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76. Unit 1 was at 100% Reactor Power when Reactor Recirc Pump 1A tripped. Total Core Flow indication lowered to 50%.

Which ONE of the following completes the statements below?

Following the trip, APRM Flow Biased Scram set point will be __(1)__ Simulated Thermal Power.

The APRM Flow Biased Simulated Thermal Power – HIGH setpoint is required to be adjusted to Single Loop allowable value within a MAXIMUM of __(2)__ in accordance with T.S. 3.4.1, "Recirculation Loops Operating."

- A. (1) 92% (2) 12 hours
- B. (1) 92% (2) 24 hours
- C. (1) 98% (2) 12 hours
- D. (1) 98% (2) 24 hours

77. Which ONE of the following completes the statement below?

In accordance with the Unit 1 Bases for Tech Spec 3.3.1.1, "RPS Instrumentation," an RPS actuation is required as a result of Turbine Stop Valve Closure above a **MINIMUM** Reactor Power of ___(1)__ to ensure the __(2)__ Safety Limit is not exceeded.

- A. (1) 25%
 - (2) Reactor core MCPR
- B. (1) 25%(2) Reactor Coolant System RPV Pressure
- C. (1) 30% (2) Reactor core MCPR
- D. (1) 30%(2) Reactor Coolant System RPV Pressure

- 78. Unit 3 was operating at 100% Reactor Power when the following occurred:
 - Main Control Room evacuation is required due to a fire in the Control Bay
 - The Backup Control Panel is manned twenty-five (25) minutes after evacuation of the Main Control Room
 - The Unit Supervisor is informed that ONE SRV is continuously open **AND** a second SRV is cycling periodically

Which ONE of the following completes the statements below?

Based on the SRV status, Reactor Power is currently between __(1)__.

In accordance with EPIP-1, "Emergency Plan Implementing Procedure," the **HIGHEST** emergency action level classification that is required for these conditions is a (an) (2).

- A. (1) 6% and 14% (2) Alert
- B. (1) 15% and 23%(2) Alert
- C. (1) 6% and 14%(2) Site Area Emergency
- D. (1) 15% and 23%(2) Site Area Emergency

- 79. Unit 1 RHR 1A is in Shutdown Cooling with Reactor Coolant temperature at 180° F. The Drywell Equipment Hatch is open. A leak on RHR Loop I results in the following:
 - RHR LOOP I PUMP ROOM FLOOD LEVEL HIGH, (1-9-4C, Window 17), is in alarm
 - RHR Loop I is secured AND isolated
 - RHR Loop II is placed in service
 - Reactor Coolant Temperature is now 215° F

Which ONE of the following completes the statements below?

Entry into 1-EOI-3, "Secondary Containment Control," __(1)__ required. In accordance with EPIP-1, "Emergency Plan Implementing Procedure," __(2)__.

[REFERENCE PROVIDED]

- A. (1) is(2) Emergency Action Level for an Alert is met
- B. (1) is(2) Emergency Action Level for a Site Area Emergency is met
- C. (1) is NOT(2) Emergency Action Level for an Alert is met
- D. (1) is NOT
 (2) Emergency Action Level for a Site Area Emergency is met

- 80. Unit 3 was operating at 100% Reactor Power, when a leak in the Drywell resulted in the following conditions:
 - Drywell Pressure is 57 psig and rising
 - Suppression Chamber Pressure is 56 psig and rising
 - Suppression Pool Level is 15 feet
 - Drywell Radiation is 2500 R/Hr
 - Reactor Water Level lowered to (-) 180 inches and is now (-) 170 inches and rising

Which ONE of the following identifies the required procedure to vent the Primary Containment **AND** the release rate requirements during the venting process in accordance with 3-EOI-2, "Primary Containment Control?"

- A. 3-EOI-APPENDIX-12, "Primary Containment Venting"; vent irrespective of offsite release rates
- B. 3-EOI-APPENDIX-12, "Primary Containment Venting" venting MUST be secured if approaching General Emergency Release Rate Limits
- C. 3-EOI-APPENDIX-13,"Emergency Venting Primary Containment"; vent irrespective of offsite release rates
- D. 3-EOI-APPENDIX-13,"Emergency Venting Primary Containment"; venting MUST be secured if approaching General Emergency Release Rate Limits

- 81. Given the following plant conditions on Unit 3:
 - A steam line break has occurred inside the Drywell
 - ALL Reactor Water Level (RWL) instruments display erratic indication
 - Reactor Pressure AND Drywell Temperature are in the Action Required region of RPV Saturation Curve 8

Which ONE of the following completes the statement below?

The Unit Supervisor must select EOI flowchart __(1)__ for these conditions and raise injection to establish Reactor Pressure to a **MINIMUM** of __(2)__ above Suppression Chamber Pressure.

- A. (1) 3-C-4, "RPV Flooding"(2) 70 psig
- B. (1) 3-C-2, "Emergency Depressurization"
 (2) 70 psig
- C. (1) 3-C-4, "RPV Flooding" (2) 90 psig
- D. (1) 3-C-2, "Emergency Depressurization"(2) 90 psig

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- 82. Unit 1 is at 100% Reactor Power:
 - Main Steam Line radiation levels are greater than three times normal full power background
 - OG AVG ANNUAL RELEASE RATE EXCEEDED 1-RA-90-157C, (1-9-4C, Window 27) is in alarm

Which ONE of the following completes the statement below?

The direction **AND** criteria to **CLOSE** MSIVs is contained in __(1)__ AND is based upon a determination that __(2)__.

- A. (1) 0-EOI-4, "Radioactivity Release Control"
 - (2) releases are still in excess of Offsite Dose Calculation Manual limits
- B. (1) Alarm Response Procedure 1-9-3A, Window 27 Section for MAIN STEAM LINE RADIATION HIGH-HIGH
 - (2) releases are still in excess of Offsite Dose Calculation Manual limits
- C. (1) 0-EOI-4, "Radioactivity Release Control"
 (2) the reactor will remain subcritical without boron under all conditions
- D. (1) Alarm Response Procedure 1-9-3A, Window 27 Section for MAIN STEAM LINE RADIATION HIGH-HIGH
 - (2) the reactor will remain subcritical without boron under all conditions

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- 83. UNIT 2 was at 100% Reactor Power when an accident resulted in the following conditions:
 - Main Steam Tunnel Temperature in the Turbine Building is 298 °F and rising.
 - Main Steam Tunnel Temperature in the Reactor Building is 190 °F and rising.
 - Main Steam Line C Inboard AND Outboard MSIVs can NOT be closed.
 - Gaseous Release Rate Stack Noble Gas (WRGERMS) reading has been $6 \times 10^{10} \mu$ Ci/sec for 16 minutes.
 - NO Offsite Emergency Response Facilities are operational.

