Job Position		No.		Revision
SRO / RO		JP-OP-802-4101-	431	2
JPM Title		Duration	Page	
Thermal Limit Verification	(MAPRAT)	15 minutes*		1
			*2 times Dur	ation for ILO Exams
Examinee:		SRO	/ RO	
Evaluator:				
Validating Representatives	s Name: <u>Ken Griffin / Phil Heuker</u>			
			T ime e	

JPM Type:	Normal / Alternate Path / Time Critical	Start Time
Evaluation Method:	Perform / Walkthrough / Discuss	Stop Time
Location:	Plant / Simulator / Classroom	Total Time:

PERFORMANCE EVALUATION SUMMARY											
Element	S	U	Comment	Element	S	U	Comment	Element	S	U	Comment
1.											
2.											
3.											
* 4.											
* 5.											
* 6.											
7.											
* 8.			SRO Only								

OPERATOR FUNDAMENTALS OBSERVATION

Monitor operator fundamentals during the JPM set. Rate each area based on the criteria by placing a checkmark in the appropriate column. Indicate the comment number associated with the observation.

Operator Fundamental	Meets all Expectations	Opportunity for Improvement	Does not meet Expectations	Comment Number
Monitoring				
Control				
Conservatism				
Teamwork				
Knowledge				

OVERALL EVALUATOR COMMENTS:

REMEDIAL CONTENT:

PASS FAIL

Evaluator Signature / Date:

/

JPM Title
Thermal Limit Verification (MAPRAT)

fundamentals to predict and monitor system response.

Only relied on procedure for

operating knowledge.

Opportunity for **Fundamental** Meets all Expectations Does not meet Expectations Improvement Some monitoring was Monitoring Equipment status monitored Did not recognize key at proper frequency, using performed but undue focus equipment status indicators, multiple means if available. on task or lack of system too much focus on sinale Understood which indications knowledge prevented ideal indications and ignored total were critical. monitoring. system status. Control Task preview used to prepare Adequate control of system No anticipation of results of for job. Aware of control maintained throughout task actions. Unaware or control but some improvements bands and maintained them. bands or not able to maintain Configuration control could be made such as better them. Lack of knowledge of maintained. manual control or greater how to control system depth of knowledge for parameters. anticipating system response. Some opportunities existed to Conservatism Low threshold for Proceeds even when unsure identification of problems. question before proceeding, with unanswered questions. Questioning attitude. Uses High focus on task High threshold for problem "stop when unsure" if completion without conditions. needed. Sensitive to nuclear consideration for other system affects. safetv. Routinely communicates Communicated most status Teamwork Routinely takes action without system status changes to the and actions. Some informing the team. team. Communicates actions improvement would be before taking them. warranted. Knowledge Able to anticipate system Plant, system, or generic Unable to predict system response based on solid fundamental knowledge has response, unsure of generic system knowledge. Good fundamentals concepts some gaps. working knowledge of generic related to plant operation.

JPM Observation Criteria

JPM Title	No.: JP-OP-802-4101-431
Thermal Limit Verification (MAPRAT)	Revision: 2
	Page 3

JPM Information

System:

B1100 & J1100 – Core and Fuel

Task:

8068 - Perform core performance parameter check

References: Required (R) / Available (A)

24.000.02, Shifty, Daily and Weekly Required Surveillances, Attachment 2 (pg 19 of 24) (R)

Tools and Equipment Required:

3DM Edit Printout (attached)

Initial Conditions:

- Today is Sunday (previous Sunday's date) Dayshift.
- You are the Patrol LNO.
- The plant is operating steady state at 100% rated thermal power, and has been at 100% power for greater than one week.

Initiating Cue(s):

- The CRS directs you to complete Step 16 of 24.000.02, Attachment 2, Core Thermal Limit Verification.
- The STA has indicated that 3DM limits are reflective of the status of the MSR and BPVs.
- There has been no TAU change.

Terminating Cue(s):

Surveillance is complete, and Tech Spec and limiting time identified (SRO only).

Task Standard:

Perform Core Thermal Limit verification in accordance with 24.000.02 Attachment 2 (Step 16), and identify Tech Spec LCO 3.2.1 not met – one hour time limit (SRO only).

JPM Title	No.: JP-OP-802-4101-431
Thermal Limit Verification (MAPRAT)	Revision: 2
	Page 4

Licensed Operator Exam Information (required for NRC exams)

Safety	Function:

N/A

K/A Reference: (from NUREG 1123)

K/A SYSTEM: 293009 - Core Thermal Limits

K/A STATEMENT: Generic

2.1.7	Ability to evaluate plant performance and make operational judgments based on operating	
	characteristics / reactor behavior / and instrument interpretation	/ 4.4

Maintenance Rule Safety Classification:

N/A

Maintenance Rule Risk Significant? (Yes or No)

N/A

JPM Title	
Thermal Limit Verification (MAPRAT)	

PERFORMANCE EVALUATION

Start Tin	ne		
	ELEMENT		STANDARD
CUE:	Provide examinee with Cue Sheet.		
	Provide examinee copy of 24.000.02 Att. the examinee this is the latest 3DM Edit.	2, and 1	he 3D Monicore Edit (attached). Inform
1.	Verify LPRMs are not failed (except for Bypassed LPRMs) and no other sensors are failed which affect the Heat Balance	1.	Verifies there are no failed LPRMs or other sensors shown on the 3DM edit.
2.	Verify Flow basis is "MEAS."	2.	Verifies Flow basis is "MEAS".
3.	If failed sensors exist (other than Bypassed or PANACEA-rejected LPRMs) or the flow basis is not "MEAS," consult with the STA/SNE for appropriate action before continuing.	3.	Identifies no failed sensors exist on the 3DM edit.
* 4.	Place a check in items a and b when the review is satisfactory or when discrepancies are resolved and logged by the STA/SNE.	* 4.	Checks blocks "a" and "b". The review is satisfactory.
* 5.	Record Calculated Date and Time (items c and d) of the Core Monitor Periodic Log and verify complete in last 24 hours.	* 5.	Records Date and Time and verifies complete within the last 24 hours
CUE:	As CRS acknowledge report of Tech Spe	C.	
* 6.	Record the listed parameters (items $e - h$) as they appear on the Core Monitor Periodic Log.	* 6.	Records CTP and Thermal Limit values. Identifies that MAPRAT is 1.008 . Notifies CRS that TS is not met.
NOTE:	Examinee may state that this non-compl	iance s	hould be noted in the Comments Section
7.	Step signature	7.	Does NOT initial or sign since Acceptance Criteria is NOT met.
* 8.	Review Tech Specs (SRO Only)	* 8.	Identifies TS 3.2.1 APLHGR Condition A.1, Restore within 2 hours (SRO Only).
CUE:	End JPM when surveillance is complete, an only).	id Tech	Spec and limiting time identified (SRO

_____ SATISFACTORY

_____ UNSATISFACTORY

Stop Time

* Critical Step

JPM Title	No.: JP-OP-802-4101-431
Thermal Limit Verification (MAPRAT)	Revision: 2
	Daga 6

Evaluator Notes:

ENSURE ALL INDUSTRIAL AND PERSONNEL SAFETY PRACTICES ARE USED AND ENFORCED AT ALL TIMES.

Generic Notes and Cues:

None

System Specific Notes and Cues:

None

Task Performance and Cues:

The Elements of this JPM are step by step in accordance with the procedure. The Standard is that the procedure is performed as written. The Cues are as listed above for indication or as each step is completed the appropriate information is reported to the examinee.

