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REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

Admin-143

Manually Calculate Core Tilt Due to Loss of the OAC

CANDIDATE

EXAMINER

Preferred Evaluation Method:

Perform X Simulate

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

<u>Task:</u>

Manually calculate Core Tilt due to Loss of the OAC

Alternate Path:

NO

Facility JPM #:

New

K/A Rating(s):

System: Gen K/A: 2.1.25 Rating: (3.9/4.2)

Task Standard:

Calculate Core Tilt by procedure within ± 0.02% of the values given on the key.

Preferred Evaluation Location:

Simulator X In-Plant

References:

PT/1/A/0600/001, Periodic Instrument Surveillance, Enclosures 13.1 OP/1/A/1105/014, Control Room Instrumentation Operation And Information PT/1/A/1103/019, Backup Incore Detector System

Validation Time: 27 min.	Time Critical: NO
Candidate:NAME	Time Start: Time Finish:
Performance Rating: SAT UNSAT	Performance Time
Examiner: NAME	/
	COMMENTS

<u>COMMENTS</u>

SIMULATOR OPERATOR INSTRUCTIONS:

1. NONE

Tools/Equipment/Procedures Needed:

PT/1/A/0600/001, Periodic Instrument Surveillance, Enclosures 13.1 OP/1/A/1105/014, Control Room Instrumentation Operation And Information PT/0/A/1103/019 (Backup Incore Detector System)

READ TO OPERATOR

DIRECTIONS TO STUDENT:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

INITIAL CONDITIONS:

- Unit 1 has been operating at 100% power for 4 days
- On the OAC the Computer Reactor Calculation Package for Incore Detector data calculations has been OOS for the past 2 days.
- Backup Incore Chart Recorder "A" points are ALL operable
- Backup Incore Chart Recorder "B" is OOS
- 1NI-7 has just failed
- The CRS has verified per OP/1/A/1105/014, Control Room Instrumentation Operation And Information, (Encl. 4.7, RPS Information; Step 3.3.3) that Axial Imbalance and QPT surveillances must be performed using the Backup Incore Detectors.
- PT/1/A/1103/019, (Backup Incore Detector System) in progress:
 - a. Enclosure 13.3 (Axial Power Imbalance Calculation Sheet) has been calculated and verified.
 - b. Enclosure 13.4 (Quadrant Power Tilt Calculation Sheet) has been calculated but NOT verified.

INITIATING CUE:

The CRS directs you, ss the verifier, to calculate quadrant power tilt using PT/1/A/1103/019, Backup Incore Detector System, Enclosure 13.4 (Quadrant Power Tilt Calculation Sheet) using the attached data sheet

START TIME: _____

<u>STEP 1</u> :	Step 2.1 Using Enclosure 13.2, Required Backup Recorder Points for Calculating Quadrant Power Tilt choose an acceptable set (row) of recorder points for which all points are operable, AND record the point identifications (recorder, point number, detector location) on the blanks provided below.	SAT
STANDARD:	Fill in the table with the recorder, point number, detector location using Enclosure 13.2 to identify the points to use. See attached KEY.	UNSAT
COMMENTS:		
<u>STEP 2</u> :	Step 2.2 Record the backup recorder readings (R) on the blanks provided below.	CRITICAL STEP
STANDARD:	Fill in the table with the readings from the attached data. See attached KEY.	SAT
COMMENTS:		UNSAT
STEP 3	Step 2.2 Calculate quadrant power tilt as indicated below:	CRITICAL STEP
<u>STANDARD</u> :	Calculate quadrant power tilt. WX Quadrant = 2.07%	
	XY Quadrant = 5.14%	UNSAT
	YZ Quadrant = - 3.93%	
Note: Answer	ZW Quadrant = - 3.28% s must be within ± 0.02%.	
COMMENTS:		
	END TASK	

TIME STOP: _____

CRITICAL STEP EXPLANATIONS:

STEP

Explanation

- 2 Data must be entered correctly to ensure the proper tilt is calculated.
- 3 Calculation must be performed correctly to determine the tilt value.

BACKUP INCORE CHART "A"		
Point #	%	Location
1	132.7	G09-L2
2	138.0	G09-L4
3	133.3	G09-L6
4	145.6	E09-L2
5	145.3	E09-L4
6	142.5	E09-L6
7	128.8	G05-L2
8	133.8	G05-L6
9	126.3	M07-L2
10	122.9	M07-L6
11	127.5	K11-L2
12	122.2	K11-L6
13	144.4	F13-L2
14	145.0	D05-L2
15	143.1	F13-L4
16	142.5	C06-L2
17	144.5	C06-L6
18	133.6	F13-L6
19	133.8	O10-L6
20	135.5	L03-L6
21	136.1	L03-L2
22	135.6	D05-L6
23	133.8	O10-L2
24	142.5	D05-L4

CANDIDATE CUE SHEET (TO BE RETURNED TO EXAMINER UPON COMPLETION OF TASK)

INITIAL CONDITIONS:

- Unit 1 has been operating at 100% power for 4 days
- On the OAC the Computer Reactor Calculation Package for Incore Detector data calculations has been OOS for the past 2 days.
- Backup Incore Chart Recorder "A" points are ALL operable
- Backup Incore Chart Recorder "B" is OOS
- 1NI-7 has just failed
- The CRS has verified per OP/1/A/1105/014, Control Room Instrumentation Operation And Information, (Encl. 4.7, RPS Information; Step 3.3.3) that Axial Imbalance and QPT surveillances must be performed using the Backup Incore Detectors.
- PT/1/A/1103/019, (Backup Incore Detector System) in progress:
 - a. Enclosure 13.3 (Axial Power Imbalance Calculation Sheet) has been calculated and verified.
 - b. Enclosure 13.4 (Quadrant Power Tilt Calculation Sheet) has been calculated but NOT verified.

INITIATING CUE:

The CRS directs you, ss the verifier, to calculate quadrant power tilt using PT/1/A/1103/019, Backup Incore Detector System, Enclosure 13.4 (Quadrant Power Tilt Calculation Sheet) using the attached data sheet.

