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Early C. Ewing III  
Director, Nuclear Safety Assurance  
Waterford 3

W3F1-99-0182  
A4.05  
PR

December 16, 1999

U.S. Nuclear Regulatory Commission  
ATTN: Document Control Desk  
Washington, D.C. 20555

Subject: Waterford 3 SES  
Docket No. 50-382  
License No. NPF-38  
Four-Year Report On Anniversary  
Of Simulator Certification

Gentlemen:

As required by 10 CFR 55.45(b)(5)(ii) and 10 CFR 55.45(b)(5)(vi), Entergy Operations, Inc. is hereby submitting a four-year Waterford 3 simulator test failure uncorrected item report. As discussed in Entergy letter W3F1-99-0150, dated October 18, 1999, the report was inadvertently not submitted by the March 20, 1999 due date and nine simulator tests had not been completed during the four-year period. As previously documented, the condition is being addressed within our corrective action program (Condition Report CR-WF3-1999-0939). The remaining nine tests have now been completed. Only one unresolved test discrepancy is being reported herein associated with test NTI-626.25 (RCS Leak Into Containment). The discrepancy is expected to be corrected by March 15, 2000.

Attachment 2, Part 1 contains a description of the certification test plan for the four-year period between March 20, 1995 and March 20, 1999. Attachment 2, Part 2 contains a list of the nine tests completed subsequent to that four-year period that were required to have been completed during the period. Attachment 2, Part 3 contains a planned schedule for conduct of performance tests over the four-year period March 20, 1999 through March 20, 2003. Attachment 3 lists the test with the unresolved discrepancy. Attachment 4 contains a description of the certification test plan changes.


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This letter contains one commitment that is documented on the attached commitment identification form. If you have any questions concerning the above, please contact J.M. O'Hern at (504) 739-6001.

Very truly yours,

 (for E.C. Ewing)

E.C. Ewing  
Director  
Nuclear Safety Assurance

ECE/OPP/rtk  
Attachments

cc: E.W. Merschoff, NRC Region IV  
C.P. Patel, NRC-NRR  
J. Smith  
N.S. Reynolds  
NRC Resident Inspectors Office

**COMMITMENT IDENTIFICATION/VOLUNTARY ENHANCEMENT FORM**

Attachment to W3F1-99-0182

Subject: **Four-Year Report On Anniversary Of Simulator Certification**

Date: December 16, 1999

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COMMITMENT(S)	ONE-TIME ACTION*	CONTINUING COMPLIANCE*	SCHEDULED COMPLETION DATE (IF REQUIRED)	ASSOCIATED CR OR ER
Correct NTI-626.25 test discrepancy.	X		March 15, 2000	

\*Check one only

VOLUNTARY ENHANCEMENT(S)	ASSOCIATED CR OR ER

**ATTACHMENT 2 to W3F1-99-0182**

**PART 1**

**CERTIFICATION TEST PLAN FROM**  
**MARCH 20, 1995 TO MARCH 20, 1999**

(Note: Pen and ink markups denote changes made to the plan during the plan period)

ATTACHMENT 2  
PART 1  
CERTIFICATION TEST PLAN FROM MARCH 20, 1995 THROUGH MARCH 20, 1999

YEAR ONE PERFORMANCE TEST LIST

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-602.01	NORMAL OPERATION TEST	YES	A3.2	
NTI-603.01	45% ACCURACY TEST	YES	B2.1	
NTI-603.02	80% ACCURACY TEST	YES	B2.1	
NTI-603.03	100% ACCURACY TEST	YES	B2.1	
NTI-603.04	100% STABILITY TEST	YES	B2.1	
NTI-604.01	MANUAL REACTOR TRIP	YES	B2.2(1)	
NTI-604.02	SIM. TRIP OF ALL FDW PUMPS	YES	B2.2(2)	
NTI-604.03	SIM. CLOSURE OF ALL MSIVs	YES	B2.2(3)	
NTI-604.04	SIM. TRIP OF ALL RCPs	YES	B2.2(4)	
NTI-604.05	TRIP ANY RCP	YES	B2.2(5)	
NTI-604.06	MAIN TURBINE TRIP	YES	B2.2(6)	
NTI-604.07	MAX RATE POWER RAMP	YES	B2.2(7)	
NTI-604.08	MAX LOCA WITH LOP	YES	B2.2(8)	
NTI-604.09	MAX UNISOLABLE MS LEAK	YES	B2.2(9)	
NTI-604.10	SLOW RCS DEPRESS W/NO HPSI	YES	B2.2(10)	
NTI-604.11	REACTOR TRIP FOLLOWED BY RECOVERY TO RATED POWER	YES	3.1.1.4	
NTI-610.01	CCW PUMP(S) TRIP	YES	3.1.2(8)	CC01
NTI-610.06	RCP SEAL CLR OTLT VLV FAILS	YES	3.1.2(8)	CC06
NTI-610.10	LOSS OF CCW TO SDC HX	YES	3.1.2(7)	CC10
NTI-610.17	RUPTURE OF CCW PMP DISC PIPE	YES	3.1.2(8)	CC17
NTI-612.01	REACTOR FUEL CLADDING FAILS	YES	3.1.2(14)	CR01
NTI-614.01	CHARGING PUMP TRIP	YES	3.1.2(18)	CV01
NTI-614.06	LTDN HX TCV FAILS SHUT	YES	3.1.2(18)	CV06
NTI-615.01	CW PUMP TRIP	YES	3.1.2(5)	CW01
NTI-616.01	FDR BRKR TRIP IN SWITCHYARD	YES	3.1.2(3)	ED01
NTI-616.06	LOSS OF 480VAC BUS (ES)	YES	3.1.2(3)	ED06
NTI-617.03	MAIN GEN LOAD REJECTION	YES	3.1.2(16)	EG03
NTI-617.08	FAILURE OF DG TO AUTOSTART	YES	3.1.2(3)	EG08
<del>NTI-617.18</del>	<del>H2 SEAL OIL PMP TRIP (H2)</del>	<del>YES</del>	<del>3.1.2(22)</del>	<del>EG18</del>
NTI-619.01	CONDENSATE PUMP TRIP	YES	3.1.2(9)	FW01