Which ONE of the following completes the statements below?

In accordance with the EOIs, Emergency Depressurization __(1)__ required to be performed for these conditions.

The Shift Manager / Site Emergency Director __(2)__ delegate the determination of Protective Action Recommendation.

[REFERENCE PROVIDED]

- A. (1) is (2) can
- B. (1) is NOT (2) can
- C. (1) is (2) CANNOT
- D. (1) is NOT (2) CANNOT

- 84. A leak into Unit 2 Suppression Pool has resulted in the following indications:
 - At 0200 Suppression Pool Level is (-) 3 inches and rising at 1 inch per hour

Which ONE of the following completes the statements below?

The Tech Spec Limit for 3.6.2.2, "Suppression Pool Level," will be reached at __(1)__.

The bases of the Tech Spec Suppression Pool upper level limit is to ___(2)__ during a DBA LOCA.

- A. (1) 0315
 - (2) ensure that peak primary containment pressure does not exceed maximum allowable values
- B. (1) 0315
 - (2) prevent excessive clearing loads from S/RV discharges and excessive pool swell loads
- C. (1) 0400
 - (2) ensure that peak primary containment pressure does not exceed maximum allowable values
- D. (1) 0400
 - (2) prevent excessive clearing loads from S/RV discharges and excessive pool swell loads

85. Unit 3 was operating at 100% Reactor Power. RHR Pump 3B was tagged out for planned maintenance at 0600 on 1/13/11.

At 1000 on 1/14/11, a RCIC steam line leak occurred in the Reactor Building resulting in a trip of Loop I Core Spray Room Cooler.

Based on these conditions, which ONE of the following identifies the **LATEST** time that Unit 3 must be in Mode 3 in accordance with Tech Spec 3.5.1, "ECCS-Operating"?

[REFERENCE PROVIDED]

- A. 2200 on 1/14/11
- B. 2300 on 1/14/11
- C. 1800 on 1/20/11
- D. 2200 on 1/21/11

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86. Unit 1 has experienced a Loss of Offsite Power concurrent with a LOCA. Multiple equipment failures have resulted in need for RHR Crosstie to be lined up for injection into the reactor.

Which ONE of the following completes the statements below?

Unit 1 RHR can be crosstied to Unit 2 RHR __(1)__.

The Unit 2 RHR Pump Suction Valve interlocks must be defeated in accordance with ___(2)___.

- A. (1) Loop I
 (2) 2-OI-74, "Residual Heat Removal System"
- B. (1) Loop I
 (2) 1-EOI Appendix 7C, "Alternate RPV Injection System Lineup RHR Crosstie"
- C. (1) Loop II(2) 2-OI-74, "Residual Heat Removal System"
- D. (1) Loop II
 (2) 1-EOI Appendix 7C, "Alternate RPV Injection System Lineup RHR Crosstie"

- 87. The following conditions exist on Unit 3:
 - Reactor Power is 100%
 - Emergency Diesel Generator 3EA is tagged out of service

The following sequence of events occur:

- 1130 ALL Offsite power is lost and NO Unit 3 EDG's tie to their associated Board
- 1140 EDG 3EB started and tied to its associated Board
- 1145 EDG 3EB Output Breaker trips open and cannot be closed
- 1155 EDG 3EC started and tied to its associated Board
- 1205 EDG 3EB Output Breaker is repaired and subsequently closed

Which ONE of the following identifies the **HIGHEST** emergency classification required **AND** who the Site Emergency Director should notify within five minutes of classifying the event?

[REFERENCE PROVIDED]

- A. Alert; Operations Duty Specialist
- B. Alert; State of Alabama
- C. Site Area Emergency; Operations Duty Specialist
- D. Site Area Emergency; State of Alabama

88. Unit 3 is at 100% Reactor Power. Standby Gas Treatment System (SGTS) A was tagged out of service on 1/16/11 at 0600. SGTS B has been manually started. At 1000 on 1/16/11, a container is removed from the Unit 3 Spent Fuel Pool (SFP) resulting in the following Refuel Zone Radiation Monitor indications:

- 3-RM-90-140 Detector A is reading 73 mr/hr
- 3-RM-90-140 Detector B is reading 72 mr/hr
- 3-RM-90-141 Detector A is reading 71 mr/hr
- 3-RM-90-141 Detector B is reading 71 mr/hr

SGTS C did **NOT** start. The container was placed back in the SFP **AND** Refuel Zone Radiation Monitor indications returned to normal.

Which ONE of the following completes the statements below?

A Tech Spec required shutdown condition must be entered at __(1)__ in accordance with Tech Spec 3.6.4.3, "Standby Gas Treatment System."

A __(2)__ hour report to the NRC is required when the shutdown is commenced.

[REFERENCE PROVIDED]

- A. (1) 1000 on 1/16/11 (2) four
- B. (1) 0600 on 1/23/11 (2) four
- C. (1) 1000 on 1/16/11 (2) one
- D. (1) 0600 on 1/23/11 (2) one

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89. With Unit 1 Operating at 100% Reactor Power, a Loss of Offsite Power occurs.

Which ONE of the following completes the statements below?

In accordance with Tech Spec 3.8.1 Bases, "AC Sources – Operating," on a Loss of Offsite Power, the **MAXIMUM** allowed time for Emergency Diesel Generators to energize their associated Shutdown Boards is __(1)__ seconds.

Direction to reset EECW to Control Air Compressors is contained in (2).

A. (1) 7

(2) 0-AOI-32-1, "Loss of Control and Service Air Compressors"

- B. (1) 10
 (2) 0-AOI-32-1, "Loss of Control and Service Air Compressors"
- C. (1) 7 (2) 0-AOI-57-1A, "Loss of Offsite Power (161 and 500 KV)/Station Blackout"
- D. (1) 10

(2) 0-AOI-57-1A, "Loss of Offsite Power (161 and 500 KV)/Station Blackout"

90. Unit 3 is at 100% Reactor Power. Plant Control Air has been aligned to Drywell Control Air to allow maintenance on the Nitrogen Storage Tanks.