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REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

Admin-144

Manually Calculate Core Tilt Due to Loss of the OAC and Determine any Required Actions and Completion Times

CANDIDATE

EXAMINER

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

<u>Task:</u>

Manually calculate Core Tilt due to Loss of the OAC and determine any required actions and completions times

Alternate Path:

NO

Facility JPM #:

New

K/A Rating(s):

System: Gen K/A: 2.1.25 Rating: (3.9/4.2)

Task Standard:

Calculate Core Tilt by procedure within ± 0.02% of the values given on the key. Determine calculated tilt values exceeds the limits in the COLR and determine the correct TS Required Actions and Completion Times.

Preferred Evaluation Location:

Simulator X In-Plant

References:

PT/1/A/0600/001, Periodic Instrument Surveillance, Enclosures 13.1 OP/1/A/1105/014, Control Room Instrumentation Operation And Information PT/1/A/1103/019, Backup Incore Detector System COLR TS 3.2.3 (QUADRANT POWER TILT)

Validation Time: 35 min.	Time Critical: NO	
Candidate:	Time Start:	
NAME	Time Finish:	
Performance Rating: SAT UNSAT	Performance Time	
Examiner:		
NAME	SIGNATURE	DATE

Preferred Evaluation Method:

Perform X Simulate

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COMMENTS

SIMULATOR OPERATOR INSTRUCTIONS:

1. NONE

Tools/Equipment/Procedures Needed:

PT/1/A/0600/001, Periodic Instrument Surveillance, Enclosures 13.1 OP/1/A/1105/014, Control Room Instrumentation Operation And Information PT/0/A/1103/019 (Backup Incore Detector System) COLR TS 3.2.3 (QUADRANT POWER TILT)

READ TO OPERATOR

DIRECTIONS TO STUDENT:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

INITIAL CONDITIONS:

- Unit 1 has been operating at 100% power for 4 days.
- On the OAC the Computer Reactor Calculation Package for Incore Detector data calculations has been OOS for the past 2 days
- Backup Incore Chart Recorder "A" points are ALL operable
- Backup Incore Chart Recorder "B" is OOS
- 1NI-7 has just failed
- The CRS has verified per OP/1/A/1105/014, Control Room Instrumentation Operation And Information, (Encl. 4.7, RPS Information; Step 3.3.3) that Axial Imbalance and QPT surveillances must be performed using the Backup Incore Detectors.
- PT/1/A/1103/019, (Backup Incore Detector System) in progress:
 - Enclosure 13.3 (Axial Power Imbalance Calculation Sheet) has been calculated and verified.
 - Enclosure 13.4 (Quadrant Power Tilt Calculation Sheet) has been calculated but NOT verified.

INITIATING CUE:

The CRS directs you:

- 1. As the verifier, to calculate quadrant power tilt using PT/1/A/1103/019, Backup Incore Detector System, Enclosure 13.4 (Quadrant Power Tilt Calculation Sheet) using the attached data sheet.
- 2. To determine any required TS required actions and completion times

START TIME: _____

<u>STEP 1</u> :	Step 2.1 Using Enclosure 13.2, Required Backup Recorder Points for Calculating Quadrant Power Tilt choose an acceptable set (row) of recorder points for which all points are operable, AND record the point identifications (recorder, point number, detector location) on the blanks provided below.	SAT
<u>STANDARD</u> :	Fill in the table with the recorder, point number, detector location using Enclosure 13.2 to identify the points to use. See attached KEY.	UNSAT
COMMENTS:		
<u>STEP 2</u> :	Step 2.2 Record the backup recorder readings (R) on the blanks provided below.	CRITICAL STEP
STANDARD:	Fill in the table with the readings from the attached data. See attached KEY.	
COMMENTS:		UNSAT
STEP 3	Step 2.2 Calculate quadrant power tilt as indicated below:	CRITICAL STEP
STANDARD:	Calculate quadrant power tilt. WX Quadrant = 2.07%	SAT
	XY Quadrant = 5.14%	UNSAT
	YZ Quadrant = - 3.93%	
Noto: Answor	ZW Quadrant = -3.28%	
COMMENTS.		

STANDARD: Refer to the COLR and determine that the Quadrant Power Tilt Setpoints are as follows: SAT Backup Incore Steady State (30 – 100) = 2.25 Backup Incore Transient (30 – 100) = 3.63 UNSAT Backup Incore Maximum (0 – 100) = 10.07 Refer to TS 3.2.3 (Quadrant Power Tilt) and determine that the highest positive tilt is 5.14% and is above the Transient but less than the maximum limit. UNSAT TS 3.2.3 CONDITION D must be entered REQUIRED ACTION: Reduce THERMAL POWER to < 60% of the ALLOWABLE THERMAL POWER with a COMPLETION TIME of 2 hours. AND UND
Backup Incore Steady State (30 – 100) = 2.25 UNSAT Backup Incore Transient (30 – 100) = 3.63 UNSAT Backup Incore Maximum (0 – 100) = 10.07 UNSAT Refer to TS 3.2.3 (Quadrant Power Tilt) and determine that the highest positive tilt is 5.14% and is above the Transient but less than the maximum limit. UNSAT TS 3.2.3 CONDITION D must be entered UNSAT REQUIRED ACTION: Reduce THERMAL POWER to < 60% of the ALLOWABLE THERMAL POWER with a COMPLETION TIME of 2 hours.
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Backup Incore Maximum (0 – 100) = 10.07 Refer to TS 3.2.3 (Quadrant Power Tilt) and determine that the highest positive tilt is 5.14% and is above the Transient but less than the maximum limit. TS 3.2.3 CONDITION D must be entered REQUIRED ACTION: Reduce THERMAL POWER to < 60% of the ALLOWABLE THERMAL POWER with a COMPLETION TIME of 2 hours. AND
Refer to TS 3.2.3 (Quadrant Power Tilt) and determine that the highest positive tilt is 5.14% and is above the Transient but less than the maximum limit. TS 3.2.3 CONDITION D must be entered REQUIRED ACTION: Reduce THERMAL POWER to < 60% of the ALLOWABLE THERMAL POWER with a COMPLETION TIME of 2 hours. AND
TS 3.2.3 CONDITION D must be entered REQUIRED ACTION: Reduce THERMAL POWER to < 60% of the ALLOWABLE THERMAL POWER with a COMPLETION TIME of 2 hours. AND
REQUIRED ACTION: Reduce THERMAL POWER to < 60% of the ALLOWABLE THERMAL POWER with a COMPLETION TIME of 2 hours. AND
AND
Reduce nuclear overpower trip setpoints, based on flux and flux/flow imbalance, to \leq 65.5% of the ALLOWABLE THERMAL POWER with a COMPLETION TIME of 10 hours.
COMMENTS:
END TASK