Critical Steps:

Critical Tasks are identified by asterisk (*) and **bolded** steps on the cover sheet. Verify that the latest revision of the procedure is used and critical tasks are correctly identified.

Page 6

JPM Title Thermal Li	imit Verification (MAPRAT)	No.: JP-OP-802-4101-431 Revision: 2 Page 7			
	FOLLOW-UP DOCUMENTA	TION QUESTIONS			
Reason for fo	bllow-up question(s):				
Question:					
_	Reference:				
Response:					
Question:					
Question.					
	Reference				
Response:					

JPM Title	No.: JP-OP-802-4101-431
Thermal Limit Verification (MAPRAT)	Revision: 2
	Page 8

Simulator Setup

<u>IC#:</u>

N/A

Malfunctions:				
Number	Title	Value	Delay	Ramp
N/A				
Remote Functions:				
Number	Title	Value	Delay	Ramp
N/A				
Override Functions:				
Number	Title	Value	Delay	Ramp
N/A				
<u>Special Instructions:</u> N/A				

Cue Sheet: (JP-OP-802-4101-431)

Initial Conditions:

- Today is Sunday (previous Sunday's date) Dayshift.
- You are the Patrol LNO.
- The plant is operating steady state at 100% rated thermal power, and has been at 100% power for greater than one week.

Initiating Cue(s):

- The CRS directs you to complete Step 16 of 24.000.02, Att. 2, Core Thermal Limit Verification.
- The STA has indicated that 3DM limits are reflective of the status of the MSR and BPVs.
- There has been no TAU change.

CORE PAI POWER POWER FLOW FPADPR	RAMETERS MWT MWE MLB/HR	3430 1134. 92.266 0.905	FERMI 3DM/P11 PERIODI AUTOMA CALC RE	CYCLE 20 IC LOG ATIC ESULTS	S T C F L	SEQUENCE NO 11 Foday 08:00 CALCU Foday 08:01 PRINT CASE ID FMLD10 RESTART FMLD10 PRM SHAPE – FU	JLATED ED 50609105759 50609095759 ILL CORE)
PR CORE CYCLE MCPR	PSIa MWD/sT MWD/sT	21.97 1040.78 23998.7 3997.3 1.628	XE WOR XE/RATE AVE VF	TH % -2. ED 1.0 0.469	33LOAD LII 02 C LII 02 C	NE SUMMARY CORE POWER CORE FLOW LOAD LINE	100.0% 92.3% 104.9%	, , , , , , , , , , , , , , , , , , ,
CORRECT OPTIONS:	ION FACTO ARTS	R: MFLCPF 2 LO	R= 1.000 OPS ON	MFLPD= MANUAL	1.000 FLOW	MAPRAT= 1.000 MCPRLIM= 1.350	0 0	
MFLCPR 0.829 0.826 0.814 0.812 0.805 0.803 0.796 0.790 0.786 0.785	LOC 29-10 9-30 29-14 13-30 27-12 11-28 27-10 9-28 25-10 9-26	MFLPD 0.985 0.975 0.955 0.867 0.862 0.861 0.861 0.861 0.854 0.854 0.854	LOC 51-34- 4 33-10- 5 51-32- 4 51-20- 5 53-32- 5 41-10- 5 31-10- 5 53-34- 4 37-10- 5 51-24- 5	MAPRA 1.008 0.975 0.925 0.900 0.747 0.747 0.747 0.742 0.734 0.734 0.734	NS (NON-S) AT LOC 3 51-34 5 33-10 5 51-20 0 41-10 7 51-32 7 37-10 3 51-24 2 53-30 4 31-8 7 47-20	PCRAT - 4 1.011 - 5 1.006 - 5 1.006 - 5 1.006 - 4 1.005 - 5 1.005 - 5 1.004 - 5 1.004 - 5 1.003 - 5 1.003 - 5 1.003	LOC 9-42- 5 9-34- 5 13-42- 5 11-40- 5 7-32- 5 27-52- 3 7-40- 5 13-32- 4 19- 5- 4 23-52- 4	
L 55	2 C=MF	LCPR D=M	FLPD M=MA	APRAT P=P		00 00 02 04 06	REL PW I 0.110 0.244 0.582 0.780 0.835	LOC 25 24 23 22 21
51 L 47 43 L	Ρ	06	O	96		08 10 12 14 16	0.902 0.927 0.934 0.953 1.015	20 19 18 17 16
39 35 L	06		10	06	М	18 20 22	1.049 1.103 1.152	15 14 13
31 27 L		10	1	0		24 26 28	1.190 1.203 1.219	12 11 10
23 19 L	06		10	06		30 32 34	1.269 1.312 1.335	09 08 07
15 11 L 07 03		06	c O	96		36 38 40 42 44	1.405 1.449 1.382 1.280 1.008	06 05 04 03 02
02 06 CORE AVE RING # REL PW	L L 10 14 ERAGE RA	L 18 22 26 DIAL POWE 1 2 123 1.25	L 30 34 3 R DISTRIBU 3 59 1.138	L L 38 42 46 TION 4 1.202	L 50 54 5 1.123 1	46 58 6 7 .261 1.087	0.362 8 0.497	U1

FERMI	CYCI	F 20	INS		NT READIN	GS/STAT	าเร	SEQUENCE NO 11	Page 2
	010	20	CA	ALIBRAT	ED LPRM	READING	S	Today 08:00 CALCULATED	
57 D C B A		20.0 23.8 26.0 23.3	26.5 32.2 38.8 41.5	26.3 31.1 40.0 39.0	22.3 29.2 35.3 37.5			CASE ID FMLD105060910 LPRM SHAPE - FULL CO	5759 RE
49 D C B A	20.7 25.8 28.9 27.4P	27.9 40.6 49.3 58.9	30.1 40.7 49.8 56.9	30.3 38.7 53.9 63.8	29.7 39.6 50.6 62.1	24.7 25.8 43.7 52.3		FAILED SENSORS LPRM (0 SIGNALS F LPRM (0 PANACEA OTHER SENSORS (SUB RODS NONE	FAILED) REJECTED) 0 TOTAL)
41 D C B A	26.2 35.9 46.8 64.8	29.7 39.5 48.9 55.0	31.9 42.4 53.2 53.7	34.2 40.5 52.8 52.7	30.2 40.2 53.2 60.6	28.8 38.7 50.5 63.4	22.5 30.2 36.6 39.4		
33 D C B A	28.1 40.2 50.7 69.7	32.0 42.8 53.7 56.9	35.9 41.1 50.4 50.7	34.5 42.5 50.3 58.9	35.5 41.8 53.4 53.7	31.4M 43.3 55.0 43.4	25.3 36.3 43.2 41.0	T = TTP RUN RECOM C = MFLCPR LOCATIO M = MAPRAT LOCATIO D = MFLPD LOCATIO P = PCRAT LOCATIO * - MILLIPLE LIMIT	MENDED ON ON N N
25 D C B A	28.4 39.1 51.1 66.0	31.7 43.0 53.1 51.2	34.7 44.6 56.7 56.4	35.4 40.9 52.0 50.8	31.3 41.5 52.9 57.7	28.9 38.8 51.1 51.2	25.6 32.6 39.5 44.1		
17 D C B A	22.1 31.2 40.1 51.7	30.7 41.7 53.4 61.6	31.8C 43.7 54.3 49.6	32.9 44.0 54.6 54.8	29.4 38.4 49.4 58.5	26.9 39.3 49.8 61.5	19.4 23.7 26.0 24.6		
09 D C B A		23.6 39.3 42.4 51.6	28.9 39.6 50.6 64.7	29.5 41.6 51.4 66.3	26.8 38.6 47.6 63.0	21.1 25.5 28.8 28.0			
	08	16	24	32	40	48	56		
CORE CORE LOAD	CORE S POWER FLOW LINE	UMMARY 100 % 92.3 % 104.9 %		CALC S OPER FLOW	SUB FLOW SUB FLOW BASIS	94.1 92.3 MEA	% % \S	DP MEAS PSI DP CALC PSI FEEDWTR FLOW MLB/HR	13.681 18.836 14.81
					APRM CAL	IBRATIO	N		
		READ AGAF APRM	ING - %CTP	1 99.9 1.001 9 -0.1	2 99.9 1.001 -0.1	3 99.8 1.002 -0.2	4 99.9 1.001 -0.1		
		TIP R	UNS RE	ECOMMI	ENDED				