Which ONE of the following completes the statement below?

Technical Requirements Manual Section 3.6.3, "Drywell Control Air System," requires Reactor Thermal Power be reduced to less than or equal to __(1)__ power within __(2)__ if Plant Control Air is being used to supply the pneumatic control system inside primary containment.

A. **(1)** 15%

(2) 12 hours

- B. (1) 15% (2) 24 hours
- C. (1) 25% (2) 12 hours
- D. (1) 25% (2) 24 hours

91. Which ONE of the following completes the statements below?

Tech Spec 3.3.1.1, "Reactor Protection System (RPS) Instrumentation" **AND** its associated Bases for the Reactor Vessel Water Level - Low, Level 3 setpoint is to prevent significant carryunder __(1)__.

If this function is lost due to TWO inoperable channels in a trip system, then RPS trip capability must be restored (2).

- A. (1) to ensure the accuracy of core D/P and level instrumentation(2) Immediately
- B. (1) to ensure the accuracy of core D/P and level instrumentation(2) within 1 hour
- C. (1) to protect available Reactor Recirc Pump Net Positive Suction Head(2) Immediately
- D. (1) to protect available Reactor Recirc Pump Net Positive Suction Head
 (2) within 1 hour

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- 92. The following alarms **AND** indications exist on Unit 3:
 - DRYWELL PRESS HIGH, (3-9-3B, Window 23), is in alarm
 - REACTOR VESSEL WTR LVL CH A LOW-LOW (3-9-5B, Window 4), is in alarm
 - REACTOR VESSEL WTR LVL CH B LOW-LOW (3-9-5B, Window 5), is in alarm
 - DRYWELL EQPT DR SUMP PUMP EXCESSIVE OPRN, (3-9-4B, Window 11), is in alarm
 - Drywell Floor Drain Leakage is calculated at 100 gpm
 - Group 1 PCIS Logic A Success light is **NOT** illuminated
 - ALL other PCIS Logic Success lights are illuminated
 - Dose equivalent lodine-131 sample results indicate 16 µCi/gm

Which ONE of the following completes the statement below?

These alarms **AND** indications establish that _____.

- A. a loss of the Fuel Clad Barrier ONLY exists
- B. a loss of the Reactor Coolant System Barrier ONLY exists
- C. a loss of the Reactor Coolant System Barrier AND Fuel Clad Barrier ONLY exists
- D. a loss of the Containment Barrier AND Reactor Coolant System Barrier ONLY exists

93. Unit 3 is operating at 100% Reactor Power. Offgas Hydrogen Analyzer 3A was tagged out for planned maintenance at 0600 on 1/13/11.

At 0700 on 1/13/11, the Unit Supervisor discovers an error on Offgas Hydrogen Analyzer 3B Surveillance completed at 0400 on 1/13/11. Based on the corrected calculation, Offgas Hydrogen Analyzer 3B alarm setpoint is set too high to ensure the limit of TRM LCO 3.7.2 is not exceeded.

Which ONE of the following completes the statements below?

In accordance with TR 3.7.2, "Airborne Effluents," the concentration of hydrogen in Offgas downstream of the recombiners shall be limited to a **MAXIMUM** of __(1)__ . In accordance with TR 3.3.9, "Offgas Hydrogen Analyzer Instrumentation," Condition A must be entered with a start time of __(2)__ on 1/13/11.

[REFERENCE PROVIDED]

- A. **(1)** 1% **(2)** 0600
- B. (1) 1% (2) 0700
- C. (1) 4% (2) 0600
- D. (1) 4% (2) 0700

94. Which ONE of the following completes the statements below for Shift Turnover **AND** Control Board walk down requirements in accordance with OPDP-1,"Conduct of Operations?"

During shift turnover, the oncoming **Shift Manager** (1) required to walk down the Control Boards with an off going RO or SRO.

The Unit Supervisor must walk down Main Control Room panels (2).

A. (1) is

(2) once prior to mid shift brief AND once prior to end of shift turnover

- B. (1) is NOT
 (2) once prior to mid shift brief AND once prior to end of shift turnover
- C. (1) is(2) once every hour during power operations with a 25% grace period
- D. (1) is NOT
 (2) once every hour during power operations with a 25% grace period

95. In accordance with OPDP-10, "License Status Maintenance, Reactivation and Proficiency for Non-Licensed Operators," which ONE of the following completes the statements for License Reactivation requirements?

Licensee requalification training must be verified current ___(1)___ 40 hours of shift functions under instruction.

When **ALL** Reactivation requirements are met, the Licensed individual is authorized to resume licensed activities by the ___(2)___.

- A. (1) prior to standing(2) Plant Manager
- B. (1) prior to standing(2) Site Licensing Manager
- C. (1) after standing (2) Plant Manager
- D. (1) after standing(2) Site Licensing Manager

96. Which ONE of the following completes the statements below?

If the criteria is met (in accordance with TS Section 1.3, "Completion Times") to apply a Completion Time extension, the total Completion Time allowed for completing a Required Action shall be limited to the __(1)__ restrictive of either:

- The stated Completion Time, as measured from the initial entry into the Condition, plus an additional __(2)__ ;OR the stated Completion Time as measured from discovery of the subsequent inoperability.
- A. (1) more
 - (2) 12 hours
- B. (1) less (2) 12 hours
- C. (1) more (2) 24 hours
- D. (1) less (2) 24 hours

ILT 1102 Written Exam

97. A seismic event has resulted in the following Unit 2 plant conditions:

- ALL control rods are fully inserted
- RPV level is (-)150 inches and lowering slowly
- RPV pressure is 875 psig with a cooldown in progress at ≤90 ^OF/hr
- RHR Loop II is lined up for Drywell Spray
- ALL other ECCS systems are unavailable
- Drywell pressure is 4.8 psig and lowering
- ADS has been inhibited in accordance with 2-EOI-1, "RPV Control" step RC/L-7

Which ONE of the following describes the required actions to mitigate this event?

