Bus RPS-B Failure	Year 1
MALFUNCTION TEST	ED35A	120VAC Bus (71ESSA1) Failure	Year 1
MALFUNCTION TEST	ED35B	120VAC Bus (71ESSB1) Failure	Year 1
MALFUNCTION TEST	ED36A	120VAC Bus (71ACA2) Failure	Year 1

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	ED36B	120VAC Bus (71ACA3) Failure	Year 1
MALFUNCTION TEST	ED36C	120VAC Bus (71ACA4) Failure	Year 1
MALFUNCTION TEST	ED36D	120VAC Bus (71ACB2) Failure	Year 1
MALFUNCTION TEST	ED36E	120VAC Bus (71ACB3) Failure	Year 1
MALFUNCTION TEST	ED36F	120VAC Bus (71ACB4) Failure	Year 1
MALFUNCTION TEST	ED37A:1-5	125VDC Bus (71DC-A) Failure	Year 1
MALFUNCTION TEST	ED37B:1-5	125VDC Bus (71DC-B) Failure	Year 1
MALFUNCTION TEST	ED38:A-E	125VDC Bus (71BMCC) Failure	Year 4
MALFUNCTION TEST	ED39:A-G	125VDC Control Power Failure To 4160V Busses	Year 4
MALFUNCTION TEST	ED40:A-L	125VDC Control Power Failure To 600V Busses	Year 1
MALFUNCTION TEST	ED41	Failure To Fast Transfer With A Normal Residual Transfer	Year 2
MALFUNCTION TEST	ED42	Failure To Fast Transfer With A Loss of RPS	Year 2
MALFUNCTION TEST	ED43	Loss of Affected 115KV Line	Year 2
MALFUNCTION TEST	ED44	Loss of Station Reserve Power	Year 2
MALFUNCTION TEST	EG01	Main Generator Trip	Year 2
MALFUNCTION TEST	EG02A	Main Generator Field Breaker Fails to Close	Year 1

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	EG02B	Main Generator Field Breaker Fails to Open	Year 1
MALFUNCTION TEST	EG03:A,B	Loss of Isolated Phase Bus Cooling Fan	Year 1
MALFUNCTION TEST	EG04	Main Generator Field Brushes Ground	Year 2
MALFUNCTION TEST	EG05	Main Generator Stator Temp High	Year 1
MALFUNCTION TEST	EG06	Generator Hydrogen Cooling System Leakage	Year 2
MALFUNCTION TEST	EG07	Hydrogen Seal Oil System Failure	Year 2
MALFUNCTION TEST	EG08	Main Generator Auto V/R Fails	Year 2
MALFUNCTION TEST	EG09	Main Generator Auto V/R Failure Complete	Year 2
MALFUNCTION TEST	EG10	Loss of Stator Cooling Water Flow	Year 2
MALFUNCTION TEST	EG11	Main H2 Seal Oil Pump Trip	Year 4
MALFUNCTION TEST	EG12	Emergency Seal Oil Pump Auto Start Failure	Year 4
MALFUNCTION TEST	FP01:A-D	EDG Rm Fire	Year 3
MALFUNCTION TEST	FP02	Smoke - Zone 01 through Zone 82	Year 3
MALFUNCTION TEST	FW01:A,B	RX Feedwater Pump Trip	Year 2
MALFUNCTION TEST	FW02A:A,B	RX Feedwater Pump Recirc Valve Fails Open	Year 2
MALFUNCTION TEST	FW02B:A,B	RX Feedwater Pump Recirc Valve Fails Closed	Year 2
MALFUNCTION TEST	FW03:A,B	RX Feedwater Pump Auto Controller Failure	Year 2

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	FW04:A, B	RX Feedwater Pump Manual Controller Failure	Year 2
MALFUNCTION TEST	FW05:A, B	RX Feedwater Pump High Vibration	Year 2
MALFUNCTION TEST	FW06:A, B	RX Feedwater Pump Coupling Failure	Year 2
MALFUNCTION TEST	FW07:A, B	RX Feedwater Pump Discharge Valve Seat Failure	Year 2
MALFUNCTION TEST	FW08	Master Feedwater Flow Control Auto Failure	Year 2
MALFUNCTION TEST	FW09	Master Feedwater Flow Control Manual Failure	Year 2
MALFUNCTION TEST	FW10	Master Feedwater Flow Control Oscillates	Year 2
MALFUNCTION TEST	FW13:A, B	Feedwater System 6th Point Heater Tube Leak	Year 2
MALFUNCTION TEST	FW14:A, B	Feedwater System 5th Point Heater Tube Leak	Year 3
MALFUNCTION TEST	FW15:A, B	Feedwater System 4th Point Heater Tube Leak	Year 3
MALFUNCTION TEST	FW16:A, B	Feedwater System 3rd Point Heater Tube Leak	Year 3
MALFUNCTION TEST	FW17:A, B	Feedwater System 2nd Point Heater Tube Leak	Year 3
MALFUNCTION TEST	FW18:A, B	Feedwater System Drain Cooler Tube Leak	Year 3
MALFUNCTION TEST	FW19:A-E	Condensate Pump Trip	Year 3
MALFUNCTION TEST	FW22:A, B	CST Leak Manway Flange Failure	Year 2
MALFUNCTION TEST	FW23:A-D	High Pressure Heater Level Control Failure	Year 3

