



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609

October 19, 1995

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

Gentlemen:

In the Matter of	)	Docket No. 50-296
Tennessee Valley Authority	)	

**BROWNS FERRY NUCLEAR PLANT (BFN) - UNIT 3 - CHANGES TO  
RESTART TEST PROGRAM AND POWER ASCENSION PROGRAM**

During recent BFN restart review board meetings with NRC, TVA has described several areas of difference between the test programs conducted for Unit 2 and the planned test program for Unit 3. These areas include Training Criticals, Management Assessment Hold Points, and Control Rod Drive Friction Testing. One additional area of difference which has not been previously described involves testing of Drywell Piping Vibration. A description of each of these differences is included in Enclosure 1.

Additionally, changes to the Baseline Test Requirement Documents have resulted in a revision to the table listing the correlation between BFN Unit 2 and 3 Restart Test programs. This table was most recently submitted by TVA's letter to NRC dated July 19, 1993, "Restart Test Program Update for Unit 3." The revision to this table is provided as Enclosure 2. Shaded areas indicate changes from the July 19, 1993 submittal.

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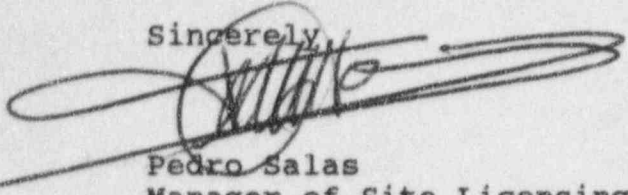
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There are no new commitments contained in this letter. If you have any questions, please contact me at (205) 729-2636.

Sincerely,



Pedro Salas  
Manager of Site Licensing

Enclosure

cc (Enclosure):

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## **ENCLOSURE 1**

### **TENNESSEE VALLEY AUTHORITY BROWNS FERRY NUCLEAR PLANT (BFN) UNIT 3**

#### **POWER ASCENSION PROGRAM (PAP)**

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##### **1. Training Criticals**

Training criticals, performed prior to Unit 2 return to service, will not be performed prior to Unit 3 operation. Prior to Unit 2 return to service in 1991, a BFN unit had not operated since 1985. Since Unit 2 return to service in 1991, operators and procedures have been exercised routinely on Unit 2 and the simulator. Consequently training criticals are not required for Unit 3 restart.

##### **2. Management Assessment Hold Points**

During the Unit 2 PAP, seven hold points were established for management assessments. For the Unit 3 PAP, five hold points have been established for management assessments as listed below:

- Completion of Open Vessel Testing
- Prior to Mode Switch to RUN
- Prior to Exceeding 35 percent Core Thermal Power
- Prior to Exceeding 55 percent Core Thermal Power
- Completion of Testing - Final Assessment

For the Unit 2 PAP, there were management assessment hold points after training criticals were performed and prior to exceeding 80 percent power. Since training criticals will not be performed during Unit 3 restart, a management assessment at this point is no longer required. Due to the limited testing performed between 55 percent and 80 percent core thermal power, no meaningful management assessment would be realized with a hold point prior to exceeding 80 percent power.

For Unit 2, a hold point was established prior to exceeding 25 percent power. This assessment will be performed for Unit 3 prior to exceeding 35 percent core thermal power.

##### **3. Control Rod Drive (CRD) Friction Testing**

For the Unit 2 PAP, CRD friction testing was performed for each control rod by measuring the pressure differential

between the insert and withdraw lines during control rod movement. In this method of testing, excessive differential pressure is indicative of high drive friction.

For Unit 3, CRD friction testing will be performed by measuring notch to notch times during continuous rod movement. Abnormal drive friction is indicated by a slower than normal time between notches. Additional diagnostic testing using the differential pressure method can be used should any CRDs exhibit high drive friction as indicated by the notch to notch times.

#### 4. **Drywell Piping Vibration Testing**

For the Unit 2 PAP, vibration qualification testing was performed for piping determined to be impacted by design changes and modifications. For those systems on Unit 3 where similar modifications have been performed, no additional vibration qualification testing is required.

On Unit 3, design changes and modifications have been made to the recirculation system piping. Vibration testing is planned to be performed on the impacted piping in conjunction with other recirculation system testing conducted in the open vessel test phase.



TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
001-01	PROVIDE MAIN TURBINE STOP VALVES < 90% OPEN TRIP SIGNAL TO REACTOR PROTECTION SYSTEM (99)	2-BFN-RTP-001	YES	
001-02	PROVIDE MAIN STEAMLINE ISOLATION VALVE < 90% OPEN TRIP SIGNAL TO REACTOR PROTECTION SYSTEM (99)	2-BFN-RTP-001	YES	
001-03	CLOSE MAIN STEAMLINE ISOLATION VALVES ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 1 ISOLATION SIGNAL.	2-BFN-RTP-001	YES	
001-04	CLOSE MAIN STEAM DRAIN LINE VALVES ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 1 ISOLATION SIGNAL	2-BFN-RTP-001	YES	
001-05	OPEN MAIN TURBINE STEAM BYPASS VALVES ON TURBINE CONTROL SYSTEM (47) TURBINE TRIP SIGNAL	2-BFN-RTP-047	YES	
001-06	CONTROLLED MANUAL DEPRESSURIZATION OF REACTOR PRESSURE VESSEL (RPV) BY OPENING AUTOMATIC DEPRESSURIZATION SYSTEM (ADS) SAFETY RELIEF VALVES (SRVS).	2-BFN-RTP-001	YES	
001-07	OPEN SAFETY RELIEF VALVES (SRVS) ON HIGH REACTOR PRESSURE TO PROVIDE RPV PRESSURE RELIEF.	2-BFN-RTP-001	YES	
001-08	AUTO OPENING OF ADS SRVS UPON COINCIDENT SIGNALS OF 2 CORE SPAY (CS) PUMPS (75) OR 1 RESIDUAL HEAT REMOVAL (RHR) PUMP (74) AND EITHER LOW WATER LEVEL (LWL) (L1&L3 FROM SYS 03) HIGH DRYWELL (DW) PRESSURE (SYS 64) AND TIME DELAY OR LWL (L1 FROM SYS 03) AND HIGH DW PRESSURE BYPASS TIME DELAY.	2-BFN-RTP-001	YES	
001-09	CLOSE MAIN TURBINE STOP VALVES UPON TURBINE CONTROL SYSTEM (47) DIVERSION OF HYDRAULIC PRESSURE DUE TO LOW CONDENSER VACUUM SIGNAL (SYSTEM 47).	2-BFN-RTP-047	YES	
001-11	MANUALLY DEACTIVATE NON-ADS SRVS AND MAIN STEAM ISOLATION VALVE (MSIV) TEST CIRCUITS TO PREVENT INADVERTENT RPV DEPRESSURIZATION AND LOSS OF COOLANT.	2-BFN-RTP-001	YES	
001-12	PROVIDE LOW PRESSURE SIGNAL (IN MAIN STEAM LINE AT TURBINE) TO PRIMARY CONTAINMENT SYSTEM (64) GROUP 1 ISOLATION LOGIC (RUN MODE).	2-BFN-RTP-001	YES	
001-13	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	
001-14	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
001-15	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
001-16	CLOSE FEEDWATER PUMP TURBINE STOP VALVES (TO TRIP FEEDWATER TURBINE) ON LOSS OF HYDRAULIC PRESSURE DUE TO ENERGIZATION OF FEEDWATER SYSTEM SOLENOID.	2-BFN-RTP-003B	YES	

