

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

<u>NOTE</u>: All steps of this checklist should be performed upon initial validation. Prior to JPM usage, revalidate JPM using steps 9 and 13 below.

 1.	Task description and number, JPM description and number are identified.
 2.	Knowledge and Abilities (K/A) references are included.
 3.	Performance location specified. (in-plant, control room, simulator, or other)
 4.	Initial setup conditions are identified.
 5.	Initiating cue (and terminating cue if required) are properly identified.
 6.	Task standards identified and verified by SME review.
 7.	Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
 8.	If an alternate path is used, the task standard contains criteria for successful completion.
 9.	Verify the procedure(s) referenced by this JPM reflects the current revision: Procedure <u>BwOP RD-1</u> Rev: 7
 10.	Verify cues both verbal and visual are free of conflict.
 11.	Verify performance time is accurate
 12.	If the JPM cannot be performed as written with proper responses, then revise the JPM.
 13.	When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:
	SME / Instructor Date
	SME / Instructor Date

SME / Instructor

Date

Revision Record (Summary)

Revision 151, Revision includes current revisions of referenced procedures and current revision of TQ-AA-150-J020 JPM Template.

SRRS: 3D.105 (when utilized for operator initial or continuing training)

Braidwood simulator setup instructions

1. N/A, In-Plant

JPM SUMMARY

Operator's Name:	Emp. ID#:
Job Title:	TA/IA 🛛 SRO Cert
JPM Title: Perform Rod Drive MG Set Startup	
JPM Number: IP-101 Revis	ion Number: <u>151</u>
Task Number and Title: R-RD-014, Start up the	Control Rod Drive System
K/A Number and Importance: 001000A4.08, 3.7/3	<u>3.4</u>
Suggested Testing Environment: In-Plant	
Alternate Path: □Yes ⊠No SRO Only: □Y	es ⊠No Time Critical: □Yes ⊠No
Reference(s): BwOP RD-1, Rev. 7; Control Rod	Drive MG Set Startup
Materials: 1. BwOP RD-1 2. Pictures of the insides of Cabinet 2B for sv 3. Pictures of Reactor Trip/Bypass Breakers 4. Laser pointer.	
Actual Testing Environment: Simulator	🗆 Control Room 🛛 In-Plant 🛛 Other
Testing Method: 🛛 Simulate 🗌 Perform	
Estimated Time to Complete: <u>10</u> minutes	Actual Time Used: minutes
EVALUATION SUMMARY: Were all the Critical Elements performed satisfaction	torily? 🗌 Yes 🗌 No
The operator's performance was evaluated again contained within this JPM and has been determined	
Comments:	
	-
	·
Evaluator's Name:	(Print)
Evaluator's Signature:	

INITIAL CONDITIONS

- 1. You are an EO.
- 2. Unit 2 is in the process of being started up per 2BwGP 100-2.
- 3. Unit 1 is at full power.

INITIATING CUE

1. The US has directed you to start the 2A Rod Drive MG set per BwOP RD-1.

Provide examinee with copy of BwOP RD-1 and inform them all prerequisites, precautions, limitations and actions are met.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

NOTE: Once filled out, only pages 1-8 will be filed with the student records. The approved master copy of this JPM must be filed in its entirety.

UNSAT requires written comments on respective step.

* Denotes critical steps.

Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

Some operations that are performed from outside of the control room may require multiple steps. These items may be listed as individual steps in this JPM. It is acceptable for the candidate to direct the local operator to perform groups of procedure steps instead of calling for each individual item to be performed.

Cues for In-Plant JPMs that are conducted as simulate will be provided by the evaluator. The evaluator should provide a cue that the operator must evaluate to determine the component's position rather than the evaluator stating the component's position. Example: for a valve position the evaluator would provide the cue of the valve stem position, a valve handle position or the associated valve position pointer. The evaluator may provide the cue "as you see it" if the valve is in the position required for the step in the JPM. The evaluator should not use the words "the valve is open (or closed)". When the operator is reading an instrument or gauge, the operator should first locate the correct instrument or gauge. The evaluator should then (when practical) point to the instrument or gauge rather than stating the as read value. Cues for Simulator JPMs are generally not written in the JPM as the cue is provided by the simulator.

The timeclock starts when the candidate acknowledges the initiating cue.