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	FW24:A, B	RX Feedwater Pump Loss of Oil Pressure	Year 3
MALFUNCTION TEST	FW25:A-C	Condensate Booster Pump Trip	Year 3
MALFUNCTION TEST	FW26:A, B	Condensate Transfer Pump Trip	Year 2
MALFUNCTION TEST	FW27:A, B	Feedwater Line Break Inside Primary Containment	Year 3
MALFUNCTION TEST	FW28:A, B	Feedwater Line Break Outside Primary Containment	Year 3
MALFUNCTION TEST	FW29:A, B	Feedwater Line Inboard Containment Check Valve	Year 3
MALFUNCTION TEST	FW31	Condensate Booster Pmp A Auto Start Failure	Year 1
MALFUNCTION TEST	FW32	Feedwater Heater Loop Seal Drain Blockage	Year 3
MALFUNCTION TEST	HP01	HPCI Failure to Auto Start	Year 2
MALFUNCTION TEST	HP02	HPCI Turbine Trip	Year 2
MALFUNCTION TEST	HP03	HPCI Discharge Line Break (non-recoverable)	Year 2
MALFUNCTION TEST	HP04	HPCI Flow Controller Auto Output Failure	Year 2
MALFUNCTION TEST	HP05	HPCI Inadvertent Initiation	Year 2
MALFUNCTION TEST	HP06	HPCI Steam Line Break (non-recoverable)	Year 2
MALFUNCTION TEST	HP07	HPCI Valve 23MOV-19 Fails to Auto Open	Year 2
MALFUNCTION TEST	HP08	HPCI Turbine Exhaust Piping Failure	Year 2
MALFUNCTION TEST	HP09	HPCI Torus Suction Pipe Failure (non-recoverable)	Year 2

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	HP10	HPCI System Auto Isolation Failure	Year 1
MALFUNCTION TEST	HP11	HPCI 23MOV-15 Auto Isolation Failure	Year 1
MALFUNCTION TEST	HP12	HPCI High Rx Water Lvl Trip Failure	Year 1
MALFUNCTION TEST	HV01:A-C	Rx Bldg Supply Fan Trip	Year 2
MALFUNCTION TEST	HV02:A,B	Rx Bldg Exhaust Fan Trip	Year 2
MALFUNCTION TEST	HV03	Secondary Containment Leakage	Year 2
MALFUNCTION TEST	IA01	Loss of Air Pressure to Scram Air Header	Year 2
MALFUNCTION TEST	IA02	Loss of Instrument Air	Year 2
MALFUNCTION TEST	IA03:A-C	Air Compressor Trip	Year 2
MALFUNCTION TEST	IA04	Serv Air Comp A Auto Start on Low Inst Air Hdr Press Fail	Year 1
MALFUNCTION TEST	MC01	Main Condenser Air In-Leakage	Year 2
MALFUNCTION TEST	MC02:A-D	Main Condenser Tube Leak	Year 2
MALFUNCTION TEST	MC03:A-D	Main Condenser Water Box Flow Block	Year 2
MALFUNCTION TEST	MC04	SJAE Steam Supply Valve Fails	Year 2
MALFUNCTION TEST	MC05:A-C	Circulating Water Pump Trip	Year 2
MALFUNCTION TEST	MC06	Air Ejector Condenser High Level	Year 3

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	MC07:A-C	Circ Water Pump Discharge Valve Fails to Close	Year 2
MALFUNCTION TEST	MC08:A-C	Circ Water Pump Discharge Valve Fails to Open	Year 2
MALFUNCTION TEST	MC09:A-D	Loss of Condenser Water Box Vacuum Priming	Year 2
MALFUNCTION TEST	MC10	Water Icing in Intake Structure	Year 2
MALFUNCTION TEST	MS01:A,B	Main Steam Header Press Xmtr Failure	Year 2
MALFUNCTION TEST	MS02:A-D	Steam Leakage Inside Primary Containment	Year 3
MALFUNCTION TEST	MS03:A-D	Main Steam Line Rupture Inside Primary	Year 3
MALFUNCTION TEST	MS04:A-D	Main Steam Line Rupture Outside Primary	Year 3
MALFUNCTION TEST	MS05	Steam Leak Outside Primary Containment	Year 3
MALFUNCTION TEST	MS06	Steam Seal Pressure Regulator Fails	Year 2
MALFUNCTION TEST	MS07:A-H	MSIV Disc Separates from Stem (non-recoverable)	Year 2
MALFUNCTION TEST	MS08A:A-H	MSIV Fails Closed	Year 2
MALFUNCTION TEST	MS08B:A-H	MSIV Fails Open	Year 2
MALFUNCTION TEST	MS09:A,B	First Stage Reheat Steam Supply to MSR Fails	Year 2
MALFUNCTION TEST	MS10:A-H	MSIV Slow Test Closure Time	Year 2
MALFUNCTION TEST	MS11:A,B	Second Stage Reheat Steam Supply to MSR Fails	Year 2
MALFUNCTION TEST	MS12:A-D	Moisture Separator Drain Tank Level Control	Year 3