TIME STOP: _____

CRITICAL STEP EXPLANATIONS:

STEP

Explanation

- 2 Data must be entered correctly to ensure the proper tilt is calculated.
- 3 Calculation must be performed correctly to determine the tilt value.
- 4 Required to determine TS actions and completion times.

BACKUP INCORE CHART "A"		
Point #	%	Location
1	132.7	G09-L2
2	138.0	G09-L4
3	133.3	G09-L6
4	145.6	E09-L2
5	145.3	E09-L4
6	142.5	E09-L6
7	128.8	G05-L2
8	133.8	G05-L6
9	126.3	M07-L2
10	122.9	M07-L6
11	127.5	K11-L2
12	122.2	K11-L6
13	144.4	F13-L2
14	145.0	D05-L2
15	143.1	F13-L4
16	142.5	C06-L2
17	144.5	C06-L6
18	133.6	F13-L6
19	133.8	O10-L6
20	135.5	L03-L6
21	136.1	L03-L2
22	135.6	D05-L6
23	133.8	O10-L2
24	142.5	D05-L4

CANDIDATE CUE SHEET (TO BE RETURNED TO EXAMINER UPON COMPLETION OF TASK)

INITIAL CONDITIONS:

- Unit 1 has been operating at 100% power for 4 days
- On the OAC the Computer Reactor Calculation Package for Incore Detector data calculations has been OOS for the past 2 days.
- Backup Incore Chart Recorder "A" points are ALL operable
- Backup Incore Chart Recorder "B" is OOS
- 1NI-7 has just failed
- The CRS has verified per OP/1/A/1105/014, Control Room Instrumentation Operation And Information, (Encl. 4.7, RPS Information; Step 3.3.3) that Axial Imbalance and QPT surveillances must be performed using the Backup Incore Detectors.
- PT/1/A/1103/019, (Backup Incore Detector System) in progress:
 - Enclosure 13.3 (Axial Power Imbalance Calculation Sheet) has been calculated and verified.
 - Enclosure 13.4 (Quadrant Power Tilt Calculation Sheet) has been calculated but NOT verified.

INITIATING CUE:

The CRS directs you:

- 1. As the verifier, to calculate quadrant power tilt using PT/1/A/1103/019, Backup Incore Detector System, Enclosure 13.4 (Quadrant Power Tilt Calculation Sheet) using the attached data sheet.
- 2. To determine any required TS required actions and completion times

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REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

Admin-145 Calculate Run Time for Deborating Demineralizer

CANDIDATE

EXAMINER

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

<u>Task</u>:

Calculate Run Time for Deborating Demineralizer

Alternate Path:

No

Facility JPM #:

CRO-117

K/A Rating(s):

System: Gen K/A: 2.1.37 Rating: 4.3/4.6

Task Standard:

Calculate the Run Time for the Deborating IX by procedure.

Preferred Evaluation Location:

Simulator _____ In-Plant _____ Classroom _ X___

References:

OP/1/A/1103/004 (Soluble Poison Control) OP/1/A/1103/004 C (Deborating IXs)

Validation Time: 20 min.

Time Critical: No

Time Start: _____

Time Finish: _____

Performance Time: _____

Preferred Evaluation Method:

Perform X Simulate

Candidate:

NAME

Performance Rating: SAT _____ UNSAT _____

Examiner:	1	(
NAME	SIGNATURE	DATE	
Comments			

SIMULATOR OPERATOR INSTRUCTIONS:

NONE

Tools/Equipment/Procedures Needed:

OP/1/A/1103/004 (Soluble Poison Control) OP/1/A/1103/004 C (Deborating IXs)

READ TO OPERATOR

DIRECTIONS TO STUDENT:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

INITIAL CONDITIONS:

Unit 1 is at 100% full power

Current RCS Boron concentration is 35 ppmB

Letdown Flow is 78 gpm with BOTH Letdown Filters in service

The OAC is **NOT** available

Assume 1 ppm for IX effluent

OP/1/A/1103/004 C (Deborating IXs) Enclosure 4.2 (Unit 1 Deborating IX For RCS Deboration (Rx At Power) is in progress and has been completed through Step 1.6

INITIATING CUE:

The Unit 1 CRS directs you to perform Enclosure 4.2 steps 2.1 - 2.2 to determine the volume of RCS that must be flowed through the Unit 1 Deborating IX and the corresponding Deborating IX run time to reduce the RCS Boron concentration to <u>31 ppmB</u>.

