Appendix C	Job Performance Workshee		Form ES-C-1 (R8, S1)
Facility: Kewaunee	٦	ask No: Pro	cedure N-CRD-49D
Task Title: ECP Manual Calci	ulation	ob Performar	nce Measure No: <u>A.1(RO)</u>
K/A Reference: <u>Generic 2.1.2</u>	25 (2.8 / 3.1)		
Examinee:	N	NRC Examine	r:
Facility Evaluator:		Date:	
Method of testing: Simulated Performance	Actual P	erformance_	<u> </u>
Classroom	Simulator	X	Plant
READ TO THE EXAMINEE			
I will explain the initial condition cues. When you complete the measure will be satisfied.	•		• •

Initial Conditions:

You are the RO assigned to day shift.

The reactor automatically tripped at 8 am yesterday and is expected to be critical at 2 pm today. Prior to the trip, the reactor was at steady-state 100% power for 3 weeks. Core burnup is 6500 MWD/MTU and boron concentration is currently 1400 ppm. Desired CBD position is 90 steps and Tavg is expected to be 548°F for **Startup No. 111**. The computer is not available and an updated reactivity plan is being developed.

<u>Task Standard</u>: The ECP is completed with the critical boron concentration determined to be 1288 ppm \pm 14. Maximum and minimum CBD rod position are determined to be 160 steps (+1, -0) and 37 steps (+1, -0). Graph values are to be read to within one half of one division.

<u>Required Materials</u>: N-CRD-49D, Calculating Estimated Critical Position for Reactor Startup, Reactor Data (RD) curves referenced below, and a calculator.

<u>General References</u>: N-CRD-49D, Rev. D and appropriate RD curves, including 5.1.1.1, 5.1.1.2, 6.2, 8.3, 9.2, 9.1.2, 10.1, 10.2, and 13.2.

<u>Initiating Cue</u>: The CRS has directed you to perform an independent <u>manual</u> ECP for a "Critical Boron - Fixed Rod Height" per step 4.2 of N-CRD-49D.

Time Critical Task: NO

Validation Time: 40 minutes

Facility: Kewaunee

Job Performance Measure No: A.1(RO)

Initial Conditions: You are the RO assigned to day shift.

The reactor automatically tripped at 8 am yesterday and is expected to be critical at 2 pm today.

Prior to the trip, the reactor was at steady-state 100% power for 3 weeks.

Core burnup is 6500 MWD/MTU and boron concentration is currently 1400 ppm.

Desired CBD position is 90 steps and Tavg is expected to be 548°F for Startup No. 111.

The computer is <u>not</u> available and an updated reactivity plan is being developed.

Initiating Cue: The CRS has directed you to perform an independent <u>manual</u> ECP for a "Critical Boron - Fixed Rod Height" per step 4.2 of N-CRD-49D.

Appendix C		3		Form ES-C-1 (R8, S1)
		PERFORMANCE INF	ORMATION	
(Denote critic	al steps with a	"*")	Starting Time	:
<u>1</u> Perfor	mance step:	Heading of ECP data s	heet is filled out.	
Standard:	ALL blocks fil	led out with given inform	ation (see grading d	ata sheet).
Comment:				
2 Perfo	rmance step:	Determine excess core	reactivity based on	core burnup.
Standard:	Excess core	reactivity determined to b	e 12290 pcm <u>+</u> 50 u	sing RD 13.2.
Comment:				
<u>3</u> Perfo	rmance step:	Calculate xenon worth.		
Standard:	RD 9.1.2 is u	ed to determine full powe sed to determine % full p are multiplied together to	ower equilibrium Xe	(0.69 <u>+</u> 0.005)
Comment:	THESE VALUES	are multiplied together t		

Appendix C		4	Form ES-C-1 (R8, S1)
		PERFORMANCE INFORMATIC	ON
(Denote critic	cal steps with a	a "*")	
<u>4</u> Perfor	mance step:	Determine Samarium worth.	
Standard:	Samarium v	worth is determined using RD 10.1 c	or RD 10.2 (-945 pcm <u>+</u> 2.5)
Comment:		ne should be used and RD 10.1 m marium worth value due to small	
<u>5</u> Perfo	rmance step:	Determine temperature defect.	
Standard:	Isothermal	e defect is determined to be 1°F (54 Temperature Coefficient is 0 per N-(s are multiplied together to obtain te	CRD-49D note.
Comment:			
<u>6</u> Perfo	rmance step:	Calculate total defect.	
Standard:	Total defect	is the sum of all calculated reactivit	ies (9570 pcm <u>+</u> 67.5).
Comment:			

Appendix C	5	Form ES-C-1 (R
	PERFORMANCE INFORMATION	
(Denote critic	cal steps with a "*")	
Perfe	ormance step: Determine rod worth with CBD at 90	0 steps.
Standard:	RD 5.1.1.1 or RD 5.1.1.2 is used to determine rod	worth (-576 pcm <u>+</u> 0)
Comment:		
8	Performance step: Determine net reactivity.	
Standard:	Rod worth is added to obtain net reactivity (9570 - 576 = 8994 pcm \pm 67.5).	
Comment:		
<u>9</u> Perfc	ormance step: Determine critical reactivity.	
Standard:	Rod worth is multiplied by -1 to obtain critical react (8994 X -1 = -8994 pcm \pm 67.5).	tivity
Comment:		

Appendix C		6	Forr	n ES-C-1 (R8, S1)
		PERFORMANCE INFO	RMATION	
(Denote critic	al steps with a	"*")		
<u>10</u> Perfo	ormance step:	Determine differential bo	ron worth.	
Standard:	Differential b (-6.98 pcm/p	oron worth is determined us pm <u>+</u> 0.025)	sing RD 6.2 for MOL at	1400 ppm
Comment:				
<u>11*</u> Perfor	rmance step:	Determine critical boron of	concentration.	
Standard:		n concentration is determine oron worth (-8994 / -6.98 =	• •	activity by the
Comment:	The critical b required.	oron concentration value of	f 1288 ppm indicates th	at a dilution is
12* Perfor	rmance step:	Determine maximum CB	D position.	
Standard:		dded to the CBD worth (-57 0 5.1.1.2, maximum CBD p		
Comment:				

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Form ES-C-1 (R8, S1)

PERFORMANCE INFORMATION

(Denote critical steps with a "*")

13* Performance step: Determine minimum CBD position.

Standard: 400 pcm is subtracted from the CBD worth (-576 - 400 = -976 pcm). Using RD 5.1.1.1 or RD 5.1.1.2, minimum CBD position is (**37 steps +1, -0**)

Comment:

Terminating cue:

THIS COMPLETES THE JPM.