JPM Start Time:

STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number	
1	Proceed to the 2A Rod Drive MG Set (451' MEER).	Locate the 2A Rod Drive MG Set Control Cabinet: • 2RD03E.				
2	Verify/Set the Voltage Adjust Potentiometer to the MID position and Sync switch is OFF. BwOP RD-1 steps F.1 and F.2.	 Perform the following at 2RD03E: VERIFY/SET the Voltage Adjust Potentiometer to MID position. VERIFY/PLACE the Synchronizer Switch in the OFF position. 				
CUE	Voltage Adjust Pot is in Mid position (5 on dial).					
CUE	Synch switch is pointing straight l	JP. (Off position)				
3	Verify Motor and Generator breakers are tripped. BwOP RD-1 steps F.3 and F.4.	VERIFY the MOTOR and GENERATOR breakers are TRIPPED, either locally at the breakers, or at the control switches: • ENSURE Motor Breaker is				
		 in the TRIP position. VERIFY the Motor Breaker OPEN light is ENERGIZED. 				
		 CHECK Generator Breaker is in the TRIP position. 				
		 VERIFY the Generator Breaker OPEN light is ENERGIZED. 				
CUE	Motor Breaker Control Switch Fla	g is GREEN.				
CUE	Motor Breaker GREEN light is Lit					
CUE	Generator Breaker Control Switch	n Flag is GREEN.				
CUE	Generator Breaker GREEN light i	s Lit.				

	Braidwood IP-101 rev.151						
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number		
NOTE	Any position except OFF is acceptable for the positions of the switches in the following step.						
4	Verify/Place the Ammeter and Voltmeter Selector Switches in the proper positions. BwOP RD- 1 steps F.5 and F.6.	 Perform switch alignment for the Ammeter and Voltmeter Selector switches: VERIFY/PLACE the Ammeter Selector Switch in the A, B, or C position. VERIFY/PLACE the Voltmeter Selector Switch in the 1-2, 2-3, or 3-1 position. 					
CUE	Ammeter Sel Switch is in the (A,	B, or C) position and reading zero.					
CUE	Voltmeter Sel Switch is in the (1-2	2, 2-3, or 3-1) position and reading	zero.				
NOTE	position inside of a cabinet. Due	tep, the student will be required to to safety concerns, this cabinet wil Have the student locate the proper icture is available.	l not b	e oper	ed		
5	Verify the position of the internal grounding switch. BwOP RD-1 steps F.7.	 VERIFY/OPEN the internal grounding switch as follows: LOCATE cabinet 2B. LOCATE switch 1KS. OPEN switch 1KS. 					
CUE	Switch 1KS is as shown in the pic	ctures 1 and 1A (in the Open position	on).				

		Braidwood	IP	-101 re	ev.151	
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number	
6	Verify/Close the Local Stationary and Moving Disconnects above the Rod Drive Power Cabinets. BwOP RD-1 steps F.8.	VERIFY/CLOSE the Local Stationary and Moving Disconnects above the Rod Drive Power Cabinets: 2RD02JA. 2RD02JC. 2RD03JA. 2RD03JC. 2RD04JA. 2RD04JC. 2RD05JA. 2RD05JA. 2RD05JC. 2RD06JC.				
NOTE	Have student use laser pointer to identify switches and positions. Once the first position is verified provide the cue.					
CUE	Local Stationary and Moving Disc	connect pointers all indicate ON.				
7	Verify/Close the Local Lift Disconnects above the Rod Drive Power Cabinets. BwOP RD-1 steps F.9.	VERIFY/CLOSE the Local Lift Disconnects above the Rod Drive Power Cabinets: • 2RD02JB. • 2RD03JB. • 2RD04JB. • 2RD05JB. • 2RD06JB.				
NOTE	Have student use laser pointer. C	Dince the first position is verified pro	ovide th	ne cue		
CUE	Local Lift Disconnect pointers all	indicate ON.				