ATTACHMENT 2  
PART 1  
CERTIFICATION TEST PLAN FROM MARCH 20, 1995 THROUGH MARCH 20, 1999

YEAR ONE PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-619.08	LOSS OF AUX FDW PUMP	YES	3.1.2(9)	FW08
NTI-619.19	FDW HTR BYPASS VLV FAILURE	YES	3.1.2(9)	FW19
NTI-619.30	EMER FDW PMP SUCT HDR LEAK	YES	3.1.2(9)	FW30
NTI-621.01	SA/IA CROSSOVER VLV FAILS	YES	3.1.2(2)	IA01
NTI-622.04	STEAM BYPASS VLV LEAKAGE	YES	3.1.2(17)	MS04
NTI-622.11	MS LINE BREAK INSIDE CNTMT	YES	3.1.2(20)	MS11
NTI-623.01	SAFETY INSTRMNT CH FAILURE	YES	3.1.2(21)	NI01
NTI-625.01	CPC CHANNEL(S) FAIL	YES	3.1.2(11)	PW01
NTI-626.01	LOSS OF ALL RCPS	YES	3.1.2(4)	RC01
NTI-626.08	RCP LOWER SEAL FAILURE	YES	3.1.2(4)	RC08
NTI-626.14	PZR SPRAY VALVE FAILURE	YES	3.1.2(18)	RC14
NTI-626.18	RCS COLD LEG CNTRL TT FAILS	YES	3.1.2(22)	RC18
NTI-626.22	PZR CPC SFTY PT FAILS HI/LO	YES	3.1.2(22)	RC22
NTI-626.27	PZR INSTRMNT LINE BREAK	YES	3.1.2(1)	RC27
NTI-627.01	CEDM MG SET FAILURE	YES	3.1.2(12)	RD01
NTI-627.05	ROD EJECTION	YES	3.1.2(12)	RD05
NTI-627.14	FAILURE OF CNTRL/SD BANKS TO TRIP	YES	3.1.2(12)	RD14
NTI-629.02	RPS AUTO TRIP FAILURE	YES	3.1.2(24)	RP02
NTI-629.06	RPS MATRIX RELAY FAILURE	YES	3.1.2(17)	RP06
NTI-630.01	SBC QUICK OPEN SIG FAILS	YES	3.1.2(17)	RX01
NTI-630.08	PZR LEVEL CNTRLR FAILS OFF	YES	3.1.2(18)	RX08
NTI-630.14	PZR PRESS CNTRL 100X/Y FAILS	YES	3.1.2(18)	RX14
NTI-631.01	S/G TUBE LEAK	YES	3.1.2(1)	SG01
NTI-632.01	SI PUMP TRIP	YES	3.1.2(22)	SI01
NTI-634.01	TCCW PUMP TRIP	YES	3.1.2(6)	TP01

ATTACHMENT 2  
PART 1  
CERTIFICATION TEST PLAN FROM MARCH 20, 1995 THROUGH MARCH 20, 1999

YEAR TWO PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-602.01	NORMAL OPERATION TEST	YES	A3.2	
NTI-603.01	45% ACCURACY TEST	YES	B2.1	
NTI-603.02	80% ACCURACY TEST	YES	B2.1	
NTI-603.03	100% ACCURACY TEST	YES	B2.1	
NTI-603.04	100% STABILITY TEST	YES	B2.1	
NTI-604.01	MANUAL REACTOR TRIP	YES	B2.2(1)	
NTI-604.02	SIM. TRIP OF ALL FDW PUMPS	YES	B2.2(2)	
NTI-604.03	SIM. CLOSURE OF ALL MSIVs	YES	B2.2(3)	
NTI-604.04	SIM. TRIP OF ALL RCPs	YES	B2.2(4)	
NTI-604.05	TRIP ANY RCP	YES	B2.2(5)	
NTI-604.06	MAIN TURBINE TRIP	YES	B2.2(6)	
NTI-604.07	MAX RATE POWER RAMP	YES	B2.2(7)	
NTI-604.08	MAX LOCA WITH LOP	YES	B2.2(8)	
NTI-604.09	MAX UNISOLABLE MS LEAK	YES	B2.2(9)	
NTI-604.10	SLOW RCS DEPRESS W/NO HPSI	YES	B2.2(10)	
NTI-604.11	REACTOR TRIP FOLLOWED BY RECOVERY TO RATED POWER	YES	3.1.1.4	
NTI-610.02	ACCW PUMP TRIP	YES	3.1.2(8)	CC02
NTI-610.12	CCW SURGE TNK LVL SIG FAILS	YES	3.1.2(8)	CC12
NTI-610.18	CCW TUBE LEAK IN CNTMT FAN COOLERS	YES	3.1.2(8)	CC18
NTI-613.02 <sub>1</sub>	CNTMT SPRAY PUMP(S) FAIL TO AUTOSTART	YES	3.1.2(23)	CS02
NTI-614.02	CHRG PUMPS FAIL TO AUTOSTART	YES	3.1.2(18)	CV02
NTI-614.14	CVCS LTDN LEAK IN CNTMT	YES	3.1.2(1)	CV14
NTI-616.02	LOSS OF MAJOR STATION XFMR	YES	3.1.2(3)	ED02
NTI-616.07	LOSS OF 125VDC BUS (ES)	YES	3.1.2(3)	ED07
NTI-617.04	MAIN GEN OUTPUT BKR FAILS TO OPEN ON AUTOTRIP	YES	3.1.2(22)	EG04
NTI-617.09	FAILURE OF DG TO LOAD	YES	3.1.2(3)	EG09
<del>NTI-617.19</del>	<del>H2 SEAL OIL PMP TRIP (AIR)</del>	<del>YES</del>	<del>3.1.2(22)</del>	<del>EG19</del>