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (B976)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
001-17	PROVIDE MAIN STEAM LINE HIGH FLOW AND HIGH STEAM TUNNEL TEMPERATURE SIGNALS TO PRIMARY CONTAINMENT SYSTEM (64) GROUP 1 ISOLATION	2-BFN-RTP-001	YES	
001-21	PROVIDE MAIN TURBINE STOP VALVE CLOSURE POSITION SIGNALS TO TURBINE CONTROL SYSTEM (47) WHICH INITIATES OPENING OF MAIN TURBINE BYPASS VALVES.	2-BFN-RTP-047	YES	
001-22	CLOSE MAIN TURBINE BYPASS VALVES UPON TURBINE CONTROL SYSTEM (47) DIVERSION OF HYDRAULIC PRESSURE DUE TO LOW CONDENSER VACUUM SIGNAL (SYSTEM 47).	2-BFN-RTP-001	YES	
001-23	PROVIDE >30% TURBINE FIRST STAGE PRESSURE INTERLOCK SIGNAL TO REACTOR PROTECTION SYSTEM (99) FAIL-SAFE LOGIC.	2-BFN-RTP-001	YES	
001-24	PROVIDE MAIN STEAM LINE PRESSURE SIGNAL TO TURBINE CONTROL SYSTEM (47) FOR OPERATION OF MAIN TURBINE BYPASS VALVES.	2-BFN-RTP-001	YES	
001-25	MANUALLY CLOSE MAIN STEAMLINE ISOLATION VALVES (MSIVs) AND MAIN STEAM DRAIN LINE VALVES.	2-BFN-RTP-001	YES	
002-06	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
002-08	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
003-01	PROVIDE HIGH REACTOR VESSEL PRESSURE TRIP SIGNAL TO REACTOR PROTECTION SYSTEM (99) FAIL-SAFE LOGIC.	2-BFN-RTP-003A	YES	
003-02	PROVIDE RPV LOW WATER LEVEL (L3) TRIP SIGNAL TO REACTOR PROTECTION SYSTEM (99).	2-BFN-RTP-003A	YES	
003-03	PROVIDE RPV LOW WATER LEVEL (L2) SIGNAL TO HPCI SYSTEM (73).	2-BFN-RTP-003A	YES	
003-04	PROVIDE RPV LOW WATER LEVEL (L3) PERMISSIVE SIGNAL TO MAIN STEAM SYSTEM (01) FOR ADS.	2-BFN-RTP-003A	YES	
003-05	PROVIDE RPV HIGH WATER LEVEL (L8) SIGNAL TO REACTOR CORE ISOLATION COOLING (RCIC) SYSTEM (71) AND/OR HIGH PRESSURE COOLANT INJECTION (HPCI) SYSTEM (73) FOR TURBINE TRIP.	2-BFN-RTP-003A	YES	
003-06	PROVIDE HIGH REACTOR VESSEL PRESSURE SIGNAL TO 250 VDC SYSTEM (573) TO OPEN RECIRCULATION PUMP M/G SET DRIVE MOTOR BREAKERS FOR TRIP OF RECIRCULATION PUMPS AND TO CONTROL ROD DRIVE (CRD) SYSTEM (85) TO INITIATE ALTERNATE ROD INSERT.	2-BFN-RTP-003A 2-BFN-RTP-068	YES	ANTICIPATED TRANSIENT WITHOUT SCRAM WAS TESTED BY RTP-068

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
003-07	PROVIDE LOW CONDENSER VACUUM SIGNAL TO ENERGIZE REACTOR FEEDWATER SYSTEM (3) SOLENOID TO CLOSE MAIN STEAM SYSTEM (1) FEEDWATER TURBINE STEAM SUPPLY STOP VALVES.	2-BFN-RTP-003B	YES	
003-08	PROVIDE RPV WATER LEVEL INDICATION AT BACKUP CONTROL CENTER.	2-BFN-RTP-003A	YES	
003-09	PROVIDE LOW REACTOR PRESSURE PERMISSIVE SIGNALS TO CORE SPRAY SYSTEM (75) FOR OPENING OF LOW PRESSURE EMERGENCY CORE COOLING SYSTEM (ECCS) INJECTION VALVES AND TO RHR SYSTEM (74) FOR CLOSING OF RECIRCULATION PUMP DISCHARGE VALVES.	2-BFN-RTP-003A	YES	
003-10	PROVIDE RPV LOW WATER LEVEL (L1) SIGNAL TO PRIMARY CONTAINMENT SYSTEM (64) GROUP 1 ISOLATION LOGIC.	2-BFN-RTP-003A	YES	
003-11	PROVIDE RPV HIGH WATER LEVEL (L8) SIGNAL TO FEEDWATER CONTROL SYSTEM (46) FOR MAIN TURBINE AND REACTOR FEEDWATER PUMP TURBINE TRIPS.	2-BFN-RTP-003A	YES	
003-12	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	
003-13	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
003-14	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
003-15	PROVIDE RPV LOW WATER LEVEL (L2) SIGNAL TO 250 SYSTEM (573) TO OPEN RECIRCULATION PUMP MOTOR GENERATOR (M/G) SET DRIVE MOTOR BREAKERS FOR TRIP OF RECIRCULATION PUMPS AND TO CRD SYSTEM (85) TO INITIATE ALTERNATE ROD INSERT.	2-BFN-RTP-068	YES	
003-16	PROVIDE RPV PRESSURE INDICATION IN MAIN CONTROL ROOM.	2-BFN-RTP-003A	YES	
003-18	CLOSE MAIN STEAM SYSTEM (1) FEEDWATER TURBINE STEAM SUPPLY STOP VALVES ON LOW CONDENSER VACUUM OR RPV HIGH WATER LEVEL (L8) SIGNALS.	2-BFN-RTP-003A	YES	
003-19	INDICATE RPV WATER LEVEL IN THE CONTROL ROOM.	2-BFN-RTP-003A	YES	
003-20	PROVIDE RPV LOW WATER LEVEL (L2) SIGNAL VIA RHR SYSTEM (74) FOR AUTOMATIC RCIC SYSTEM (71) INITIATION.	2-BFN-RTP-003A	YES	
003-21	PROVIDE RPV LOW WATER LEVEL (L1) SIGNAL TO MAIN STEAM SYSTEM (1) FOR ADS.	2-BFN-RTP-003A	YES	
003-22	PROVIDE RPV LOW WATER LEVEL (L1) SIGNAL TO CORE SPRAY SYSTEM (75) FOR CORE SPRAY RHR-LOW PRESSURE COOLANT INJECTION (LPCI) (74) AND DIESEL GENERATOR (82) START.	2-BFN-RTP-003A	YES	

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
003-23	PROVIDE RPV PRESSURE INDICATION AT BACKUP CONTROL CENTER.	2-BFN-RTP-003A	YES	
003-25	THE UPPER LIMIT ON FEEDWATER FLOW MUST RESTRICT FLOW TO ABOUT 130% (RELOAD ANALYSIS ASSUMPTION).	NONE	YES	
003-26	PROVIDE 2/3 CORE COVERAGE PERMISSIVE SIGNAL TO RHR SYSTEM FOR CONTAINMENT COOLING MODES	NONE	YES	
003-27	PROVIDE REACTOR VESSEL HIGH WATER LEVEL (L8) SIGNAL TO RCIC SYSTEM (71) TURBINE TRIP	NONE	YES	
010-01	PROVIDE PATH FOR MAIN STEAM SYSTEM (1) SVS STEAM SLOWDOWN TO PRIMARY CONTAINMENT SYSTEM (64) SUPPRESSION POOL.	2-BFN-RTP-003A	YES	TEST VACUUM BRKAKER VALVES ONLY
010-02	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	
012-01	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
012-02	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
018-01	PROVIDE DIESEL FUEL OIL TO DIESEL GENERATOR SYSTEM (82).	2-BFN-RTP-082	NO	UNIT 2 TEST ADEQUATELY SATISFIED REQUIREMENT
018-02	MAINTAIN 7 DAY (LONG TERM) SUPPLY OF FUEL OIL IN STORAGE TANKS IN SUPPORT OF DIESEL GENERATOR SYSTEM (82).	2-BFN-RTP-082	NO	UNIT 2 TEST ADEQUATELY SATISFIED REQUIREMENT
018-03	MAINTAIN SHORT TERM SUPPLY OF FUEL OIL IN 7 DAY STORAGE TANKS BY TRANSFERRING FUEL OIL BETWEEN AVAILABLE FUEL OIL STORAGE TANKS IN SUPPORT OF DIESEL GENERATOR SYSTEM (82).	2-BFN-RTP-082	NO	TESTS WERE PERFORMED IN ACCORDANCE WITH UNIT 2 RTP TEST 2-BFN-RTP-082 REV. 0 AND REV. 1. THESE TESTS WERE REVIEWED AND FOUND TO BE ACCEPTABLE TO VERIFY THE SYSTEM MODE REQUIREMENTS FOR UNIT 3 RESTART.
023-01	PROVIDE COOLING WATER TO RHR SYSTEM (74) HEAT EXCHANGERS.	2-BFN-RTP-023	YES	
023-03	PROVIDE COOLING WATER TO EECW SYSTEM (67) UPON START OF THE RESIDUAL HEAT REMOVAL SERVICE WATER (RHRSW) PUMPS.	2-BFN-RTP-023	YES	