		Braidwood	IP	-101 re	ev.151
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
8	Verify open all Reactor Trip and Reactor Trip Bypass breakers. BwOP RD-1 steps F.10 and F.11.	VERIFY/OPEN all Reactor Trip and Reactor Trip Bypass Breakers: • RTA • RTB • BYA • BYB			
CUE	Reactor Trip breaker A and B OPEN targets are displayed in picture 2.				
CUE	Reactor Trip Bypass breakers A a	and B Disconnect targets are displa	ayed ir	n pictu	re 3.
9	Ensure no targets indicating on the ground and overcurrent relays for both the A and B cabinets. BwOP RD-1 steps F.12.	OBSERVE the A and B cabinets for Relay targets (9 Targets total).	_		
CUE	No targets are dropped for cabine	et A or B.			
*10	Close the 2A Motor Breaker. BwOP RD-1 steps F.13.	 Start the 2A MG Motor as follows: (Procedural Adherence) CLOSE the 2A MG Motor Breaker. Wait 15 seconds for the MG to come up to speed. 			
CUE	RED Flag on the Control Switch is up, RED light is Lit, sounds from the 2A motor starting are heard.				
CUE	15 seconds have elapsed.				

		Braidwood	IP	-101 re	ev.151
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
*11	Flash the field of the 2A MG set generator. BwOP RD-1 steps F.14.	 Flash the field of the 2A Generator as follows: (Procedural Adherence) DEPRESS and HOLD the 2A Field Flash pushbutton. OBSERVE Generator Voltmeter indicates ~235 volts. RELEASE the Field Flash pushbutton. 			
CUE	Generator Voltmeter indicates 23	5 volts.			
12	Check the range of control of the Voltage Adjust potentiometer. BwOP RD-1 steps F.15.	ROTATE the 2A MG Set Voltage Adjust Potentiometer and CHECK the range of control between 230 and 300 volts.			
CUE	Voltmeter indication changes betw	ween 230 and 300 volts			
*13	Adjust the Generator Voltage. BwOP RD-1 steps F.16.	 Adjust the Generator Voltage to 250 to 270 volts. (Procedural Adherence) Adjust Generator Voltage to 250 to 270 volts using the Voltage Adjust Potentiometer. 			
CUE	Generator Voltage is 235 volts pr adjusting.	ior to adjusting and indicates 260 v	olts af	ter	

		Braidwood	IP	-101 re	ev.151
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
14	Verify/Close the Local Lift Disconnects above the Rod Drive Power Cabinets. BwOP RD-1 steps F.17.	 VERIFY the Local Lift Disconnects above the Rod Drive Power Cabinets are CLOSED: 2RD02JB. 2RD03JB. 2RD04JB. 2RD05JB. 2RD06JB. 			
NOTE	This step rechecks the same item	ns as step 8 of this JPM.			
CUE	Another EO just verified that the I	Local Lift Disconnects are CLOSE	D.		
*15	Close the 2A MG Set Generator breaker. BwOP RD- 1 steps F.18.	CLOSE the 2A MG Generator Breaker. (Procedural Adherence)			
CUE	RED Flag on the Control switch is	s up, RED light is Lit.			

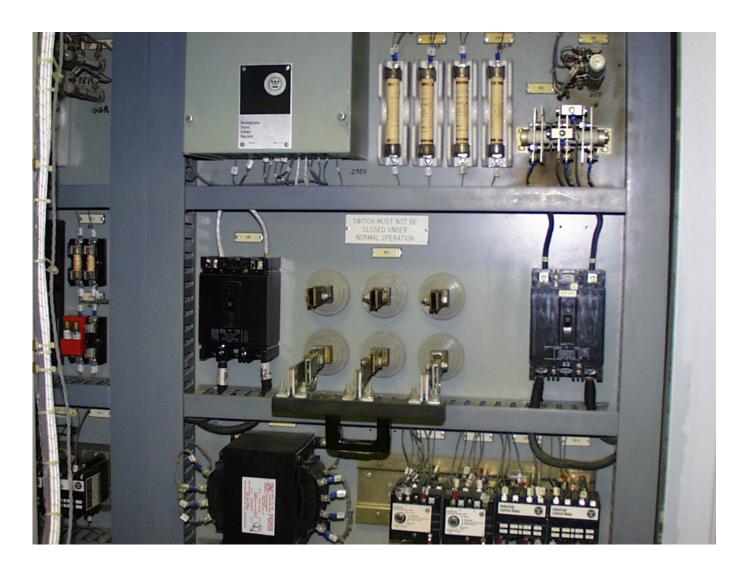
JPM Stop Time:

INITIAL CONDITIONS

- You are an EO. 1.
- Unit 2 is in the process of being started up per 2BwGP 100-2. Unit 1 is at full power. 2.
- 3.