ATTACHMENT 2  
PART 1  
CERTIFICATION TEST PLAN FROM MARCH 20, 1995 THROUGH MARCH 20, 1999

YEAR TWO PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-619.03	FEEDWATER PUMP OVERSPD TRIP	YES	3.1.2(9)	FW03
NTI-619.10	CONDENSER VACUUM PUMP TRIP	YES	3.1.2(5)	FW10
NTI-619.20	SU FDW REG VLV FAILURE	YES	3.1.2(9)	FW20
NTI-619.36	FDW PIPE BREAK OUTSIDE CNTMT	YES	3.1.2(20)	FW36
NTI-621.02	IA ISOL VLV FAILS TO CLOSE ON CIAS	YES	3.1.2(2)	IA02
NTI-621.05	IA CMPRSR DISCH LINE RUPTURE	YES	3.1.2(2)	IA05
NTI-622.05	ATMOS STM DUMP VLV FAILS	YES	3.1.2(17)	MS05
NTI-622.12	MS LINE BREAK OUTSIDE CNTMT AFTER MSIV	YES	3.1.2(20)	MS12
NTI-623.03	CNTRL CH INSTRMNT FAILURE	YES	3.1.2(21)	NI03
NTI-625.02	RX PWR CB FAILS TO DROP CEAS	YES	3.1.2(11)	PW02
NTI-626.03	RCP SHAFT SEIZURE	YES	3.1.2(4)	RC03
NTI-626.09	RCP MIDDLE SEAL FAILURE	YES	3.1.2(4)	RC09
NTI-626.15	PZR CNTRL LT FAILS HI/LO	YES	3.1.2(18)	RC15
NTI-626.19	RCS COLD LEG SFTY TT FAILS	YES	3.1.2(22)	RC19
NTI-626.23	RCS COLD LEG PIPE RUPTURE	YES	3.1.2(1)	RC23
NTI-627.02	DROPPED CEA	YES	3.1.2(12)	RD02
NTI-627.06	CEA GRP UNCNTRLD INSERTION	YES	3.1.2(12)	RD06
NTI-627.11	CEAS MECHANICALLY STUCK	YES	3.1.2(12)	RD11
NTI-627.21	CEA UPR ELEC LIMIT FAILURE	YES	3.1.2(12)	RD21
NTI-629.03	RX TRIP WITH NO AUTO TURBINE TRIP	YES	3.1.2(19)	RP03
NTI-630.04	MFV FLOW CNTRL VLV FAILURE	YES	3.1.2(9)	RX04
NTI-630.09	S/G LEVEL CNTRL FAILURE	YES	3.1.2(22)	RX09
NTI-631.04	MS LINE PRESS XMTR FAILS	YES	3.1.2(22)	SG04
NTI-632.04	AIR BINDING IN SI SYSTEM	YES	3.1.2(7)	SI04
NTI-633.01	TURBINE LOAD CNTRL DMD FAILS	YES	3.1.2(17)	TC01
NTI-634.04	TCCW HX A OUTLET HDR LEAK	YES	3.1.2(6)	TP04



ATTACHMENT 2  
PART 1  
CERTIFICATION TEST PLAN FROM MARCH 20, 1995 THROUGH MARCH 20, 1999

YEAR THREE PERFORMANCE TEST LIST

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-602.01	NORMAL OPERATION TEST	YES	A3.2	
NTI-603.01	45% ACCURACY TEST	YES	B2.1	
NTI-603.02	80% ACCURACY TEST	YES	B2.1	
NTI-603.03	100% ACCURACY TEST	YES	B2.1	
NTI-603.04	100% STABILITY TEST	YES	B2.1	
NTI-604.01	MANUAL REACTOR TRIP	YES	B2.2(1)	
NTI-604.02	SIM. TRIP OF ALL FDW PUMPS	YES	B2.2(2)	
NTI-604.03	SIM. CLOSURE OF ALL MSIVs	YES	B2.2(3)	
NTI-604.04	SIM. TRIP OF ALL RCPs	YES	B2.2(4)	
NTI-604.05	TRIP ANY RCP	YES	B2.2(5)	
NTI-604.06	MAIN TURBINE TRIP	YES	B2.2(6)	
NTI-604.07	MAX RATE POWER RAMP	YES	B2.2(7)	
NTI-604.08	MAX LOCA WITH LOP	YES	B2.2(8)	
NTI-604.09	MAX UNISOLABLE MS LEAK	YES	B2.2(9)	
NTI-604.10	SLOW RCS DEPRESS W/NO HPSI	YES	B2.2(10)	
NTI-604.11	REACTOR TRIP FOLLOWED BY RECOVERY TO RATED POWER	YES	3.1.1.4	
NTI-610.03	CCW PUMP BEARING SEIZURE	YES	3.1.2(8)	CC03
NTI-610.08	LOSS OF COOLING WTR TO DG	YES	3.1.2(8)	CC08
NTI-610.15	LOSS OF CCW TO LPSI PMP CLRS	YES	3.1.2(8)	CC15
NTI-610.19	AUX CCW PMP DISC HDR RUPTURE	YES	3.1.2(8)	CC19
NTI-614.03	CHRG PUMP SEAL LUBE PUMP MOTOR FAILS	YES	3.1.2(18)	CV03
NTI-614.15	CVCS LTDN LEAK OUTSIDE CNTMT	YES	3.1.2(1)	CV15
NTI-616.04	LOSS OF 6.9KV BUS (ES)	YES	3.1.2(3)	ED04
NTI-616.10	LOSS OF 208/120V BUS (ES)	YES	3.1.2(3)	ED10
NTI-617.05	EXCIT.BKR FAILS TO AUTOTRIP	YES	3.1.2(22)	EG05
NTI-617.10	DG OVERSPEED TRIP	YES	3.1.2(3)	EG10
NTI-617.20	STATOR COOLANT HIGH COND.	YES	3.1.2(15)	EG20
NTI-619.04	FDW PMP TURB SPD CNTRL FAIL	YES	3.1.2(9)	FW04
NTI-619.12	FDW PUMP TURBINE HIGH VIB	YES	3.1.2(9)	FW12
NTI-617.21	HYDROGEN SO MALFUNCTIONS	YES	3.1.2(22)	EG21

ATTACHMENT 2  
PART 1  
CERTIFICATION TEST PLAN FROM MARCH 20, 1995 THROUGH MARCH 20, 1999

YEAR THREE PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-619.21	CONDENSER AIR IN LEAKAGE	YES	3.1.2(5)	FW21
NTI-619.37	FDW PIPE BREAK OUTSIDE CNTMT	YES	3.1.2(20)	FW37
NTI-621.03	RUPTURE AIR SUPPLY TO STEAM BYPASS VALVES	YES	3.1.2(2)	IA03
NTI-622.09	S/G STM FLOW XMTR FAILURE	YES	3.1.2(22)	MS09
NTI-622.13	MS LINE BREAK OUTSIDE CNTMT BEFORE MSIV	YES	3.1.2(20)	MS13
NTI-622.22	TURBINE 1ST STAGE PRESSURE XMTR FAILS	YES	3.1.2(22)	MS22
NTI-623.05	SU INSTRUMENT CH FAILURE	YES	3.1.2(21)	NI05
NTI-625.03	RX PWR CB FAILS TO SB/RB	YES	3.1.2(11)	PW03
NTI-626.04	RCP SHEARED SHAFT	YES	3.1.2(4)	RC04
NTI-626.11	CODE SAFETY FAILURE OPN/CLSD	YES	3.1.2(1)	RC11
NTI-626.16	RCP SPEED XMTR FAILS	YES	3.1.2(22)	RC16
NTI-626.20	RCS HOT LEG SFTY TT FAILS	YES	3.1.2(22)	RC20
NTI-626.24	RCS HOT LEG PIPE RUPTURE	YES	3.1.2(1)	RC24
NTI-627.03	CEAS FAIL TO MOVE IN MAN GP	YES	3.1.2(13)	RD03
NTI-627.12	CEA UNCNTRLD WITHDRAWAL	YES	3.1.2(12)	RD12
NTI-627.24	RX TRIP BRKR FAILS TO OPEN	YES	3.1.2(24)	RD24
NTI-629.04	ESFAS TRIP GENERATED	YES	3.1.2(23)	RP04
NTI-630.05	S/G LEVEL SETPOINT DRIFT	YES	3.1.2(22)	RX05
NTI-630.10	PZR BU HTRS FAIL	YES	3.1.2(18)	RX10
NTI-631.05	S/G LEVEL XMTR FAILURE	YES	3.1.2(22)	SG05
NTI-632.08	LPSI PUMP SUCT LINE RUPTURE	YES	3.1.2(7)	SI08
NTI-634.05	LOSS OF WTR TO HW COOLERS	YES	3.1.2(6)	TP05