TABLE

CORRELATION BETWEEN BROWNE FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
023-04	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
023-06	PROVIDE WHEELER LAKE LEVEL INDICATION/ALARM AT ELEVATION 558 FEET AND RISING AS WELL AS AT ELEVATION 564 FEET AND RISING.	2-BFN-RTP-023	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
023-07	PROVIDE PRIMARY CONTAINMENT BOUNDARY. CLOSE RHR SERVICE WATER SYSTEM VALVES 1-FSV-23-56 AND 2-FSV-23-56 ON RHR SYSTEM (74) UNIT CROSS-TIE VALVES OPEN POSITION SIGNAL.	2-BFN-RTP-023	NO	UNIT 2 TEST SATISFIES REQUIREMENTS. SEE NOTE 2
023-08	MANUAL RHRSW SYSTEM OPERATION TO PROVIDE COOLING WATER TO RHR SYSTEM (74) HEAT EXCHANGERS FROM OUTSIDE OF MAIN CONTROL ROOM.	2-BFN-RTP-023	YES	
023-09	PROVIDE SUMP PUMP CAPABILITY	2-BFN-RTP-023	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
024-01	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
024-02	PROVIDE PRESSURE BOUNDARY INTEGRITY TO EECW SYSTEM (67).	2-BFN-RTP-024	NO	CHECK VALVES REMOVED BY DCN W27299
024-04	PROVIDE A FLOW PATH THROUGH UNITS 1 AND 2 CONTROL ROOM CHILLERS	2-BFN-RTP-031A	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
024-05	PROVIDE RCW SUPPLY HEADER LOW PRESSURE PERMISSIVE SIGNAL TO 4-KV POWER DISTRIBUTION SYSTEM (575) FOR STARTING OF RHRSW SYSTEM (23) PUMPS.	2-BFN-RTP-024	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
024-06	PROVIDE MANUAL CONTROL FROM OUTSIDE THE MAIN CONTROL ROOM OF RCW PUMPS 1D AND 3D TO PREVENT OVERLOADING OF DIESEL GENERATORS (SYSTEM 82).	2-BFN-RTP-BUC	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
025-01	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
025-04	PREVENT AUTOMATIC START OF HIGH PRESSURE FIRE PROTECTION SYSTEM (26) PUMPS (LOCK-OUT) TO PREVENT OVERLOADING THE DIESEL GENERATORS (SYSTEM 82).	2-BFN-RTP-025	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
025-05	PREVENT START OF HIGH PRESSURE FIRE PROTECTION SYSTEM (26) PUMPS (FROM OUTSIDE THE MAIN CONTROL ROOM) TO PREVENT OVERLOADING THE DIESEL GENERATORS (SYSTEM 82).	2-BFN-RTP-BUC	NO	UNIT 2 TEST SATISFIES REQUIREMENTS

TABLE  
CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
026-01	SUPPORT SECONDARY CONTAINMENT FUNCTION.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
026-02	VERIFY HIGH PRESSURE FIRE PROTECTION (HPFP) AUTOMATIC-START INHIBIT LOGIC	2-BFN-RTP-025	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
027-01	PROVIDE WARM WATER CHANNEL LEVEL INDICATION IN THE MAIN CONTROL ROOM.	2-BFN-RTP-027	NO	MODE DELETED FROM BASELINE TEST REQUIREMENT DOCUMENTS (BTRD)
027-02	PROVIDE FOREBAY LEVEL INDICATION IN THE MAIN CONTROL ROOM FOR MANUAL ACTIONS TO REDUCE POWER OR IF NECESSARY INITIATE SCRAM.	2-BFN-RTP-027	NO	MODE DELETED FROM BTRD
027-03	PROVIDE COOLING TOWER LIFT PUMP DISCHARGE WATER HIGH TEMPERATURE SIGNAL TO 4-KV POWER DISTRIBUTION SYSTEM (575) FOR TRIPPING OF THE CORRESPONDING COOLING TOWER LIFT PUMP.	NONE	NO	REQUIRED ONLY FOR OPERATION IN CLOSED MODE - OPERATION IN CLOSED MODE PROHIBITED UNTIL RESOLUTION OF SCAR BFSCA9200016 (NOT REQUIRED FOR UNIT 3 RESTART)
027-04	PROVIDE MANUAL VACUUM BREAKING CAPABILITY TO PREVENT BACKFLOW OF COOLING TOWER WARM WATER DISCHARGE INTO THE FOREBAY UPON TRIP OF THE CCW PUMPS.	2-BFN-RTP-027	YES	MODE (027-04) DESCRIPTION WILL BE SATISFIED DURING PERFORMANCE OF 3-TI-310
027-05	PROVIDE FOREBAY/WARM WATER CHANNEL DIFFERENTIAL LEVEL INDICATION IN THE MAIN CONTROL ROOM.	2-BFN-RTP-027	NO	THIS MODE DELETED BY CHANGE NOTICE (CN-2) TO 2/3-BFN-BTRD-027.
029-01	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
030-01	PROVIDE VENTILATION TO UNITS 1 AND 2 DIESEL GENERATOR BUILDING.	2-BFN-RTP-030	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
030-02	PROVIDE VENTILATION TO UNIT 3 DIESEL GENERATOR BUILDING.	2-BFN-RTP-030	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
030-03	PROVIDE VENTILATION TO 250V BATTERY ROOM 3EB IN THE UNIT 3 DIESEL GENERATOR BUILDING TO PREVENT A BUILDUP OF HYDROGEN GAS DURING BATTERY CHARGING.	2-BFN-RTP-030	NO	UNIT 2 TEST SATISFIES REQUIREMENTS

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNIT 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
031-01	ISOLATE SUPPLY DUCTS AND SUPPLY PRESSURIZED FILTERED OUTDOOR AIR TO MAIN CONTROL ROOM ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION SIGNAL OR RADIATION MONITORING SYSTEM (90) INITIATION SIGNAL.	2-BFN-RTP-03.B	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
031-02	PROVIDE VENTILATION TO REACTOR BUILDING BOARD ROOMS AND CONTROL BAY MECHANICAL EQUIPMENT ROOMS.	2-BFN-RTP-031B	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
031-03	PROVIDE RECIRCULATION AIR COOLING TO REACTOR BUILDING BOARD ROOMS.	2-BFN-RTP-031B	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
031-04	PROVIDE VENTILATION AND AIR CONDITIONING TO UNIT 3 DIESEL GENERATOR BUILDING BOARD ROOMS.	2-BFN-RTP-031B	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
031-05	PROVIDE RECIRCULATION AIR CONDITIONING TO CONTROL ROOMS AND AUXILIARY INSTRUMENT ROOMS.	2-BFN-RTP-031B	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
031-06	PROVIDE VENTILATION TO BATTERY ROOMS.	2-BFN-RTP-031B	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
031-08	PROVIDE MANUAL LINEUP OF HEATING, VENTING, & AIR CONDITIONING (HVAC) EQUIPMENT WITH TOTAL LOSS OF CONTROL AIR.	2-BFN-RTP-031A	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
031-09	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
032-01	PERFORM ISOLATION ACTION(S) UPON RECEIVING PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION SIGNALS.	2-BFN-RTP-032	YES	
032-02	PROVIDE COMPRESSED AIR TO MAIN STEAM SYSTEM (01) ADS SAFETY RELIEF VALVES (SRVS).	2-BFN-RTP-001	YES	
032-03	PROVIDE COMPRESSED AIR FOR CLOSURE OF MAIN STEAM ISOLATION VALVES (SYSTEM 01).	2-BFN-RTP-001	YES	
032-04	PROVIDE COMPRESSED AIR TO EQUIPMENT ACCESS LOCK SEALS TO PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-032	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
032-05	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
032-06	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
032-09	VERIFY FLOW PATH INTEGRITY FOR CONTAINMENT ATMOSPHERE DILUTION (CAD) NITROGEN TO THE TORUS TO REACTOR BLDG VACUUM BREAKER VALVES	NONE	NO	POST MOD TESTING (PMT) FOR DCN W17933A SATISFIES THIS REQUIREMENT
033-01	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
033-02	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
037-01	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
039-C1	INHIBIT SPURIOUS C02 INITIATION SIGNAL WHEN VENTILATION (SYSTEM 30) IS REQUIRED IN DIESEL GENERATOR BUILDINGS.	2-BFN-RTP-039	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
040-01	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
043-01	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	
043-02	CLOSE SAMPLING AND WATER QUALITY SYSTEM ISOLATION VALVES ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 1 ISOLATION SIGNAL (ONLY ON RPV LOW WATER LEVEL (L1) AND MAIN STEAM LINE HIGH RADIATION).	2-BFN-RTP-069	YES	
043-03	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
043-04	MAINTAIN RHRSW SYSTEM (23) PRESSURE BOUNDARY INTEGRITY.	2-BFN-RTP-023	YES	
043-05	PROVIDE CAPABILITY OF MANUAL BACKUP CONTROL ISOLATION (VALVE CLOSURE) TO PREVENT LOSS OF REACTOR WATER INVENTORY.	2-BFN-RTP-BUC	YES	
043-06	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
043-07	CLOSE POST ACCIDENT SUPPLY SYSTEM ISOLATION VALVES UPON RECEIVING PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION SIGNAL.	NONE	NO	NEW MODE TESTED BY PMT ON UNIT 2. WILL BE TESTED BY PMT FOR DCN W17460A FOR UNIT 3.
044-01	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
046-01	PROVIDE RPV HIGH WATER LEVEL (L8) SIGNAL TO ENERGIZE REACTOR FEEDWATER SYSTEM (3) SOLENOID TO CLOSE MAIN STEAM SYSTEM (1) FEEDWATER TURBINE STEAM SUPPLY STOP VALVES.	2-BFN-RTP-003B	YES	



TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
047-01	PROVIDE MAIN TURBINE CONTROL VALVE FAST CLOSURE SIGNAL TO REACTOR PROTECTION SYSTEM (99).	2-BFN-RTP-047	YES	
047-03	PROVIDE HYDRAULIC CLOSURE OF MAIN STEAM SYS (01) TURBINE STOP VALVES UPON LOW CONDENSER VACUUM (APPROXIMATELY 20 HG) SIGNAL.	2-BFN-RTP-047	YES	
047-04	PROVIDE HYDRAULIC CLOSURE OF MAIN STEAM SYS (01) MAIN TURBINE BYPASS VALVES UPON LOW CONDENSER VACUUM (APPROXIMATELY 7 HG) SIGNAL.	2-BFN-RTP-047	YES	
047-05	PROVIDE HYDRAULIC CONTROL TO OPEN MAIN STEAM SYS (01) MAIN TURBINE BYPASS VALVES ON TURBINE TRIP (MAIN TURBINE STOP VALVE CLOSURE) SIGNAL.	2-BFN-RTP-047	YES	
050-01	VERIFY THAT THE NaOH CHECK VALVES PROVIDE PRESSURE BOUNDARY INTEGRITY TO THE EECW SYSTEM	2-BFN-RTP-067	NO	NOT TESTED AS BTRD - CHECK VALVES TESTED PER ASME SECTION XI IN 0-SI-3.2.23
053-01	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
063-01	MANUAL INJECTION OF BORON SOLUTION INTO REACTOR GIVEN INDICATION OF INCOMPLETE INSERTION OF CONTROL RODS (CRD SYSTEM 85) AND REACTOR NOT BEING IN SUBCRITICAL CONDITION (NEUTRON MONITORING SYSTEM (NMS) SYSTEM 92).	2-BFN-RTP-063	YES	
063-02	PROVIDE STANDBY LIQUID CONTROL SYSTEM (SLCS) INITIATION SIGNAL TO REACTOR WATER CLEANUP (RWCU) SYSTEM (69) FOR ISOLATION OF RWCU SYSTEM FROM THE REACTOR TO PREVENT ENTRY OF BORON SOLUTION INTO RWCU SYSTEM.	2-BFN-RTP-069	YES	
063-03	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY.	2-BFN-RTP-068	YES	
063-04	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
064-01	PROVIDE SIGNAL TO CLOSE GROUP 1 PRIMARY CONTAINMENT ISOLATION VALVES [MAIN STEAM SYSTEM (1) AND SAMPLE AND WATER QUALITY (SWQ) SYSTEM (43)].	2-BFN-RTP-064A	YES	
064-02	PROVIDE SIGNAL TO CLOSE GROUP 2 PRIMARY CONTAINMENT ISOLATION VALVES [RHR SYSTEM (74) CORE SPRAY SYSTEM (75) AND RADWASTE SYSTEM (77)].	2-BFN-RTP-064A	YES	
064-03	PROVIDE SIGNAL TO CLOSE GROUP 3 PRIMARY CONTAINMENT ISOLATION VALVES [RWCU SYSTEM (69)].	2-BFN-RTP-064A	YES	

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
064-04	PROVIDE SIGNAL TO CLOSE GROUP 6 PRIMARY CONTAINMENT ISOLATION VALVES (SYSTEMS 32,43,54,76,84 AND 90) ISOLATE AC SYSTEM (31) SUPPLY DUCTS TO MAIN CONTROL ROOM (MCR) INITIATE EMERGENCY PRESSURIZATION SYSTEM (31) TRIP FANS & POSITION DAMPERS (64) & INITIATE SGTS (65).	2-BFN-RTP-064A	YES	
064-05	PROVIDE SIGNAL TO CLOSE GROUP 8 ISOLATION VALVES. SYSTEM (94) IS NOT TO PERFORM ACTIVE ISOLATION FUNCTION.	2-BFN-RTP-064A	YES	
064-06	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
064-08	PROVIDE HIGH DRYWELL PRESSURE TRIP SIGNAL TO REACTOR PROTECTION SYSTEM (99).	2-BFN-RTP-064A	YES	
064-09	PROVIDE HIGH DRYWELL PRESSURE SIGNAL TO RHR SYSTEM (74) FOR LPCI INITIATION LOGIC AND TO CORE SPRAY SYSTEM (75) FOR SYSTEM INITIATION LOGIC 480V LOAD SHED LOGIC DIESEL GENERATOR START LOGIC AND HPCI SYSTEM (73) INITIATION LOGIC.	2-BFN-RTP-064A	YES	
064-10	PROVIDE VACUUM RELIEF SYSTEM (VACUUM BREAKER VALVES) TO PREVENT DRYWELL OR SUPPRESSION CHAMBER (TORUS) NEGATIVE PRESSURE FROM DAMAGING CONTAINMENT STRUCTURE.	2-BFN-RTP-064A	YES	
064-11	PROVIDE DRYWELL TEMPERATURE INDICATION IN MAIN CONTROL ROOM IN SUPPORT OF RHR SYSTEM (74) DRYWELL SPRAY (CONTAINMENT COOLING) MODE.	2-BFN-RTP-064A	YES	
064-12	PROVIDE SUPPRESSION POOL TEMPERATURE INDICATION IN MAIN CONTROL ROOM IN SUPPORT OF RHR SYSTEM (74) CONTAINMENT COOLING (TORUS COOLING AND DRYWELL/TORUS SPRAY) MAIN STEAM SYSTEM MANUAL RPV DEPRESSURIZATION AND RPS SYSTEM (99) MANUAL SCRAM.	2-BFN-RTP-064A	YES	
064-13	PROVIDE SUPPRESSION POOL LEVEL INDICATION IN MAIN CONTROL ROOM IN SUPPORT OF RHR SYSTEM (74) CONTAINMENT COOLING AND MAIN STEAM SYSTEM (1) MANUAL RPV DEPRESSURIZATION. PROVIDE PRESSURE BOUNDARY INTEGRITY TO HPCI SYSTEM (73).	2-BFN-RTP-064A	YES	
064-14	PROVIDE DRYWELL PRESSURE INDICATION IN MAIN CONTROL ROOM IN SUPPORT OF RHR SYSTEM (74) CONTAINMENT COOLING (DRYWELL/TORUS SPRAY) AND CONTAINMENT ATMOSPHERE DILUTION SYSTEM (64) CONTAINMENT VENTING AFTER A LOCA.	2-BFN-RTP-064A	YES	
064-15	PROVIDE DRYWELL TEMPERATURE INDICATION OUTSIDE THE MAIN CONTROL ROOM IN SUPPORT OF MAIN STEAM SYSTEM (1) MANUAL RPV DEPRESSURIZATION AND RHR SYSTEM (74) OPERATION FROM OUTSIDE THE MAIN CONTROL ROOM.	2-BFN-RTP-064A	YES	