START TIME: _____

<u>STEP 1</u> :	Step 2.1	*CRITICAL STEP
	Determine volume required to make desired RCS boron change:	
NOTE: Placing gals of water a	NOTE: Placing an idle Letdown Filter in service can affect core reactivity by adding ≈ 60 gals of water at a different boron concentration (R M)	
-	2.1.1 IF two Letdown Filters are available AND NOT already in service.	
	perform the following:	
	A. Review Component Boron Log for out-of-service Letdown Filter boron.	
	B. Determine final RCS boron based on placing Letdown Filter in service.	
	2.1.2 Review Demineralizer Log Sheet to determine IX effluent boron or assume 1 ppm for IX effluent.	
	2.1.3 Determine volume required to get desired RCS boron change.	
	2.1.4 Volume requiredgallons.	
<u>STANDARD</u> :	Determine two Letdown Filters are in service and N/A Step 2.1.1 Assume 1 ppm for IX effluent *Refer to OP/1/A/1103/004 (Soluble Poison Control) and determine required volume is 7122 gallons . + 2	
$B = B_{o}e^{-Ft}$	V	
$B_0 = Initial Co$	onc (ppm) B = Final Conc (ppm)	
F = Feed and	Bleed Flow Rate (gpm) V = Total System Volume	
t = Time Feed	and Bleed (min)	
-(In 31/35) 5	8,681 = 7121.58	
Note: The ord	er the calculations are performed is not critical.	
COMMENTS:		

<u>STEP 2</u> :	Step 2.2	CRITICAL STEP
NOTE: Allowin change final R	ng Unit 1 Deborating IX to be in service an incorrect amount of time can CS boron and cause unanticipated reactivity changes. (R.M.)	SAT
	Calculate Unit 1 Deborating IX run time: (R.M.)	
	Run Time = Volume required ÷ letdown flow	UNSAT
Run	Time (minutes) = Volume gal ÷ letdown flow (gpm)	
STANDARD:	Determine run Time is <u>91 minutes.</u> ± 1	
<u>91.31</u> Run Ti	me (minutes) = Volume <u>7122</u> gal ÷ letdown flow <u>78</u> (gpm)	
COMMENTS:		
	END TASK	

TIME STOP: _____

CRITICAL STEP EXPLANATIONS

STEP

Explanation

- 1 This step is required to determine the volume of water thru the Demin to change the RCS Boron concentration.
- 2 This step is required to determine the amount of time letdown will be diverted thru the Demin.

CANDIDATE CUE SHEET (TO BE RETURNED TO EXAMINER UPON COMPLETION OF TASK)

INITIAL CONDITIONS:

Unit 1 is at 100% full power

Current RCS Boron concentration is 35 ppmB

Letdown Flow is 78 gpm with BOTH Letdown Filters in service

The OAC is **NOT** available

Assume 1 ppm for IX effluent

OP/1/A/1103/004 C (Deborating IXs) Enclosure 4.2 (Unit 1 Deborating IX For RCS Deboration (Rx At Power) is in progress and has been completed through Step 1.6

INITIATING CUE:

The Unit 1 CRS directs you to perform Enclosure 4.2 steps 2.1 - 2.2 to determine the volume of RCS that must be flowed through the Unit 1 Deborating IX and the corresponding Deborating IX run time to reduce the RCS Boron concentration to <u>31 ppmB</u>.

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

Admin-212 Determine LTOP Requirements

CANDIDATE

EXAMINER

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

Task:

Determine LTOP Requirements

Alternate Path:

No

Facility JPM #:

Modified

K/A Rating(s):

System: Gen K/A: 2.2.14 Rating: <u>3.9/4.3</u>

Task Standard:

Per OP/**1**/A/1104/049, Low Temperature Overpressure Protection, based on conditions provided determine that logic paths required by Enclosure 4.13 will satisfy LTOP requirements.

Preferred Evaluation Location:	Preferred Eva	luation Metho	<u>d:</u>
Simulator In-Plant ClassroomX	Perform X	Simulate	
<u>References:</u> OP/ 1 /A/1104/049 Low Temperature Overpressure Protection (LTOP) OP/ 0 /A/1108/001 Curves and General Information			
Validation Time: 30 min		Time Critical	: NO
Candidate:		Time Start: _	
NAME		Time Finish:	
Performance Rating: SAT UNSAT	Perfor	mance Time: _	
Examiner:	SIGNATURE	///////	DATE
<u>COMMENTS</u>			=====

SIMULATOR OPERATOR INSTRUCTIONS

NONE

Tools/Equipment/Procedures Needed:

Unit 1 Conditions For Determining LTOP Requirements (Last page of JPM) OP/**1**/A/1104/049 (Low Temperature Overpressure Protection) OP/**0**/A/1108/001 Curves and General Information (Available in procedures cart) Highlighter

READ TO OPERATOR

DIRECTION TO TRAINEE

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet provided.

INITIAL CONDITIONS

- Unit 1 controlling procedure for unit shutdown and cooldown is in progress for entering a refueling outage.
- Plant conditions are as described in the attachment provided.
- CRS has just been notified that the 1HP-120 travel stop is NOT installed correctly.

INITIATING CUES

In accordance with Limit and Precaution 2.12 of OP/**1**/A/1104/049 (Low Temperature Overpressure Protection), determine if LTOP requirements are still met. Document your determination as directed in the Limit and Precaution.

Once you have completed the determination, sign and date in the blanks provided on Enclosure 4.13 (LTOP Requirements Logic Diagram) and return it to the examiner.

START TIME: _____

EXAMINER NOT	E: The sequence of steps is NOT critical.	CRITICAL STEP SAT
<u>STEP 1</u> : Deter	mine if LTOP Train 1 requirements are met.	
STANDARD: Candi and c •	date Refers to OP/1/A/1104/049 (LTOP) Encl. 4.13 and attachment ircles the following: RC-4 open PORV Auto Operable	UNSAT
COMMENTS:		
STEP 2: Indica	ate the path that satisfies LTOP requirements for Train 1	SAT
<u>STANDARD</u> : Candi satisfi	date uses a highlighter or other means to trace the logic path that es Train 1 LTOP requirements as indicated on the attached key.	UNSAT
COMMENTS:		
STEP 3:		CRITICAL STEP
Det STANDARD: Car	ermine if upper portion LTOP Train 2 requirements are met.	SAT
and	 circles the following: 1A & 1B HPIP's racked out or in test, and tagged 1C HPIP bkr racked out or in test, and tagged 1CF-1 Closed/handwheel tagged and bkr tagged open 1B CFT depressurized to < 373 psig 	UNSAT
COMMENTS:		