ATTACHMENT 2  
PART 1  
CERTIFICATION TEST PLAN FROM MARCH 20, 1995 THROUGH MARCH 20, 1999

YEAR FOUR PERFORMANCE TEST LIST

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-602.01	NORMAL OPERATIONS TEST	YES	A3.2	
NTI-603.01	45% ACCURACY TEST	YES	B2.1	
NTI-603.02	80% ACCURACY TEST	YES	B2.1	
NTI-603.03	100% ACCURACY TEST	YES	B2.1	
NTI-603.04	100% STABILITY TEST	YES	B2.1	
NTI-604.01	MANUAL REACTOR TRIP	YES	B2.2(1)	
NTI-604.02	SIM. TRIP OF ALL FDW PUMPS	YES	B2.2(2)	
NTI-604.03	SIM. CLOSURE OF ALL MSIVs	YES	B2.2(3)	
NTI-604.04	SIM. TRIP OF ALL RCPs	YES	B2.2(4)	
NTI-604.05	TRIP ANY RCP	YES	B2.2(5)	
NTI-604.06	MAIN TURBINE TRIP	YES	B2.2(6)	
NTI-604.07	MAX RATE POWER RAMP	YES	B2.2(7)	
NTI-604.08	MAX LOCA WITH LOP	YES	B2.2(8)	
NTI-604.09	MAX UNISOLABLE MS LEAK	YES	B2.2(9)	
NTI-604.10	SLOW RCS DEPRESS W/NO HPSI	YES	B2.2(10)	
NTI-604.11	REACTOR TRIP FOLLOWED BY RECOVERY TO RATED POWER	YES	3.1.1.4	
NTI-610.05	COOLING TOWER FAN(S) TRIP	YES	3.1.2(8)	CC05
NTI-610.09	LOSS OF CCW TO CNTMT FAN CLR	YES	3.1.2(8)	CC09
NTI-610.16	CCW UNISOLABLE LEAK IN CNTMT	YES	3.1.2(8)	CC16
NTI-610.21	CCW LINE BREAK IN AUX BLDG	YES	3.1.2(8)	CC21
NTI-614.05	LTDN BCK PRESS REG VLV FAILS	YES	3.1.2(18)	CV05
NTI-614.16	CHRG LINE BREAK INSIDE CNTMT	YES	3.1.2(1)	CV16
NTI-616.05	LOSS OF 4.16KV BUS (ES)	YES	3.1.2(3)	ED05
NTI-617.07	MAIN GEN AUTOVOLTAGE REG FAILS TO MANUAL	YES	3.1.2(22)	EG07
NTI-617.11	DG TRIP ON DIFF PROTECTION	YES	3.1.2(3)	EG11
NTI-619.06	MTR DRVN EMERG FDW PMP TRIP	YES	3.1.2(10)	FW06
NTI-619.14	CNDSR HW LVL CNTRL VLV FAIL	YES	3.1.2(5)	FW14
NTI-619.29	EMER FDW PIPE LEAK	YES	3.1.2(9)	FW29
NTI-619.38	FDW PIPE BREAK INSIDE CNTMT	YES	3.1.2(20)	FW38

ATTACHMENT 2  
PART 1  
CERTIFICATION TEST PLAN FROM MARCH 20, 1995 THROUGH MARCH 20, 1999

YEAR FOUR PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-621.04	RUPTURED AIR SPLY TO RAB	YES	3.1.2(2)	IA04
NTI-622.10	MS FLOW XMTR FAILURE HI/LO	YES	3.1.2(22)	MS10
NTI-622.21	MS LINE BREAK DWNSTRM OF IFT-0300AS/BS IN CNTMT	YES	3.1.2(20)	MS21
NTI-623.07	SU CH FAILS TO DE-ENERGIZE	YES	3.1.2(21)	NI07
NTI-624.01	LOSS OF PMC PRI CMPTR CMLX	YES	3.1.2(22)	PC01
NTI-625.06	RAIL CEAC CHANNEL(S) LOSS OF CPO2 CRT CH. 1,2	YES	3.1.2(11)	PW06
NTI-626.05	RCP LOSS OF LUBE OIL	YES	3.1.2(4)	RC05
NTI-626.12	CODE SAFETY RELIEF VLV LEAKS	YES	3.1.2(1)	RC12
NTI-626.17	SI SYS PRESS INTLK FAILURE	YES	3.1.2(17)	RC17
NTI-626.21	RCS HOT LEG CNTRL TT FAILS	YES	3.1.2(22)	RC21
NTI-626.25	RCS LEAK SURGE LINE BREAK	YES	3.1.2(1)	RC25
NTI-627.04	CEAS FAIL TO MOVE IN MAN ID	YES	3.1.2(13)	RD04
NTI-627.09	CEA UNCNTRLD WITHDRW	YES	3.1.2(12)	RD09
NTI-627.13	CEA DRIFT	YES	3.1.2(12)	RD13
NTI-629.05	ESFAS CH FAILS TO TRIP	YES	3.1.2(23)	RP05
NTI-630.07	PZR PRESS CNTRLR FAILS OFF	YES	3.1.2(18)	RX07
NTI-630.11	PZR PROP HTRS FAIL ON/OFF	YES	3.1.2(18)	RX11
NTI-632.11	SDC HX TUBE LEAK	YES	3.1.2(7)	SI11
NTI-634.06	LOSS OF TCCW CLG TO IA/SA COMPRESSORS	YES	3.1.2(6)	TP06
NTI-635.06	TURBINE TRIP	YES	3.1.2(15)	TU06