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	MC07:A-C	Circ Water Pump Discharge Valve Fails to Close	Year 2
MALFUNCTION TEST	MC08:A-C	Circ Water Pump Discharge Valve Fails to Open	Year 2
MALFUNCTION TEST	MC09:A-D	Loss of Condenser Water Box Vacuum Priming	Year 2
MALFUNCTION TEST	MC10	Water Icing in Intake Structure	Year 2
MALFUNCTION TEST	MS01:A,B	Main Steam Header Press Xmtr Failure	Year 2
MALFUNCTION TEST	MS02:A-D	Steam Leakage Inside Primary Containment	Year 3
MALFUNCTION TEST	MS03:A-D	Main Steam Line Rupture Inside Primary	Year 3
MALFUNCTION TEST	MS04:A-D	Main Steam Line Rupture Outside Primary	Year 3
MALFUNCTION TEST	MS05	Steam Leak Outside Primary Containment	Year 3
MALFUNCTION TEST	MS06	Steam Seal Pressure Regulator Fails	Year 2
MALFUNCTION TEST	MS07:A-H	MSIV Disc Separates from Stem (non-recoverable)	Year 2
MALFUNCTION TEST	MS08A:A-H	MSIV Fails Closed	Year 2
MALFUNCTION TEST	MS08B:A-H	MSIV Fails Open	Year 2
MALFUNCTION TEST	MS09:A,B	First Stage Reheat Steam Supply to MSR Fails	Year 2
MALFUNCTION TEST	MS10:A-H	MSIV Slow Test Closure Time	Year 2
MALFUNCTION TEST	MS11:A,B	Second Stage Reheat Steam Supply to MSR Fails	Year 2
MALFUNCTION TEST	MS12:A-D	Moisture Separator Drain Tank Level Control	Year 3

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	MS13:A-D	First Stage Reheat Drain Tank Level Control	Year 3
MALFUNCTION TEST	MS14:A-D	Second Stage Reheat Drain Tank Level Control	Year 3
MALFUNCTION TEST	MS15:A-J	Loss of Feedwater Extraction Steam	Year 3
MALFUNCTION TEST	MS16:A-L	SRV Discharge Line Break Above Torus Water Level	Year 2
MALFUNCTION TEST	NM01:A-D	SRM Channel Failure	Year 2
MALFUNCTION TEST	NM02:A,B	SRM Channel Recorder Failure	Year 2
MALFUNCTION TEST	NM03:A-D	SRM Channel Inoperative	Year 2
MALFUNCTION TEST	NM04:A-D	SRM Channel Detector Stuck	Year 2
MALFUNCTION TEST	NM05:A-D	SRM Channel Retract Permit Failure	Year 2
MALFUNCTION TEST	NM06:A-H	IRM Channel Failure	Year 2
MALFUNCTION TEST	NM07:A-H	IRM/APRM-RBM Channel Recorder Failure	Year 3
MALFUNCTION TEST	NM08:A-H	IRM Channel Inoperative	Year 2
MALFUNCTION TEST	NM09:A-H	IRM Channel Detector Stuck	Year 2
MALFUNCTION TEST	NM10:A-H	IRM Channel Retract Permit Failure	Year 2
MALFUNCTION TEST	NM11:XXYYZZ	LPRM (XX-YY-ZZ) Failure	Year 2
MALFUNCTION TEST	NM12:A,B	RBM Channel Failure	Year 2