<u>STEP</u> 4:	Indicate the path that satisfies LTOP requirements for the upper portion of Train 2.	SAT
<u>STANDARD</u> : <u>COMMENTS</u> :	Candidate uses a highlighter or other means to trace the logic path that satisfies the upper portion of Train 2 LTOP requirements as indicated on the attached key.	UNSAT
		CRITICAL STEP
<u>STEP 5</u> :	Determine if lower portion LTOP Train 2 requirements are met.	SAT
<u>STANDARD</u> :	 Candidate Refers to OP/1/A/1104/049 (LTOP) Encl. 4.13 and attachment and circles the following: HPI NOT in operation and aligned via 1HP-120 LTOP computer point O1L3153 not in alarm 1SA-2/C-3, C-4 cars not pulled/not in alarm "HIGH" 1SA-18/A-3 card not pulled/not in alarm 1SA-18/A-4 card not pulled/not in alarm OAC operable 1N-121 Tagged Closed Pzr Htr Bank 4 Deactivated RCS pressure within limits Pzr level within limits 	UNSAT
COMMENTS:		
<u>STEP 6</u> :	Indicate the path that satisfies LTOP requirements for the lower portion of Train 2.	SAT
<u>STANDARD</u> :	Candidate uses a highlighter or other means to trace the logic path that satisfies the lower portion of Train 2 LTOP requirements as indicated on the attached key.	UNSAT
COMMENTS:		

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		Page 7 of 1
		CRITICAL STEP
<u>STEP 7</u> :	Indicate that the logic path for LTOP requirements is satisfied.	SAT
STANDARD:	Candidate indicates that the logic paths for LTOP requirements are being satisfied in accordance with the attached key.	
		UNSAT
COMMENTS:		
<u>SIEF 0</u> .	Fill in the "Performed By" and "Date/Time" blanks	SAT
STANDARD:	Candidate completes the "Performed By" and "Date/Time" blanks	
		UNSAT
COMMENTS:		
<u> </u>		
	END TASK	

STOP TIME: _____

CRITICAL STEP EXPLANATIONS

STEP

Explanation

- 1 Require to determine if Train 1 requirements are met
- 3 Require to determine if Train 2 requirements are met
- 5 Require to determine if Train 2 requirements are met
- 7 Required to determine if all LTOP requirements are met

CANDIDATE CUE SHEET (TO BE RETURNED TO EXAMINER UPON COMPLETION OF TASK)

INITIAL CONDITIONS

- Unit 1 controlling procedure for unit shutdown and cooldown is in progress for entering a refueling outage.
- Plant conditions are as described in the attachment provided.
- CRS has just been notified that the 1HP-120 travel stop is NOT installed correctly.

INITIATING CUES

In accordance with Limit and Precaution 2.12 of OP/**1**/A/1104/049 (Low Temperature Overpressure Protection), determine if LTOP requirements are met. Document your determination as directed in the Limit and Precaution.

Once you have completed the determination, sign and date in the blanks provided on Enclosure 4.13 (LTOP Requirements Logic Diagram) and return it to the examiner.

Unit 1 Conditions For Determining LTOP Requirements (TO BE RETURNED TO EXAMINER UPON COMPLETION OF TASK)

Procedures in progress:

OP/1/A/1102/010, Controlling Procedure for Unit Shutdown

• Encl. 4.10, S/D from Mode 3 to Mode 4 in progress

RCS Parameters:

- Tc = 225°F slowly decreasing
- RCS Pressure = 285 psig decreasing
- Pressurizer Level = 218 inches decreasing slowly
- LPI operation (Series Mode) in progress

Primary Systems/Components status:

- All HPI pumps are OFF
- 1B and 1C HPI Pumps are racked out and tagged
- 1A HPI Pump is racked in the TEST position and tagged
- 1HP-26 and 1HP-27 are closed; handwheels tagged; breakers tagged open
- 1HP-409 switch in CR has been tagged closed
- 1HP-410 switch in CR is closed but not tagged
- 1CF-1 is Closed / handwheel tagged and breaker tagged open
- 1CF-2 is Closed / handwheel tagged and breaker not tagged open
- 1A CFT pressure = 375 psig stable
- 1B CFT pressure = 368 psig stable
- Computer point O1L3153 is not in alarm
- Computer points O1X2285 and O1X2256 are locked out
- 1SA-2/C-3, 1SA-2/C-4, 1SA-18/A-3, and 1SA-18/A-4 cards are not pulled and not in alarm
- 1N-121 is closed and tagged
- Pressurizer Heater Bank 4 is deactivated with breaker white tagged
- No dedicated LTOP Operator assigned
- An LTOP Vent path (≥ 3.6 square inches) is <u>not</u> established
- 1RC-4 is open
- PORV is operable with setpoint selected to LOW

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

Admin-241

Complete Plant Configuration Sheet (Time to Core Boil)

CANDIDATE

EXAMINER

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

<u>Task:</u>

Complete Plant Configuration Sheet (Time to Core Boil) and determine any required actions

Alternate Path:

No Facility JPM #: Admin 203 K/A Rating(s): System: GEN K/A: 2.2.18 Rating: 2.6/3.9 Task Standard: Tables in OP/0/A/1108/001 A are used to determine Total Loss Of DHR Time to Boil is less than 16 minutes and that the RB Equipment hatch must be closed **Preferred Evaluation Location: Preferred Evaluation Method:** Simulator In-Plant Classroom X Perform X Simulate **References:** OP/0/A/1108/001 A (Reactor Core and SFP Loss Of Cooling Heatup Tables) Enclosure 4.1 (Total Loss of DHR Time to Boil)

Site Directive 1.3.5 (Shutdown Protection Plan) Attachment 9.2.A

Validation Time: 25 minutes		Time Critical: NO	
Candidate:		Time Start:	
	NAME	Time Finish: _	
Performance Rating:	SAT UNSAT	Performance Time:	
Examiner:	NAME	///////	DATE
			=====

COMMENTS

SIMULATOR OPERATOR INSTRUCTIONS:

NONE

Tools/Equipment/Procedures Needed:

OP/0/A/1108/001 A (Reactor Core and SFP Loss Of Cooling Heatup Tables) Enclosure 4.1 (Total Loss of DHR Time to Boil)

Site Directive 1.3.5 (Shutdown Protection Plan) Attachment 9.2.A

READ TO OPERATOR

DIRECTION TO TRAINEE:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

INITIAL CONDITIONS:

- Unit 1 was shutdown on12/01 0400
- Site Directive 1.3.5 (Shutdown Protection Plan) Attachment 9.2.A is being prepared for this shift.