- A. Enter 2-EOI-C1, "Alternate Level Control" and direct performance of 2-EOI-Appendix 6A, "Injection Subsystems Lineup Condensate."
- B. Enter 2-EOI-C1, "Alternate Level Control" and direct performance of 2-EOI-Appendix 5A, "Injection System Lineup Condensate/Feedwater."
- C. Enter 2-EOI-C2, "Emergency Depressurization" and direct performance of 2-EOI-Appendix 6A, "Injection Subsystems Lineup Condensate."
- D. Enter 2-EOI-C2, "Emergency Depressurization" and direct performance of 2-EOI-Appendix 5A, "Injection System Lineup Condensate/Feedwater."

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98. Which ONE of the following completes the statements below in accordance with 1-GOI-200-2, "Primary Containment Initial Entry and Closeout?"

Initial Drywell Entry with the Reactor at Power must be approved by the __(1)__.

A member of __(2)__ will remain at the Personnel Airlock in continuous communication with the Control Room **AND** with the persons in the Drywell.

- A. (1) Shift Manager ONLY(2) Rad Protection
- B. (1) Shift Manager AND Plant Manager
 (2) Rad Protection
- C. (1) Shift Manager ONLY (2) Operations
- D. (1) Shift Manager AND Plant Manager(2) Operations

99. In accordance with RCDP-3, "Administration of Radiation Work Permits," for normal and emergency situations, which ONE of the following completes the statements below?

During NORMAL situations, RADPRO Supervision __(1)__ authorize short term deviation from RWP requirements (for example, verbally requiring additional protective clothing), without revising the RWP.

If the Shift Manager authorizes IMMEDIATE entry into a High Radiation Area during emergency situations, then RADPRO escort __(2)__.

- A. (1) may (2) is still required
- B. (1) may NOT(2) is still required
- C. (1) may NOT (2) is NOT required
- D. (1) may (2) is **NOT** required

ILT 1102 Written Exam

100. With an ATWS, Emergency Operating Instructions (EOIs) require operators to reduce Recirc Pump speeds to minimum prior to tripping them if Reactor Power is above 5%.

Which ONE of the following identifies the (1) bases for this action AND (2) the EOI leg which requires it?

- A. (1) To allow time for ARI to actuate thus allowing the Recirc Pumps to stay in operation for coolant circulation.
 (2) C-5, Level / Power Control
- B. (1) To allow time for ARI to actuate thus allowing the Recirc Pumps to stay in operation for coolant circulation.
 - (2) EOI-I, RPV Control, RC/Q leg
- C. (1) To prevent tripping the turbine on high water level **AND** exceeding the capacity of the bypass valves.
 - (2) C-5, Level / Power Control
- D. (1) To prevent tripping the turbine on high water level **AND** exceeding the capacity of the bypass valves.
 - (2) EOI-I, RPV Control, RC/Q leg

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SRO REFERENCES PROVIDED

- 13 EOI Curve 1 & 2 Rev. 8
- 14 EOI Caution 1 / Curve 8
- 28 2-LI-3-52/62 Correction Curve
- 49 DG KW vs. KVAR LOADING 0-OI-82 Rev. 112 Illustration 1
- 79 EPIP-1 Rev. 46 Matrix Sect. 1 (Minimum Re-flood Pressures blanked out)
- 83 EPIP-1 Rev. 46 Matrix Sect. 4
- 85 U3 TS 3.5.1 ECCS
- 87 EPIP-1 Rev. 46 Matrix Sect. 5
- 88 U3 TS 3.6.4.3 SGTS
- 93 U3 TR 3.3.9 Offgas H2 Analyzer



CAUTIONS

CAUTION #1

- AN RPV WATER LVL INSTRUMENT MAY BE USED TO DETERMINE OR TREND LVL ONLY WHEN IT READS ABOVE THE MINIMUM INDICATED LVL ASSOCIATED WITH THE HIGHEST MAX DW OR SCRUN TEMP.
- IF DW TEMPS, OR SC AREA TEMPS (TABLE 6), AS APPLICABLE, ARE OUTSIDE THE SAFE REGION OF CURVE 8, THE ASSOCIATED INSTRUMENT MAY BE UNRELIABLE DUE TO BOILING IN THE RUN.

		MINIMUM	MAX DW RUN TEMP	MAX SC
INSTRUMENT	RANGE	INDICATED	(FROM XR-64-50	RUN TEMP
		LVL	OR TI-64-52AB)	(FROM TABLE 6)
		ON SCALE	N/A	BELOW 150
	ENEROENO X	-145	N/A	151 TO 200
LI-3-58A, B	-155 TO +60	-140	N/A	201 TO 250
		-130	N/A	251 TO 300
		-120	N/A	301 TO 350
LI-3-53		ON SCALE	N/A	BELOW 150
LI-3-60	NORMAL 0 TO +60	+5	N/A	151 TO 200
LI-3-206		+15	N/A	201 TO 250
LI-3-253		+20	N/A	251 TO 300
LI-3-208A, B, C, D		+30	N/A	301 TO 350
LI-3-52 LI-3-62A	POST ACCIDENT -268 TO +32	NT ON SCALE N/A +32		N/A
		+10	BELOW 100	N/A
		+15	100 TO 150	N/A
	SHUTDOWN	+20	151 TO 200	N/A
LI-3-55	FLOODUP	+30	201 TO 250	N/A
	0 TO +400	+40	251 TO 300	N/A
		+50	301 TO 350	N/A
		+65	351 TO 400	N/A



	TABLE 6									
SE	SECONDARY CONTMT INSTRUMENT RUNS									
INSTRUMENT	INSTRUMENT SC TEMP ELEMENTS AND LOCATIONS									
	EL 621 (74-95F)	EL 593 (74-95C AND D)	EL 565 (69-835A THRUD)	RWCU HXRM (69-29F, G, H)						
LI-3-58A	٩F	o r	N/A	0F						
LI-3-58B	٥F	of-	N/A	N/A						
LI-3-53	٥F	of the second se	N/A	0 F						
LI-3-60	٩F	oF	N/A	N/A						
LI-3-206	٥F	oF	N/A	아						
LI-3-253	٥F	ole .	N/A	N/A						
LI-3-52	٩F	٥F	٩F	NA						
LI-3-62A	٥F	OF	야루	N/A						
LI-3-55	٥F	٩F	N/A	N/A						
LI-3-208A, B	٩F	٥F	N/A	0-						
LI-3-208C, D	٥F	¢F.	N/A	N/A						