STRINGS : NONE

r												1
Job Positi	ion						No.				R	evision
SRO					JP-OP-802-4101-195			0				
JPM Title						Duration		Pag	je			
Perform Plant-Wide Announcement for Probable							5 minute	s*			1	
Aircraft Threat												
								:	*2 tim	nes D	uratio	n for ILO Exams
Examinee:								_SRO				
Evaluator:												
Validating I	Repre	sentat	ives Name: <u>Phil</u>	Heuker								
JPM Type:			Normal / /	Alternate Pa	ath /	Time (Critical	Start Time				
Evaluation Method: Perform / Walkthrough / Discuss				s	Stop Time							
Location:	Location: Plant / Simulator / Classroom					Total Time:						
			DF	REORMANO		/		RV				
Element	9	11	Comment	Element			Comment	Elomo	nt	9	11	Comment
	0	0	Comment	Liement		0	Comment	LICITIC	/11	0	0	Comment
* 2								-				
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* 7.												
* 8.								_				

OPERATOR FUNDAMENTALS OBSERVATION

Monitor operator fundamentals during the JPM set. Rate each area based on the criteria by placing a checkmark in the appropriate column. Indicate the comment number associated with the observation.

Operator Fundamental	Meets all Expectations	Opportunity for Improvement	Does not meet Expectations	Comment Number
Monitoring				
Control				
Conservatism				
Teamwork				
Knowledge				

OVERALL EVALUATOR COMMENTS:

REMEDIAL CONTENT:

___ PASS _____ FAIL

Evaluator Signature / Date:

JPM Title
Perform Plant-Wide Announcement for Probable Aircraft
Threat

Fundamental	Meets all Expectations	Opportunity for Improvement	Does not meet Expectations
Monitoring	Equipment status monitored at proper frequency, using multiple means if available. Understood which indications were critical.	Some monitoring was performed but undue focus on task or lack of system knowledge prevented ideal monitoring.	Did not recognize key equipment status indicators, too much focus on single indications and ignored total system status.
Control	Task preview used to prepare for job. Aware of control bands and maintained them. Configuration control maintained.	Adequate control of system maintained throughout task but some improvements could be made such as better manual control or greater depth of knowledge for anticipating system response.	No anticipation of results of actions. Unaware or control bands or not able to maintain them. Lack of knowledge of how to control system parameters.
Conservatism	Low threshold for identification of problems. Questioning attitude. Uses "stop when unsure" if needed. Sensitive to nuclear safety.	Some opportunities existed to question before proceeding, High focus on task completion without consideration for other system affects.	Proceeds even when unsure with unanswered questions. High threshold for problem conditions.
Teamwork	Routinely communicates system status changes to the team. Communicates actions before taking them.	Communicated most status and actions. Some improvement would be warranted.	Routinely takes action without informing the team.
Knowledge	Able to anticipate system response based on solid system knowledge. Good working knowledge of generic fundamentals to predict and monitor system response.	Plant, system, or generic fundamental knowledge has some gaps.	Unable to predict system response, unsure of generic fundamentals concepts related to plant operation. Only relied on procedure for operating knowledge.

JPM Observation Criteria

JPM Title
Perform Plant-Wide Announcement for Probable Aircraft
Threat

JPM Information

System:

N/A

Task:

75046 - Determine required actions for a security event using the protective actions flowchart for security events.

References: Required (R) / Available (A)

EP-530, Assembly, Accountability and Onsite Protective Actions (A)

Tools and Equipment Required:

None

Initial Conditions:

- You are an extra SRO On Shift.
- The Shift Manager is not available.
- The Reactor is operating at 100% Power.
- A validated notification of an aircraft attack has been received from the NRC.
- The aircraft is approximately 20 minutes from the site.
- The CRS is executing the Airborne Threat AOP.

Initiating Cue(s):

The CRS directs you to implement Onsite protective measures from EP-530, Enclosure B.

Terminating Cue(s):

Announcement of Probable Aircraft Threat has been made.

Task Standard:

Announcement of Probable Aircraft Threat has been made per EP-530.

JPM Title
Perform Plant-Wide Announcement for Probable Aircraft
Threat

Licensed Operator Exam Information (required for NRC exams)

Safety Function/Category:

11 – Abnormal Plant Evolutions

K/A Reference: (from NUREG 1123)

K/A SYSTEM: GENERIC

K/A STATEMENT: 2.1 Conduct of Operations

2.1.14 Knowledge of criteria or conditions that require plant-wide announcements, such as pump					
starts, reactor trips, mode changes, etc					
2.1.17 Ability to make accurate, clear, and concise verbal reports					
2.1.20 Ability to interpret and execute procedure steps					

Maintenance Rule Safety Classification:

N/A

Maintenance Rule Risk Significant? (Yes or No)

N/A

JPM Title
Perform Plant-Wide Announcement for Probable Aircraft
Threat

PERFORMANCE EVALUATION

Start Time

	ELEMENT		STANDARD
CUE:	Provide Examinee with CUE Sheet		
1.	Refer to EP-530 Enclosure B, Security Event Onsite Protective Actions Flowchart. Note: EP-530, Section 5.1 Immediate Actions, Step 5.1.2 requires that, if there is a security event, GO TO the Security Event Onsite Protective Actions Flowchart in Enclosure B.	1.	Refers to EP-530 Enclosure B, Security Event Onsite Protective Actions Flowchart.
* 2.	Evaluates decision step to determine if a Hostile Attack is in progress.	* 2.	Determines that a Hostile Attack is NOT in progress.
* 3.	Evaluates decision step to determine if the aircraft threat is imminent.	* 3.	Determines that the aircraft threat is NOT imminent.
* 4.	Evaluates decision step to determine if the aircraft threat is probable.	* 4.	Determines that the aircraft threat IS probable.
* 5.	Evaluates decision step to determine if the time of impact is >5 to <10 minutes.	* 5.	Determines that the time of impact is NOT >5 to <10 minutes.
* 6.	Evaluates decision step to determine if the time of impact is ≥10 to <30 minutes.	* 6.	Determines that the time of impact IS ≥10 to <30 minutes.
* 7.	Sound the Plant Area Alarm.	* 7.	Sounds the Plant Area Alarm.
* 8.	Make the following announcement using	* 8.	Makes the following announcement:
	"Attention all personnel. There is a Probable Aircraft threat with an estimated arrival time of (insert time). On-Shift personnel relocate to the TSC or RHR Complex. All OSC, TSC, and EOF personnel report to the EOF. All other personnel assemble in the NTC auditorium!" Repeat announcement.		"Attention all personnel. There is a Probable Aircraft threat with an estimated arrival time of (current time +20 minutes). On-Shift personnel relocate to the TSC or RHR Complex. All OSC, TSC, and EOF personnel report to the EOF. All other personnel assemble in the NTC auditorium!"
CUE:	Terminate JPM when announcement of F	Probable	e Aircraft Threat has been made

_____ SATISFACTORY

_____ UNSATISFACTORY

Stop Time

* Critical Step

JPM Title
Perform Plant-Wide Announcement for Probable Aircraft
Threat

Evaluator Notes:

ENSURE ALL INDUSTRIAL AND PERSONNEL SAFETY PRACTICES ARE USED AND ENFORCED AT ALL TIMES.