INITIATING CUE

The US has directed you to start the 2A Rod Drive MG set per BwOP RD-1. 1.



Picture 1



Picture 1A



Picture 2

IP-101 rev.151



Picture 3

Job Performance Measure Operate the Fire Detection/Alarm Equipment					
	JPM Number: <u>IP-801</u>				
	Revision Number: <u>151</u>				
	Date: <u>03 / 24 / 2016</u>				
Developed By:	Eric Steinberg Instructor	<u>03/24/2016</u> Date			
Validated By:	Dan Burton SME or Instructor	<u>04/22/2016</u> Date			
Reviewed By:	Kevin Lueshen Operations Representative	<u>04/22/2016</u> Date			
Approved By:	Eric Steinberg Training Department	<u>04/26/2016</u> Date			

Braidwood IP-801 rev151 JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

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 4.	Initial setup conditions are identified.	
 5.	Initiating cue (and terminating cue if required	d) are properly identified.
 6.	Task standards identified and verified by SM	1E review.
 7.	Critical steps meet the criteria for critical ste asterisk (*).	ps and are identified with an
 8.	If an alternate path is used, the task standar completion.	d contains criteria for successful
 9.	Verify the procedure(s) referenced by this JI Procedure <u>BwOP CO-5</u> Rev: <u>006</u> Procedure <u>BwOP CO-5T2</u> Rev: <u>004</u> Procedure <u>Rev:</u>	PM reflects the current revision:
 10.	Verify cues both verbal and visual are free c	f conflict.
 11.	Verify performance time is accurate	
 12.	If the JPM cannot be performed as written wrevise the JPM.	ith proper responses, then
 13.	When JPM is initially validated, sign and dat validations, sign and date below:	e JPM cover page. Subsequent
	SME / Instructor	Date
	SME / Instructor	Date

SME / Instructor

Date

Revision Record (Summary)

Revision 151, updated to the new template and procedure revisions.

Braidwood simulator setup instructions

1. None in plant JPM.

Braidwood **INITIAL CONDITIONS**

- 1. 2. 3. 4. 5

- You are an extra operator. Both Units are at full power. A fire exists in the 2B Diesel Generator Room. The automatic CO_2 actuating circuits have failed to operate. Security has verified the no personnel are in the room.

INITIATING CUE

The SM has instructed you to manually initiate CO₂ deluge to the 2B Diesel Generator Room per BwOP CO-5, MANUAL ACTUATION OF THE CARBON DIOXIDE FIRE SUPRESSION SYSTEMS.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

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Number any comments in the "Comment Number" column on the following pages. Then annotate that comment in the "Comments" section. The comment section should be used to document: the reason that a step is marked as unsatisfactory, marginal performance relating to management expectations, or problems the examinee had while performing the JPM. Comments relating to procedural or equipment issues should be entered and tracked using the site's appropriate tracking system.

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The timeclock starts when the candidate acknowledges the initiating cue.

IP-801 rev151

Braidwood

JPM Start Time:

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
1	Refer to BwOP CO-5 and BwOP CO-5T2.	Locate and open the following: • BwOP CO-5 • BwOP CO-5T2			
CUE	Once examinee locates procedur precautions, limitation and action	es, provide copies and inform then s are met.	n all pr	erequi	sites,
2	Locate Pushbuttons #1 and #2 stations for the 2B EDG Room.	 Determine and Locate pushbutton stations for 2B D/G room from page 1 of BwOP CO- 5T2 Pushbutton #1 (2HS- CO002) is at Turb Bldg 401' L-28. Pushbutton #2 (2HS- CO003) is at Turb Bldg 401' L-29. 			
NOTE:	Alternate path begins once button actuation.	e candidate confirms no CO2 flow f	rom th	e push	I
3	Attempt to actuate CO2 deluge system from local pushbuttons.	 Perform the following at each location to attempt to actuate CO2 deluge system from local pushbuttons. PULL DOWN the cover on the Pushbutton Station. Depress the Pushbutton for 3-5 seconds. Verify the pre-discharge alarm sounds. After the pre-discharge alarm stops, verify CO2 discharge is occurring by sound and frosting of piping. 			