Completion Time:

Appendix C	8	Form ES-C-1 (R8, S1)
VE	RIFICATION OF COMPLETION	
Job Performance Measure No	A.1(RO)	
Examinee's Name:		
Examiner's Name:		
Date performed:		
Facility Evaluator:		
Number of attempts:	·	
Time to complete:		
Question Documentation:		
Question:		
Response:		
Result: SAT or UNSAT		

Examiner's signature and date:

Appendix C	Job Performance Measure	Form ES-C-2 (R8, S1)
· ·	Quality Checklist	

Every JPM should:

- 1. $\sqrt{1}$ be supported by facility licensee's job task analysis.
- 2. _____ be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).
- 3. $\sqrt{1}$ be designed as either SRO only, **RO**/SRO or AO/RO/SRO.
- 4. include the following, as applicable:
 - a. $\underline{}$ initial conditions
 - b. $\underline{\sqrt{}}$ initiating cues
 - c. $\underline{\checkmark}$ references and tools, including associated procedures
 - d. \checkmark validated time limits (average time allowed for completion) and specific designation of those JPMs that are deemed to be time-critical by the facility operations department
 - e. $\underline{\checkmark}$ specific performance criteria that include:
 - (1) _____ expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step
 - (2) $\sqrt{}$ system response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked
 - (3) \checkmark statements describing important observations that should be made by the examinee
 - (4) $\underline{\sqrt{}}$ criteria for successful completion of the task
 - (5) $\underline{\sqrt{}}$ identification of those steps that are considered critical
 - (6) <u>N/A</u> restrictions on the sequence of steps

Appendix C	Job Performance Measure Worksheet	Form ES-C-1 (R8, S1)
Facility: <u>Kewaunee</u>	Task No: Procee	dure N-CRD-49D
Task Title: ECP Manual Calculat	ion Job Performance	Measure No: <u>A.1(SRO)</u>
K/A Reference: <u>Generic 2.1.25 (</u>	<u>2.8 / 3.1)</u>	
Examinee:	NRC Examiner:	
Facility Evaluator:	Date:	
Method of testing: Simulated Performance	Actual Performance	<u>x</u>
Classroom <u>X</u>	Simulator <u>X</u>	Plant
READ TO THE EXAMINEE		

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Initial Conditions:

You are the SRO assigned to day shift.

The reactor automatically tripped at 8 am yesterday and is expected to be critical at 2 pm today. Prior to the trip, the reactor was at steady-state 100% power for 3 weeks.

Core burnup is 6500 MWD/MTU and boron concentration is currently 1400 ppm. Desired CBD position is 90 steps and Tavg is expected to be 548°F for **Startup No. 111**. The computer is not available and an updated reactivity plan is being developed.

<u>Task Standard</u>: The ECP is completed with the critical boron concentration determined to be 1288 ppm \pm 14. Maximum and minimum CBD rod position are determined to be 160 steps (+1, -0) and 37 steps (+1, -0). Graph values are to be read to within one half of one division.

<u>Required Materials</u>: N-CRD-49D, Calculating Estimated Critical Position for Reactor Startup, Reactor Data (RD) curves referenced below, and a calculator.

<u>General References</u>: N-CRD-49D, Rev. D and appropriate RD curves, including 5.1.1.1, 5.1.1.2, 6.2, 8.3, 9.2, 9.1.2, 10.1, 10.2, and 13.2.

<u>Initiating Cue</u>: The Shift Manager has directed you to REVIEW and CORRECT as necessary a <u>manual</u> ECP for a "Critical Boron - Fixed Rod Height" per step 4.2 of N-CRD-49D.

Time Critical Task: NO

Validation Time: 40 minutes

Facility: Kewaunee

Job Performance Measure No: A.1(SRO)

Initial Conditions:

You are the SRO assigned to day shift.

The reactor automatically tripped at 8 am yesterday and is expected to be critical at 2 pm today.

Prior to the trip, the reactor was at steady-state 100% power for 3 weeks.

Core burnup is 6500 MWD/MTU and boron concentration is currently 1400 ppm.

Desired CBD position is 90 steps and Tavg is expected to be 548°F for Startup No. 111.

The computer is <u>not</u> available and an updated reactivity plan is being developed.

<u>Initiating Cue</u>: The Shift Manager has directed you to REVIEW and CORRECT as necessary a <u>manual</u> ECP for a "Critical Boron - Fixed Rod Height" per step 4.2 of N-CRD-49D.

Appendix C	Dendix C 3 Form ES-C-1			
		PERFORMANCE INFO	RMATION	
(Denote critic	al steps with a	"★")	Starting Time:	
<u>1</u> Perfor	mance step:	Heading of ECP data she	eet is verified to be filled out.	
Standard:	ALL blocks fil	led out with given informati	ion (see grading data sheet).	
Comment:				
2 Perfor	mance step:	Determine excess core re	eactivity based on core burnup.	
Standard:	Excess core	reactivity verified to be 122	90 pcm <u>+</u> 50 using RD 13.2.	
Comment:	Given 12200	pcm - NEEDS CORRECTI	ION	
<u>3</u> Perfor	mance step:	Calculate xenon worth.		
Standard:	RD 9.1.2 is u	sed to determine % full pow	equilibrium Xe (-2573 pcm <u>+</u> 2.5) wer equilibrium Xe (0.69 <u>+</u> 0.005) obtain Xe worth (-1775 pcm <u>+</u> 15)	
Comment:	Given % full p	ver equilibrium Xe (-2581 p power equilibrium Xe (0.7) th (-1806 pcm) - NEEDS C		

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Π	μei		\mathbf{C}

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Form ES-C-1 (R8, S1)

PERFORMANCE INFORMATION

(Denote critical steps with a "*")

<u>4</u> Performance step: Determine Samarium worth.

Standard: Samarium worth is determined using **RD 10.1** or RD 10.2 (-945 pcm \pm 2.5)

Comment: The MOL line should be used and RD 10.1 may more easily provide an accurate samarium worth value due to smaller time increments. Given -950 pcm - NEEDS CORRECTION

<u>5</u> Performance step: Determine temperature defect.

Standard: Temperature defect is determined to be $1^{\circ}F$ (548 - 547 = $1^{\circ}F$). Isothermal Temperature Coefficient is **0** per N-CRD-49D note. These values are multiplied together to obtain temperature defect (**0** pcm).

Comment: Given (+1 X -7.8) = -8 pcm - NEEDS CORRECTION

<u>6</u> Performance step: Calculate total defect.

Standard: Total defect is the sum of all calculated reactivities (9570 pcm ± 67.5).

Comment: Given 9436 pcm - NEEDS CORRECTION

Appendix C		5	Form ES-C-1 (R8, S1)
		PERFORMANCE INFORMATI	ON
(Denote critic	cal steps with a	"*")	
Perfo	rmance step:	Determine rod worth with CBD a	at 90 steps.
Standard:	RD 5.1.1.1 o	r RD 5.1.1.2 is used to determine	rod worth (-576 pcm <u>+</u> 0)
Comment:	ОК		
<u>8</u> Perfo	ormance step:	Determine net reactivity.	
Standard:		added to obtain net reactivity = 8994 pcm <u>+</u> 67.5).	
Comment:	Given (9436	- 576 = 8850 pcm) - NEEDS COR	RECTION
9_ Perfo	ormance step:	Determine critical reactivity.	
Standard:		multiplied by -1 to obtain critical re -8994 pcm <u>+</u> 67.5).	eactivity
Comment:	Given (-8850	pcm) - NEEDS CORRECTION	

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Appendix C		6		Form ES-C-1 (R8, S
		PERFORMANCE IN	NFORMATION	
(Denote critic	al steps with a	"*")		
10 Perfo	ormance step:	Determine differentia	l boron worth.	
Standard:	Differential bc (-6.98 pcm/pp	pron worth is determine om <u>+</u> 0.025)	ed using RD 6.2	for MOL at 1400 ppm
Comment:	Given (-6.95 p	ocm/ppm) - NEEDS C0	ORRECTION	
<u>11*</u> Perfo Standard:		Determine critical bor concentration is deter ron worth (-8994 / -6.9	mined by dividing	g critical reactivity by the
Comment:		pm - NEEDS CORREC		_ (-,)
12* Perfo	rmance step:	Determine maximum	CBD position.	
Standard:		Ided to the CBD worth 5.1.1.2, maximum CB		
Comment:		orth (+576 + 400 = 970 OS CORRECTION	6 pcm), Thus "m	aximum" CBD position is 37

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Αр	penc	IX	C

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Form ES-C-1 (R8, S1)

PERFORMANCE INFORMATION

(Denote critical steps with a "*")

13* Performance step: Determine minimum CBD position.