Generic Notes and Cues:

N/A

System Specific Notes and Cues:

N/A

Task Performance and Cues:

The Elements of this JPM are step by step in accordance with the procedure. The Standard is that the procedure is performed as written. The Cues are as listed above for indication or as each step is completed the appropriate information is reported to the examinee.

Critical Steps:

Critical Tasks are identified by asterisk (*) and **bolded** steps on the cover sheet. Verify that the latest revision of the procedure is used and critical tasks are correctly identified.

JPM Title	No.:
Perform Plant-Wide Announcement for Probable Aircraft	
Threat	

FOLLOW-UP DOCUMENTATION QUESTIONS

Reason for follow-up question(s):

Question:	
	Reference:
Response:	
Question:	
Quotion	
	Reference
Response:	

Cue Sheet: (JP-OP-802-4101-193)

Initial Conditions:

- You are an extra SRO On Shift.
- The Shift Manager is not available.
- The Reactor is operating at 100% Power.
- A validated notification of an aircraft attack has been received from the NRC.
- The aircraft is approximately 20 minutes from the site.
- The CRS is executing the Airborne Threat AOP.

Initiating Cue(s):

The CRS directs you to implement Onsite protective measures from EP-530, Enclosure B.

No.		Revision
JP-OP-804-0001-	191	0
Duration	Page	
15 minutes*	_	0
*	2 times Durati	on for ILO Exams
SRO /]	RO / NO	
	No. JP-OP-804-0001- Duration 15 minutes*	No. JP-OP-804-0001-191 Duration Page 15 minutes* *2 times Duration SRO / RO / NO

Validating Representatives Name: Phil Heuker

JPM Type:	Normal / Alternate Path / Time Critical	Start Time
Evaluation Method:	Perform / Walkthrough / Discuss	Stop Time
Location:	Plant / Simulator / Classroom	Total Time:

			PE	RFORMANC	E EV	ALU	ATION SUMMAI	RY			
Element	S	U	Comment	Element	S	U	Comment	Element	S	U	Comment
* 1.											
* 2.											
* 3.											
* 4.											
* 5.											

OPERATOR FUNDAMENTALS OBSERVATION

Monitor operator fundamentals during the JPM set. Rate each area based on the criteria by placing a checkmark in the appropriate column. Indicate the comment number associated with the observation.

Operator Fundamental	Meets all Expectations	Opportunity for Improvement	Does not meet Expectations	Comment Number
Monitoring				
Control				
Conservatism				
Teamwork				
Knowledge				

OVERALL EVALUATOR COMMENTS:

REMEDIAL CONTENT:

PASS _____FAIL

Evaluator Signature / Date:

/

JPM Observation Criteria

Fundamental	Meets all Expectations	Opportunity for Improvement	Does not meet Expectations
Monitoring	Equipment status monitored at proper frequency, using multiple means if available. Understood which indications were critical.	Some monitoring was performed but undue focus on task or lack of system knowledge prevented ideal monitoring.	Did not recognize key equipment status indicators, too much focus on single indications and ignored total system status.
Control	Task preview used to prepare for job. Aware of control bands and maintained them. Configuration control maintained.	Adequate control of system maintained throughout task but some improvements could be made such as better manual control or greater depth of knowledge for anticipating system response.	No anticipation of results of actions. Unaware or control bands or not able to maintain them. Lack of knowledge of how to control system parameters.
Conservatism	Low threshold for identification of problems. Questioning attitude. Uses "stop when unsure" if needed. Sensitive to nuclear safety.	Some opportunities existed to question before proceeding, High focus on task completion without consideration for other system affects.	Proceeds even when unsure with unanswered questions. High threshold for problem conditions.
Teamwork	Routinely communicates system status changes to the team. Communicates actions before taking them.	Communicated most status and actions. Some improvement would be warranted.	Routinely takes action without informing the team.
Knowledge	Able to anticipate system response based on solid system knowledge. Good working knowledge of generic fundamentals to predict and monitor system response.	Plant, system, or generic fundamental knowledge has some gaps.	Unable to predict system response, unsure of generic fundamentals concepts related to plant operation. Only relied on procedure for operating knowledge.

JOB PERFORMANCE MEASURE JPM Information

System:

N/A

Task:

76034 - Implement Technical Specification/Technical Requirements Manual actions

References: Required (R) / Available (A)

Technical Specifications (A), 23.202 HPCI System (A)

Tools and Equipment Required:

None

Initial Conditions:

- You are the on-coming CRS.
- You are preparing to take the shift following your 7-day off.
- While walking down the HPCI System, you observe it to be in the lineup shown on the provided handout.
- Upon review of the unit log, you determine that HPCI has been in the configuration shown for the past 15 hours.
- Your review of the unit log also shows that HPCI Keep Fill was removed from service 13 hours ago.
- No other plant equipment is out of service.

Initiating Cue(s):

Evaluate HPCI OPERABILITY and document below. If HPCI is OPERABLE, mark the table below with N/A.

Terminating Cue(s):

Required actions listed under Tech Spec 3.5.1, Condition E, have been identified, and the LCO documented on the Cue Sheet.

Task Standard:

HPCI declared INOPERABLE and Actions of TS 3.5.1 have been identified.

Licensed Operator Exam Information (required for NRC exams)

Safety Function/Category:

N/A

K/A Reference: (from NUREG 1123)

K/A SYSTEM: GENERIC

K/A STATEMENT: Equipment Control

Maintenance Rule Safety Classification:

N/A

Maintenance Rule Risk Significant? (Yes or No)

N/A

JOB PERFORMANCE MEASURE PERFORMANCE EVALUATION

Start Time _____

	ELEMENT		STANDARD		
CUE:	Provide examinee with Cue Sheet and HPCI mimic graphic.				
	NO	TE:			
	The information leading to the determi SOP, P	nation I recauti	pelow comes from 23.202, HPCI System on 3.19.		
* 1.	Review HPCI system lineup and recognize HPCI suction is aligned to the Torus.	* 1.	Recognizes HPCI suction is aligned to the Torus.		
* 2.	Review initial conditions against 23.202 Precautions and Limitations to determine if HPCI OPERABILITY is impacted.	* 2.	Determines that, with HPCI aligned to the Torus, in Standby, for more than 12 consecutive hours without Keep Fill in operation, HPCI should be declared INOPERABLE.		
* 3.	Review initial conditions to determine which LCO and Condition(s) apply.	* 3.	Determines that, with HPCI declared INOPERABLE, Tech Spec LCO 3.5.1, ECCS-Operating is not MET. Determines that Tech Spec LCO 3.5.1 Condition E applies to HPCI INOPERABLE.		
* 4.	Review LCO 3.5.1, Action E.1 to determine its applicability.	* 4.	Determines that RCIC must be verified to be OPERABLE by administrative means Immediately.		
* 5.	Review LCO 3.5.1, Action E.2 to determine its applicability.	* 5.	Determines that HPCI must be restored to OPERABLE status within 14 days.		
CUE:	End JPM when the required actions liste been identified, and the LCO documente	d unde d on the	r Tech Spec 3.5.1, Condition E, have e Cue Sheet		

_____ SATISFACTORY

_____ UNSATISFACTORY

Stop Time ______ * Critical Step

Evaluator Notes:

ENSURE ALL INDUSTRIAL AND PERSONNEL SAFETY PRACTICES ARE USED AND ENFORCED AT ALL TIMES.