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	NM13:A,B	RBM Channel Inoperative	Year 2
MALFUNCTION TEST	NM14:A-F	APRM Channel Failure	Year 2
MALFUNCTION TEST	NM15:A-F	APRM Channel Inoperative	Year 2
MALFUNCTION TEST	OG01	Off Gas Condenser High Level	Year 3
MALFUNCTION TEST	OG02	Off Gas Drain Pot High Level	Year 3
MALFUNCTION TEST	OG03	Explosion in Air Ejector Discharge	Year 3
MALFUNCTION TEST	OG04	Fire in Air Ejector	Year 3
MALFUNCTION TEST	OG05	Recombiner Trip	Year 4
MALFUNCTION TEST	OG06	Stack Isolation Valve Fails Closed	Year 4
MALFUNCTION TEST	OG07	Off Gas 01-107AOV-100 Auto Isolation Failure	Year 1
MALFUNCTION TEST	PC01	Containment Vent Purge Fan Trip	Year 3
MALFUNCTION TEST	PC02	Loss of Instrument Nitrogen	Year 3
MALFUNCTION TEST	PC03:A-H	Drywell Cooling Fan Trip	Year 3
MALFUNCTION TEST	PC04:A,B	SBGT Fan Trip	Year 3
MALFUNCTION TEST	PC05	Containment Pressure Transmitter Failure	Year 3
MALFUNCTION TEST	PC06	Torus Drywell Vacuum Breaker 27VB-1 Fails to Close	Year 3
MALFUNCTION TEST	PC07	Primary Containment Leakage (non-recoverable)	Year 3

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	PC08	Primary Containment Hydrogen High	Year 3
MALFUNCTION TEST	PC09	Primary Containment Oxygen High	Year 3
MALFUNCTION TEST	PC10	Torus Level Decreases (non-recoverable)	Year 3
MALFUNCTION TEST	RC01:A,B	RCIC Turbine Loss of Oil Pressure	Year 3
MALFUNCTION TEST	RC02	RCIC System Fails to Auto Start	Year 3
MALFUNCTION TEST	RC03	RCIC System Turbine Trip	Year 3
MALFUNCTION TEST	RC04	RCIC Turbine Failure to Auto Trip	Year 3
MALFUNCTION TEST	RC05	RCIC System Isolation	Year 3
MALFUNCTION TEST	RC06	RCIC Inadvertent Initiation	Year 3
MALFUNCTION TEST	RC07:A,B	RCIC Governor Fails High/Low (HSS/LSS)	Year 3
MALFUNCTION TEST	RC09	RCIC Steam Line Break (non-recoverable)	Year 4
MALFUNCTION TEST	RC10	RCIC Discharge Line Break (non-recoverable)	Year 3
MALFUNCTION TEST	RC11	RCIC Turbine Exhaust Pipe Failure (non-recoverable)	Year 3
MALFUNCTION TEST	RC12	RCIC Isolation Relay, 13A-K15, Failure	Year 1
MALFUNCTION TEST	RC13	RCIC High Rx Water Lvl Shutdown Failure	Year 1
MALFUNCTION TEST	RD01A:A-H	SDV Vent or Drain Valve Fails Open	Year 4

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	RD01B:A-H	SDV Vent or Drain Valves Fail Closed	Year 3
MALFUNCTION TEST	RD03:A,B	CRD Flow Control Valve Failure	Year 3
MALFUNCTION TEST	RD04:A,B	CRD Drive Water Filter Clogging	Year 3
MALFUNCTION TEST	RD05:A,B	CRD Stabilizing Valves Fail Closed	Year 3
MALFUNCTION TEST	RD06:A,B	CRD Hydraulic Pump Trip	Year 3
MALFUNCTION TEST	RD07:***	Control Rod (XX-YY) Drift-In	Year 3
MALFUNCTION TEST	RD08:***	Control Rod (XX-YY) Drift-Out	Year 3
MALFUNCTION TEST	RD09:***	Control Rod (XX-YY) Accumulator Trouble	Year 4
MALFUNCTION TEST	RD10:***	Control Rod (XX-YY) Blade Stuck	Year 3
MALFUNCTION TEST	RD11:***	Control Rod (XX-YY) Uncoupled	Year 3
MALFUNCTION TEST	RD12:***	Control Rod (XX-YY) Scrammed	Year 3
MALFUNCTION TEST	RD13:***	Control Rod (XX-YY) Fail to Scram	Year 3
MALFUNCTION TEST	RD14:***	Control Rod (XX-YY) RPIS Failure	Year 3
MALFUNCTION TEST	RD15	Rod Drive Control System Timer Fail	Year 4
MALFUNCTION TEST	RD16	Rod Position Info System Total Failure	Year 3
MALFUNCTION TEST	RD17:***	Control Rod (XX-YY) High Temperature	Year 3
MALFUNCTION TEST	RD18:A,B	Scram Discharge Volume Rupture (non-recoverable)	Year 4