Standard: 400 pcm is subtracted from the CBD worth (-576 - 400 = -976 pcm). Using RD 5.1.1.1 or RD 5.1.1.2, minimum CBD position is (**37 steps +1, -0**)

Comment: Given CBD worth (+576 - 400 = 176 pcm), Thus "minimum" CBD position is **159** steps - NEEDS CORRECTION

Terminating cue: THIS COMPLETES THE JPM.

Completion Time:

Appendix C	8	Form ES-C-1 (R8, S1)
VEF	RIFICATION OF COMPLETION	
Job Performance Measure No	A.1(SRO)	
Examinee's Name:		
Examiner's Name:		
Date performed:		
Facility Evaluator:		
Number of attempts:		
Time to complete:		
Question Documentation:		
Question:		
	· · · · · · · · · · · · · · · · · · ·	
Response:		
Result: SAT or UNSAT		

Examiner's signature and date: _____

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Appendix C	Job Performance Measure	Form ES-C-2 (R8, S1)
	Quality Checklist	

Every JPM should:

- 1. $\underline{\checkmark}$ be supported by facility licensee's job task analysis.
- 2. _____ be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).
- 3. $\sqrt{1}$ be designed as either SRO only, RO/**SRO** or AO/RO/SRO.
- 4. include the following, as applicable:
 - a. $\underline{\checkmark}$ initial conditions
 - b. $\underline{\sqrt{}}$ initiating cues
 - c. $\underline{\checkmark}$ references and tools, including associated procedures
 - d. \checkmark validated time limits (average time allowed for completion) and specific designation of those JPMs that are deemed to be time-critical by the facility operations department
 - e. $\sqrt{}$ specific performance criteria that include:
 - (1) $\sqrt{}$ expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step
 - (2) \checkmark system response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked
 - (3) $\underline{\checkmark}$ statements describing important observations that should be made by the examinee
 - (4) $\sqrt{}$ criteria for successful completion of the task
 - (5) $\sqrt{}$ identification of those steps that are considered critical
 - (6) **N/A** restrictions on the sequence of steps

Appendix C		Job Performand Worksh		Form ES-C-1 (R8, S1
Facility: <u>Kewaunee</u>			Task No: <u>SP-</u>	48-337_
Task Title: <u>Manual (</u>	<u>QPTR</u>	Job Po	erformance Meas	sure No: <u>A.1.b(SRO)</u>
K/A Reference: <u>2.1</u>	.33			
Examinee:		-	NRC Examiner	:
Facility Evaluator:			Date:	
Method of testing:				
Simulated Performan	ICE	Actual	Performance	X
Classroom		Simulator	<u>X</u>	Plant
READ TO THE EXAM	MINEE			
I will explain the initia cues. When you con measure will be satis	nplete the tas			s, and provide initiating his job performance
Initial Conditions:	The Honey A-CP-46 is	Note: Control R		7024-K). Ist be manually set to
Task Standards:	Detector Cu <u>+</u> 0.001, and	irrent values are	re within <u>+</u> 0.002.	rected Currents are within Also, QPTR is reported to 2).
Required Materials:	Quadrant P	ower Tilt Ratio D	etermination, Da	mpleted copy of SP-48-337, ta Sheet 1. • 48-337 not just data sheet .
General References:	SP-48-337,	Quadrant Power	Tilt Ratio Deterr	mination.
-	•			make any necessary ecification actions.
Validation Time:	20 minutes			

Job Performance Measure INITIAL CONDITIONS

Facility: Kewaunee

Job Performance Measure No: A.1.b(SRO)

Initial Conditions: The plant is at 80% power.

The Honeywell computer is NOT available.

Initiating Cue: The SM directs you to REVIEW a manual QPTR, make any necessary corrections, and advise him of any Technical Specification actions.

Appendix C		3	Form ES-C-1 (R8, S1)
		PERFORMANCE INFO	DRMATION
(Denote critic	cal steps with a	"*")	Starting Time:
<u>1</u> Perfor	rmance step:	Refer to procedure SP-4	8-337 and Data Sheet 1.
Standard:	Refer to SP-4	18-337, Abnormal Nuclear	Instrumentation, and Data Sheet 1.
<u>Comment</u> :	Provide a cor JPM.	npleted copy of Data Shee	et 1 as required to review <u>and</u> correct the
_2 Perform	nance step:	Verify individual Detector Drawers.	r Currents from Power Range B
Standard:	Verify individe any correctio		within ± 0.2 of panel values and Record
<u>Comment</u> :		· -	or current values against the Power errors on Data Sheet 1. <u>See attached</u>
3 Perfo	rmance step:	Verify 100% detector cu	rrents on Data Sheet 1.
Standard:	Verify record <u>+</u> 0.2 of placa	-	00% detector current values are within
<u>Comment</u> :			or current values against the placard ata Sheet 1. <u>See attached Answer Key</u>

Appendix C		4	Form ES-C-1 (R8, S1
		PERFORMANCE INFORMAT	ION
(Denote critic	cal steps with a	"*")	
4 Perfor	rmance step:	Verify calculated Corrected Cur	rents.
Standard:		ated Corrected Currents to within 00% current for each detector on I	
<u>Comment</u> :		ould verify the corrected currents <u>a</u> attached Answer Key	AND correct any errors to within
<u>5*</u> Perfo	rmance step:	Verify calculated average Corre lower detectors	cted Currents for upper and
Standard:		ated average Corrected Currents o within <u>+</u> 0.001.	of the 4 upper and four lower
<u>Comment</u> :	to within <u>+</u> 0.0	ould verify the average Corrected 001. NOTE: The average correcter as the middle two numbers trans	ed current for the upper
<u>6*</u> Perfo	rmance step:	Verify calculated QPTR for each	n detector.
Standard:		ated QPTR for each detector by di ng average current to within <u>+</u>0.00	viding the corrected current by the 02 .
<u>Comment</u> :	The result o transposed	ould verify QPTR <u>AND</u> correct any f having the average corrected is that the QPTR for the upper c ctual QPTR is 1.03.	current middle numbers

Appendix C		5	Form ES-C-1 (R8, S1
		PERFORMANCE INFO	ORMATION
(Denote critic	cal steps with a	"**")	
7* Perfo	ormance step:	Review QPTR results pe actions required to the C	er Technical Specifications and specify CRS.
Standard:	1.02 but less	· •	- Quadrant Power Tilt Limits, for a tilt > echnical Specification/Acceptance
<u>Comment</u> :	 Elimir 	ict maximum core power b	the Shift Manager to: s or reduce power to \leq 50%. by 2% for every 1% of indicated power tilt
Terminating	cue: This	JPM is completed.	Completion Time:

Appendix C	6	Form ES-C-1 (R8, S1)
V	ERIFICATION OF COMPLETION	1
Job Performance Measure No	A.1.b(SRO)	
Examinee's Name:		
Examiner's Name:		
Date performed:		
Facility Evaluator:		
Number of attempts:		
Time to complete:		
Question Documentation:		
Response:		
Result: SAT or UNSAT		