FAILURE TO WEAR ALL PPE REQUIRED FOR TASK PERFORMANCE WILL RESULT IN FAILURE OF THIS JPM.

Generic Notes and Cues:

None

System Specific Notes and Cues:

None

Task Performance and Cues:

The Elements of this JPM are step by step in accordance with the procedure. The Standard is that the procedure is performed as written. The Cues are as listed above for indication or as each step is completed the appropriate information is reported to the examinee. Notify Examinee that time compression may be used for activities performed outside of the Control Room. Notify Examinee if JPM is Time Critical (only if JPM is **NOT** Alternate Path.)

Critical Steps:

Critical Tasks are identified by asterisk (*) and **bolded** steps on the cover sheet. Verify that the latest revision of the procedure is used and critical tasks are correctly identified.

JOB PERFORMANCE MEASURE FOLLOW-UP DOCUMENTATION QUESTIONS

Reason for fo	llow-up question(s):
0	
Question:	
	Defense
	Reference:
Response:	
Question [.]	
Queenen	
	Deference
	Nelelence
Response:	

Simulator Setup

<u>IC#:</u>				
N/A				
Malfunctions:				
Number	Title	Value	Delay	Ramp
N/A				
Remote Functions:				
Number	Title	Value	Delay	Ramp
N/A				
Override Functions:				
Number	Title	Value	Delay	Ramp
N/A				
Special Instructions:				
N/A				

JOB PERFORMANCE MEASURE Handout: (JP-OP-804-0001-191)



Key for Lights in Handout				
Open Light Lit	(CPEN)			
Closed Light Lit				
Open Light Off	E			
Closed Light Off	CLOSE			

JOB PERFORMANCE MEASURE Cue Sheet: (JP-OP-804-0001-191)

Initial Conditions:

- You are the on-coming CRS.
- You are preparing to take the shift following your 7-day off.
- While walking down the HPCI System, you observe it to be in the lineup shown on the provided handout.
- Upon review of the unit log, you determine that HPCI has been in the configuration shown for the past 15 hours.
- Your review of the unit log also shows that HPCI Keep Fill was removed from service 13 hours ago.
- No other plant equipment is out of service.

Initiating Cue(s):

Evaluate HPCI OPERABILITY and document below. If HPCI is OPERABLE, mark the table below with N/A.

TS	CONDITION	REQUIRED ACTION	COMPLETION TIME

Job Position	No.		Revision
SRO	JP-OP-802-4101-194		0
JPM Title	Duration	Page	
Initiate Authorization to Exceed Dose Control	22 minutes		1
Threshold.			

Examinee: ______ SRO

Evaluator: _____

Validating Representatives Name: Phil Heuker

JPM Type:	Normal / Alternate Path / Time Critical	Start Time
Evaluation Method:	Perform / Walkthrough / Discuss	Stop Time
Location:	Plant / Simulator / Classroom	Total Time:

PERFORMANCE EVALUATION SUMMARY											
Element	S	U	Comment	Element	S	U	Comment	Element	S	U	Comment
* 1.											
* 2.											
* 3.											
* 4.											
* 5.											
* 6.											

OPERATOR FUNDAMENTALS OBSERVATION

Monitor operator fundamentals during the JPM set. Rate each area based on the criteria by placing a checkmark in the appropriate column. Indicate the comment number associated with the observation.

Operator Fundamental	Meets all Expectations	Opportunity for Improvement	Does not meet Expectations	Comment Number
Monitoring				
Control				
Conservatism				
Teamwork				
Knowledge				

OVERALL EVALUATOR COMMENTS:

REMEDIAL CONTENT:

FAIL

Evaluator Signature / Date:

/

JPM Title
Initiate Authorization to Exceed Dose Control Threshold

Fundamental	Meets all Expectations	Opportunity for Improvement	Does not meet Expectations
Monitoring	Equipment status monitored at proper frequency, using multiple means if available. Understood which indications were critical.	Some monitoring was performed but undue focus on task or lack of system knowledge prevented ideal monitoring.	Did not recognize key equipment status indicators, too much focus on single indications and ignored total system status.
Control	Task preview used to prepare for job. Aware of control bands and maintained them. Configuration control maintained.	Adequate control of system maintained throughout task but some improvements could be made such as better manual control or greater depth of knowledge for anticipating system response.	No anticipation of results of actions. Unaware or control bands or not able to maintain them. Lack of knowledge of how to control system parameters.
Conservatism	Low threshold for identification of problems. Questioning attitude. Uses "stop when unsure" if needed. Sensitive to nuclear safety.	Some opportunities existed to question before proceeding, High focus on task completion without consideration for other system affects.	Proceeds even when unsure with unanswered questions. High threshold for problem conditions.
Teamwork	Routinely communicates system status changes to the team. Communicates actions before taking them.	Communicated most status and actions. Some improvement would be warranted.	Routinely takes action without informing the team.
Knowledge	Able to anticipate system response based on solid system knowledge. Good working knowledge of generic fundamentals to predict and monitor system response.	Plant, system, or generic fundamental knowledge has some gaps.	Unable to predict system response, unsure of generic fundamentals concepts related to plant operation. Only relied on procedure for operating knowledge.

JPM Observation Criteria

JPM Title	No.: JP-OP-802-4101-194
Initiate Authorization to Exceed Dose Control Threshold.	Revision: 0
	Page 3

JPM Information

System:

N/A

Task:

73443 - SOER 01-1 Rec. 5 - Radiation protection training and retraining for plant personnel should include a review of selected industry events involving large, unplanned exposures and the responsibility of individuals for the prevention of such events.

References: Required (R) / Available (A)

MRP12, Authorization To Exceed Dose Control Thresholds(R)

Tools and Equipment Required:

Form MRP12001

Initial Conditions:

- You are an SRO on shift.
- An LNO on your shift, Ronald L. Price, must enter the N. RWCU Pump Room to perform an inspection of G33-F013A, North RWCU Pump Discharge Isolation Valve.
- Ron's SSN is 123-45-6789.
- Ron will be working between the lead blanket and the pump casing to inspect the valve.
- The estimated time to perform the inspection is 6 minutes.
- It would take longer to install more shielding than for Ron to perform the work.
- Ron's current exposure for the year is 1753 mrem TEDE.
- The situation is NOT an emergency, but there is no alternative to performing the inspection.
- NO other individuals are available to perform the inspection.

Initiating Cue(s):

Refer to the survey map of the North RWCU Pump Room to determine the total projected Accumulated Dose for the LNO and determine if a Fermi 2 administrative dose guideline or federal dose limit will be exceeded.

IF you determine that a dose guideline or federal dose limit will be exceeded, then initiate an authorization to exceed a dose control threshold using Form MRP12001 including any approval signatures that are required.

Terminating Cue(s):

Candidate determines that a dose extension is required, initiates authorization to exceed dose control thresholds and determines appropriate approval authority.