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	RD19:A,B	CRD Suction Filter Hi Delta-Pressure	Year 4
MALFUNCTION TEST	RD20:***	Line Break CRD HCU (XX-YY) (non-recoverable)	Year 4
MALFUNCTION TEST	RD21:***	Leaking Control Rod Withdraw SOV	Year 4
MALFUNCTION TEST	RD22	Scram Discharge Volume Hydraulic Lock	Year 1
MALFUNCTION TEST	RH01:A-D	RHR Pump Trip	Year 3
MALFUNCTION TEST	RH03:A,B	RHR Heat Exchange Tube Leak (non-recoverable)	Year 4
MALFUNCTION TEST	RH04A:A,B	LPCI Injection Valve Fails Closed	Year 3
MALFUNCTION TEST	RH04B:A,B	LPCI Injection Valve Fails Open	Year 3
MALFUNCTION TEST	RH05:A-D	RHR Pump Discharge Leak (non-recoverable)	Year 3
MALFUNCTION TEST	RH06	RHR/SDC Valve 10MOV-18 Fails	Year 3
MALFUNCTION TEST	RH07	RHR/SDC Valve 10MOV-17 Fails	Year 3
MALFUNCTION TEST	RH08:A-D	RHR Pump SDC Suction Valve Fails Closed	Year 3
MALFUNCTION TEST	RH09:A,B	LPCI - Injection Line Failure (non-recoverable)	Year 3
MALFUNCTION TEST	RH10:A,B	RHR Loop Suction Line Piping Failure	Year 4
MALFUNCTION TEST	RH14	LPCI Failure to Auto Initiate	Year 3
MALFUNCTION TEST	RH15	RHR/SDC Valve 10MOV-17(18) Auto Isolation Failure	Year 1

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	RH16	RHR Pump Motor Winding Temperatures High	Year 3
MALFUNCTION TEST	RM01A:1-5	Process Rad Mon Failure	Year 3
MALFUNCTION TEST	RM01B:1-4	Process Rad Mon Failure	Year 3
MALFUNCTION TEST	RM01C:1-7	Process Rad Mon Failure	Year 3
MALFUNCTION TEST	RM01D:1-8	Process Rad Mon Failure	Year 3
MALFUNCTION TEST	RM01E:1-7	Process Rad Mon Failure	Year 3
MALFUNCTION TEST	RM02A:1-10	ARM Failure	Year 3
MALFUNCTION TEST	RM02B:11-20	ARM Failure	Year 3
MALFUNCTION TEST	RM02C:21-30	ARM Failure	Year 3
MALFUNCTION TEST	RP01A	RPS Auto Scram Failure	Year 3
MALFUNCTION TEST	RP01B	RPS Manual Scram Failure	Year 3
MALFUNCTION TEST	RP02	Inadvertent Reactor Scram	Year 3
MALFUNCTION TEST	RP03	Inadvertent Group I Isolation	Year 3
MALFUNCTION TEST	RP04	Inadvertent Group II Isolation	Year 3
MALFUNCTION TEST	RP05:A,B	RPS M-G Set Trip	Year 3
MALFUNCTION TEST	RP06:A,B	RPS Electrical Protection Assembly Trip	Year 3
MALFUNCTION TEST	RP07:A-D	Control Rod Group Fail to Scram	Year 3

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	RP08:A-D	Control Rod Group (1,2,3,4) Scram	Year 4
MALFUNCTION TEST	RP09	ARI Fails to Actuate	Year 4
MALFUNCTION TEST	RP10	PCIS Group III Low Rx Water Lvl Isolation Failure	Year 1
MALFUNCTION TEST	RP11	PCIS Group II Isolation Failure	Year 1
MALFUNCTION TEST	RP12	PCIS Group I Inboard(Outboard) MSIV Isolation Failure	Year 1
MALFUNCTION TEST	RP13	PCIS Group I Isolation Failure	Year 1
MALFUNCTION TEST	RR01:A, B	RWR Pump/Gen Field Breaker Trip	Year 4
MALFUNCTION TEST	RP02:A, B	RWR Pump Control Signal Failure Scoop Tube Lock	Year 4
MALFUNCTION TEST	RR03:A, B	RWR Pump Incomplete Start Sequence	Year 4
MALFUNCTION TEST	RR04:A, B	RWP Pump #1 Seal Failure (non-recoverable)	Year 4
MALFUNCTION TEST	RR05:A, B	RWR Pump #2 Seal Failure (non-recoverable)	Year 1
MALFUNCTION TEST	RR07:A-H	RWR Loop Flow Transmitter Fails	Year 4
MALFUNCTION TEST	RR08:A-T	Jet Pump Failure (non-recoverable)	Year 4
MALFUNCTION TEST	RR10:A, B	RWR System MG Flow Controller Failure	Year 4
MALFUNCTION TEST	RP11:A, B	RWR Pump Shaft Binding	Year 4
MALFUNCTION TEST	RR12:A, B	RWR Pump Drive Motor Breaker Trip	Year 4