**ATTACHMENT 2 to W3F1-99-0182**

**PART 2**

**NINE TESTS COMPLETED SUBSEQUENT TO  
SUBJECT 4 YEAR PERIOD  
THAT WERE DUE WITHIN THE 4 YEAR PERIOD**

ATTACHMENT 2  
PART 2  
NINE TESTS COMPLETED SUBSEQUENT TO SUBJECT 4 YEAR PERIOD  
THAT WERE DUE WITHIN THE 4 YEAR PERIOD

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-625.02	RX PWR CB FAILS TO DROP CEAS	YES	3.1.2(11)	PW02
NTI-634.06	LOSS OF TCCW CLG TO IA/SA COMPRESSORS	YES	3.1.2(6)	TP06
NTI-627.09	CEA UNCNTRLD WITHDRW	YES	3.1.2(12)	RD09
NTI-629.05	ESFAS CH FAILS TO TRIP	YES	3.1.2(23)	RP05
NTI-632.11	SDC HX TUBE LEAK	YES	3.1.2(7)	SI11
NTI-626.17	SI SYS PRESS INTLK FAILURE	YES	3.1.2(17)	RC17
NTI-616.04	LOSS OF 6.9KV BUS (ES)	YES	3.1.2(3)	ED04
NTI-610.19	AUX CCW PMP DISC HDR RUPTURE	YES	3.1.2(8)	CC19
NTI-626.25	RCS LEAK SURGE LINE BREAK	YES	3.1.2(1)	RC25

**ATTACHMENT 2 to W3F1-99-0182**

**PART 3**

**PLANNED SCHEDULE FOR CONDUCT OF PERFORMANCE TESTS  
(MARCH 20, 1999 THROUGH MARCH 20, 2003)**

ATTACHMENT 2  
PART 3  
PLANNED SCHEDULE FOR CONDUCT OF PERFORMANCE TESTS  
(MARCH 20, 1999 THROUGH MARCH 20, 2003)

YEAR ONE PERFORMANCE TEST LIST

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-602.01	NORMAL OPERATION TEST	YES	A3.2	
NTI-603.01	45% ACCURACY TEST	YES	B2.1	
NTI-603.02	80% ACCURACY TEST	YES	B2.1	
NTI-603.03	100% ACCURACY TEST	YES	B2.1	
NTI-603.04	100% STABILITY TEST	YES	B2.1	
NTI-604.01	MANUAL REACTOR TRIP	YES	B2.2(1)	
NTI-604.02	SIM. TRIP OF ALL FDW PUMPS	YES	B2.2(2)	
NTI-604.03	SIM. CLOSURE OF ALL MSIVs	YES	B2.2(3)	
NTI-604.04	SIM. TRIP OF ALL RCPs	YES	B2.2(4)	
NTI-604.05	TRIP ANY RCP	YES	B2.2(5)	
NTI-604.06	MAIN TURBINE TRIP	YES	B2.2(6)	
NTI-604.07	MAX RATE POWER RAMP	YES	B2.2(7)	
NTI-604.08	MAX LOCA WITH LOP	YES	B2.2(8)	
NTI-604.09	MAX UNISOLABLE MS LEAK	YES	B2.2(9)	
NTI-604.10	SLOW RCS DEPRESS W/NO HPSI	YES	B2.2(10)	
NTI-604.11	REACTOR TRIP FOLLOWED BY RECOVERY TO RATED POWER	YES	3.1.1.4	
NTI-610.01	CCW PUMP(S) TRIP	YES	3.1.2(8)	CC01
NTI-610.06	RCP SEAL CLR OTLT VLV FAILS	YES	3.1.2(8)	CC06
NTI-610.10	LOSS OF CCW TO SDC HX	YES	3.1.2(7)	CC10
NTI-610.17	RUPTURE OF CCW PMP DISC PIPE	YES	3.1.2(8)	CC17
NTI-612.01	REACTOR FUEL CLADDING FAILS	YES	3.1.2(14)	CR01
NTI-614.01	CHARGING PUMP TRIP	YES	3.1.2(18)	CV01
NTI-614.06	LTDN HX TCV FAILS SHUT	YES	3.1.2(18)	CV06
NTI-615.01	CW PUMP TRIP	YES	3.1.2(5)	CW01
NTI-616.01	FDR BRKR TRIP IN SWITCHYARD	YES	3.1.2(3)	ED01
NTI-616.06	LOSS OF 480VAC BUS (ES)	YES	3.1.2(3)	ED06
NTI-617.03	MAIN GEN LOAD REJECTION	YES	3.1.2(16)	EG03
NTI-617.08	FAILURE OF DG TO AUTOSTART	YES	3.1.2(3)	EG08
NTI-619.01	CONDENSATE PUMP TRIP	YES	3.1.2(9)	FW01



ATTACHMENT 2  
PART 3  
PLANNED SCHEDULE FOR CONDUCT OF PERFORMANCE TESTS  
(MARCH 20, 1999 THROUGH MARCH 20, 2003)

YEAR ONE PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-619.08	LOSS OF AUX FDW PUMP	YES	3.1.2(9)	FW08
NTI-619.19	FDW HTR BYPASS VLV FAILURE	YES	3.1.2(9)	FW19
NTI-619.30	EMER FDW PMP SUCT HDR LEAK	YES	3.1.2(9)	FW30
NTI-621.01	SA/IA CROSSOVER VLV FAILS	YES	3.1.2(2)	IA01
NTI-622.04	STEAM BYPASS VLV LEAKAGE	YES	3.1.2(17)	MS04
NTI-622.11	MS LINE BREAK INSIDE CNTMT	YES	3.1.2(20)	MS11
NTI-623.01	SAFETY INSTRMNT CH FAILURE	YES	3.1.2(21)	NI01
NTI-625.01	CPC CHANNEL(S) FAIL	YES	3.1.2(11)	PW01
NTI-626.01	LOSS OF ALL RCPS	YES	3.1.2(4)	RC01
NTI-626.08	RCP LOWER SEAL FAILURE	YES	3.1.2(4)	RC08
NTI-626.14	PZR SPRAY VALVE FAILURE	YES	3.1.2(18)	RC14
NTI-626.18	RCS COLD LEG CNTRL TT FAILS	YES	3.1.2(22)	RC18
NTI-626.22	PZR CPC SFTY PT FAILS HI/LO	YES	3.1.2(22)	RC22
NTI-626.27	PZR INSTRMNT LINE BREAK	YES	3.1.2(1)	RC27
NTI-627.01	CEDM MG SET FAILURE	YES	3.1.2(12)	RD01
NTI-627.05	ROD EJECTION	YES	3.1.2(12)	RD05
NTI-627.14	FAILURE OF CNTRL/SD BANKS TO TRIP	YES	3.1.2(12)	RD14
NTI-629.02	RPS AUTO TRIP FAILURE	YES	3.1.2(24)	RP02
NTI-629.06	RPS MATRIX RELAY FAILURE	YES	3.1.2(17)	RP06
NTI-630.01	SBC QUICK OPEN SIG FAILS	YES	3.1.2(17)	RX01
NTI-630.08	PZR LEVEL CNTRLR FAILS OFF	YES	3.1.2(18)	RX08
NTI-630.14	PZR PRESS CNTRL 100X/Y FAILS	YES	3.1.2(18)	RX14
NTI-631.01	S/G TUBE LEAK	YES	3.1.2(1)	SG01
NTI-632.01	SI PUMP TRIP	YES	3.1.2(22)	SI01
NTI-634.01	TCCW PUMP TRIP	YES	3.1.2(6)	TP01