Examiner's signature and date:

Appendix C	Job Performance Measure	Form ES-C-2 (R8, S1)
	Quality Checklist	

Every JPM should:

- 1. $\underline{\checkmark}$ be supported by facility licensee's job task analysis.
- 2. √ be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).
- 3. $\sqrt{1}$ be designed as either SRO only, RO/**SRO** or AO/RO/SRO.
- 4. include the following, as applicable:
 - a. $_ \sqrt{}$ initial conditions
 - b. $\underline{\checkmark}$ initiating cues
 - c. $\underline{-}$ references and tools, including associated procedures
 - d. ____ validated time limits (average time allowed for completion) and specific designation of those JPMs that are deemed to be time-critical by the facility operations department
 - e. $\underline{\checkmark}$ specific performance criteria that include:
 - (1) ____ expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step
 - (2) \checkmark system response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked
 - (3) $\sqrt{}$ statements describing important observations that should be made by the examinee
 - (4) $\underline{\sqrt{}}$ criteria for successful completion of the task
 - (5) $\underline{\sqrt{}}$ identification of those steps that are considered critical
 - (6) <u>N/A</u> restrictions on the sequence of steps

FOR SIMULATOR USE ONLY

Simulator Setup:

Reset simulator to 80% power, BOC, CBD @ 190steps.

Place simulator in RUN

Place CBD Rods G-3, C-7 and G-11 Disconnect Switches in the "**DISCONNECTED**" position (Key 1).

Place the Control Bank Selector switch to the "CBD" position.

Drive Rod (K-7) in 5 steps to 190 steps on CBD Group 1 Step Counter.

Place the Control Bank Selector switch to the "AUTO" position.

Restore CBD Rods G-3, C-7 and G-11 Disconnect Switches in the "CONNECTED" position.

Place simulator in FREEZE

Appendix C Job Pe Worksheet	erformance Measure F	Form E	S-C-1 (R8, S1)	
Facility: <u>Kewaunee</u>			Task No: <u>SP-</u>	48-337_
Task Title: <u>Manual C</u>	<u>PTR</u>		Job Performan	ce Measure No: <u>A.1.b(RO)</u>
K/A Reference: <u>2.1</u>	.33			
Examinee:			NRC Examiner	:
Facility Evaluator:			Date:	
Method of testing:				
Simulated Performan	ce A	Actual F	Performance	<u> </u>
Classroom	Simulato	or	<u>X</u>	Plant
READ TO THE EXAN	<i>I</i> INEE			
	l conditions, which steps nplete the task successfi fied.			
Initial Conditions:	The plant is at 80% pow The Honeywell comput A-CP-46 is in effect. Annunciators have com	ter is N		17024-K). esponded to as appropriate.
Task Standards:	Detector Current values are within ± 0.2 , Corrected Currents are within ± 0.001 , and QPTR values are within ± 0.002 . Also, QPTR is reported to exceed an Acceptance Criterion (QPTR >1.02).			
Required Materials:	Calculator and a copy of SP-48-337, Quadrant Power Tilt Ratio Determination.			
General References:	SP-48-337, Quadrant F	Power	Tilt Ratio Deter	mination.
Initiating Cue: The C	RS directs you to perfo	orm a l	Manual QPTR	per SP-48-337.
Time Critical Task: Validation Time:	NO 20 minutes			

Appendix C Job Performance Measure INITIAL CONDITIONS Form ES-C-1 (R8, S1)

Facility: Kewaunee

Job Performance Measure No: A.1.b(RO)

Initial Conditions:

The plant is at 80% power. The Honeywell computer is NOT available (47024-K). A-CP-46 is in effect. Annunciators have come in and been responded to as appropriate.

Initiating Cue: The CRS directs you to perform a Manual QPTR per SP-48-337.

Appendix C		3	Form ES-C-1 (R8, S1)
		PERFORMANCE INFORMATIO	N
(Denote critic	al steps with a	"*")	
			Starting Time:
1_ Perfor	mance step:	Refer to procedure SP-48-337, Da Group Step Counter Positions.	ata Sheet 1, <u>and</u> RECORD
Standard:	SP-48-337, G	uadrant Power Tilt Ratio Determina	ation, step 4.1.
<u>Comment</u> :	Provide a BLA	ANK copy of Data Sheet 1 as require	ed to perform the JPM.
<u>2*</u> Perfo	rmance step:	Record individual Detector Current Drawers.	ts from Power Range B
Standard:	Verify the rec	orded individual Detector Currents a	are within ± 0.2 of panel values.
Comment:	Examiner No	te: See attached Answer Key	
<u>3*</u> Perfor	mance step:	Record 100% detector currents on	Data Sheet 1.
Standard:	Verify the reco within <u>+</u> 0.2 of	orded Power Range drawer 100% d panel values.	letector current values are
<u>Comment</u> :	Examiner No	te: See attached Answer Key	

Appendix C	4 Form ES-C-1 (R8, S1)
(Denote critic	PERFORMANCE INFORMATION al steps with a "*")
4* Perfo	rmance step: Calculate corrected currents.
Standard:	Calculate Corrected Currents to within <u>+</u>0.001 by dividing Detector Current by 100% current for each detector on Data Sheet 1.
Comment:	Examiner Note: See attached Answer Key
<u>5*</u> Perfor	mance step: Calculate the average Corrected Currents for upper and lower detectors
Standard:	Calculate the average Corrected Currents of the 4 upper and four lower detectors to within <u>+</u>0.001 .
Comment:	Examiner Note: See attached Answer Key
6* Perfor	mance step: Calculate the QPTR for each detector.
Standard:	Calculate the QPTR for each detector by dividing the corrected current by the corresponding average current to within <u>+</u>0.002 .
Comment:	Examiner Note: See attached Answer Key
7* Perforr	mance step: Candidate processes Data Sheet 1, notes QPTR >1.02, and informs shift management.
Standard:	SP-48-337, Quadrant Power Tilt Ratio Determination, steps 4.5, 5.1 and 5.2.
Comment:	CUE: As the CRS, INFORM the candidate that you will complete the processing of Data Sheet 1 and ACKNOWLEDGE the report that QPTR >1.02.

Terminating cue:

This JPM is completed. Completion Time:

Appendix C	5	Form ES-C-1 (R8, S1)
VE	RIFICATION OF COMPLETION	
Job Performance Measure No	A.1.b(RO)	
Examinee's Name:		
Examiner's Name:		
Date performed:		
Facility Evaluator:		
Number of attempts:		
Time to complete:		
Question Documentation:		
Question:		
Response:		
Result: SAT or UNSAT		

.

Examiner's signature and date: _____

	ndix C	•	Job Performance Measure Quality Checklist	Form ES-C-2 (R8, S1)		
Every	JPM should:					
1.	<u></u>	$\underline{}$ be supported by facility licensee's job task analysis.				
2.	2.5 (\$	$\sqrt{-1}$ be operationally important (meets NRC K/A Catalog threshold criterion of 5 (3 for requalification exams) or as determined by the facility and agreed to by e NRC).				
3.		_ be designed as either SRO only, RO /SRO or AO/RO/SRO.				
4.		include the following, as applicable:				
	a√	initial condition	onditions			
	b. <u>√</u>	initiating cues				
	c√	references a	erences and tools, including associated procedures			
	d. <u>√</u>	designation of	alidated time limits (average time allowed for completion) and specific esignation of those JPMs that are deemed to be time-critical by the acility operations department			
	e√	specific performance criteria that include:				
		(1)	expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step			
		(2)	system response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked			
		(3)	statements describing import be made by the examinee	ant observations that should		
			(4) $\underline{}$ criteria the task	for successful completion of		
			(5) $\underline{-}$ that are considered critical	identification of those steps		
		(6) _ N/A _	restrictions on the sequence	of steps		

FOR SIMULATOR USE ONLY

Simulator Setup:

Reset simulator to 80% power, BOC, CBD @ 190steps.