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	RR13:A-C	ATWS System Fails to Initiate RWR Pump Trip	Year 4
MALFUNCTION TEST	RR14:A,B	RWR Loop Rupture (DBA) (non-recoverable)	Year 4
MALFUNCTION TEST	RR15:A,B	RWR Coolant Leakage Inside Primary Containment	Year 4
MALFUNCTION TEST	RR16:A,B	Reactor Vessel Wide Range Level Transmitter Fails	Year 4
MALFUNCTION TEST	RR17:A,B	Reactor Vessel Fuel Zone Level Failure	Year 4
MALFUNCTION TEST	RR18	Refuel Water Level Indicator Fails	Year 4
MALFUNCTION TEST	RR19:A-D	Rx Vessel Lvl Transmitter To FW Lvl Control	Year 4
MALFUNCTION TEST	RR20:A,B	Loss Pressure Compensation to Feedwater Control	Year 4
MALFUNCTION TEST	RR21:A-D	Loss of Pressure Compensation to Feedwater	Year 4
MALFUNCTION TEST	RR22	Reactor Vessel Scram Level Transmitter Failure	Year 4
MALFUNCTION TEST	RR23:A-D	RWR Flow Unit Failure	Year 4
MALFUNCTION TEST	RR24:A-D	Jet Pump Summer Failure	Year 4
MALFUNCTION TEST	RR25:A,B	Core Spray Pipe Break Inside Downcomer	Year 4
MALFUNCTION TEST	RR26	Unexplained Reactivity Change (non-recoverable)	Year 4
MALFUNCTION TEST	RR27:A,B	Rx Level Narrow Range Reference Leg De-Gassing	Year 4
MALFUNCTION TEST	RR28	Rx Level Narrow Range Reference Legs Severe	Year 4
MALFUNCTION TEST	RR29	Reactor Vessel NR Lvl Transmitter Fails	Year 1

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	RR30	RWR MG Set Drive Motor Breaker Trip Failure	Year 1
MALFUNCTION TEST	RR31	Reactor Vessel Wide Range Level Transmitter Fails	Year 1
MALFUNCTION TEST	RW01	Rod Worth Minimizer Failure	Year 4
MALFUNCTION TEST	RX01	Fuel Cladding Failure	Year 1
MALFUNCTION TEST	RX02:XX:YY	Increased Rod Worth (XX-YY)	Year 4
MALFUNCTION TEST	RX03	Core Thermal Hydraulic Instability	Year 4
MALFUNCTION TEST	SL01:A,B	Standby Liquid Control Pump Breaker Trip	Year 4
MALFUNCTION TEST	SL02:A,B	Standby Liquid Control Squib Valve Fails to Open	Year 4
MALFUNCTION TEST	SL03:A,B	SLC Pump Relief Valve Lifts	Year 4
MALFUNCTION TEST	SL04	Standby Liquid Control Squib Valve Loss of Continuity	Year 4
MALFUNCTION TEST	SW01:A,B	Loss of RBCLC Flow to RWR	Year 4
MALFUNCTION TEST	SW02:A-C	TBCLC Hx Cooling Water Blockage	Year 4
MALFUNCTION TEST	SW03:A-C	RBCLC Hx Cooling Water Blockage	Year 4
MALFUNCTION TEST	SW04:A-D	RHR Service Water Pump Trip	Year 4
MALFUNCTION TEST	SW05:A-C	Service Water Pump Trip	Year 4
MALFUNCTION TEST	SW06:A,B	RHR Hx Cooling Water Blockage	Year 4

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	SW07:A-C	TBCLC Pump Trip	Year 4
MALFUNCTION TEST	SW08:A-C	TBCLC Hx Tube Leak (non-recoverable)	Year 4
MALFUNCTION TEST	SW09:A-C	RBCLC Pump Trip	Year 4
MALFUNCTION TEST	SW10:A-C	RBCLC Hx Tube Leak (non-recoverable)	Year 4
MALFUNCTION TEST	SW11	RBCLC Leakage into Drywell (non-recoverable)	Year 4
MALFUNCTION TEST	SW12:A, B	Loss of Drywell Cooling Assemblies	Year 4
MALFUNCTION TEST	SW13	Loss of Cooling to RWCU NRHX	Year 4
MALFUNCTION TEST	SW14:A, B	Emergency Service Water Pump Trip	Year 4
MALFUNCTION TEST	SW15	Service Water Pump A Auto Start Failure	Year 1
MALFUNCTION TEST	SW16	TBCLC Pmp A Auto Start Failure	Year 1
MALFUNCTION TEST	SW17	RBCLC Pmp A Auto Start Failure	Year 1
MALFUNCTION TEST	SW18	ESW Pmp A(B) Auto Start Failure	Year 1
MALFUNCTION TEST	TC01	Main Turbine Acceleration	Year 4
MALFUNCTION TEST	TC02:A, B	EHC Pump Trip	Year 4
MALFUNCTION TEST	TC03	EHC Pump Press Reg Fails	Year 4
MALFUNCTION TEST	TC04	Bypass Valve Failure	Year 4
MALFUNCTION TEST	TC05	Main Turbine Load Select Failure	Year 4