Task Standard:

Determination is made that authorization to exceed Fermi 2 Administrative Guidelines is required per MRP 12, Form MRP12001 is initiated, and appropriate Approving Authority is determined.

JPM Title	
Initiate Authorization to Exceed Dose Control Threshold.	

Licensed Operator Exam Information (required for NRC exams)

Safety Function:

N/A

K/A Reference: (from NUREG 1123)

K/A SYSTEM: Generic

K/A STATEMENT:

2.3.4 Knowledge of radiation exposure limits under normal or emergency conditions.......3.2 / 3.7

Maintenance Rule Safety Classification:

N/A

Maintenance Rule Risk Significant? (Yes or No)

N/A

PERFORMANCE EVALUATION

	ELEMENT		STANDARD
CUE:	Provide candidate with Cue Sheet, surve MRP12, including Form MRP12001	ey map o	of North RWCU Pump Room, and copy of
* 1.	Review survey map and determine dose rate in area of G3300-F013A.	* 1.	Determines dose rate in area of G3300- F013A to be 6,000 mr/hr.
* 2.	Calculate projected dose for the	* 2.	Calculates Projected Dose =
	inspection.		6/60 hr * 6,000 mr/hr = 600 mr
* 3.	Calculate projected accumulated dose for	* 3.	Projected Accumulated Dose =
	the year.		600 mr + 1753 mr = 2353 mr = 2.353 R
* 4.	Determine if a Fermi 2 administrative dose guideline or 80% of the federal dose limit will be exceeded.	* 4.	Determines that the Fermi 2 administrative dose guideline is projected to be exceeded. NOTE: Fermi 2 Admin Guideline = 2
* 5.	Initiate an authorization to exceed dose control thresholds.	* 5. <u>NOTE</u> the and 80% of <u>2354 tr</u>	 Initiates authorization to exceed dose control thresholds (Form MRP12001) as follows: Enters Ronald L. Price and 123-45-6789 in Part 1A. (*Critical) Enter the following in Part 1B: Accumulated dose: 1753 mrem Current guideline/limit: 2000 mrem Requested dose level: *NOTE 1* In Part 1C, briefly describes the reason for the request and why another worker cannot be substituted to perform the task, or job dose reduced. 1: Requested Dose Level must be between ticipated projected dose (2353 mrem) and f the Federal Dose Limit (4000 mrem). 0 4000 mrem. (*Critical).
* 6.	Determine appropriate approving authority signatures required to exceed the Fermi 2 administrative dose guideline.	* 6.	 Determines that the following signatures are required: Individual's Section Head. Radiation Protection Manager. Plant Manager.
CUE:	End JPM when Authorization to Exceed I and Approving Authority is determined.	Dose Co	ntrol Threshold form has been filled out
L	SATISFACTORY		UNSATISFACTORY

JPM Title	
Initiate Authorization to Exceed Dose Control Threshold.	

Evaluator Notes:

The Plant can be in any mode of operation to conduct this JPM.

This JPM may be started at the CRS Desk in the Simulator.

ENSURE ALL INDUSTRIAL AND PERSONNEL SAFETY PRACTICES ARE USED AND ENFORCED AT ALL TIMES.

Generic Notes and Cues:

None

System Specific Notes and Cues:

None

Task Performance and Cues:

The Elements of this JPM are step by step in accordance with the procedure. The Standard is that the procedure is performed as written. The Cues are as listed above for indication or as each step is completed the appropriate information is reported to the examinee.

Critical Steps:

Critical Tasks are identified by asterisk (*) and **bolded** steps on the cover sheet. Verify that the latest revision of the procedure is used and critical tasks are correctly identified.

JP-OP-802-4101-194 JPM KEY

If any data has been entered, handle form as Confidential.

AUTHORIZATION TO EXCEED DOSE CONTROL THRESHOLDS FORM

		PART 1: IDENTIF	ICATION	
A)	Higher Dose Guideline Rec	quested for:		
Na	me: Ronald L. Price (*Cri	itical) SSN	123-45-6789 (*Critic	al)
B)	Dose Summary:	 Fermi 2 Administrative Do 80% of Federal Dose Limit 	se Guideline t	
	TEDE Other Specify:	Accumulated Dose (mrem) 1753 (*Critical)	Current Guideline/Limit (mrem) 2000 (*Critical)	Requested Dose Level (mrem) 2354 to 4000 (*Critical)
C) I	Extension Justification: Extension Valve. Estimated perform the inspection. The No other individuals are av	xtension needed to allow insp dose for the job is 600 mren ere is no alternative to perfor vailable to perform the inspe	pection of G33-F013A, 1 n. It would take longer rming the inspection. ction.	N RWCU Pump Discharge to install shielding than
D)]	ndividual's Acknowledgen	nent: t/sign		_Date:
E) I	rart I Completed By:	Examinees printed name / s t/sign	ignature	Date: Today's Date
	PART 2: PR	OCESSING AND REVIEW	(RADIOLOGICAL H	EALTH)
A)	Form 4 Verified Complete:	Yes No		,
B) (Comments:			
C) 1	Reviewed by Radiological F	Health Supervision:		_Date:
	pi	nnt/sign		

DTC: TPMMRP DSN: MRP12001 Rev. 4 P1/2 File:1703.22 IP:I Issued: <u>11/08/2016</u> DTC: VSRHED DSN: ______ File:1301.02.01 IP: C

JP-OP-802-4101-194 JPM KEY

JP-OP-802-4101-194 JPM KEY

AUTHORIZATION TO EXCEED DOSE CONTROL THRESHOLDS FORM

PART 3: APPROVAL (AP	PROPRIATE APPROVING	AUTHORITY)
A) Approval Signature:		
Individual's Section Head:		
		Date:
	print/sign	
Radiation Protection Manager:		_
		Date:
71	print/sign	
Plant Manager:		Deter
	print/sign	Date:
Vice President Muslear Constation:	print/sign	
Vice Fresident, Ivaciear Generation.		Date:
2 hA	print/sign	Durc.
	pran sign	
Comments/Controls		
PART 4: INPU	T (RADIOLOGICAL HEAL)	(H)
A) Input/Update By:		
		Date:
nvint/sign		Date.
B) Verified By:		
by termed by		Deter
C) Rediction Protection Operations Notificati		Date:
C) Ramation Protection Operations Notifican	юц;	_
		Date:

print/sign

DTC: TPMMRP DSN: MRP12001 Rev. 4 P2/2 File:1703.22

	No · IP-OP-802-4101-194
Initiate Authorization to Exceed Dose Control Threshold.	Revision: 0
	Page 9

FOLLOW-UP DOCUMENTATION QUESTIONS

Reason for follow-up question(s):

Question:	
	Poforonco:
Response:	
Response.	
Question:	
	Defense
	Reference
Posponso:	
Response.	

JPM Title	No.: JP-OP-802-4101-194
Initiate Authorization to Exceed Dose Control Threshold.	Revision: 0
	Page 10

Simulator Setup

IC#:

N/A

Malfunctions:				
Number	Title	Value	Delay	Ramp
None				
Remote Functions:				
Number	Title	Value	Delay	Ramp
None				
Override Functions:				
Number	Title	Value	Delay	Ramp
None				
Special Instructions:				

Cue Sheet: (JP-OP-802-4101-194)

Initial Conditions:

- You are an SRO on shift.
- An LNO on your shift, Ronald L. Price, must enter the N. RWCU Pump Room to perform an inspection of G33-F013A, North RWCU Pump Discharge Isolation Valve.
- Ron's SSN is 123-45-6789.
- Ron will be working between the lead blanket and the pump casing to inspect the valve.
- The estimated time to perform the inspection is 6 minutes.
- It would take longer to install more shielding than for Ron to perform the work.
- Ron's current exposure for the year is 1753 mrem TEDE.
- The situation is NOT an emergency, but there is no alternative to performing the inspection.
- NO other individuals are available to perform the inspection.