Place simulator in RUN

Place CBD Rods G-3, C-7 and G-11 Disconnect Switches in the "**DISCONNECTED**" position (Key 1).

Place the Control Bank Selector switch to the "CBD" position.

Drive Rod (K-7) in 5 steps to 190 steps on CBD Group 1 Step Counter.

Place the Control Bank Selector switch to the "AUTO" position.

Restore CBD Rods G-3, C-7 and G-11 Disconnect Switches in the "CONNECTED" position.

Place simulator in FREEZE

Appendix C	Job Performance Measure Worksheet	Form ES-C-1 (R8, S1)	
Facility: <u>Kewaunee</u>	Task No: <u>GNP-03.03.01</u>		
Task Title: <u>Review a Tagout</u>	Job Performance Measure No: <u>A.2</u>		
K/A Reference: 2.2.13			
Examinee:	NRC Examiner:		
Facility Evaluator:	Date:		
Method of testing:			
Simulated Performance	Actual Performance	<u>x</u>	
Classroom X	Simulator X	Plant	
READ TO THE EXAMINEE			

I will explain the initial conditions, which steps to simulate or discuss, and provide initiating cues. When you complete the task successfully, the objective for this job performance measure will be satisfied.

Initial Conditions: Charging Pump B Pulsation Dampener Maintenance is scheduled. The computerized tagout system is out of service. A handwritten tagout has been developed to isolate Charging Pump B.

Task Standards: Two discrepancies are identified in the review of the tagout.

Required Materials: Current copies of the following references are available:

- GNP-3.03.01 Tagout Processing
- PMP 35-09, CVC-QA-1, Charging Pump Pulsation Dampener Maintenance
- N-CVC-35B-CL, Charging and Volume Control Prestartup Checklist
- Drawing OPERXK-100-36, Flow Diagram CVCS

General References: References listed above.

Initiating Cue: The CRS directs you to perform a tagout placement and return to service adequacy / accuracy verification for Tag Number 04-9999 and report any discrepancies.

Time Critical Task: NO

Validation Time: 10 minutes

Job Performance Measure INITIAL CONDITIONS

Facility: Kewaunee

Job Performance Measure No: A.2

Initial Conditions: Charging Pump B Pulsation Dampener Maintenance is scheduled.

The computerized tagout system is out of service.

A handwritten tagout has been developed to isolate Charging Pump B.

Initiating Cue: The CRS directs you to perform a tagout placement and return to service adequacy / accuracy verification for Tag Number 04-9999 and report any discrepancies.

3

Form ES-C-1 (R8, S1)

PERFORMANCE INFORMATION

(Denote critical steps with a "*")

Starting Time: _____

<u>1</u> Performance step: Obtain and review references as needed to determine tagging series adequacy.

Standard: Current copies of the following references are available for review:

- GNP-3.03.01 Tagout Processing
- PMP 35-09, CVC-QA-1, Charging Pump Pulsation Dampener Maintenance
- N-CVC-35B-CL, Charging and Volume Control Prestartup Checklist
- Drawing OPERXK-100-36, Flow Diagram CVCS

<u>Comment</u>: Provide a working copy of GNP-3.03.01 - Tagout Processing once the candidate locates this procedure. The focus of this JPM is a **tag series review** using available references. Plant walk-downs, or reviews of individual tags or requesting individual documentation is NOT required.

<u>**2***</u> Performance step: Verify the Tagout adequately isolates the component.

Standard: While verifying the Tagout adequately isolates the component with respect to worker safety and scope of work, the candidate identifies that the specified breaker for Charging Pump B, MCC62E-A5, **should be MCC62E-A6**.

<u>Comment</u>: CVC-28B, Suction Pulsation Dampener Drain, is NOT required to be tagged per PMP 35-09. It may be pointed out that the tag was added at the discretion of the Operations Department **if** questioned. Also, the Shift Manager will determine the specified tagout sequence once the tagout is ready for placement, **if** tagout sequence is questioned.

4

Те

PERFORMANCE INFORMATION

(Denote critical steps with a "*")

<u>3*</u> Performance step: Verify the Tagout adequately isolates the component.

- Standard: While verifying the Tagout adequately isolates the component with respect to worker safety and scope of work, the candidate identifies that the required placement and restoration position for CVC-30B Casing Vent is <u>reversed</u>.
 - The placement position is listed as OPEN, but should be CLOSED.
 - The restoration position is listed as CLOSED, but should be OPEN.

<u>Comment</u>: After the candidate has completed identifying discrepancies, the JPM can be terminated.

rminating cue: This JPM is completed.

Completion Time:

Appendix C	5	Form ES-C-1 (R8, S1)
VERIFIC	ATION OF COMPLETION	
Job Performance Measure NoA	2	
Examinee's Name:		
Examiner's Name:		
Date performed:		
Facility Evaluator:		
Number of attempts:		
Time to complete:		
Question Documentation:		
Response:		
Result: SAT or UNSAT		

Examiner's signature and date:

Appendix C	Job Performance Measure	Form ES-C-2 (R8, S1)
	Quality Checklist	

- 1. $\sqrt{1}$ be supported by facility licensee's job task analysis.
- 2. √ be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).
- 3. $\sqrt{1}$ be designed as either SRO only, **RO/SRO** or AO/RO/SRO.
- 4. include the following, as applicable:
 - a. $\underline{\sqrt{}}$ initial conditions
 - b. $\underline{\sqrt{}}$ initiating cues
 - c. $\sqrt{}$ references and tools, including associated procedures
 - d. \checkmark validated time limits (average time allowed for completion) and specific designation of those JPMs that are deemed to be time-critical by the facility operations department
 - e. $\underline{\checkmark}$ specific performance criteria that include:
 - (1) \checkmark expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step
 - (2) <u>√</u> system response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked
 - (3) $\underline{\checkmark}$ statements describing important observations that should be made by the examinee
 - (4) $\underline{\sqrt{}}$ criteria for successful completion of the task
 - (5) $\sqrt{}$ identification of those steps that are considered critical
 - (6) <u>N/A</u> restrictions on the sequence of steps

Appendix C	Job Performance Measure Worksheet	Form ES-C-1 (R8, S1)
Facility: Kewaunee	Task No: HP-01	.019
Task Title: Radiation Control	Job Performance	Measure No: <u>A.3</u>
K/A Reference: 2.3.1		
Examinee:	NRC Examiner:	····
Facility Evaluator:	<u>Date</u> :	
Method of testing:		
Simulated Performance	Actual Performance	Questions
Classroom <u>X</u>	Simulator X	Plant
READ TO THE EXAMINEE		

I will explain the initial conditions and provide initiating cues. When you answer the 2 questions successfully, the objective for this job performance measure will be satisfied.

Initial Conditions:

- 3. GIVEN an area where an individual would receive **1 mrem** in **2 hours** at 30 centimeters from a source.
- 4. GIVEN an area where an individual would receive **1.8 rem** in **3 hours** at 30 centimeters from a source

<u>Task Standards</u>: Identify area designations and entry requirements.