ATTACHMENT 2  
PART 3  
PLANNED SCHEDULE FOR CONDUCT OF PERFORMANCE TESTS  
(MARCH 20, 1999 THROUGH MARCH 20, 2003)

YEAR TWO PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-602.01	NORMAL OPERATION TEST	YES	A3.2	
NTI-603.01	45% ACCURACY TEST	YES	B2.1	
NTI-603.02	80% ACCURACY TEST	YES	B2.1	
NTI-603.03	100% ACCURACY TEST	YES	B2.1	
NTI-603.04	100% STABILITY TEST	YES	B2.1	
NTI-604.01	MANUAL REACTOR TRIP	YES	B2.2(1)	
NTI-604.02	SIM. TRIP OF ALL FDW PUMPS	YES	B2.2(2)	
NTI-604.03	SIM. CLOSURE OF ALL MSIVs	YES	B2.2(3)	
NTI-604.04	SIM. TRIP OF ALL RCPs	YES	B2.2(4)	
NTI-604.05	TRIP ANY RCP	YES	B2.2(5)	
NTI-604.06	MAIN TURBINE TRIP	YES	B2.2(6)	
NTI-604.07	MAX RATE POWER RAMP	YES	B2.2(7)	
NTI-604.08	MAX LOCA WITH LOP	YES	B2.2(8)	
NTI-604.09	MAX UNISOLABLE MS LEAK	YES	B2.2(9)	
NTI-604.10	SLOW RCS DEPRESS W/NO HPSI	YES	B2.2(10)	
NTI-604.11	REACTOR TRIP FOLLOWED BY RECOVERY TO RATED POWER	YES	3.1.1.4	
NTI-610.02	ACCW PUMP TRIP	YES	3.1.2(8)	CC02
NTI-610.12	CCW SURGE TNK LVL SIG FAILS	YES	3.1.2(8)	CC12
NTI-610.18	CCW TUBE LEAK IN CNTMT FAN COOLERS	YES	3.1.2(8)	CC18
NTI-613.01	CNTMT SPRAY PUMP(S) FAIL TO AUTOSTART	YES	3.1.2(23)	CS02
NTI-614.02	CHRG PUMPS FAIL TO AUTOSTART	YES	3.1.2(18)	CV02
NTI-614.14	CVCS LTDN LEAK IN CNTMT	YES	3.1.2(1)	CV14
NTI-616.02	LOSS OF MAJOR STATION XFMR	YES	3.1.2(3)	ED02
NTI-616.07	LOSS OF 125VDC BUS (ES)	YES	3.1.2(3)	ED07
NTI-617.04	MAIN GEN OUTPUT BKR FAILS TO OPEN ON AUTOTRIP	YES	3.1.2(22)	EG04
NTI-617.09	FAILURE OF DG TO LOAD	YES	3.1.2(3)	EG09

ATTACHMENT 2  
PART 3  
PLANNED SCHEDULE FOR CONDUCT OF PERFORMANCE TESTS  
(MARCH 20, 1999 THROUGH MARCH 20, 2003)

YEAR TWO PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-619.03	FEEDWATER PUMP OVERSPD TRIP	YES	3.1.2(9)	FW03
NTI-619.10	CONDENSER VACUUM PUMP TRIP	YES	3.1.2(5)	FW10
NTI-619.20	SU FDW REG VLV FAILURE	YES	3.1.2(9)	FW20
NTI-619.36	FDW PIPE BREAK OUTSIDE CNTMT	YES	3.1.2(20)	FW36
NTI-621.02	IA ISOL VLV FAILS TO CLOSE ON CIAS	YES	3.1.2(2)	IA02
NTI-621.05	IA CMPRSR DISCH LINE RUPTURE	YES	3.1.2(2)	IA05
NTI-622.05	ATMOS STM DUMP VLV FAILS	YES	3.1.2(17)	MS05
NTI-622.12	MS LINE BREAK OUTSIDE CNTMT AFTER MSIV	YES	3.1.2(20)	MS12
NTI-623.03	CNTRL CH INSTRMNT FAILURE	YES	3.1.2(21)	NI03
NTI-625.02	RX PWR CB FAILS TO DROP CEAS	YES	3.1.2(11)	PW02
NTI-626.03	RCP SHAFT SEIZURE	YES	3.1.2(4)	RC03
NTI-626.09	RCP MIDDLE SEAL FAILURE	YES	3.1.2(4)	RC09
NTI-626.15	PZR CNTRL LT FAILS HI/LO	YES	3.1.2(18)	RC15
NTI-626.19	RCS COLD LEG SFTY TT FAILS	YES	3.1.2(22)	RC19
NTI-626.23	RCS COLD LEG PIPE RUPTURE	YES	3.1.2(1)	RC23
NTI-627.02	DROPPED CEA	YES	3.1.2(12)	RD02
NTI-627.06	CEA GRP UNCNTRLD INSERTION	YES	3.1.2(12)	RD06
NTI-627.11	CEAS MECHANICALLY STUCK	YES	3.1.2(12)	RD11
NTI-627.21	CEA UPR ELEC LIMIT FAILURE	YES	3.1.2(12)	RD21
NTI-629.03	RX TRIP WITH NO AUTO TURBINE TRIP	YES	3.1.2(19)	RP03
NTI-630.04	MFV FLOW CNTRL VLV FAILURE	YES	3.1.2(9)	RX04
NTI-630.09	S/G LEVEL CNTRL FAILURE	YES	3.1.2(22)	RX09
NTI-631.04	MS LINE PRESS XMTR FAILS	YES	3.1.2(22)	SG04
NTI-632.04	AIR BINDING IN SI SYSTEM	YES	3.1.2(7)	SI04
NTI-633.01	TURBINE LOAD CNTRL DMD FAILS	YES	3.1.2(17)	TC01
NTI-634.04	TCCW HX A OUTLET HDR LEAK	YES	3.1.2(6)	TP04