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
MALFUNCTION TEST	TC07:A,B	EHC System Regulator Oscillation	Year 4
MALFUNCTION TEST	TC08	Turbine Control Valve Failure	Year 4
MALFUNCTION TEST	TC09	Turbine Stop Valve Failure	Year 4
MALFUNCTION TEST	TC10	Turbine Load Reject	Year 4
MALFUNCTION TEST	TC11	Main Turbine Auto Trip Failure	Year 1
MALFUNCTION TEST	TU01	Inadvertent Turbine Trip	Year 4
MALFUNCTION TEST	TU02:A-J	Main Turbine Bearing High Temp	Year 4
MALFUNCTION TEST	TU03	Main Turbine Bearing Oil Pressure Low	Year 4
MALFUNCTION TEST	TU04:A-J	Main Turbine Bearing High Vibration	Year 4
MALFUNCTION TEST	TU05	Main Turbine Shaft Driven Oil Pump Failure	Year 4
MALFUNCTION TEST	TU06	Turbine Motor Suction Pump Trip	Year 4
MALFUNCTION TEST	TU07	Turbine Emergency Bearing Oil Pump Trip	Year 4
MALFUNCTION TEST	TU08	Exhaust Hood Spray Valve Failure	Year 4
MALFUNCTION TEST	YC01	EPIC Fails	Year 4
NOP	OP-65	Plant Startup (including applicable RAP's)	Year 4*
NOP	OP-65	Plant Shutdown (including applicable RAP's)	Year 4*
NOP	ST-01B	MSIV Fast Closure and Main Steam Line Drain Isolation Valve Test (IST)	Year 4*

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
NOP	ST-01E	Main Turbine Stop Valves Limit Switch Instrument Functional Test	Year 4*
NOP	ST-01G	Main Steam Radiation Monitor (17RM-251A, B, C and D) Functional Test	Year 4*
NOP	ST-01I	Main Steam Isolation Valves Limit Switch Instrument Functional Test	Year 4*
NOP	ST-01K	Main Steam Line Isolation Valves, Main Steam Drain Valves and Reactor Water Sample Valves Simulated Automatic Isolation Test	Year 4*
NOP	ST-01L	Main Turbine Control Valve Instrument Channel and Valve Operability Check	Year 4*
NOP	ST-01S	Shutdown Cooling Containment Isolation Valve Testing (IST)	Year 4*
NOP	ST-02AN	RHR Loop A Pump and MOV Operability and LPCI Keep-Full Level Switch Functional Test	Year 4*
NOP	ST-02AO	RHR Loop B Pump and MOV Operability and LPCI Keep-Full Level Switch Functional Test	Year 4*
NOP	ST-02J	One RHR Service Water Pump or One Containment Cooling Subsystem Inoperable Test	Year 4*
NOP	ST-02N	LPCI Mode Inoperable Test	Year 4*
NOP	ST-02RA	RHR SW Loop A Monthly Operability Test	Year 4*
NOP	ST-02RB	RHR SW Loop B Monthly Operability Test	Year 4*
NOP	ST-02T	LPCI Cross Connect Position Functional Test	Year 4*
NOP	ST-02Y	RHR Heat Exchanger Performance Test	Year 4*
NOP	ST-03PA	Core Spray Loop A Quarterly Operability Test	Year 4*
NOP	ST-03PB	Core Spray Loop B Quarterly Operability Test	Year 4*
NOP	ST-04B	HPCI Pump and MOV Operability Test	Year 4*
NOP	ST-04K	HPCI Turb Slow Roll & Overspeed Test	Year 4*
NOP	ST-04L	HPCI Class 2 Piping Functional Test (ISI)	Year 4*
NOP	ST-04M	HPCI Torus Suction Operability Test (IST)	Year 4*