<u>Required Materials</u>: Calculator and a pen or pencil.

<u>General References</u>: HP-01.019, "RCA Boundaries, Postings and Barricades, and Posted Area Entry Requirements".

Initiating Cue: DETERMINE the following for BOTH radiological conditions:

How would the area be designated?

What would the minimum entry requirements be?

Time Critical Task: NO

Validation Time: 12 minutes

Facility: Kewaunee

Job Performance Measure No: A.3

Initial Conditions:

- 3. GIVEN an area where an individual would receive **1 mrem** in **2 hours** at 30 centimeters from a source.
- 4. GIVEN an area where an individual would receive **1.8 rem** in **3 hours** at 30 centimeters from a source

Initiating Cue: DETERMINE the following for BOTH radiological conditions:

- 1. How would the area be designated?
- 2. What would the minimum entry requirements be?

Appendix C		2	Form ES-C-1 (R8, S1)
		PERFORMANCE INFORMAT	ΓΙΟΝ
(Denote critic	cal steps with a	"*")	Starting Time:
1 * Perfc	ormance step:	Given an area where an indivic hours at 30 centimeters from a	
		 How would the area be What would the minimute 	designated? Im entry requirements be?
<u>Standard</u> :	Entry Require Radiologicall a Rac a Dire	19, "RCA Boundaries, Postings a ements", page 6, an area > 0.25 y Controlled Area (RCA). Entry re liation Work Permit (RWP) ect-Reading Dosimeter (DRD)	
Comment:			
2* Perfor	mance step:	Given an area where an individ hours at 30 centimeters from a	
		 How would the area be What would the minimute 	designated? Im entry requirements be?
<u>Standard</u> :	Entry Require mrem/hour is a Rac	ements", pages 7-8, an area > 10 a High Radiation Area (HRA). E diation Work Permit (RWP) ect-Reading Dosimeter (DRD)	and Barricades, and Posted Area 00 mrem/hour but < 1000 Entry requirements are specified as:
		ny ONE of the following:	vhich continuously indicates dose
	0	A radiation monitoring device v	which continuously integrates the alarms when a preset integrated
	0	A Radiation Protection qualified procedures) with a radiation me	d individual (qualified in RP onitoring device who is responsible ver the activities and performing

Form ES-C-1 (R8, S1)

VERIFICATION OF COMPLETION

Job Performance Measure No. <u>A.3</u>

Examinee's Name:

Examiner's Name:

Date performed:

Facility Evaluator:

Number of attempts:

Time to complete:

Question Documentation:

Question:_____

Response:_____

Result: SAT or UNSAT

Examiner's signature and date: _____

Appendix C	Job Performance Measure	Form ES-C-2 (R8, S1)
	Quality Checklist	

- 1. $\sqrt{}$ be supported by facility licensee's job task analysis.
- 2. _____ be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).
- 3. $\sqrt{}$ be designed as either SRO only, **RO/SRO** or AO/RO/SRO.
- 4. include the following, as applicable:
 - a. $\underline{\checkmark}$ initial conditions
 - b. $\underline{\sqrt{}}$ initiating cues
 - c. <u>N/A</u> references and tools, including associated procedures
 - d. \checkmark validated time limits (average time allowed for completion) and specific designation of those JPMs that are deemed to be time-critical by the facility operations department
 - e. <u>N/A</u> specific performance criteria that include:
 - (1) <u>N/A</u> expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step
 - (2) <u>N/A</u> system response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked
 - (3) <u>N/A</u> statements describing important observations that should be made by the examinee
 - (4) <u>**N/A**</u> criteria for successful completion of the task
 - (5) <u>N/A</u> identification of those steps that are considered critical
 - (6) <u>N/A</u> restrictions on the sequence of steps

Appendix C	Job Performance Measure Worksheet	Form ES-C-1 (R8, S1)
Facility: <u>Kewaunee</u>		Task No: EPIP-AD-02
Task Title: <u>Classification and NA</u>	<u>ARS</u> Job Performar	nce Measure No: A.4. (SRO)
Examinee:	_ NRC Examine	r:
Facility Evaluator:	Date:	
Method of testing:		
Simulated Performance	Actual Perform	nance X
Classroom	Simulator	Plant
K/A Reference: 2.4.41 SRO 4.1		
Task Standards: Table 2-1, I	EPIP-AD-02, Emergency Class [Determination.
Required Materials: Table 2-1, I	EPIP-AD-02, Emergency Class [Determination.
General References: EPIP-AD-0	2, Emergency Class Determinati	on.
READ TO THE EXAMINEE: I will explain the initial conditions, cues. When you complete the tas measure will be satisfied.		
 The plant had been 	all plane crashed into the switch n operating at 100% Steady Stat ockouts were received for the M	e power prior to the event.

- The reactor tripped on loss of RCPs.
- All required blackout loads for Busses 5 and 6 started.
- Immediately following the trip, indication on R-15, Air Ejector Exhaust Monitor began to rise.
 - TLA-15, RMS ABOVE NORMAL, went into alarm for PPCS point G00015.
 - The R-15 recorder is currently stabilized below the alert setpoint at 1.43E+5 cpm.
- Four minutes ago, fire alarm, DSL GEN RM 1B FIRE, was received.
 - Diesel Generator B was subsequently shutdown, but the fire continues to burn in the area.
 - The fire brigade has responded and is currently containing the fire.
 - The call went out to the Kewaunee Fire Department to respond.
 - Three minutes ago, SI was manually actuated.
 - Przr level rapidly fell off-scale low.

- Przr pressure dropped rapidly and continues to decrease.
- Containment pressure began to rise.
- Containment rad monitors R-2 and R-7 began to rise rapidly.
- One minute ago plant parameters indicated:
 - SI injection flow is 340 gpm
 - RCS pressure is 700 psig
 - Highest CET is 500 deg F
 - RVLIS level is 100%
 - Containment pressure is 12 psig
 - R-2 is 4.7E+4 mr/hr
 - R-7 is 2.5E+4 mr/hr
 - R-15 is 1.43E+5 cpm
- Wind direction is 305 degrees and windspeed is 9.6 mph.
- Stability Class is B

INITIATING CUE:

•

You are to classify the event at the highest level and fill out the NARs form. This is a time critical JPM.

Time Critical Task: YES

Validation Time: 30 minutes

	Ap	pend	xib	С
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Job Performance Measure

Facility: Kewaunee

Job Performance Measure No: <u>A.4.b(SRO)</u>

INITIAL CONDITIONS:

- You are the SM.
- Seven minutes ago a small plane crashed into the switchyard.
 - The plant had been operating at 100% Steady State power prior to the event.
 - **Six minutes ago** lockouts were received for the MAT (generator), RAT, and TAT.
 - The reactor tripped on loss of RCPs.
 - All required blackout loads for Busses 5 and 6 started.
- Immediately following the trip, indication on R-15, Air Ejector Exhaust Monitor began to rise.
 - TLA-15, RMS ABOVE NORMAL, went into alarm for PPCS point G00015.
 - The R-15 recorder is currently stabilized below the alert setpoint at 1.43E+5 cpm.
- Four minutes ago, fire alarm, DSL GEN RM 1B FIRE, was received.
 - Diesel Generator B was subsequently shutdown, but the fire continues to burn in the area.
 - The fire brigade has responded and is currently containing the fire.
 - The call went out to the Kewaunee Fire Department to respond.
 - Three minutes ago, SI was manually actuated.
 - Przr level rapidly fell off-scale low.
 - Przr pressure dropped rapidly and continues to decrease.
 - Containment pressure began to rise.
 - Containment rad monitors R-2 and R-7 began to rise rapidly.
- One minute ago plant parameters indicated:
 - SI injection flow is 340 gpm
 - RCS pressure is 700 psig
 - Highest CET is 500 deg F
 - RVLIS level is 100%
 - Containment pressure is 12 psig
 - R-2 is 4.7E+4 mr/hr
 - R-7 is 2.5E+4 mr/hr
 - R-15 is 1.43E+5 cpm
- Wind direction is 305 degrees and windspeed is 9.6 mph.
- Stability Class is B

INITIATING CUE:

You are to classify the event at the highest level and fill out the NARs form. This is a time critical JPM.