BROWNS FERRY	EMERGENCY CLASSIFICATION PROCEDURE	
	EVENT CLASSIFICATION MATRIX	CLIL-I

REACTOR 1.0

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BROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX EPIP-1

<u>NOTES</u>

1.1-U1/1.1-A1	Applicable when the Reactor Head is removed and the Reactor Cavity is flooded.					
1.1-S1	Applicable in Mode 5 when the Reactor Head is installed.					
1.1- G2	 The reactor will remain subcritical under all conditions without boron when: Unit 1: All control rods are inserted to or beyond position 02. Unit 2: Any 19 control rods are inserted to position 02, with all other control rods fully inserted. Unit 3: Any 19 control rods are inserted to position 02, with all other control rods fully inserted. All control rods except one are inserted to or beyond position 00. Determined by Reactor Engineering. 					

CURVES/TABLES:

TABLE 1.1 - G2 MINIMUM ALTERNATE RPV FLOODING PRESS (MARFP)					
NUMBER OF OPEN MSRVs	MARFP (PSIG)				
6 or More	190				
5	230				
4	290				

BROWNS FERRY	EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX EPIP-						-1	
		WA	TER	LEVE	L			
De	scription				D	escription		
1.1-U1	NOTE	[]		1.1-U2				
Uncontrolled water lev Cavity with irradiated f remain covered by wat	el decreas uel assemt ler.	e in Reactor blies expect	r ed to	Uncontrol Pool with remain co	ed water le irradiated fu vered by wa	vel decreas uel assembl ater.	e in Spent Fuel ies expected to	UNUSUAL E
OPERATING CONDIT Mode 5	ION:			OPERATI ALL	NG CONDI	TION		VENT
1.1-A1	NOTE			1.1-A2				
Uncontrolled water lev Cavity expected to res assemblies being unco	el decrease ult in irradia wered.	e in Reactor ated fuel		Uncontroll Storage P assemblie	ed water le ool expecte s being und	vel decreas ed to result i covered.	e in Spent Fuel n irradiated fuel	ALER
OPERATING CONDIT				OPERATI ALL	NG CONDI	TION:		Ĥ
1.1-S1	NOTE			1.1-S2				
Reactor water level can NOT be maintained above -162 inches. (TAF)				Reactor w	ater level c	an NOT be	determined.	SITE EMERGEI
OPERATING CONDIT	ION:			OPERATII Mode 1 or	NG CONDI 2 or 3	TION		NCY
1.1-G1				1.1-G2		NOTE	TABLE US	
Reactor water level can maintained above -180	n NOT be n	estored and		Reactor wa Either of th • The reac under all > Less th > Reactor mainta pressu \$ UN \$ UN \$ UN \$ UN • It has NC remain su condition MARFP i	ater level ca ate following tor will rem conditions, han 4 MSR or pressure ined above ine by at lea litt 1 – p litt 2 – p litt 3 – p D been def ubcritical wi s and unab n Table 1.1	an NOT be AND exists: ain subcritic and Vs can be o can NOT b Suppressionsi st ssi be si thout borom le to restore -G2.	determined cal without boron opened, or e restored and on Chamber at the reactor will o under all e and maintain	GENERAL EMERGENCY
OPERATING CONDIT	ON:			OPERATIN Mode 1 or	NG CONDIT 2 or 3	TION:		

BROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX

EPIP-1

NOTES

1.2 Subcritical is defined as reactor power below the heating range and not trending upward.

CURVES/TABLES:



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BROWNS FERRY	ROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX				PIP	'-1			
SCRAN	I FAIL	URE		RE	ACTO AC	R CO TIVIT	OLAN ⁻ Y	Г	
				1.3-U			1		
				Reactor c equivalen as determ OPERATI ALL	oolant activii t I-131 (Tech ined by chei NG CONDI7	y exceeds inical Spec mistry sam	26 μCi/gm :ification Lin ple.	dose vits)	UNUSUAL EVENT
1.2-A	NOTE		<u> </u>	1.3-A					
the reactor subcritical Manual scram or ARI (successful. OPERATING CONDIT Mode 1 or 2	AND automatic	or manual)	was	OPERATI Mode 1 or	NG CONDIT	ION:	suc µcagm ined by cher	nistry	ALERT
1.2-\$	NOTE								
Pailure of automatic sci ARI to bring the reactor OPERATING CONDITI Mode 1	ram, manı r subcritica ION:	iai scram, a	INC						SITE EMERGENCY
1.2-G CURVE			US		1				
ARI. Reactor power is above 3% AND Either of the following conditions exists: • Suppression Pool temp exceeds HCTL. Refer to Curve 1.2-G. • Reactor water level can NOT be restored and maintained at or above -180 inches. OPERATING CONDITION: Mode 1 or 2					GENERAL EMERGENCY				

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BROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX

EPIP-1

NOTES

CURVES/TABLES:



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P-1	EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX EPIP					EME	S FERRY	BROWN	
	HEAT		S OF REI	LOS		GAS DN		MSL / RAD	
				_		I			1.4-U
UNUSU	I	<u>, </u>			I-HIGH	TION HIGH	NE RADIA -135C OR	N STEAM LIN 2, or 3-RA-90	Valid MAI alarm, 1,
AL EVEN					GH	DIATION HI	(ENT RAI -157A. ON:	PRETREATM 2, or 3-RA-90- NG CONDITI	Valid OG alarm, 1, 1 OPERATI
-							~	r 2 or 3	Mode 1 or
ALERT	n NOT be Technical litions or during	mperature c 2º F wheneve Mode 4 cor	oderator ter d below 212 ons require s in Mode 5. NG CONDIT 5	1.5-A Reactor m maintaine Specificat operations OPERATI Mode 4 or					
SITE EMERGENCY	US el and RPV n the safe area	nperature, le maintained	CURVE on Pool tem an NOT be .5-S. NG CONDIT 2 or 3	1.5-S Suppressi of Curve 1 OPERATI Mode 1 or					
GENERAL EMERGENCY									

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ĺ	BROWNS FERRY	EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX	EPIP-1

RADIOACTIVITY RELEASES 4.0

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EPIP-1

NOTES

4.1-U Prior to making this emergency classification based upon the WRGERMS indication, assess the release by either of the following: 1. Actual field measurements exceed the limits in table 4,1-U

2. 0-Si 4.8.B.1.a.1 release fraction exceeds 2.0

If neither assessment can be concluded within 60 minutes then the declaration must be made on the valid WRGERMS reading.