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
NOP	ST-04N	HPCI Flow Rate and Inservice Test (IST)	Year 4*
NOP	ST-05B	APRM Instrument Functional Test (Run Mode)	Year 4*
NOP	ST-05C	IRM-APRM Instrument Range Overlap Check	Year 4*
NOP	ST-05D	APRM Calibration*	Year 4*
NOP	ST-05E	Core Performance Daily Surveillance	Year 4*
NOP	ST-05N	APRM Instrument Functional Test (Refuel, Startup, or Shutdown Mode)	Year 4*
NOP	ST-05Q	SRM Functional Test	Year 4*
NOP	ST-05P	Source Range Channel Checks	Year 4*
NOP	ST-05Q	APRM Flow Bias Functional Test (Run Mode)	Year 4*
NOP	ST-05R	RBM Upscale and Downscale Instrument Functional Test	Year 4*
NOP	ST-08C	ESW Motor Operated Valves Operability Test	Year 4*
NOP	ST-08N	ESW Pump Inservice Test (IST)	Year 4*
NOP	ST-09BA	EDG A & C Full Load Test & ESW Pump Operability Test	Year 4*
NOP	ST-09BB	EDG B & D Full Load Test & ESW Pump Operability Test	Year 4*
NOP	ST-09C	Emergency AC Power Load Sequencing Test and 4 KV Emergency Power System Voltage Relays Instrument Functional Test	Year 4*
NOP	ST-09D	EDG, 115KV Reserve Power, Station Battery, or ESW Pump Inoperable Test	Year 4*
NOP	ST-10A	Off-Gas Line Isolation Logic Sys Functional Test	Year 4*
NOP	ST-10B	Off-Gas System Automatic Isolation and Closure Test	Year 4*
NOP	ST-11	Off-Gas Process Rad Monitor Instrument Functional Test	Year 4*
NOP	ST-12I	Liq Radwaste Eff Mon Instr & Iso Logic Sys Functional Test	Year 4*

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
NOP	ST-12K	Main CR ventilation Rad Monitor Instrument channel Functional Test	Year 4*
NOP	ST-13A	Stack Gas Rad Mon Instr Channel Functional Test	Year 4*
NOP	ST-18	Mn Cntrl Rm Emergency Fan and Damper Operability Test	Year 4*
NOP	ST-20A	Rod Worth Minimizer Functional Test	Year 4*
NOP	ST-20C	Control Rod Operability and HCU Cooling Water Supply Check Valve Reverse Flow Check (IST)	Year 4*
NOP	ST-20K	Pre-Control Rod Withdrawal Checklist	Year 4*
NOP	ST-20M	Scram Discharge Volume Vent and Drain Valves Full Stroke and Timing Test (IST)	Year 4*
NOP	ST-20N	Control Rod Exercise/Timing/Stall Flow Test	Year 4*
NOP	ST-21A	Main Turbine Overspeed Trip Test (Actual Overspeed Trip Test - Valves Remain Open)	Year 4*
NOP	ST-21C	Main Turbine Combined Intermediate Valve Test	Year 4*
NOP	ST-21E	Main Turbine Backup Overspeed Trip System Test (Actual Overspeed)	Year 4*
NOP	ST-21F	Main Turbine Overspeed Trip Device and Mechanical Trip Valve Test	Year 4*
NOP	ST-21I	Main Turbine Thrust Bearing Wear Detector Test*	Year 4*
NOP	ST-21K	Main Turbine Overspeed Trip System Test (Actual Overspeed)	Year 4*
NOP	ST-21L	Main Turbine Mech Trip Valve & Master Trip Solenoid A & B	Year 4*
NOP	ST-22B	Manual Safety Relief Vlv Operation & Vlv Monitoring Sys	Year 4*
NOP	ST-23B	Control Rod Coupling Integrity Test	Year 4*
NOP	ST-23C	Jet Pump Operability Test for Two Loop Operation (EPIC Available)	Year 4*

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TEST TYPE	TEST NUMBER	TEST TITLE	SCHEDULE
NOP	ST-23D	Jet Pump Operability Test for Single Loop Operation	Year 4*
NOP	ST-23E	Jet Pump Operability Test for Two Loop Operation (EPIC Not Available)	Year 4*
NOP	ST-24A	RCIC Pump and MOV Operability Test	Year 4*
NOP	ST-24F	RCIC System Inoperable Test	Year 4*
NOP	ST-24J	RCIC Flow Rate and Inservice Test (IST)	Year 4*
NOP	ST-24K	RCIC Torus Suction Operability Test	Year 4*
NOP	ST-24Q	RCIC Turb Slow Roll & Overspeed Test	Year 4*
NOP	ST-26J	Heatup and Cooldown Temperature Checks	Year 4*
NOP	ST-26K	Recirculation Pump Start-up Differential Temperature Check	Year 4*
NOP	ST-26L	Reactor Vessel Head Bolting Studs Temperature Monitoring	Year 4*
NOP	ST-27A	Recirc Loop Valve Operability Test (IST)	Year 4*
NOP	ST-29A	Manual Scram Functional Test	Year 4*
NOP	ST-29B	Mode Switch in Shutdown Functional Test	Year 4*
NOP	ST-29C	RPS Channel Test Switch Functional Test	Year 4*
NOP	ST-40C	Computer Out of Service Surveillance	Year 4*
NOP	ST-40D	Daily Surveillance and Instrument Check	Year 4*
NOP	ST-40K	Periodic Pump, Valve, and Component Test	Year 4*
NOP	ST-40X	Daily Shutdown Surveillance and Instrument Check	Year 4*
NOP	ST-50	SRM Functional Test	Year 4*
	Year 4*	NOP Tests not run during scheduled training will be performed in Year 4	