Appendix C		3	Form ES-C-1 (R8, S1)
	PE	RFORMANCE INF	ORMATION
(Denote critical	steps with a "*")		Starting Time:
1 Performanc	e step: Refe	er to EPIP-AD-02, I	Emergency Class Determination.
Standard: F	Refer to EPIP-AD-0	02.	
Performance:	SATISFACI	ORY:	UNSATISFACTORY:
2* Performar	nce step: Dete ever	-	level of Emergency Classification for the
	Determine classifica f start time.	ation is Site Emerg	ency from Chart C or D within 14 minutes
Performance:	SATISFACT	ORY:	UNSATISFACTORY:
<u>3*</u> Performar	nce step: Fill o	out NARs form.	
	IARs form complet lassification of the		with Answer Key within 15 minutes of
Performance:	SATISFACT	ORY:	UNSATISFACTORY:
Terminating cue	: This JPM is	completed.	Completion Time:

•

Appendix C	6	Form ES-C-1 (R8, S1)
	VERIFICATION OF COMPLETION	
Job Performance Measure	No. <u>A.1.b(SRO)</u>	
Examinee's Name:		
Date performed:		
Facility Evaluator:		
Time to complete:		
Question Documentation:		
Question:		
Response:		
	· · · · · · · · · · · · · · · · · · ·	
Result: SAT or UNSAT		
Examiner's signature and da	ate:	

.

Appendix C	Job Performance Measure	Form ES-C-2 (R8, S1)
	Quality Checklist	

1. **v** be supported by facility licensee's job task analysis.

2. ✓ be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).

3. ____ be designed as either SRO only, RO/SRO or AO/RO/SRO.

Include the following, as applicable:

- a. 🖌 initial conditions
- b. 🖌 initiating cues
- c. references and tools, including associated procedures

d. <u>validated time limits (average time allowed for completion) and specific designation of those JPMs that are deemed to be time-critical by the facility operations department</u>

e. _ **/** specific performance criteria that include:

(1) \checkmark expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step

(2) \checkmark system response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked

(3) \checkmark statements describing important observations that should be made by the examinee

- (4) *criteria* for successful completion of the task
- (5) *identification of those steps that are considered critical*
- (6) <u>NA</u> restrictions on the sequence of steps

Appendix C			Job Performance Measure Worksheet		e Form ES-C-1 (R8, S1)
Facility: Kewaunee	: <u>Kewaunee</u>				EPIP-AD-07
Task Title: EP Notifi	cations (LC	DOP)		Job Perfo	rmance Measure No: A.4(RO)
K/A Reference: 2.4	.15				
Examinee:		_		<u>NRC Exa</u>	miner:
Facility Evaluator:				Date:	
Method of testing:					
Simulated Performan	ce	<u>x</u>	Actua	l Performar	nce
Classroom		Simul	ator	<u>X</u>	Plant
	l conditions				liscuss, and provide initiating cues. is job performance measure will be
Initial Conditions:	operations Buses 1-5 Generator An Unusu	s due to a s and 1-6 a s. al Event ha	severe : re being as beer	storm that h g powered f declared 6	e Power from 100% power, normal has just passed through the area. rom the Emergency Diesel minutes ago and the Event Notice ST completed and approved.
Task Standards:	Initial Emergency Notifications are initiated and in progress within 15 minutes from the time of EVENT CLASSIFICATION (9 minutes from the Initiating Cue).				
Required Materials:	A "Dial Select" phone, the NARS Form EPIPF-AD-07-01 and procedure EPIP-AD-07.				
<u>General References</u> :	EPIP-AD-03, "KNPP Response to an Unusual Event". EPIP-AD-07, "Initial Emergency Notifications" Form EPIPF-AD-07-01, "Event Notice Nuclear Accident Reporting System Form (NARS)"				
Initiating Cue: The SI Count	hift Manag y notificat	er directs ions per E	you, a PIP-AI	s the NOTI)-07. <u>THIS '</u>	FIER, to perform State and TASK IS TIME CRITICAL
Time Critical Task:	YES				
	10				

Validation Time: 10 minutes

Job Performance Measure INITIAL CONDITIONS

Facility: Kewaunee

Job Performance Measure No: A.4(RO)

Initial Conditions:

- The plant experienced a Loss of Offsite Power from 100% power, normal operations due to a severe storm that has just passed through the area.
- Buses 1-5 and 1-6 are being powered from the Emergency Diesel Generators.
- An Unusual Event has been declared **6 minutes ago** and the Event Notice (NARS) Form EPIPF-AD-07-01 was JUST completed and approved.

Initiating Cue: The Shift Manager directs you, as the NOTIFIER, to perform State and County notifications per EPIP-AD-07. THIS TASK IS TIME CRITICAL.

3

PERFORMANCE INFORMATION

(Denote critica	al steps with a "*")	Starting Time:
<u>1</u> Perforr	mance step: Obtai	n and review references as needed.
Standard: • •	EPIP-AD-03, "KNPP EPIP-AD-07, "Initial Form EPIPF-AD-07-	e following references are available for review: Response to an Unusual Event" Emergency Notifications". 01, "Event Notice Nuclear Accident Reporting System Form Iy completed NARS form is provided to the candidate Cue is given)
<u>Comment</u> :	ų ,	ies of EPIP-AD-07 and EPIP-AD-03, as required, after the e desired procedure(s).
2 Perform	ance step: Verify	the SM/ED has contacted the SAS.
Standard:	EPIP-AD-07, step 5.	1.1 - The candidate performs the verification.
<u>Comment</u> :	•	p 5.1 requires that the "Notifier" to perform step 5.1: Ind County of the Event".
<u>3</u> Perforr		any Event Notice (NARS) Form received from the SM has oval signature, date and time.
Standard:	EPIP-AD-07, step 5.	1.2 - The candidate performs the verification.
<u>Comment</u> :		p 5.1 requires that the "Notifier" to perform step 5.1: Ind County of the Event".
4* Perfor	mance step: Comp	plete block 12 of Form EPIPF-AD-07-01 (NARS).
Standard:	EPIP-AD-07, step 5.	1.3 - The candidate performs the action.
<u>Comment</u> :		p 5.1 requires that the "Notifier" to perform step 5.1: Ind County of the Event".