INITIATING CUES:

Current Date/Time: 12/03 0615

The SRO instructs you to determine the "Time To Core Boil" and perform any required actions based on the results in accordance with Site Directive 1.3.5 (Shutdown Protection Plan) Attachment 9.2.A.

START TIME: _		
<u>STEP 1</u> :	Refer to enclosure 4.1 of OP/0/A/1108/001 A Choose the appropriate table	CRITICAL STEP
<u>STANDARD</u> : <u>COMMENTS</u> :	Refer to enclosure 4.1 of OP/0/A/1108/001 A Table 9 (Initial Temp = 120°F) (Hours Since S/D); Time to Boil in Minutes" table.	UNSAT
STEP 2:	Determine the number of hours the reactor has been shutdown.	CRITICAL STEP
<u>STANDARD</u> : COMMENTS:	Determine the reactor has been shut down for 50 Hours.	UNSAT
STEP 3 [.]	Determine time to boil	CRITICAL STEP
<u>STANDARD</u> :	Determine time to boil is 15.7 minutes by using 50 hours and 70 inches on LT-5.	SAT
COMMENTS:		UNSAT
STEP 4:	Ensure equipment hatch is closed.	CRITICAL STEP
STANDARD:	Ensure the equipment hatch is closed since the Configuration Sheet indicates that the Equipment Hatch is Open and time to Core Boil is less than 16 minutes.	SAT
COMMENTS:		UNSAT
	END TASK	

STOP TIME: _____

CRITICAL STEP EXPLANATIONS:

STEP

Explanation

- 1 Required to determine the time for core boil.
- 2 Required to determine the time for core boil.
- 3 Required to determine the time for core boil.
- 4 Required to determine actions required as a result of the core boil time

CANDIDATE CUE SHEET (TO BE RETURNED TO EXAMINER UPON COMPLETION OF TASK)

INITIAL CONDITIONS:

- Unit 1 was shutdown on12/01 0400
- Site Directive 1.3.5 (Shutdown Protection Plan) Attachment 9.2.A is being prepared for this shift.

INITIATING CUES:

Current Date/Time: 12/03 0615

The SRO instructs you to determine the "Time To Core Boil" and perform any required actions based on the results in accordance with Site Directive 1.3.5 (Shutdown Protection Plan) Attachment 9.2.A.

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

Admin-307

Determine Posting and Access requirements of the LPI Room Based on Plan View

CANDIDATE

EXAMINER

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

<u>Task:</u>

Determine Posting and Access requirements of LPI Room Based on Plan View

Alternate Path:

N/A

Facility JPM #:

ADMIN-304

K/A Rating(s):

 System:
 GEN

 K/A:
 2.3.12

 Rating:
 3.2/3.7

Task Standard:

Determine that:

- 1. Area should be posted as a High Radiation Area and a Contaminated Area
- 2. Entry does not requires continuous RP coverage.
- 3. The Duke Energy Annual Exposure limit of 2000 mr/yr will not be exceeded

Preferred Evaluation Location:

Preferred Evaluation Method:

Perform X Simulate

Simulator ____ In-Plant ____ Classroom __X__

References:

NSD-507, Radiation Protection Survey Map of Room 61

Validation Time: 10 minutes	Time Critical: NO
Candidate:	Time Start:
NAME	Time Finish:
Performance Rating: SAT UNSAT	Performance Time:
Examiner:	

COMMENTS

SIMULATOR OPERATOR INSTRUCTIONS:

None

Tools/Equipment/Procedures Needed:

NSD-507, Radiation Protection Survey Map of Room 61

READ TO OPERATOR

DIRECTION TO TRAINEE:

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

INITIAL CONDITIONS:

You are a Reactor Operator. An event has occurred which resulted in a significant change in the radiological conditions in Room 61 (LPI and RBS Pumps).

Your total whole body dose this year is 1635 mr.

INITIATING CUES:

Using the updated survey map provided, determine the following for Room 61:

- The RP related posting(s) you would expect to encounter at the entry to Room 61
- Is Continuous RP coverage required for you to perform venting of the 1A LPI Pump
- If venting the 1A LPI pump takes five hours, determine what annual limit, if any, will be exceeded.

Assume no dose picked up during travel to and from the room.

START TIME: _____

STEP 1: STANDARD: Note: Order of COMMENTS:	Using the survey map provided, determine the area posting requirements. Candidate reviews the survey map and determines: • Based on an area around LPI sump pumps being 975 mr/hr (> 100 mr/hr, but < 1000 mr/hr), the area should be posted as a High Radiation Area (HRA). f steps is not critical.	CRITICAL STEP
<u>STEP 2</u> :	Using the survey map provided, determine the area posting requirements.	CRITICAL STEP
		SAT
STANDARD:	Candidate reviews the survey map and determines:	
	 Based on an area around 1C LPI pmp being > 1000 DPM/100cm², the area should be posted as a Contaminated Area 	UNSAT
COMMENTS:		
<u>STEP 3</u> :	Determine RP coverage required to vent the 1A LPI Pump	CRITICAL STEP
	Condidate determines that continuous RR coverage is NOT required	SAT
<u>STANDARD</u> .	since the area is a HRA. RP coverage requirements (if any) would therefore be specified on the RWP	
		UNSAT
COMMENTS:		
<u> </u>		

<u>STEP 4</u> :	Determine what annual limit is exceeded (if any).	CRITICAL STEP
<u>STANDARD</u> :	Candidate determine the dose as result of the venting as follows: 5 hours X 62 mr/hr = 310 mr 1635 + 310 = 1945 mr Determine that the Duke Energy Annual Exposure limit of 2 rem/year has	SAT UNSAT
Note to Examir mr/hr), he will i <u>COMMENTS</u> :	NOT been exceeded. her: If the candidate incorrectly uses the dose rate at the 1C LPI pump (95 incorrectly determine that the annual exposure limit will be exceeded.	
	END TASK	

STOP TIME: _____

CRITICAL STEP EXPLANATIONS:

STEP

Explanation

- 1 Determines General Area posting requirements for the room to be entered
- 2 Determines contamination posting requirements for the room to be entered
- 3 Determines RP continuous coverage requirements
- 4 Determine DE Admin limit will not be exceeded.