ATTACHMENT 2  
PART 3  
PLANNED SCHEDULE FOR CONDUCT OF PERFORMANCE TESTS  
(MARCH 20, 1999 THROUGH MARCH 20, 2003)

YEAR THREE PERFORMANCE TEST LIST

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-602.01	NORMAL OPERATION TEST	YES	A3.2	
NTI-603.01	45% ACCURACY TEST	YES	B2.1	
NTI-603.02	80% ACCURACY TEST	YES	B2.1	
NTI-603.03	100% ACCURACY TEST	YES	B2.1	
NTI-603.04	100% STABILITY TEST	YES	B2.1	
NTI-604.01	MANUAL REACTOR TRIP	YES	B2.2(1)	
NTI-604.02	SIM. TRIP OF ALL FDW PUMPS	YES	B2.2(2)	
NTI-604.03	SIM. CLOSURE OF ALL MSIVs	YES	B2.2(3)	
NTI-604.04	SIM. TRIP OF ALL RCPs	YES	B2.2(4)	
NTI-604.05	TRIP ANY RCP	YES	B2.2(5)	
NTI-604.06	MAIN TURBINE TRIP	YES	B2.2(6)	
NTI-604.07	MAX RATE POWER RAMP	YES	B2.2(7)	
NTI-604.08	MAX LOCA WITH LOP	YES	B2.2(8)	
NTI-604.09	MAX UNISOLABLE MS LEAK	YES	B2.2(9)	
NTI-604.10	SLOW RCS DEPRESS W/NO HPSI	YES	B2.2(10)	
NTI-604.11	REACTOR TRIP FOLLOWED BY RECOVERY TO RATED POWER	YES	3.1.1.4	
NTI-610.03	CCW PUMP BEARING SEIZURE	YES	3.1.2(8)	CC03
NTI-610.08	LOSS OF COOLING WTR TO DG	YES	3.1.2(8)	CC08
NTI-610.15	LOSS OF CCW TO LPSI PMP CLRS	YES	3.1.2(8)	CC15
NTI-610.19	AUX CCW PMP DISC HDR RUPTURE	YES	3.1.2(8)	CC19
NTI-614.03	CHRG PUMP SEAL LUBE PUMP MOTOR FAILS	YES	3.1.2(18)	CV03
NTI-614.15	CVCS LTDN LEAK OUTSIDE CNTMT	YES	3.1.2(1)	CV15
NTI-616.04	LOSS OF 6.9KV BUS (ES)	YES	3.1.2(3)	ED04
NTI-616.10	LOSS OF 208/120V BUS (ES)	YES	3.1.2(3)	ED10
NTI-617.05	EXCIT.BKR FAILS TO AUTOTRIP	YES	3.1.2(22)	EG05
NTI-617.10	DG OVERSPEED TRIP	YES	3.1.2(3)	EG10
NTI-617.20	STATOR COOLANT HIGH COND.	YES	3.1.2(15)	EG20
NTI-617.21	HYDROGEN S O MALFUNCTIONS	YES	3.1.2(22)	EG21
NTI-619.04	FDW PMP TURB SPD CNTRL FAIL	YES	3.1.2(9)	FW04
NTI-619.12	FDW PUMP TURBINE HIGH VIB	YES	3.1.2(9)	FW12

ATTACHMENT 2  
PART 3  
PLANNED SCHEDULE FOR CONDUCT OF PERFORMANCE TESTS  
(MARCH 20, 1999 THROUGH MARCH 20, 2003)

YEAR THREE PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-619.21	CONDENSER AIR IN LEAKAGE	YES	3.1.2(5)	FW21
NTI-619.37	FDW PIPE BREAK OUTSIDE CNTMT	YES	3.1.2(20)	FW37
NTI-621.03	RUPTURE AIR SUPPLY TO STEAM BYPASS VALVES	YES	3.1.2(2)	IA03
NTI-622.09	S/G STM FLOW XMTR FAILURE	YES	3.1.2(22)	MS09
NTI-622.13	MS LINE BREAK OUTSIDE CNTMT BEFORE MSIV	YES	3.1.2(20)	MS13
NTI-622.22	TURBINE 1ST STAGE PRESSURE XMTR FAILS	YES	3.1.2(22)	MS22
NTI-623.05	SU INSTRUMENT CH FAILURE	YES	3.1.2(21)	NI05
NTI-625.03	RX PWR CB FAILS TO SB/RB	YES	3.1.2(11)	PW03
NTI-626.04	RCP SHEARED SHAFT	YES	3.1.2(4)	RC04
NTI-626.11	CODE SAFETY FAILURE OPN/CLSD	YES	3.1.2(1)	RC11
NTI-626.16	RCP SPEED XMTR FAILS	YES	3.1.2(22)	RC16
NTI-626.20	RCS HOT LEG SFTY TT FAILS	YES	3.1.2(22)	RC20
NTI-626.24	RCS HOT LEG PIPE RUPTURE	YES	3.1.2(1)	RC24
NTI-627.03	CEAS FAIL TO MOVE IN MAN GP	YES	3.1.2(13)	RD03
NTI-627.12	CEA UNCNTRLD WITHDRAWAL	YES	3.1.2(12)	RD12
NTI-627.24	RX TRIP BRKR FAILS TO OPEN	YES	3.1.2(24)	RD24
NTI-629.04	ESFAS TRIP GENERATED	YES	3.1.2(23)	RP04
NTI-630.05	S/G LEVEL SETPOINT DRIFT	YES	3.1.2(22)	RX05
NTI-630.10	PZR BU HTRS FAIL	YES	3.1.2(18)	RX10
NTI-631.05	S/G LEVEL XMTR FAILURE	YES	3.1.2(22)	SG05
NTI-632.08	LPSI PUMP SUCT LINE RUPTURE	YES	3.1.2(7)	SI08
NTI-634.05	LOSS OF WTR TO HW COOLERS	YES	3.1.2(6)	TP05

ATTACHMENT 2  
PART 3  
PLANNED SCHEDULE FOR CONDUCT OF PERFORMANCE TESTS  
(MARCH 20, 1999 THROUGH MARCH 20, 2003)