PERFORMANCE INFORMATION

(Denote critical steps with a "*")

<u>5*</u> Perfo	rmance step:	Complete EPIP-AD-07, Attachment A, "State and County Event Notification" per EPIP-AD-07, step 5.1.4 - (1) VERIFY the bell switch is ON.
Standard:	EPIP-AD-07,	Attachment A - Step 1 - The candidate performs the verification.
Comment:	CUE - The b	ell switch is ON.
<u>6*</u> Perfo	rmance step:	Complete EPIP-AD-07, Attachment A, "State and County Event Notification" per EPIP-AD-07, step 5.1.4 - (2) Pick up the Dial Select phone and verify the line is clear.
Standard:	EPIP-AD-07,	Attachment A - Step 2 - The candidate performs the actions.
Comment:	CUE - Some	one is found to be using the Dial Select Line.
7* Perfo	rmance step:	Complete EPIP-AD-07, Attachment A, "State and County Event Notification" per EPIP-AD-07, step 5.1.4 - (2.a) IF someone is using the line, STATE you have a "Priority 2" Notification.
Standard:	EPIP-AD-07,	Attachment A - Step 2.a The candidate performs the action.
Comment:	CUE - The li	ne is now clear.
<u>8*</u> Perfo	rmance step:	Complete EPIP-AD-07, Attachment A, "State and County Event Notification" per EPIP-AD-07, step 5.1.4 - (3) When the line is Clear, DIAL "22".
Standard:	EPIP-AD-07,	Attachment A - Step 3 - The candidate performs the action.
Comment:	•	hone rings, State Warning Center II answers ne keeps ringing.
,		

Appendix C		5	Form ES-C-1 (R8, S1)
(Denote critic	al steps with a	PERFORMANCE INFORMATIO	ON
·		-	
<u>9*</u> Perfo	rmance step:		p 5.1.4:
Standard:	EPIP-AD-07,	Attachment A - Step 4.a&b - The c	andidate performs the actions.
<u>Comment</u> :		unee and Manitowoc County Sh ne keeps ringing" - RECORD the).	
<u>10*</u> Perfo	rmance step:	Complete EPIP-AD-07, Attachme Notification" per EPIP-AD-07, ste - (4a-b) When <u>each</u> party ackno " <i>This is Kewaunee Nuclear Pla</i> <i>NARS message</i> " and record the responded on the NARS form.	p 5.1.4: (<u>PERFORM AGAIN</u>) wledges, answer by saying nt - Please stay on the line for a
Standard:	EPIP-AD-07,	Attachment A - Step 4.a&b - The c	andidate performs the actions.
<u>Comment</u> :		step (pressing the "#" key to sto prior to answering the parties abo	
<u>11*</u> Perf	ormance step:	Complete EPIP-AD-07, Attachme Notification" per EPIP-AD-07, ste - (4c) After all agencies have an cancel the ringing.	p 5.1.4:
Standard:	EPIP-AD-07,	Attachment A - Step 4.c - The can	didate performs the action.
<u>Comment</u> :	CUE - The pl	none stops ringing.	

Appendix C		6	Form ES-C-1 (R8, S1)
(-			
(Denote critic	al steps with a	··*·)	
<u>12*</u> Perl	formance step:	Complete EPIP-AD-07, Attachment A Notification" per EPIP-AD-07, step 5. - (5) Read the message on the NAR DELIBERATELY, using letter and n "PHONETIC ALPHABET").	1.4 S Form SLOWLY and
Standard:	EPIP-AD-07,	Attachment A - Step 5 - The candidate	performs the action.
<u>Comment</u> :	The PHONET GNP-03.17.04	TC ALPHABET is defined in the Comm 4.	nunications Standard
<u>13*</u> Per	formance step:	Complete EPIP-AD-07, Attachment A Notification" per EPIP-AD-07, step 5. - (6) SAY: "State Warning Center, p message to verify accuracy" and P	1.4 Iease read back this
<u>Standard</u> :	EPIP-AD-07,	Attachment A - Step 6 - The candidate	performs the actions.
<u>Comment</u> :	IF the message	E: " State Warning Center reads back ge contains no errors, OTHERWISE re e candidate to see if the errors are corre	ad back the message AS
<u>14*</u> Perl	formance step:	Complete EPIP-AD-07, Attachment A Notification" per EPIP-AD-07, step 5. - (7) SAY: "Have all agencies receive PAUSE.	1.4
<u>Standard</u> :	EPIP-AD-07,	Attachment A - Step7 - The candidate	performs the actions.
Comment:	CUE - STATE	E: "All agencies have received this m	essage"
<u>15*</u> Perl	formance step:	Complete EPIP-AD-07, Attachment A Notification" per EPIP-AD-07, step 5. - (8) SAY: "Relay this information to immediately. Have the appropriate message by placing a return phone 0101".	1.4 o Emergency Management personnel verify this
Standard:	EPIP-AD-07,	Attachment A - Step 8 - The candidate	performs the action.
<u>Comment</u> :		OWLEDGE (and repeat back) the las nication is <u>not</u> stated in the procedure.	

Form ES-C-1 (R8, S1)

PERFORMANCE INFORMATION

7

(Denote critical steps with a "*")

<u>16</u> Perfe	ormance step:	Complete EPIP-AD-07, Atta Notification" per EPIP-AD-0 - (9) IF any agencies did r	· ·
Standard:	EPIP-AD-07,	Attachment A - Step 9 - The	candidate performs the verification.
Comment:	The candidat	e should acknowledge that a	Il agencies have responded.
<u>17*</u> Per	formance step:	Notification" per EPIP-AD-0	M that initial notifications have been
Standard:	EPIP-AD-07,	Attachment A - Step 10 - The	e candidate performs the actions.
Comment:	CUE - ACKN	OWLEDGE (and repeat bac	ck) the last message.
Terminating	<u>cue</u> : This	JPM is completed.	Completion Time:

Appendix C	8	Form ES-C-1 (R8, S1)
VE	RIFICATION OF COMPLETION	
Job Performance Measure No.	A.4(RO)	
Examinee's Name:		
Examiner's Name:		
Date performed:		
Facility Evaluator:		
Number of attempts:		
Time to complete:		
Question Documentation:		
Question:		
Response:		
Result: SAT or UNSAT		

Examiner's signature and date:

Appendix C	Job Performance Measure	Form ES-C-2 (R8, S1)
	Quality Checklist	

4.

- 1. $\sqrt{1}$ be supported by facility licensee's job task analysis.
- 2. $\sqrt{}$ be operationally important (meets NRC K/A Catalog threshold criterion of 2.5 (3 for requalification exams) or as determined by the facility and agreed to by the NRC).
- 3. $\sqrt{1}$ be designed as either SRO only, **RO**/SRO or AO/RO/SRO.
 - include the following, as applicable:
 - a. $\sqrt{}$ initial conditions
 - b. $\underline{\checkmark}$ initiating cues
 - c. $\underline{\sqrt{}}$ references and tools, including associated procedures
 - d. ____ validated time limits (average time allowed for completion) and specific designation of those JPMs that are deemed to be time-critical by the facility operations department
 - e. $\underline{\checkmark}$ specific performance criteria that include:
 - (1) \checkmark expected actions with exact control and indication nomenclature and criteria (switch position, meter reading), even if these criteria are not specified in the procedural step
 - (2) $\sqrt{}$ system response and other cues that are complete and correct so that the examiner can properly cue the examinee, if asked
 - (3) $\underline{\checkmark}$ statements describing important observations that should be made by the examinee
 - (4) $\underline{\sqrt{}}$ criteria for successful completion of the task
 - (5) $\underline{\checkmark}$ identification of those steps that are considered critical
 - (6) $\underline{\sqrt{}}$ restrictions on the sequence of steps