Initiating Cue(s):

Refer to the survey map of the North RWCU Pump Room to determine the total projected Accumulated Dose for the LNO and determine if a Fermi 2 administrative dose guideline or federal dose limit will be exceeded.

IF you determine that a dose guideline or federal dose limit will be exceeded, then initiate an authorization to exceed a dose control threshold using Form MRP12001 including any approval signatures that are required.

Fermi 2-Radiation Protection Radiological Survey



Detroit Edison

FOR TIZMINUS USE DNG



Job Position					No.	No.			F	Revision		
SRO JP-OP-173-1002-181							0					
JPM Title	_	_		_	_	_	Durati	on	Pa	ge	_	
Determine	e Imn	nediat	e Notification	Requirem	nents fo	or	22 m	ninutes*				1
Reportabl	e Ev	ents -	SRO Only									
- ·								*	2 time	es Du	ration	for ILO Exams
Examinee:								SRO				
Evaluator:												
Validating Re	eprese	entativ	es Name: <u>Phil I</u>	<u>Heuker</u>								
IPM Type:			Normal / Al	ternate Pa	th / Tin	ne Crit	tical	Start Ti	me			
Evaluation M	ethod	l:	Perform / W	/alkthroug	h / Disc	cuss		Stop Ti	me			
Location:			Plant / Simu	lator / Cla	assroon	n		Total Ti	ime:			
·												
		r	PE				ATION SUN					
Element	S	U	Comment	Element	t S	U	Comme	nt Eleme	ent	S	U	Comment
1.		$ \vdash $										
2.		$ \vdash $										
3.												
4.												
5.												
* 6.	-											
* 7.		$ \vdash $										
8.												
				<u> </u>								<u> </u>
			OPE	RATOR FL	JNDAM	ENTA		RVATION				
Monitor ope the approp	erator riate c	funda column	mentals during . Indicate the co	the JPM s omment nu	et. Rate umber a	e each issoci	area base ated with th	d on the crite le observatio	eria by n.	/ plac	ing a	checkmark in
Operator FundamentalMeets all ExpectationsOpportunity for ImprovementDoes not meet ExpectationsCor Nu		Comment Number										
Monitoring	3											
Control												

OVERALL EVALUATOR COMMENTS:

REMEDIAL CONTENT:

PASS FAIL

Evaluator Signature / Date:

/

JPM Title
Determine Immediate Notification Requirements for
Reportable Events - SRO Only

Fundamental	Meets all Expectations	Opportunity for Improvement	Does not meet Expectations	
Monitoring	Equipment status monitored at proper frequency, using multiple means if available. Understood which indications were critical.	Some monitoring was performed but undue focus on task or lack of system knowledge prevented ideal monitoring.	Did not recognize key equipment status indicators, too much focus on single indications and ignored total system status.	
Control	Task preview used to prepare for job. Aware of control bands and maintained them. Configuration control maintained.	Adequate control of system maintained throughout task but some improvements could be made such as better manual control or greater depth of knowledge for anticipating system response.	No anticipation of results of actions. Unaware or control bands or not able to maintain them. Lack of knowledge of how to control system parameters.	
Conservatism	Low threshold for identification of problems. Questioning attitude. Uses "stop when unsure" if needed. Sensitive to nuclear safety.	Some opportunities existed to question before proceeding, High focus on task completion without consideration for other system affects.	Proceeds even when unsure with unanswered questions. High threshold for problem conditions.	
Teamwork	Routinely communicates system status changes to the team. Communicates actions before taking them.	Communicated most status and actions. Some improvement would be warranted.	Routinely takes action without informing the team.	
Knowledge	Able to anticipate system response based on solid system knowledge. Good working knowledge of generic fundamentals to predict and monitor system response.	Plant, system, or generic fundamental knowledge has some gaps.	Unable to predict system response, unsure of generic fundamentals concepts related to plant operation. Only relied on procedure for operating knowledge.	

JPM Observation Criteria

JPM Title
Determine Immediate Notification Requirements for
Reportable Events - SRO Only

JPM Information

System:

N/A

Task:

01A0001004 - Determine immediate notification requirements for reportable events.

References: Required (R) / Available (A)

MLS05 (R), Grrr List (A), MLS05004 (R), Laminated table of Immediate Notification Requirements from the Grrr List (R).

Tools and Equipment Required:

N/A

Initial Conditions:

You are an extra SRO on shift.

The plant was operating at 100% power when a plant transient and the following conditions occurred:

- Both RFPs tripped.
- The mode switch was placed in S/D by the operators due to lowering level prior to an automatic scram.
- The lowest RPV level recorded was 95".
- HPCI automatically injected for 45 seconds and was secured prior to reaching Level 8.
- RCIC automatically started and injected.
- RPV level is currently being maintained in the normal band using RCIC.

The event occurred 1 hour ago and plant conditions are stable.

Initiating Cue(s):

The Shit Manager has directed you to evaluate the event in accordance with MLS05 and determine if any Immediate Notifications are required.

Document your results on form MLS05004 and provide to the Shift Manager for review.

Terminating Cue(s):

MLS05004 is filled out and provided to the Shift Manager for review.

Task Standard:

Determine immediate notification requirements for reportable events.

JPM Title
Determine Immediate Notification Requirements for
Reportable Events - SRO Only

Licensed Operator Exam Information (required for NRC exams)

Safety Function/Category:

11 - Abnormal Plant Evolutions

K/A Reference: (from NUREG 1123)

K/A SYSTEM: 2.4 – Emergency Procedures / Plans

K/A STATEMENT:

Maintenance Rule Safety Classification:

N/A

Maintenance Rule Risk Significant? (Yes or No)

N/A

JPM Title Determine Immediate Notification Requirements for Reportable Events - SRO Only

PERFORMANCE EVALUATION

ELEMENT			STANDARD			
CUE:	Provide examinee with Cue Sheet.					
1.	Locate and obtain a copy of MLS05, Notifications/General Regulatory Reporting Requirements.	1.	Obtains a copy of MLS05, Notifications/General Regulatory Reporting Requirements.			
2.	Review plant conditions from Cue Sheet.	2.	Reviews events from Cue Sheet.			
3.	Compare conditions to the requirements of MLS05 and the GRRR List.	3.	Refers to MLS05 Section 4.1 and the GRRR List.			
4.	Obtain a copy of form MLS05004.	4.	Obtains a copy of Form MLS05004.			
CUE:	When examinee locates MLS05004, prov	ide exa	minee with pink copy.			
5.	Evaluate for 1-hour, Non-Emergency reporting requirements in accordance with 10CFR50.72(b)(1).	5.	Determines that a 1-hour report is NOT required.			
* 6.	Evaluate for 4-hour reporting requirements in accordance with 10CFR50.72(b)(2).	* 6.	Determines that a 4-hour report is required per BOTH 10CFR50.72 paragraphs below:			
			 50.72(b)(2)(iv)(A) due to the ECCS (HPCI) discharge to the RCS. 			
			And			
			• 50.72(b)(2)(iv)(B) due to the RPS Actuation (scram).			
* 7.	Evaluate for 8-hour reporting requirements in accordance with 10CFR50.72(b)(3).	* 7.	Determines that an 8-hour report is required per 10CFR50.72(b)(3)(iv)(A) due to a Specified System Actuation (HPCI, RCIC).			
8.	Complete Form MLS05004 for the event and provide to Shift Manager for review.	8.	Completes Form MLS05004 and provides to Shift Manager for review.			
NOTE:	A sample copy of MLS05004 is provided	with th	is JPM for use by the evaluator.			
CUE:	End JPM when form MLS05004 is hande	d to the	Shift Manager for review.			