YEAR FOUR PERFORMANCE TEST LIST

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-602.01	NORMAL OPERATIONS TEST	YES	A3.2	
NTI-603.01	45% ACCURACY TEST	YES	B2.1	
NTI-603.02	80% ACCURACY TEST	YES	B2.1	
NTI-603.03	100% ACCURACY TEST	YES	B2.1	
NTI-603.04	100% STABILITY TEST	YES	B2.1	
NTI-604.01	MANUAL REACTOR TRIP	YES	B2.2(1)	
NTI-604.02	SIM. TRIP OF ALL FDW PUMPS	YES	B2.2(2)	
NTI-604.03	SIM. CLOSURE OF ALL MSIVs	YES	B2.2(3)	
NTI-604.04	SIM. TRIP OF ALL RCPs	YES	B2.2(4)	
NTI-604.05	TRIP ANY RCP	YES	B2.2(5)	
NTI-604.06	MAIN TURBINE TRIP	YES	B2.2(6)	
NTI-604.07	MAX RATE POWER RAMP	YES	B2.2(7)	
NTI-604.08	MAX LOCA WITH LOP	YES	B2.2(8)	
NTI-604.09	MAX UNISOLABLE MS LEAK	YES	B2.2(9)	
NTI-604.10	SLOW RCS DEPRESS W/NO HPSI	YES	B2.2(10)	
NTI-604.11	REACTOR TRIP FOLLOWED BY RECOVERY TO RATED POWER	YES	3.1.1.4	
NTI-610.05	COOLING TOWER FAN(S) TRIP	YES	3.1.2(8)	CC05
NTI-610.09	LOSS OF CCW TO CNTMT FAN CLR	YES	3.1.2(8)	CC09
NTI-610.16	CCW UNISOLABLE LEAK IN CNTMT	YES	3.1.2(8)	CC16
NTI-610.21	CCW LINE BREAK IN AUX BLDG	YES	3.1.2(8)	CC21
NTI-614.05	LTDN BCK PRESS REG VLV FAILS	YES	3.1.2(18)	CV05
NTI-614.16	CHRG LINE BREAK INSIDE CNTMT	YES	3.1.2(1)	CV16
NTI-616.05	LOSS OF 4.16KV BUS (ES)	YES	3.1.2(3)	ED05
NTI-617.07	MAIN GEN AUTOVOLTAGE REG FAILS TO MANUAL	YES	3.1.2(22)	EG07
NTI-617.11	DG TRIP ON DIFF PROTECTION	YES	3.1.2(3)	EG11
NTI-619.06	MTR DRVN EMERG FDW PMP TRIP	YES	3.1.2(10)	FW06
NTI-619.14	CNDSR HW LVL CNTRL VLV FAIL	YES	3.1.2(5)	FW14
NTI-619.29	EMER FDW PIPE LEAK	YES	3.1.2(9)	FW29
NTI-619.38	FDW PIPE BREAK INSIDE CNTMT	YES	3.1.2(20)	FW38

ATTACHMENT 2  
PART 3  
PLANNED SCHEDULE FOR CONDUCT OF PERFORMANCE TESTS  
(MARCH 20, 1999 THROUGH MARCH 20, 2003)

YEAR FOUR PERFORMANCE TEST LIST (CONTINUED)

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-621.04	RUPTURED AIR SPLY TO RAB	YES	3.1.2(2)	IA04
NTI-622.10	MS FLOW XMTR FAILURE HI/LO	YES	3.1.2(22)	MS10
NTI-622.21	MS LINE BREAK DWNSTRM OF IFT-0300AS/BS IN CNTMT	YES	3.1.2(20)	MS21
NTI-623.07	SU CH FAILS TO DE-ENERGIZE	YES	3.1.2(21)	NI07
NTI-624.01	LOSS OF PMC PRI CMPTR CMLX	YES	3.1.2(22)	PC01
NTI-625.06	RAIL CEAC CHANNEL(S) LOSS OF CPO2 CRT CH. 1,2	YES	3.1.2(11)	PW06
NTI-626.05	RCP LOSS OF LUBE OIL	YES	3.1.2(4)	RC05
NTI-626.12	CODE SAFETY RELIEF VLV LEAKS	YES	3.1.2(1)	RC12
NTI-626.17	SI SYS PRESS INTLK FAILURE	YES	3.1.2(17)	RC17
NTI-626.21	RCS HOT LEG CNTRL TT FAILS	YES	3.1.2(22)	RC21
NTI-626.25	RCS LEAK SURGE LINE BREAK	YES	3.1.2(1)	RC25
NTI-627.04	CEAS FAIL TO MOVE IN MAN ID	YES	3.1.2(13)	RD04
NTI-627.09	CEA UNCNTRLD WITHDRW	YES	3.1.2(12)	RD09
NTI-627.13	CEA DRIFT	YES	3.1.2(12)	RD13
NTI-629.05	ESFAS CH FAILS TO TRIP	YES	3.1.2(23)	RP05
NTI-630.07	PZR PRESS CNTRLR FAILS OFF	YES	3.1.2(18)	RX07
NTI-630.11	PZR PROP HTRS FAIL ON/OFF	YES	3.1.2(18)	RX11
NTI-632.11	SDC HX TUBE LEAK	YES	3.1.2(7)	SI11
NTI-634.06	LOSS OF TCCW CLG TO IA/SA COMPRESSORS	YES	3.1.2(6)	TP06
NTI-635.06	TURBINE TRIP	YES	3.1.2(15)	TU06

**ATTACHMENT 3 TO W3F1-99-0182**  
**TESTS WITH UNRESOLVED DISCREPANCY**



ATTACHMENT 3  
TESTS WITH UNRESOLVED DISCREPANCY

<u>PERFORMANCE TEST NUMBER</u>	<u>TITLE</u>	<u>CERT. REQ'D</u>	<u>ANS-3.5 REF.</u>	<u>MALF USED</u>
NTI-626.25	RCS LEAK SURGE LINE BREAK	YES	3.1.2(1)	RC25

**ATTACHMENT 4 TO W3F1-99-0182**  
**CERTIFICATION TEST PLAN CHANGES**

ATTACHMENT 4  
CERTIFICATION TEST PLAN CHANGES

Year One

NTI-617.18 "H2 SEAL OIL PMP TRIP (H2)" deleted. Malfunction EG18 moved to EG21 (NTI-617.21).

Year Two

NTI-617.19 "H2 SEAL OIL PMP TRIP (H2)" deleted. Malfunction EG19 moved to EG21 (NTI-617.21).

NTI-613.02 "CNTMT SPRAY PUMP(S) FAIL TO AUTOSTART" has typographical error for procedure number. Should read NTI-613.01.

Year Three

NTI-617.21 "HYDROGEN S O MALFUNCTIONS" added. Malfunction EG21 includes response of EG18 (previously NTI-617.18) and EG19 (previously NTI-617.19).

Year Four

No changes to test plan.