TABLE

CORRELATION BETWEEN BROWNE FERRY NUCLEAR (BFN)  
 UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
064-16	PROVIDE SUPPRESSION POOL TEMPERATURE INDICATION OUTSIDE THE MAIN CONTROL ROOM (MCR) IN SUPPORT OF MAIN STEAM SYSTEM (1) MANUAL RPV DEPRESSURIZATION RHE SYSTEM (74) OPERATION AND REACTOR PROTECTION SYSTEM (99) MANUAL SCRAM FROM OUTSIDE THE MCR.	2-BFN-RTP-064A	YES	
064-17	PROVIDE SUPPRESSION POOL LEVEL INDICATION OUTSIDE THE MAIN CONTROL ROOM IN SUPPORT OF MAIN STEAM SYSTEM (1) MANUAL RPV DEPRESSURIZATION RCIC SYSTEM (71) OPERATION AND RHR SYSTEM (74) OPERATION FROM OUTSIDE THE MAIN CONTROL ROOM.	2-BFN-RTP-064A	YES	
064-18	PROVIDE DRYWELL PRESSURE INDICATION OUTSIDE THE MAIN CONTROL ROOM IN SUPPORT OF RHR SYSTEM OPERATION FROM OUTSIDE THE MAIN CONTROL ROOM.	2-BFN-RTP-064A	YES	
064-21	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
064-23	PROVIDE FORCED AIR COOLING FOR RHR SYSTEM (74) AND CORE SPRAY SYSTEM (75) PUMP MOTORS.	2-BFN-RTP-030	YES	
064-25	PROVIDE HIGH DRYWELL PRESSURE SIGNAL TO MAIN STEAM SYSTEM (1) FOR AUTOMATIC DEPRESSURIZATION SYSTEM (ADS) LOGIC.	2-BFN-RTP-064A	YES	
064-27	CLOSE PRIMARY CONTAINMENT VENTILATION SYSTEM ISOLATION VALVES ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION SIGNAL.	2-BFN-RTP-065	YES	
064-28	PERFORM ISOLATION ACTION(S) [TRIP FANS CLOSURE OF DAMPERS OPENING OF DAMPERS TO SGTS (65)] ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION SIGNALS.	2-BFN-RTP-064A 2-BFN-RTP-065	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
065-01	MAINTAIN NEGATIVE PRESSURE IN SECONDARY CONTAINMENT ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION SIGNAL. FILTER AIRBORNE PARTICULATE & GASES [INCLUDING THAT FROM HPCI SYSTEM (73) & CAD SYSTEM (34)] PRIOR TO DISCHARGE TO OFF-GAS SYSTEM (66).	2-BFN-RTP-065	NO	UNIT 2 TEST SATISFIED REQUIREMENTS
065-03	MAINTAIN NEGATIVE PRESSURE IN SECONDARY CONTAINMENT ON PRIMARY CONTAINMENT SYSTEM (64) SIGNAL DUE TO RADIATION MONITORING SYSTEM REFUELING ZONE HIGH RADIATION SIGNAL. FILTER AIRBORNE PARTICULATE & GASES PRIOR TO DISCHARGE TO OFF-GAS SYSTEM (66).	2-BFN-RTP-065	NO	UNIT 2 TEST SATISFIED REQUIREMENTS
065-04	PROVIDE SECONDARY CONTAINMENT INTEGRITY.	2-BFN-RTP-065	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
066-02	PROVIDE FLOW PATH INTEGRITY FOR THE RELEASE OF THE FILTERED STANDBY GAS TREATMENT SYSTEM (65) GASES TO THE STACKS.	2-BFN-RTP-065	NO	UNIT 2 TEST SATISFIES REQUIREMENTS

## TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
066-04	OFF-GAS DILUTION FAN ISOLATION DAMPERS SHALL BE CLOSED ON INITIATION OF THE SGT SYSTEM (65).	2-BFN-RTP-065	NO	PMT FOR DCN W/17999A SATISFIES REQUIREMENTS
067-01	PROVIDE COOLING WATER TO AC SYSTEM (31) CHILLERS RHR SYSTEM (74) PUMP SEAL COOLERS CIS (76) O <sub>2</sub> & H <sub>2</sub> GAS ANALYZERS DIESEL ENGINES (82) RHR & CORE SPRAY EQUIPMENT ROOM COOLERS (64) & FUEL POOL (79). MAINTAIN EECW SYSTEM (23) PRESSURE BOUNDARY.	2-BFN-RTP-067	YES	
067-02	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
067-03	FOR SHUTDOWN FROM OUTSIDE OF MAIN CONTROL ROOM: (1) PROVIDE COOLING WATER TO RHR & CORE SPRAY EQUIPMENT ROOM COOLERS (64) RHR SYSTEM (74) PUMP SEAL COOLERS DIESEL ENGINES (82) & FUEL POOL (79) (2) MAINTAIN EECW SYSTEM (23) PRESSURE BOUNDARY.	2-BFN-RTP-067	PARTIAL	<p>RHR SW PUMP BACKUP TEST CONTROL IS TESTED IN 2/3-BFN-BTRD-023</p> <p>HEADER INVENTORY TEST IS UNNECESSARY - CHECK VALVES TESTED PER ASME SECTION XI IN 1-SI-3-2.4 AND 3-SI-3-2.40</p> <p>FUEL POOL MAKEUP IS A LONG TERM FUNCTION - PUMPS AND VALVES CAN BE MANUALLY ALIGNED TO ACCOMPLISH REQUIREMENT</p>
067-05	ATTACH A FIRE HOSE TO EECW TO MAINTAIN WATER LEVEL IN THE FUEL POOL.	2-BFN-RTP-067	YES	
068-01	CLOSE RECIRCULATION PUMP DISCHARGE VALVES ON RHR SYSTEM (74) AUTOMATIC LPCI MODE INITIATION SIGNAL.	2-BFN-RTP-068	YES	
068-02	OPEN RECIRCULATION PUMP MOTOR BREAKERS ON REACTOR PROTECTION SYSTEM (99) SIGNAL DUE TO >30% TURBINE FIRST STAGE PRESSURE AND EITHER MAIN TURBINE CONTROL VALVE FAST CLOSURE OR MAIN TURBINE STOP VALVES <90% OPEN MANUALLY ENABLED END-OF-CYCLE RPT).	2-BFN-RTP-068	YES	
068-03	CLOSE RECIRCULATION PUMP DISCHARGE VALVES MANUALLY IN SUPPORT OF MANUALLY INITIATED RHR SYSTEM (74) SHUTDOWN COOLING MODE AND LPCI MODE (FROM MAIN CONTROL ROOM AND OUTSIDE MAIN CONTROL ROOM).	2-BFN-RTP-068	YES	
068-04	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	



TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
068-05	PROVIDE LOW REACTOR PRESSURE PERMISSIVE SIGNALS TO CORE SPRAY SYSTEM (75) AND RHR SYSTEM (74).	2-BFN-RTP-068	YES	
068-06	TRIP RECIRCULATION PUMP MOTOR MOTOR-GENERATOR SET ON OPENING OF 4KV POWER DISTRIBUTION SYSTEM (575) M-G SET DRIVE MOTOR BREAKERS DUE TO HIGH REACTOR PRESSURE OR LOW WATER LEVEL (L2).	2-BFN-RTP-068	YES	
068-07	PROVIDE A PROPORTIONAL CORE FLOW SIGNAL TO THE NEUTRON MONITORING SYSTEM (092) FOR ROD BLOCK LOGIC	NONE	YES	
068-08	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
068-09	MAINTAIN MG SET SPEED CHANGES WITHIN ANALYZED LIMITS	NONE	YES	
068-10	REQUIREMENTS FOR LOOP WARMUP PRIOR TO RECIRC PUMP START	NONE	NO	PROCEDURALLY CONTROLLED
069-01	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
069-02	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
069-03	CLOSE RWCU SYSTEM ISOLATION VALVES ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 3 ISOLATION SIGNAL.	2-BFN-RTP-069	YES	
069-04	CLOSE RWCU SYSTEM SUCTION LINE ISOLATION VALVES ON STANDBY LIQUID CONTROL SYSTEM (63) INITIATION SIGNAL TO PREVENT ENTRY OF BORON SOLUTION INTO RWCU SYSTEM.	2-BFN-RTP-069	YES	
069-05	PROVIDE HIGH RWCU SYSTEM EQUIPMENT AREA ATMOSPHERE AND DRAIN TEMPERATURE SIGNALS TO PRIMARY CONTAINMENT SYSTEM (64) GROUP 3 ISOLATION LOGIC.	2-BFN-RTP-069	YES	
069-06	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	
069-07	PROVIDE SYSTEM PRESSURE BOUNDARY SUPPORT (CHECK VALVE) TO HPCI SYSTEM (73) TO PREVENT DIVERSION OF HPCI SYSTEM CORE COOLING WATER FROM REACTOR VESSEL.	2-BFN-RTP-069	YES	
069-08	PROVIDE FLOW PATH FOR RCIC SYSTEM (71) CORE COOLING WATER TO REACTOR FEEDWATER SYSTEM (3) SPARGERS.	2-BFN-RTP-069	YES	
069-09	PROVIDE CAPABILITY OF MANUAL BACKUP CONTROL ISOLATION (VALVE CLOSURE) TO PREVENT LOSS OF REACTOR WATER INVENTORY.	2-BFN-RTP-BUC	YES	
070-01	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
070-02	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
070-03	PROVIDE DRYWELL COOLING WHEN POWER AND COOLING WATER ARE AVAILABLE.	2-BFN-RTP-030	YES	
071-01	AUTOMATIC RCIC SYSTEM INITIATION ON REACTOR FEEDWATER SYSTEM (3) RPV LOW WATER LEVEL (L2) SIGNAL TRANSMITTED VIA RHR SYSTEM (74). AUTOMATIC RCIC SYSTEM SHUTOFF (IF OPERATING) ON REACTOR FEEDWATER SYSTEM (3) RPV HIGH WATER LEVEL (L8) SIGNAL.	2-BFN-RTP-071	YES	
071-02	MANUAL RCIC INITIATION AND TRIP TO CONTROL LEVEL. (NON-LOCA UNIT)	2-BFN-RTP-071	YES	
071-03	CLOSE RCIC SYSTEM STEAM SUPPLY LINE ISOLATION VALVES ON RCIC SYSTEM GROUP 5 ISOLATION SIGNALS (HIGH STEAM LINE DIFFERENTIAL PRESSURE HIGH STEAM LINE SPACE TEMPERATURE OR LOW STEAM LINE PRESSURE).	2-BFN-RTP-071	YES	
071-04	MANUALLY CLOSE RCIC SYSTEM STEAM SUPPLY LINE ISOLATION VALVES ON REACTOR FEEDWATER SYSTEM (3) INDICATION OF LOW RPV PRESSURE.	2-BFN-RTP-071	YES	
071-05	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	
071-07	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
071-08	PROVIDE SYSTEM PRESSURE BOUNDARY IN SUPPORT OF RHR SYSTEM (74) CONTAINMENT (TORUS) COOLING FUNCTION.	2-BFN-RTP-068	YES	
071-09	MANUAL RCIC SYSTEM OPERATION FROM OUTSIDE THE MAIN CONTROL ROOM TO MAINTAIN NORMAL RPV WATER INVENTORY WHILE RPV PRESSURE IS ABOVE 100 PSIG.	2-BFN-RTP-071	YES	
071-10	PROVIDE POWER TO ECCS DIVISION I AND II ANALOG TRIP UNITS [REACTOR FEEDWATER SYSTEM (3) PRIMARY CONTAINMENT SYSTEM (64) REACTOR WATER RECIRCULATION SYSTEM (68) RCIC SYSTEM (71) AND HPCI SYSTEM (73)].	2-BFN-RTP-071	YES	
071-11	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
073-01	AUTOMATIC HPCI SYSTEM INITIATION ON REACTOR FEEDWATER SYSTEM (3) RPV LOW WATER LEVEL (L2) SIGNAL. AUTOMATIC HPCI SYSTEM SHUTOFF (IF OPERATING) ON REACTOR FEEDWATER SYSTEM (3) RPV HIGH WATER LEVEL (L8) SIGNAL.	2-BFN-RTP-073	YES	
073-02	PROVIDE MCR INDICATION OF AUTO TRANSFER OF SUCTION PATH ON LOW CONDENSATE LEVEL	NONE	YES	

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
073-03	CLOSE HPCI SYSTEM STEAM SUPPLY LINE ISOLATION VALVES ON HPCI SYSTEM GROUP 4 ISOLATION SIGNALS (HIGH STEAM LINE DIFFERENTIAL PRESSURE HIGH STEAM LINE SPACE TEMPERATURE OR LOW STEAM LINE PRESSURE).	2-BFN-RTP-073	YES	
073-04	MANUALLY CLOSE HPCI SYSTEM STEAM SUPPLY LINE ISOLATION VALVES ON REACTOR FEEDWATER SYSTEM (3) INDICATION OF LOW RPV PRESSURE.	2-BFN-RTP-073	YES	
073-05	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB) DURING HPCI SYSTEM STANDBY.	2-BFN-RTP-068	YES	
073-06	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB) DURING HPCI SYSTEM OPERATION.	2-BFN-RTP-068	YES	
073-07	PROVIDE PRIMARY CONTAINMENT BOUNDARY DURING HPCI SYSTEM STANDBY.	2-BFN-RTP-064A	NO	SEE NOTE 2
073-08	PROVIDE PRIMARY CONTAINMENT BOUNDARY DURING HPCI SYSTEM OPERATION.	2-BFN-RTP-064A	NO	SEE NOTE 2
073-09	MANUALLY TRIP HPCI SYSTEM FROM OUTSIDE THE MAIN CONTROL ROOM TO PREVENT RPV OVERFILL.	2-BFN-RTP-073	YES	
073-11	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
073-12	PROVIDE POWER TO PRIMARY CONTAINMENT SYSTEM (64) DRYWELL PRESSURE INDICATORS IN SUPPORT OF RHR SYSTEM DRYWELL/TORUS SPRAY MODE AND CONTAINMENT ATMOSPHERE DILUTION SYSTEM POST-LOCA CONTAINMENT VENTING MODE.	2-BFN-RTP-064A	NO	THIS MODE NOT REQUIRED FOR UNIT 3 - INDICATORS POWERED FROM SYS 064
074-01	AUTOMATIC LPCI MODE INITIATION ON RPV LOW WATER LEVEL (L1) SIGNAL OR HIGH DRYWELL PRESSURE SIGNAL WITH CONCURRENT LOW RPV PRESSURE PERMISSIVE SIGNAL. MANUAL LPCI MODE INITIATION FROM THE MAIN CONTROL ROOM.	2-BFN-RTP-074	YES	
074-02	PROVIDE SUPPRESSION POOL WATER COOLING TO MAINTAIN SUPPRESSION POOL WATER TEMPERATURE BELOW LIMITS TO ASSURE THAT PUMP NPSH REQUIREMENTS ARE MET AND THAT COMPLETE CONDENSATION OF BLOWDOWN STEAM FROM A DESIGN BASIS LOCA CAN BE EXPECTED.	2-BFN-RTP-074	YES	
074-03	PROVIDE SPRAY TO DRYWELL AND TORUS FOR CONTAINMENT COOLING AND LOWERING OF CONTAINMENT PRESSURE UNDER POST-ACCIDENT CONDITIONS.	2-BFN-RTP-074	YES	
074-04	PROVIDE SHUTDOWN COOLING MODE (MANUAL) TO RESTORE REACTOR TEMPERATURE TO NORMAL.	2-BFN-RTP-074	YES	

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
074-09	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
074-10	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	
074-11	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
074-12	PROVIDE SIGNAL (THAT A RHR PUMP IS RUNNING) TO MAIN STEAM SYSTEM (1) AUTOMATIC DEPRESSURIZATION SYSTEM (ADS) INITIATION LOGIC.	2-BFN-RTP-074	YES	
074-17	PROVIDE AUTOMATIC LPCI MODE INITIATION SIGNAL FOR CLOSURE OF REACTOR WATER RECIRCULATION SYSTEM (68) PUMP DISCHARGE VALVES.	2-BFN-RTP-074	YES	
074-19	MANUAL RHR SYSTEM OPERATION (LPCI TORUS COOLING AND SHUTDOWN COOLING MODES) FROM OUTSIDE THE MAIN CONTROL ROOM.	2-BFN-RTP-BUC	YES	
074-20	PROVIDE FLOW PATH AND PRESSURE BOUNDARY INTEGRITY FOR RHR SERVICE WATER SYSTEM (23) COOLANT TO THE MAIN RHR SYSTEM HEAT EXCHANGERS.	2-BFN-RTP-074	YES	
074-21	PROVIDE REACTOR FEEDWATER SYSTEM (3) RPV LOW WATER LEVEL (L2) SIGNAL FOR AUTOMATIC RCIC SYSTEM (71) INITIATION.	2-BFN-RTP-071	YES	
074-22	PROVIDE RHR SYSTEM UNIT CROSS-TIE VALVES OPEN POSITION SIGNAL TO RHR SERVICE WATER SYSTEM (23) FOR CLOSURE OF RHR SERVICE WATER VALVES TO MAINTAIN PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-023	NO	NOT PART OF SAFE SHUTDOWN ANALYSIS
074-23	RHR ISOLATION SIGNAL TRIPPED ON SIGNAL FROM PRIMARY CONTAINMENT SYSTEM (64).	2-BFN-RTP-064A	YES	
075-01	SUPPLY COOLING WATER TO REACTOR - AUTO INITIATION.	2-BFN-RTP-075	YES	
075-03	PROVIDE CS PUMP POWER DISCONNECT FROM OUTSIDE MCR.	2-BFN-RTP-075	YES	
075-04	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY.	2-BFN-RTP-068	YES	
075-05	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
075-06	PROVIDE ACCIDENT SIGNAL INPUT TO 480V LOAD SHED LOGIC.	2-BFN-RTP-075	NO	NOT TESTED AS BTRD REQUIREMENT. TESTED AS PART OF DCN W20217A AND W21284A



## TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
075-07	PROVIDE START SIGNAL TO DIESEL GENERATOR ON LOW LEVEL (L1) OR HIGH DRYWELL PRESSURE.	2-BFN-RTP-075	YES	
075-08	PROVIDE PRIMARY CONTAINMENT SYSTEM (64) HIGH DRYWELL PRESSURE SIGNAL FOR AUTOMATIC HPCI SYSTEM (73) OPERATION.	2-BFN-RTP-073	YES	
075-10	PROVIDE SIGNALS (THAT CORE SPRAY PUMPS ARE RUNNING) TO MAIN STEAM SYSTEM (1) AUTOMATIC DEPRESSURIZATION SYSTEM (ADS) INITIATION LOGIC.	2-BFN-RTP-075	YES	
075-11	PROVIDE REACTOR FEEDWATER SYSTEM (3) RPV LOW WATER LEVEL (L1) SIGNAL TO RHR SYSTEM (74) LPCI MODE INITIATION LOGIC.	2-BFN-RTP-074	YES	
075-12	PROVIDE REACTOR FEEDWATER SYSTEM (3) AND REACTOR WATER RECIRCULATION SYSTEM (68) LOW REACTOR PRESSURE SIGNALS TO RHR SYSTEM (74) LPCI MODE INITIATION LOGIC.	2-BFN-RTP-068	YES	
075-13	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
075-14	PERFORM ISOLATION ACTIONS UPON RECEIVING ISOLATION SIGNAL (LOW LEVEL L3 OR HIGH DRYWELL PRESSURE) FROM THE PRIMARY CONTAINMENT SYSTEM (64).	2-BFN-RTP-064A	YES	
075-17	PROVIDE LOAD SHEDDING SIGNAL TO 480V AC SYSTEM (574) ON REACTOR LOW WATER LEVEL (L1) OR COINCIDENT HIGH DRYWELL PRESSURE AND LOW REACTOR PRESSURE	2-BFN-RTP-L/L-A	NO	NOT TESTED AS BTRD REQUIREMENT. TESTED AS PART OF DCN W20217A AND W21284A
075-18	PROVIDE START SIGNAL TO CONTAINMENT RADIATION MONITORING RECORDERS ON LOW LEVEL (L1) OR HIGH DRYWELL PRESSURE	NONE	NO	FUNCTION DELETED BY DCN W17556
076-01	CLOSE CONTAINMENT INERTING SYSTEM ISOLATION VALVES ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION SIGNAL.	2-BFN-RTP-084	YES	
076-02	PROVIDE OXYGEN AND HYDROGEN GAS ANALYZERS AND INDICATORS TO MONITOR GAS CONCENTRATIONS INSIDE THE PRIMARY CONTAINMENT IN SUPPORT OF CONTAINMENT ATMOSPHERE DILUTION SYSTEM (84) OPERATION.	2-BFN-RTP-084	YES	
076-03	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
076-04	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
077-01	CLOSE RADWASTE SYSTEM ISOLATION VALVES ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 2 ISOLATION SIGNALS.	2-BFN-RTP-024	YES	
077-02	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
077-03	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
078-01	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
078-02	PROVIDE PRESSURE BOUNDARY INTEGRITY AT RHR/FPC INTERFACE.	2-BFN-RTP-074	YES	INCLUDED IN SYSTEM 74 BTRD
078-03	PREVENT INADVERTENT SIPHONING OF THE SPENT FUEL POOL.	2-BFN-RTP-069	NO	TESTED SATISFACTORILY PER PMT-BF-78.003
079-01	PROVIDE SAFE FUEL HANDLING USING REFUEL BRIDGE & EQUIPMENT.	2-BFN-RTP-079	YES	
079-02	PROVIDE INTERLOCKS TO CRD SYSTEM DURING FUEL MOVEMENT.	2-BFN-RTP-085	YES	
082-01	START STANDBY AC POWER SOURCE FOR 4KV SYSTEM(575)	2-BFN-RTP-082	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
082-02	PROVIDE POWER TO 4KV SYSTEM (575) UPON DIESEL GENERATOR (D/G) AVAILABILITY AND LOSS OF OFF-SITE POWER.	2-BFN-RTP-082	YES	
082-03	PROVIDE D/G POWER TO DIESEL FUEL TRANSFER PUMPS(SYSTEM 18).	2-BFN-RTP-082	NO	UNIT 2 TEST SATISFIES ALL REQUIREMENTS
084-01	PROVIDE DILUTION OF THE PRIMARY CONTAINMENT ATMOSPHERE WITH NITROGEN AFTER A LOCA TO MAINTAIN COMBUSTIBLE GAS (OXYGEN AND HYDROGEN) CONCENTRATIONS BELOW LEVELS (OXYGEN 5% BY VOLUME) WHICH COULD) PRODUCE A COMBUSTIBLE GAS MIXTURE.	2-BFN-RTP-084	YES	
084-03	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
084-04	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING

TABLE

CORRELATION BETWEEN BROWNS FERRY NUCLEAR (BFN)  
UNITS 1 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
084-05	PROVIDE NITROGEN TO THE CONTROL AIR SYSTEM (32) IN SUPPORT OF LONG TERM OPERABILITY OF MAIN STEAM SYSTEM ADS SAFETY RELIEF VALVES (SRVS) - APPENDIX R.	NONE	NO	TESTING WILL BE DONE BY FMT FOR DCN17937
084-06	CLOSE CAD SYSTEM VENT VALVES ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION SIGNAL.	2-BFN-RTP-084	YES	
085-01	PROVIDE SCRAM (99) AND CLOSE SDV VENT DRAIN VALVES.	2-BFN-RTP-085	YES	
085-02	PROVIDE PRIMARY CONTAINMENT BOUNDARY.	2-BFN-RTP-064A	NO	SEE NOTE 2
085-03	PROVIDE SECONDARY CONTAINMENT BOUNDARY.	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
085-04	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	
085-05	PREVENT ROD WITHDRAWAL.	2-BFN-RTP-085	YES	
085-08	PROVIDE MCR ROD POSITION INDICATION.	2-BFN-RTP-085	YES	
085-09	PROVIDE SCRAM DISCHARGE HIGH WATER LEVEL SIGNAL.	2-BFN-RTP-085	YES	
085-10	PROVIDE SCRAM DISCHARGE LOW AIR HEADER PRESSURE SIGNAL.	2-BFN-RTP-085	YES	
085-11	PROVIDE REMOTE BACKUP CONTROL FROM OUTSIDE THE MAIN CONTROL ROOM.	2-BFN-RTP-BUC	NO	MODE NO LONGER REQUIRED BY SAFE SHUTDOWN ANALYSIS
085-14	PROVIDE ALTERNATE ROD INSERTION BY OPENING BACKUP SCRAM VALVES ON FEEDWATER SYSTEM (3) RPV LOW WATER LEVEL (L2) SIGNAL OR HIGH REACTOR VESSEL PRESSURE SIGNAL.	2-BFN-RTP-085	NO	TESTING WILL BE DONE PER PMT FOR DCN W19321
085-16	PROVIDE ROD SELECT IDENTIFICATION	2-BFN-RTP-085	YES	
086-01	PROVIDE DIESEL STARTING AIR TO DIESEL GENERATOR SYSTEM (82).	2-BFN-RTP-082	NO	TESTS WERE PERFORMED IN ACCORDANCE WITH 2-BFN-RTP-082 REV 0 AND 1. THE RESULTS OF THESE TESTS WERE REVIEWED AND FOUND TO BE ACCEPTABLE TO VERIFY SYSTEM MODE REQUIREMENTS FOR UNIT 3.
090-01	PROVIDE MAIN STEAM LIVE HIGH RADIATION SIGNAL TO REACTOR PROTECTION SYSTEM (99).	2-BFN-RTP-090	NO	FUNCTION DELETED BY DCN W22478A