4.1-A Prior to making this emergency classification based upon the WRGERMS indication, assess the release by either of the following: 1. Actual field measurements exceed the limits in table 4.1-A

2. 0-SI 4.8.B.1.a.1 release fraction exceeds 200

If neither assessment can be conducted within 15 minutes then the declaration must be made on the valid WRGERMS reading.

4.1-S Prior to making this emergency classification based upon the gaseous release rate indication, assess the release by either of the following methods:

1. Actual field measurements exceed the limits in table 4,1-S.

2. Projected or actual dose assessments exceed 100 mrem TEDE or 500 mrem CDE.

If neither assessment can be conducted within 15 minutes then the declaration must be made based on the valid WRGERMS reading.

4.1-G Prior to making this emergency classification based upon the gaseous release rate indication, assess the release by either of the following methods:

1. Actual field measurements exceed the limits in table 4.1-G.

2. Projected or actual dose assessments exceed 1000 mrem TEDE or 5000 mrem CDE.

If neither assessment can be conducted within 15 minutes then the declaration must be made based on the valid WRGERMS reading.

CURVES/TABLES:

Table 4.1-U RELEASE LIMITS FOR UNUSUAL EVENT							
TYPE	MONITORING METHOD	LIMIT	DURATION				
Gaseous Release Rate	Stack Noble Gas (WRGERMS)	2.88 X 10 ⁷ µCi/sec	1 Hour				
Gaseous Release Rate	0-SI 4.8.8.1.a.1	Release Fraction 2.0	1 Hour				
Site Boundary Radiation Reading	Field Assessment Team	0.10 MREM/HR Gamma	1 Hour				

Table 4.1-A RELEASE LIMITS FOR ALERT							
TYPE	MONITORING METHOD	LIMIT	DURATION				
Gaseous Release Rate	Stack Noble Gas (WRGERMS)	2.88 X 10 ⁹ µCi/sec	15 Minutes				
Gaseous Release Rate	0-SI 4.8.B.1.a.1	Release Fraction 200	15 Minutes				
Site Boundary Radiation Reading	Field Assessment Team	10 MREM/HR Gamma	15 Minutes				

R	Table 4.1-S ELEASE LIMITS FOR SITE ARE	A EMERGENCY	
TYPE	MONITORING METHOD		DURATION
Gaseous Release Rate	Stack Noble Gas (WRGERMS)	5.9 X 10 [®] µCi/sec	15 Minutes
Site Boundary Radiation Reading	Field Assessment Team	100 MREM/HR Gamma	1 Hour
Site Boundary lodine-131	Field Assessment Team	3.9 X 10 ⁻⁷ µCl /cm ³	1 Hour

R	Table 4.1-G ELEASE LIMITS FOR GENERA	L EMERGENCY	
TYPE	MONITORING METHOD	LIMIT	DURATION
Gaseous Release Rate	Stack Noble Gas (WRGERMS)	5.9 X 10 ¹⁰ µCi/sec	15 Minutes
Site Boundary Radiation Reading	Field Assessment Team	1000 MREM/HR Gamma	1 Hour
Site Boundary lodine-131	Field Assessment Team	3.9 X 10 ⁴ µCl / cm ³	1 Hour

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BROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX EPIP	-1
GASEOUS EFFLUENT	
4.1-U NOTE TABLE Gaseous release exceeds ANY limit and duration in Table 4.1-U.	UNUSUAL EV
ALL 4.1-A NOTE TABLE	ENT
Gaseous release exceeds ANY limit and duration in Table 4.1-A. OPERATING CONDITION: ALL	ALERT
4.1-S NOTE TABLE EITHER of the following conditions exists: • Gaseous release exceeds or is expected to exceed ANY limit and duration in Table 4.1-S. • Dose assessment indicates actual or projected dose consequences above 100 mrem TEDE or 500 mrem thyroid CDE. OPERATING CONDITION: ALL	SITE EMERGENCY
4.1-G NOTE TABLE EITHER of the following conditions exists: • Gaseous release exceeds or is expected to exceed ANY limit and duration in Table 4.1-G. • Dose assessment indicates actual or projected dose consequences above 1000 mrem TEDE or 5000 mrem thyroid CDE. OPERATING CONDITION ALL	GENERAL EMERGENCY

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BROWNS FERRY	EMERGENCY CLASSIFICATION PROCEDURE	
	EVENT CLASSIFICATION MATRIX	

NOTES

CURVES/TABLES:

BROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX EPIP-						-1				
A	AIN SI BF		LINE		L	IQUID	EFFL	UENT		
4.2-U					4.3-11					
Main Stea Primary C OPERATI Mode 1 o	am Line break Containment w ING CONDITI	outside vith isolati ON:	on.		Liquid rela determine Release d 60 minute OPERATI	ease rate ex d by chemis luration exce s. NG CONDIT	ceeds 20 ti Ary sample AND eeds or will	mes ECL a	8	UNUSUAL EVENT
	2013				4.3-A					
					Liquid rele as determ Release d 15 minute OPERATI ALL	ease rate ex ined by che luration exce s. NG CONDIT	ceeds 2001 mistry sam AND ceds or will FION:) times ECL ple exceed		ALERT
4.2-S										
Unisolable Primary C OPERATI Mode 1 or	e Main Steam ontainment. NG CONDITI 2 or 3	Line brea	nk outside							SITE EMERGENCY
										GENERAL EMERGENCY

EVENT CLASSIFICATION MATRIX	BROWNS FERRY	EMERGENCY CLASSIFICATION PROCEDURE	
		EVENT CLASSIFICATION MATRIX	

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LOSS OF POWER 5.0

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BROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX

EPIP-1

NOTES

- 5.1-U Loss of normal and alternate supply voltage implies inability to restore voltage from any qualified source to normal or alternate feeder for at least one of the unit specific boards within 15 minutes. At least two boards must be energized from Diesel power to meet this classification. If only one board can be energized and that board has only one source of power then refer to EAL 5.1-A1 or 5.1-A2.
- 6.1-A1 Only one source of power (Diesel or Offsite) is available to any one of the listed unit specific 4KV Shutdown Boards. No power is available to the three remaining boards.
- 5.1-A2 Loss of voltage to all unit specific 4KV Shutdown Boards applies to those boards which normally supply emergency AC power to the affected unit only. Determination of the event classification depends on the affected unit operating mode. For units in operation 5.1-S would apply.
- 5.1-S Loss of voltage to all unit specific 4KV Shutdown Boards applies to those boards which normally supply emergency AC power to the affected unit only. Determination of the event classification depends on the affected unit operating mode. For units in Shutdown or Refuel 5.1-A2 would apply.
- 5.1-G Loss of voltage to all unit specific 4KV Shutdown Boards applies to those boards which normally supply emergency AC power to the affected unit only.

CURVES/TABLES:

	Table 5.1 DWN BOARD APPLICABILITY
APPLICABLE UNIT	APPLICABLE 4KV SHUTDOWN BOARDS
UNIT 1	A, B, C, and D
UNIT 2	A, B, C, and D
UNIT 3	3A, 3B, 3C, and 3D

BROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX						PIP	·-1			
		l	OSS	OF A	C PO	WER				
5411	Des					De	scription			
5.1-0		NOTE	TABLE	US						
LOSS OF R	fic 4KV shutdo	nate sup wo boarr	pry voltage	to ALL						⊆
for greate	r than 15 minu	tes		ie 0.1						Ê
	A	ND								S
At least tw	to Diesel Gene	erators su	upplying pov	ver to						Ā
Table 5.1.	iic 4/(V Siluluu	wit Doald	in principal an							in l
OPERATI	NG CONDITIC	DN:								
ALL										F
5.1-A1		NOTE	TABLE	US	5 1.42		NOTE		ile	
Loss of vo	Itage to ANY 1	HREE U	init specific	4KV	Loss of v	ltage to AL	unit speci	fic AKV shut	down	
shutdown	boards from T	able 5.1	for greater t	han	boards fro	m Table 5.1	for greate	r than 15 mil	nutes.	
15 minute	s .									
Only ONE	A source of pow	ND pravaila	blo to the							Ē
remaining	board	ICI avalla								2
										-4
OPERATI	NG CONDITIC	DN:			OPERATI	NG CONDI	FION:			
	2013	OTE	TADIE	Цē	Mode 4 of	5 or Deruel	ea			
0.1-5	1	IOIE	IADLE	03						
Loss of vo	itage to ALL u	nit specif	fic 4KV shut	down						6
boards fro	m Table 5.1 fo	r greater	than 15 min	nutes.						ŤΤ
										m
										S I
										8
										ଜ
										Ň
OPERATI	NG CONDITIO	N:								Ŷ
Mode 1 or	2 or 3									
<u>5.1-G</u>	1	OTE	TABLE	US						
Loss of vo	tage to ALL u	nit coocif	ic /K\/ chut	down						
boards from	m Table 5.1	in speci	IC 4ILY SILUR	JOWII						Ē
_	A	ND								
Either of th	e following co	nditions	exists;							2
Restora is NOT	likely within th	tone 4K	V shutdown	board						F
Adequa	ate core cooline	a can NC)T be assure	ed.						E
				3225						
										ดี
1										
OPERATIN	NG CONDITIO	N:								<u> </u>
Mode 1 or	2 or 3									

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BROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX



NOTES

5.2 250V DC power voltage below 248 volts constitutes a loss of DC power to the affected board. The voltage readings may be obtained at the 250V Shutdown Battery Board (or the 250V Plant Battery Board) that is feeding the affected board.

CURVES/TABLES:

	Table 5.2-U DWN BOARD APPLICABILITY
APPLICABLE UNIT	APPLICABLE 4KV SHUTDOWN BOARDS
UNIT 1	A, B, C, AND D
UNIT 2	A, B, C, AND D
UNIT 3	3A, 3B, 3C, AND 3D

	Table 5.2-S CRITICAL DC POWER AND ESSENTIAL SYSTEMS	
COMBINATION	LOSS OF CRITICAL 260V DC POWER (Unit Specific Unless Otherwise Noted)	POTENTIALLY RESULTS
t I	Control Power for 4KV Unit Boards A, B, and C	Loss of Main Condenser
	AND	AND
	Control Power for 480V Unit Boards A and B	Loss of Both EHC Pumps
	AND	AND
	Power for Panel 9-9 Cabinet 1	Loss of All Reactor Feed Pumps
0	Power for 250V DC RMOV Board A	Loss of HPCI
111	Power for 250V DC RMOV Board C	Loss of RCIC
ſV	Power for 250V DC RMOV Boards A, B, and C	Less than 4 MSRVs
	AND	AND
	Control Power for 4KV Shutdown Boards A, B, C, and D (4KV Shutdown Boards 3A, 3B, 3C, and 3D for Unit 3)	Loss of All RHR Pumps And Core Spray Pumps

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BROWNS FERRY EMERGENCY CLASSIFICATION PROCEDURE EVENT CLASSIFICATION MATRIX						'-1			
LOSS OF 250V DC POW/EP									
	De	scription		200					
5.2-U	00	NOTE	TABLE	US	<u> </u>	00	scription		
Unplanne	d loss of 250	V DC cont	trol power to	ALL					
unit specif	fic 4KV shute	lown boar	ds from						S
Table 5.2-	U for greate	than 15 r	ninutes						<u>ک</u>
Unplanne	d loss of 250	V DC cont	trol power to	o unit					Š
specific 48	BOV shutdow	n boards /	A and B						
for greater	r ma <mark>n 15 m</mark> in	utes.							\leq
OPERATI	NG CONDIT	ION:							L Y
Modes 4 c	or 5							 	
			L						
									R
									•
5.2-\$		NOTE	TABLE	US					
Loss of 25		rto ALL c	ombination						
(I, II, III, ar	nd IV) of esse	ential syste	ems from	•					<u></u>
Table 5.2-	S for greater	than 15 m	ninutes.						
									E
									m
									RG
									N
OPERATII Mode 1 or	NG CONDIT	ON:							
mode i o	2010								
	K								
									GE
									RA
									M
									R
									GE
									NC
									_ ¥_

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	EVENT CLASSIFICATION MATRIX	CPIP-I

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3.5 EMERGENCY CORE COOLING SYSTEMS (ECCS) AND REACTOR CORE ISOLATION COOLING (RCIC) SYSTEM

- 3.5.1 ECCS Operating
- LCO 3.5.1 Each ECCS injection/spray subsystem and the Automatic Depressurization System (ADS) function of six safety/relief valves shall be OPERABLE.