CANDIDATE CUE SHEET (TO BE RETURNED TO EXAMINER UPON COMPLETION OF TASK)

INITIAL CONDITIONS:

You are a Reactor Operator. An event has occurred which resulted in a significant change in the radiological conditions in Room 61 (LPI and RBS Pumps).

Your total whole body dose this year is 1635 mr.

INITIATING CUES:

Using the updated survey map provided, determine the following for Room 61:

- The RP related posting(s) you would expect to encounter at the entry to Room 61
- Is Continuous RP coverage required for you to perform venting of the 1A LPI Pump
- If venting the 1A LPI pump takes five hours, determine what annual limit, if any, will be exceeded.

Assume no dose picked up during travel to and from the room.

Room 61 LPI & RBS Pumps	Survey # M-021506-17	Date/Time Today 0412
ROOM 61 LPI	AND RB PUMP (2) (2) (3) (3) (3) (4) (5) (4) (5) (5) (5) (5) (5) (5) (5) (5	S N EWA 35 2
Comments: CONTACT RP REGARDING ANY ATTEMPTS TO CLEAN	Smoarc	Air Samles & Wines
	Smears	Air Samples & Wipes
Symbol Legend (for example only) Type: Job Coverage Dose Rate HS-50 Hot Spot *150 -Contact Reading RCA Posting 20 General Area Drip Bag Reactor Power = 100% (15) Smear 15 Air Sample Swipe Image: Swipe	1) 554 DPM/100 cm2 β/η 2) 485 DPM/100 cm2 β/η 3) 1453 DPM/100 cm2 β	Υ Υ /γ
Unless otherwise noted, dose rates in mrem/hr.	-	
Surveyor: W. Walters	Approved by: N. V	Vriston, Date: Today

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REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

Admin-413

Determine Emergency Classification and complete the Emergency Notification form

CANDIDATE

EXAMINER

REGION II INITIAL LICENSE EXAMINATION JOB PERFORMANCE MEASURE

<u>Task</u>:

Determine Emergency Classification and Protective Action Recommendations (Complete Emergency Notification Form)

Alternate Path:

NO

Facility JPM #:

Admin-409

K/A Rating(s):

System: Gen K/A: 2.4.38 Rating: 2.4/4.4

Task Standard:

Appropriate classification is determined and associated Emergency Notification Form is completed with the time critical criteria.

Preferred Evaluation Locati	on:	Preferred Evaluation Method:
Simulator In-Plant	Classroom <u>X</u>	Perform X Simulate
<u>References</u> :		
RP/0/B/1000/001 (Emergency RP/0/B/1000/002 (Control Ro Nuclear Power Plant Emerge	y Classification) om Emergency Coordinator Procedure ncy Notification Form 4.1.A.1)
Validation Time: 20 min.		Time Critical: Yes
Candidate:		Time Start:
	NAME	Time Finish:
Performance Rating: SAT	UNSAT	Performance Time:
Examiner:		//////
NAM =============	E 	SIGNATURE DATE

Comments

SIMULATOR OPERATOR INSTRUCTIONS

NONE

Tools/Equipment/Procedures Needed:

RP/0/B/1000/01 RP/0/B/1000/02

READ TO OPERATOR

DIRECTIONS TO STUDENT

I will explain the initial conditions, and state the task to be performed. All control room steps shall be performed for this JPM, including any required communications. I will provide initiating cues and reports on other actions when directed by you. Ensure you indicate to me when you understand your assigned task. To indicate that you have completed your assigned task return the handout sheet I provided you.

INITIAL CONDITIONS:

- 0400 Unit 1 plant conditions
 - Reactor power = 100%
 - TD EFDW Pump OOS

Unit 2 plant conditions

• Reactor power = 100%

Unit 3 plant conditions

- Shutdown 4 days ago at 0000
- MODE 6
- Defueling in progress

Security reports they are responding to shots fired at the Main Entrance (Security Check Point #1).

- 0405 Station Blackout
- 0410 Security reports armed personal entering the SSF. Access to the SSF is NOT possible at this time

INITIATING CUE:

Perform the required actions of the Emergency Coordinator:

- 1. Determine Emergency Classification at Time = 0410
- 2. Complete appropriate Emergency Notification Form

THIS IS A TIME CRITICAL JPM

Note: Do not use Emergency Coordinator's judgment while classifying the event. When required, other operators will maintain the Emergency Coordinator's Log and perform the duties of the Control Room Offsite Communicator.

START TIME:

(•	ot.	Lol	tim	2
(A	Cτι	Jai	τım	e)

STEP 1:	Classify the Event	CRITICAL STEP
<u>STANDARD</u> :	Refer to RP/0/B/1000/01 (Emergency Classification) Enclosure 4.6 (Fire/Explosions and Security Actions)	SAT
	Classify the event as a " General Emergency " due to: "A HOSTILE ACTION has occurred such that plant personnel are unable to operate equipment required to maintain safety functions."	UNSAT
Time of Classi	fication:	
COMMENTS:		
<u>STEP 2</u> :	Commence the Off-Site Notification Form.	
<u>STANDARD</u> :	Go to RP/0/B/1000/002 (Control Room Emergency Coordinator Procedure) and initiate procedure by determining symptoms for entry exist and check Step 1.1	SAT
COMMENTS:		UNSAT
STEP 3:	Step 2.1.	
STANDARD:	Determine step 2.1 does not apply	SAT
COMMENTS:		UNSAT