TABLE

CORRELATION BETWEEN BROWN PERRY NUCLEAR (BPN)  
UNITS 1 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
090-02	PROVIDE PRIMARY CONTAINMENT BOUNDARY (UP TO 2-PCV-90-254AB-255-257AB).	2-BFN-RTP-064A	NO	PASSIVE FUNCTION SEE NOTE 2
090-03	PROVIDE REACTOR BUILDING VENTILATION EXHAUST LINE AND REFUELING ZONE AREA (ADJACENT TO THE FUEL POOLS) HIGH RADIATION SIGNALS TO PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION LOGIC.	2-BFN-RTP-090	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
090-04	PROVIDE CONTROL ROOM INTAKE AIR DUCTS EXCESSIVE RADIATION SIGNAL TO AIR CONDITIONING SYSTEM (31) FOR INITIATION OF CONTROL ROOM EMERGENCY VENTILATION (ISOLATION OF INTAKE DUCTS AND SUPPLY OF PRESSURIZED FILTERED OUTDOOR AIR).	2-BFN-RTP-031B	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
090-05	CLOSE VALVES ON SUCTION AND RETURN LINES TO THE DRYWELL RADIOACTIVE PARTICULATE IODINE AND GASEOUS MONITOR ON PRIMARY CONTAINMENT SYSTEM (64) GROUP 6 ISOLATION SIGNAL.	2-BFN-RTP-090	YES	
090-07	PROVIDE RHRSW SYSTEM PRESSURE BOUNDARY	NONE	YES	INCLUDED IN SYSTEM 23 BTRD
090-08	PROVIDE SECONDARY CONTAINMENT BOUNDARY	2-BFN-RTP-065	NO	SECONDARY CONTAINMENT WAS TESTED AS A WHOLE DURING UNIT 2 TESTING
092-01	PROVIDE IRM HIGH NEUTRON FLUX TRIP SIGNAL TO REACTOR PROTECTION SYSTEM	2-BFN-RTP-092	YES	
092-02	PROVIDE APRM HIGH NEUTRON FLUX TRIP SIGNAL TO REACTOR PROTECTION SYSTEM (99).	2-BFN-RTP-092	YES	
092-04	PROVIDE ROD BLOCK MONITOR TRIP SIGNAL [VARIABLE WITH RECIRC SYSTEM (68) FLOW] TO THE REACTOR MANUAL CONTROL SUBSYSTEM (85) TO INHIBIT CONTROL ROD WITHDRAWAL	NONE	YES	
092-05	PROVIDE INDICATION IN MAIN CONTROL ROOM OF POWER/NEUTRON FLUX LEVEL AS MONITORED ON LPRM/APRMS	NONE	YES	
092-07	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB).	2-BFN-RTP-068	YES	
094-01	PROVIDE PRIMARY CONTAINMENT INTEGRITY.	2-BFN-RTP-064A	YES	
094-03	PROVIDE REACTOR COOLANT PRESSURE BOUNDARY (RCPB) (PASSIVE FUNCTION ONLY)	2-BFN-RTP-064A	YES	
099-01	PROVIDE AUTO SCRAM & SDV VENT/DRAIN VALVE ISOLATION SIGNAL TO CRD SYSTEM(85).	2-BFN-RTP-099	YES	
099-02	PROVIDE MANUAL SCRAM SIGNAL AND SDV VENT/DRAIN VALVE ISOLATION SIGNALS TO CRD SYSTEM(85).	2-BFN-RTP-099	YES	



TABLE

CORRELATION BETWEEN BROWN'S FERRY NUCLEAR (BFN)  
UNITS 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
099-03	PROVIDE 'RUN' MODE SIGNAL TO PCIS (64) FOR LOW STEAMLINE PRESSURE ISOLATION PERMISSIVE.	2-BFN-RTP-099	YES	
099-04	PROVIDE REFUEL INTERLOCK TO REACTOR MANUAL CONTROL SYSTEM. (85)	2-BFN-RTP-085	YES	
099-05	PROVIDE TRIP SIGNAL TO RECIRC PUMP MOTOR BREAKERS (SYSTEM 68).	2-BFN-RTP-068	YES	
099-06	PROVIDE SIGNALS TO PRIMARY CONTAINMENT ISOLATION SYSTEM (64) LOGIC.	2-BFN-RTP-099	YES	
244-01	PROVIDE COMMUNICATION FROM LOCAL PANELS FOR SHUTDOWN FROM OUTSIDE THE MCR.	2-BFN-RTP-244	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
303-04	SECONDARY CONTAINMENT LEAKAGE RATE CRITERIA MUST BE MAINTAINED BY THE REACTOR BUILDING.	2-BFN-RTP-065	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
571-01	PROVIDE 125V DC CONTROL POWER TO DG CIRCUITRY (SYSTEM 82).	2-BFN-RTP-57-1	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
572-02	PROVIDE UNIT PREFERRED POWER DISTRIBUTION.	2-BFN-RTP-57-2	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
572-03	PROVIDE 120V AC POWER FOR REACTOR PROTECTION SYSTEM (RPS) SYSTEM.	2-BFN-RTP-57-2	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
572-04	PROVIDE CONTROL OF THE 120V AC POWER FOR RPS SYSTEM	2-BFN-RTP-57-2	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
573-01	PROVIDE CONTROL & LOGIC POWER TO 4KV & 480V SWITCHGEAR.	2-BFN-RTP-57-3	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
573-03	PROVIDE MOTIVE POWER & LOGIC POWER TO EQUIPMENT.	2-BFN-RTP-57-3	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
573-05	PROVIDE LOGIC POWER TO 480V LOAD SHED LOGIC.	2-BFN-RTP-57-3	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
574-01	PROVIDE 480V SWITCHGEAR DISTRIBUTION.	2-BFN-RTP-57-4	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
574-02	PROVIDE 480V MCC DISTRIBUTION.	2-BFN-RTP-57-4	YES	
574-03	PROVIDE 480V LOAD SHED LOGIC SYSTEM.	2-BFN-RTP-57-4	NO	TO BE TESTED BY PMT FOR DCN W21284A
574-04	PROVIDE 480V AC DISTRIBUTION BACKUP CONTROL.	2-BFN-RTP-BUC	YES	MODE 574-04 TEST BACKUP CONTROLS TO HVAC BOARD B FEEDERS
574-05	PROVIDE 480V LOAD SHED ON DEGRADED VOLTAGE CONDITIONS	2-BFN-RTP-57-4	YES	MODE 574-05 TESTS UNDERVOLTAGE LOAD SHEDDING FOR HVAC BOARD B

TABLE

CORRELATION BETWEEN BROWN FERRY NUCLEAR (BFN)  
UNIT 2 AND 3 RESTART TEST PROGRAM (RTP)

SYSTEM MODE	MODE DESCRIPTION	UNIT 2 TEST	TEST FOR U3	COMMENTS
575-01	PROVIDE 4 KV POWER DISTRIBUTION FOR DG LOADING (SYSTEM 82).	2-BFN-RTP-L/L-A	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
575-02	PROVIDE RECIRCULATION PUMP TRIP UPON SIGNAL.	2-BFN-RTP-068	YES	
575-03	PROVIDE INSTRUMENTATION FOR DG PARALLELING (SYSTEM 82)	2-BFN-RTP-57-5	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
575-04	PROVIDE INITIATION SIGNAL TO DIESELS (SYSTEM 82).	2-BFN-RTP-57-5	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
575-05	PROVIDE COOLING TOWER LIFT PUMP TRIP ON CIRCULATING COOLING WATER SYSTEM (27) LIFT PUMP DISCHARGE WATER HIGH TEMPERATURE SIGNAL	NONE	NO	REQUIRED ONLY FOR OPERATION IN CLOSED MODE - OPERATION IN CLOSED MODE PROHIBITED UNTIL RESOLUTION OF SCAR BF3CA9200016 (NOT REQUIRED FOR UNIT 3 RESTART)
575-06	BACKUP CONTROL FOR 4KV FEEDER BREAKERS OUTSIDE THE CONTROL BAY.	2-BFN-RTP-BUC	NO	UNIT 2 TEST SATISFIES REQUIREMENTS
575-07	LOAD SHEDDING TO PREVENT OVERLOADING OF 4KV SYSTEM (575).	2-BFN-RTP-57-5	NO	NOT TESTED AS PART OF BTRD - TESTED AS POST MODIFICATION TEST FOR DCNS W20217 AND W23484

Note 1: System modes in which a Unit 2 test was not performed and a Unit 3 test is not required have been removed from the table.

Note 2: All active functions which support the primary containment pressure boundary (e.g., primary containment isolation) shall be covered by the baseline test requirement document (BTRD) of the system performing the active function. All functional tests for the isolation logic of the primary containment isolation system are addressed by BTRD-064D. Piping and components which form and supply the primary containment pressure boundary must be leak rate tested in accordance with 10 CFR 50 Appendix J and shall be hydrostatically tested under the ASME Section XI program. Therefore, testing for these modes are not required as part of the restart test program.