APPLICABILITY: MODE 1, MODES 2 and 3, except high pressure coolant injection (HPCI) and ADS valves are not required to be OPERABLE with reactor steam dome pressure ≤ 150 psig.

-----NOTE-----

ACTIONS

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LCO 3.0.4.b is not applicable to HPCI.

	CONDITION		REQUIRED ACTION	COMPLETION TIME
Α.	One low pressure ECCS injection/spray subsystem inoperable. OR	A.1	Restore low pressure ECCS injection/spray subsystem(s) to OPERABLE status.	7 days
	One low pressure coolant injection (LPCI) pump in both LPCI subsystems inoperable.			

(continued)

BFN-UNIT 3

3.5-1 Amendment No. 212, 229, 244 December 1, 2003

ACTIONS (continued)

CONDITION		REQUIRED ACTION	COMPLETION TIME
B. Required Action and associated Completion Time of Condition A not	B.1 <u>AND</u>	Be in MODE 3.	12 hours
met.	B .2	Be in MODE 4.	36 hours
			(continued)

BFN-UNIT 3

3.5**-1a**

Amendment No. 244 December 1, 2003

ACTIONS (continued)			
CONDITION		REQUIRED ACTION	COMPLETION TIME
C. HPCI System inoperable.	C.1	Verify by administrative means RCIC System is OPERABLE.	Immediately
	AND		
	C.2	Restore HPCI System to OPERABLE status.	14 days
D. HPCI System inoperable.	D.1	Restore HPCI System to OPERABLE status.	72 hours
AND	<u> 0</u>		
Condition A entered.	D.2	Restore low pressure ECCS injection/spray subsystem to OPERABLE status.	72 hours
E. One ADS valve inoperable.	E.1	Restore ADS valve to OPERABLE status.	14 days
F. One ADS valve inoperable.	F.1	Restore ADS valve to OPERABLE status.	72 hours
AND	<u>OR</u>		
Condition A entered.	F.2	Restore low pressure ECCS injection/spray subsystem to OPERABLE status.	72 hours

(continued)

BFN-UNIT 3

3.5-2

Amendment No. 212, 229 March 12, 2001

ACTIONS (continued)

CONDITION		REQUIRED ACTION	COMPLETION TIME
G. Two or more ADS valves inoperable.	G.1 <u>AND</u>	Be in MODE 3.	12 hours
Required Action and associated Completion Time of Condition C, D, E, or F not met.	G.2	Reduce reactor steam dome pressure to ≤ 150 psig.	36 hours
H. Two or more low pressure ECCS injection/spray subsystems inoperable for reasons other than Condition A.	H.1	Enter LCO 3.0.3.	Immediately
OR HPCI System and one or more ADS valves inoperable.			

BFN-UNIT 3

3.5-3

Amendment No. 212, 229 March 12, 2001

SGT System 3.6.4.3

3.6 CONTAINMENT SYSTEMS

3.6.4.3 Standby Gas Treatment (SGT) System

LCO 3.6.4.3 Three SGT subsystems shall be OPERABLE.

APPLICABILITY: MODES 1, 2, and 3,

During operations with a potential for draining the reactor vessel (OPDRVs).

ACTIONS

	CONDITION		REQUIRED ACTION	COMPLETION TIME
Α.	One SGT subsystem inoperable.	A.1	Restore SGT subsystem to OPERABLE status.	7 days
B. Required associate Time of C met in MC	Required Action and associated Completion Time of Condition A not	B.1 <u>AND</u>	Be in MODE 3.	12 hours
	met in MODE 1, 2, or 3.	B.2	Be in MODE 4.	36 hours
		•		(continued)

BFN-UNIT 3

3.6-51

Amendment No. 212, 249 September 27, 2004

ACTIONS (continued)

CONDITION	REQUIRED ACTION		COMPLETION TIME	
C. Required Action and associated Completion Time of Condition A not met during OPDRVs	C.1	Place two OPERABLE SGT subsystems in operation.	Immediately	
	<u>OR</u>			
	C.2	Initiate action to suspend OPDRVs.	Immediately	
D. Two or three SGT subsystems inoperable in MODE 1, 2, or 3.	D.1	Enter LCO 3.0.3.	Immediately	

(continued)

BFN-UNIT 3

3.6-52

Amendment No. 212, 249 September 27, 2004

ACTIONS (continued)

CONDITION	REQUIRED ACTION	COMPLETION TIME	
E. Two or three SGT subsystems inoperable during OPDRVs.	E.1 Initiate action to suspend OPDRVs.	Immediately	

BFN-UNIT 3

3.6-53

Amendment No. 212, 249 September 27, 2004

Offgas Hydrogen Analyzer Instrumentation TR 3.3.9

TR 3.3 INSTRUMENTATION

TR 3.3.9 Offgas Hydrogen Analyzer Instrumentation

LCO 3.3.9 There shall be at least one OPERABLE Offgas Hydrogen Analyzer instrument with alarm setpoint set to ensure the limit of TRM LCO 3.7.2 is not exceeded.

APPLICABILITY: During main condenser offgas treatment system operation

NOTENOTE
TRM LCO 3.0.3 is not applicable.

ACTIONS

CONDITION			REQUIRED ACTION	COMPLETION TIME
A.	No OPERABLE Offgas Hydrogen Analyzer instruments.	A.1	Install a temporary monitor	4 hours
		<u>OR</u>		
		A.2.1	Take grab samples	4 hours from discovery of no
		AND		instrument
				AND
				Every 4 hours thereafter
	£	A.2.2	Analyze the sample for explosive concentration of hydrogen.	4 hours following grab sample

BFN-UNIT 3

3.3-54

TRM Revision 0, 16 March 31, 2000