_____ SATISFACTORY

_____ UNSATISFACTORY

Stop Time

* Critical Step

JPM Title
Determine Immediate Notification Requirements fo
Reportable Events - SRO Only

Evaluator Notes:

ENSURE ALL INDUSTRIAL AND PERSONNEL SAFETY PRACTICES ARE USED AND ENFORCED AT ALL TIMES.

FAILURE TO WEAR ALL PPE REQUIRED FOR TASK PERFORMANCE WILL RESULT IN FAILURE OF THIS JPM.

Generic Notes and Cues:

None

System Specific Notes and Cues:

None

Task Performance and Cues:

The Elements of this JPM are step by step in accordance with the procedure. The Standard is that the procedure is performed as written. The Cues are as listed above for indication or as each step is completed the appropriate information is reported to the examinee. Notify Examinee that time compression may be used for activities performed outside of the Control Room. Notify Examinee if JPM is Time Critical (only if JPM is **NOT** Alternate Path.)

Critical Steps:

Critical Tasks are identified by asterisk (*) and **bolded** steps on the cover sheet. Verify that the latest revision of the procedure is used and critical tasks are correctly identified.

JPM Title	No.: JP-OP-173-1002-181
Determine Immediate Notification Requirements for	Revision: 0
Reportable Events - SRO Only	Page 3

FOLLOW-UP DOCUMENTATION QUESTIONS

Reason for follow-up question(s):

Question:	
	Reference:
Response:	
Question:	
	Reference
Response:	

Cue Sheet: (JP-ER-173-1002-181)

Initial Conditions:

You are an extra SRO on shift.

The plant was operating at 100% power when a plant transient and the following conditions occurred:

- Both RFPs tripped.
- The mode switch was placed in S/D by the operators due to lowering level prior to an automatic scram.
- The lowest RPV level recorded was 95".
- HPCI automatically injected for 45 seconds and was secured prior to reaching Level 8.
- RCIC automatically started and injected.
- RPV level is currently being maintained in the normal band using RCIC.

The event occurred 1 hour ago and plant conditions are stable.

Initiating Cue(s):

The Shit Manager has directed you to evaluate the event in accordance with MLS05 and determine if any Immediate Notifications are required. Document your results on form MLS05004 and provide to the Shift Manager for review.

KEY: Critical Task Elements are denoted with *

FERMI 2 EVENT NOTIFICATION WORKSHEET

				Message No.:	
Notification Time:	Facility: <u>FERMI</u>	2 Name of Caller:		Call Back No.:	
Event Time & Zone:	Ev	ent Date: Power/Mode	Before:	Power/Mode After:	
Event Classifica	itions	1-Hr. Non-Emergency 10CFR50.	72(b)(1)	(v)(A) Safe S/D Capability	AINA
General Emergency	GEN/AAEC	TS Deviation	ADEV	(v)(B) RHR Capability	AINB
Site Area Emergency	SIT/AAEC	4 Hr. Non-Emergency 10CFR50.	72(b)(2)	(v)(C) Control of Rad Release	AINC
Alert	ALE/AAEC	(i) TS Required S/D	ASHU	(v)(D) Accident Mitigation	AIND
Unusual Event	UNU/AAEC	* (iv)(A) EECS Discharge to RCS	ACCS	(xii) Offsite Medical	AMED
* 50.72 Non-Emergency	(see next columns)	* (iv)(B) RPS Actuation (scram)	ARPS	(xiii) Loss Comm/Asmt/Resp	ACOM
Physical Security (73.71)	DDDD	(xi) Offsite Notification	APRE	60-Day Optional 10CFR50.	73(a)(1)
Material/Exposure	B????	8 Hr. Non-Emergency 10CFR50.	72(b)(3)	Invalid Specified Sys Actuation	AINV
Fitness for Duty	HFIT	(ii)(A) Degraded Condition	ADEG	Other Unspecified Req. (Id	lentify)
Other Unspecified Req.	(see last column)	(ii)(B) Unanalyzed Condition	AUNA		NONR
Information Only	NNF	* (iv)(A) Specified System Actuation	AESF		NONR

Event Description

Include: Systems affected, actuations and their initiating signals, causes, effect of event on plant, actions taken or planned, etc. (Cont. on p. 2)

Anything Unusual or N	Not Understood? Yes (Explain above) No D	Did all Systems Function as Requ	ired? Yes No (Explain above)
Mode of Operation Un	til Corrected: Estimated Restart Date:	Additional Info	ormation on Back? [] Yes [] No
Approved: (Shift Mar	nager Initials/Director – Operations Signature)		
Notifications			
NRC Resident	Yes No Will Be	Nuclear Information	☐ Yes ☐ No ☐ Will Be
State(s)	Yes No Will Be	Licensing	🗌 Yes 🗌 No 📄 Will Be
Local	🗌 Yes 🗌 No 🗌 Will Be	Director - Operations	🗌 Yes 🗌 No 📄 Will Be
Other Gov Agencies	Yes No Will Be	Plant Manager	☐ Yes ☐ No ☐ Will Be
Media/Press Release	Yes No Will Be	Other	☐ Yes ☐ No ☐ Will Be
DTC: TPMMLS DSI	N: MLS05004 Rev. 8A P1/2 File: 1703	3.22 Issued: <u>07/20/2017</u>	

IP: I

File: 0932

DTC: TRNRCE DSN: _____

FERMI 2 EVENT NOTIFICATION WORKSHEET

Additional Information

Radiological Releases: Check or Fill in Applicable Items (specific details/explanations should be covered in event description)									
								_	
Liquid Release	Gaseous Release	ו 🗌	Unplanned Release	Planned Rel	ease	Ongoing	🗌 Termin	nated	
Monitored	Unmonitored		Offsite Release ODCM Exceede		eeded	RM Alarn	ns Areas	Areas Evacuated	
Personnel Exposed or Contaminated Offsite Protective Action			tions Recommen	ded	*State rele	ease path in descri	ption		
	Release Rate (Ci/se	ec)	% ODCM Limit	HOO Guide	Total	Activity (Ci)	% T.S. Limit	HOO Guide	
Noble Gas									
Iodine									
Particulate									
Liquid (excluding tritium and dissolved									

	Plant Stack	Condenser/ Air Ejector	Main Steam Line	Other
Rad Monitor Readings				
Alarm Setpoints				
%ODCM Limit (if applicable)				

RCS Leaks: Check or Fill in Applicable Items: (specific details/explanations should be covered in event description)

Location of the Leak (e.g. valve, pipe, etc.):

 Leak Rate:
 Units (gpm/gpd):
 T.S. Limits:
 Sudden or Long-Term Development:

 Leak Start Date: _____ Leak Start Time: _____

Liquid (tritium) **Total Activity**

Coolant Activity and Units: Primary: _____ Secondary: _____

List of Safety Related Equipment not Operational:

Event Description (Continued from Page 1)