STEP 4:	Step 2.2 Declare the appropriate Emergency Classification level.	TIME CRITICAL STEP
<u>STANDARD</u> :	Classification <u>General Emergency</u> (UE, ALERT, SAE, GE) Time Declared: Declare a General Emergency due to: "A HOSTILE ACTION has occurred such that plant personnel are unable to operate equipment required to maintain safety functions."	SAT UNSAT
COMMENTS:	 Time General Emergency Declared documented in Step 1 (SAT is < Start Time + 15 minutes) 	
<u>STEP 5</u> :	Step 2.3 & 2.4	
<u>STANDARD</u> : <u>COMMENTS</u> :	Determine Steps 2.3 and 2.4 do not apply	SAT
		UNSAT
<u>STEP 6</u> :	Step 2.5 Appoint Control Room Offsite Communicator(s) and notify him to be prepared to transmit messages.	SAT
STANDARD:	Any name (real or imaginary) is acceptable.	3A1
Note: Initiating	g Cue indicates these actions will be performed by another operator.	UNSAT

<u>STEP 7</u> :	Step 2.6 IAAT Changing plant conditions require an emergency classification upgrade, THEN Notify Offsite Communicator to complete the in-progress notifications per RP/0/B/1000/15A, (Offsite Communications From The CR) AND Re-initiate a clean copy of this procedure for the upgraded classification and stop this procedure.	SAT UNSAT
STANDARD:	An Upgrade is not expected.	
COMMENTS:		
<u>STEP 8</u> :	Step 2.7 Obtain the appropriate Offsite Notification form from the Emergency Plan cart.	CRITICAL STEP
STANDARD:	Initial General Emergency form # 4.6.G.1 is selected and candidate continues to fill-out form per the Step 2.7 substeps.	UNSAT
COMMENTS:		

<u>STEP 9</u> : Step 2.7	CRITICAL STEPS
 Ensure EAL # as determined by RP/0/B/1000/001 matches Line 4. (4.6.G.1) (NC) Line 1 - Mark appropriate box "Drill" or "Actual Event" (DRILL) (C) Line 1 - Enter Message # (#1) (C) Line 2 - Mark Initial (INITIAL marked) (C) Line 6 - ('None' marked) A. Mark "Is Occurring" if any of the following are true: RIAs 40, 45, or 46 are increasing or in alarm If containment is breached Containment pressure > 1 psig 	Line 1 (Message #) Line 2 Line 6 Line 7 Line 10 Line 12
 B. Mark "None" if none of the above is applicable. (C) Line 7 - If Line 6 Box B or C is marked, mark Box D. Otherwise mark Box A ('A' marked) (NC) Line 8 Mark "Stable" uplace on upgrade or additional DADs are entipipated within 	UNSAT
 (NC) Line 8 - Mark Stable unless an upgrade of additional PARs are anticipated within an hour. Refer to Enclosure 4.9, (Event Prognosis Definitions) (C) Line 10 - Military time and date of declaration (Refer to date/time in Step 2.2) (Insert time from STEP 1 and today's date, military time is not critical as long 	
 as time is specific and accurate.) (NC) Line 11 - If more than one unit affected, mark "All" (ALL marked) (C) Line 12 - Mark affected unit(s) (reference Line 11) AND enter power level of affected unit(s) or time/date of shutdown {14} (Unit 1 and 2 0% power, Shutdown at 1405 with today's date. Unit 3 four days ago at 0000.) 	
 (NC) Line 13 - If the OSM has no remarks, write "None" (Candidate may provide relevant information as applicable) If Condition "A" exists ensure following PARs are included Line 5. A. Evacuate: Move residents living downstream of the Keowee Hydro Project dams to higher ground B. Other: Prohibit traffic flow across bridges identified on your inundation maps until the danger has passed. (Condition A does not exist. No PAR required) 	
STANDARD: Correctly fills out Emergency Notification Form in accordance with Key.	
<u>COMMENTS</u> :	

<u>STEP 10</u> :	Step 2.7 Continued	TIME CRITICAL STEP
(C) Line 17 - 0		
STANDARD:	Correctly fills out Emergency Notification Form within 15 minutes of classification time recorded in step 1.	
STOP TIME #		
(Actual time)	(SAT is < Stop Time #1 + 15 minutes)	
COMMENTS:		

CRITICAL STEP EXPLANATIONS

STEP

Explanation

- 1 The candidate needs to be able to utilize the procedure and determine the conditions meet a Site Area Emergency classification.
- 4 This is a time critical step. The candidate needs to declare the SAE within 15 minutes of beginning the JPM. (The start of the JPM is the beginning of the assessment period)
- 8 The correct form that matches the EAL # is selected.
- 9 The emergency notification form is filled-out with each line entry identified as 'critical' complete and accurate.
- 10 This is a time critical step. The Candidate needs to complete the notification form within 15 minutes from the time the EAL was declared. (Declaration time is the time recorded in JPM step 4)

CANDIDATE CUE SHEET (TO BE RETURNED TO EXAMINER UPON COMPLETION OF TASK)

INITIAL CONDITIONS:

0400 Unit 1 plant conditions

- Reactor power = 100%
- TD EFDW Pump OOS

Unit 2 plant conditions

• Reactor power = 100%

Unit 3 plant conditions

- Shutdown 4 days ago at 0000
- MODE 6
- Defueling in progress

Security reports they are responding to shots fired at the Main Entrance (Security Check Point #1).

- 0405 Station Blackout
- 0410 Security reports armed personal entering the SSF. Access to the SSF is NOT possible at this time

INITIATING CUE:

Perform the required actions of the Emergency Coordinator:

- 1. Determine Emergency Classification at Time = 0410
- 2. Complete appropriate Emergency Notification Form

THIS IS A TIME CRITICAL JPM

Note: Do not use Emergency Coordinator's judgment while classifying the event. When required, other operators will maintain the Emergency Coordinator's Log and perform the duties of the Control Room Offsite Communicator.