<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	Once the examinee depresses the pushbutton. Cue "The pre-discharge alarm is sounding." Cue "The alarm has stopped." When the examinee indicates they are listening for flow noise and looking for frost on the CO2 piping, cue "No flow noise is heard and piping is as seen (no frost).				
NOTE:	Alternate path begins here.				
4	Locate damper control cabinet for 2B D/G room and determine power is available.	 Determine and locate damper control cabinet from BwOP CO-5T2 page 1 as follows: Damper control cabinet (2CO17JB) for 2B D/G Room is at Turb Bldg 401' L-29. Verify power at the damper control cabinet. 			
CUE	When correct cabinet is located, o	cue "Power available light is as yoι	ı see it	: (light	lit)."
5	Attempt to actuate CO2 deluge from Selector EMPC valve	 Perform the following to attempt to actuate CO2 deluge from the EMPC valve: Determine and locate the Selector EMPC (2CO03JB) at Turb Bldg 401' L-29 Break the selector EMPC cabinet glass Place Selector EMPC in the open position Verify CO2 discharge by sound and frosting of piping Maintain Selector EMPC in open position for ≥ 95 seconds. Close Selector EMPC. 			

STEP	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
CUE	Cue "The glass is broken." Cue: point to the open position for the Selector EMPC. When the examinee indicates they are listening for flow noise and looking for frost on the CO2 piping, cue "No flow noise is heard and piping is as seen (no frost). Cue: point to the closed position for the Selector EMPC.			st on	
*6	Manually actuate CO2 deluge system by aligning Master EMPC.	 Manually actuate CO2 deluge system by aligning the Master EMPC as follows: Determine and locate Master EMPC to be 0CO09J at Turb Bldg 401' L-17. Verify the Master EMPC is open. Break the glass on the Master EMPC valve cover (0CO09J). Place the actuator lever in the OPEN position. 			
CUE	-		-		

*7	Actuate CO2 deluge from the Selector EMPC valve.	Perform the following to actuate	_
		 Place Selector EMPC in the open position. Verify CO2 discharge by sound and frosting of piping. Maintain selector EMPC in open position for ≥ 95 seconds. Close selector EMPC. 	
CUE	Cue: point to the open position for the Selector EMPC.		
	When the examinee indicates they are listening for flow noise and looking for frost on the CO2 piping, cue "Flow noise is heard and piping has frost on it."		ו
	If desired time has not elapsed C	ue:" time (95 seconds) has elapsed."	
	Cue: point to the closed position t	for the Selector EMPC.	
CUE	That completes this JPM.		

JPM Stop Time:

JPM SUMMARY

Operator's Name	Emp. ID#:
Job Title: 🗌 EO	□ RO □SRO □ FS □ STA/IA □ SRO Cert
JPM Title: Operate	the fire detection/ Alarm Equipment
JPM Number: IP-8	01 Revision Number: <u>151</u>
Task Number and	Title: R-FP-002, Operate fire detection/alarm equipment
K/A Number and Ir	mportance: <u>086000A2.04 3.3/3.9</u>
Suggested Testing	Environment: In Plant
Alternate Path:	Yes □No SRO Only: □Yes ⊠No Time Critical: □Yes ⊠No
Śys	OP CO-5 rev 6, Manual Actuation of the Carbon Dioxide Fire Suppression stems, BwOP CO-5T2 rev 4, Manual Actuation of the Unit 2 Carbon Dioxide Suppression Systems Table 2
Actual Testing Er	vironment: Simulator Control Room In-Plant Other
Testing Method:	Simulate D Perform
Estimated Time to	Complete: <u>14</u> minutes Actual Time Used: minutes
EVALUATION SU Were all the Critica	MMARY: al Elements performed satisfactorily? ☐ Yes ☐ No
• •	formance was evaluated against standards is JPM and has been determined to be:
Comments:	
Evaluator's Name	e (Print):
Evaluator's Signa	iture: Date:

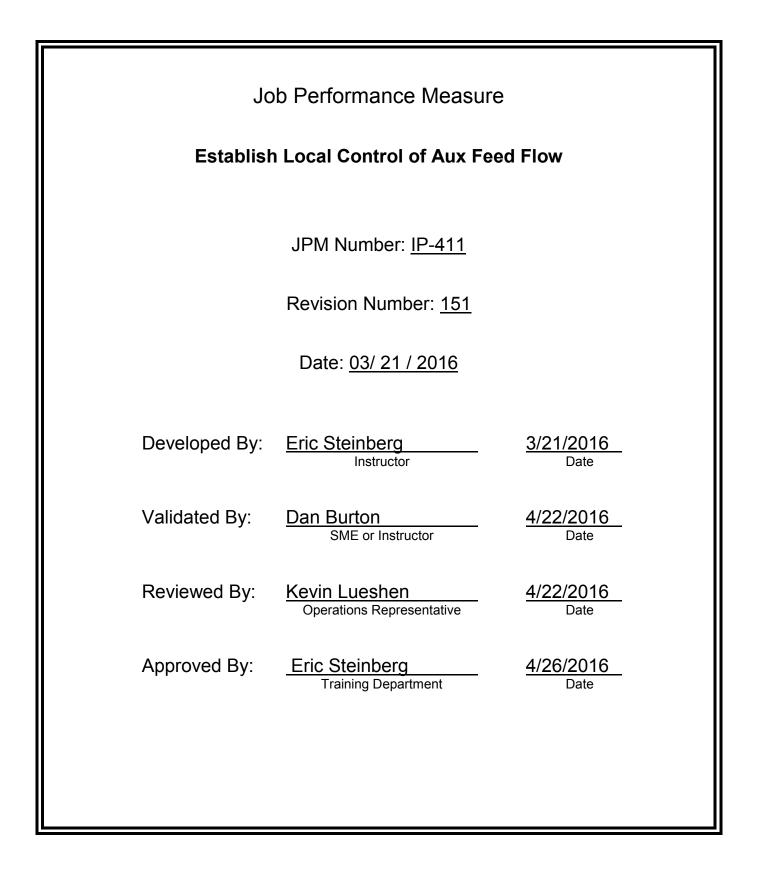
INITIAL CONDITIONS

- 1. 2. 3. 4. 5.

- You are an extra operator. Both Units are at full power. A fire exists in the 2B Diesel Generator Room. The automatic CO_2 actuating circuits have failed to operate. Security has verified the no personnel are in the room.

INITIATING CUE

The SM has instructed you to manually initiate CO₂ deluge to the 2B Diesel Generator Room per BwOP CO-5, MANUAL ACTUATION OF THE CARBON DIOXIDE FIRE SUPRESSION SYSTEMS.



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 6.	Task standards identified and verified by SME review.
 7.	Critical steps meet the criteria for critical steps and are identified with an asterisk (*).
 8.	If an alternate path is used, the task standard contains criteria for successful completion.
 9.	Verify the procedure(s) referenced by this JPM reflects the current revision: Procedure <u>1BwOA PRI-5</u> Rev: <u>108</u> Procedure Rev: Procedure Rev:
 10.	Verify cues both verbal and visual are free of conflict.
 11.	Verify performance time is accurate
 12.	If the JPM cannot be performed as written with proper responses, then revise the JPM.
 13.	When JPM is initially validated, sign and date JPM cover page. Subsequent validations, sign and date below:
	SME / Instructor Date

SME / Instructor

Date

SME / Instructor

Date

Revision Record (Summary)

Revision 151, This is a new in plant JPM written for ILT 15-1 NRC exam.

SIMULATOR SETUP INSTRUCTIONS

- 1. Place keep a copy of 1BwOA PRI-5 to step 10 B to give examinee.
- 2. No simulator setup required this is an in plant JPM.

INITIAL CONDITIONS

- 1. The control room has been evacuated due to a fire.
- 2. Both Unit 1 and Unit 2 have been tripped.
- 3. Control has been established from the RSDP for both units in accordance with attachment A of 1 BwOA PRI-5.
- 4. The 1B AF pump is seized.

INITIATING CUE

- 1. You are an extra NSO and safe shutdown operator.
- 2. The Shift Manager has directed you to report to the Unit 1 supervisor at the unit 1 RSDP.

Fill in the JPM Start Time when the student acknowledges the Initiating Cue.

Information For Evaluator's Use:

UNSAT requires written comments on respective step.

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The timeclock starts when the candidate acknowledges the initiating cue.

JPM Start Time:

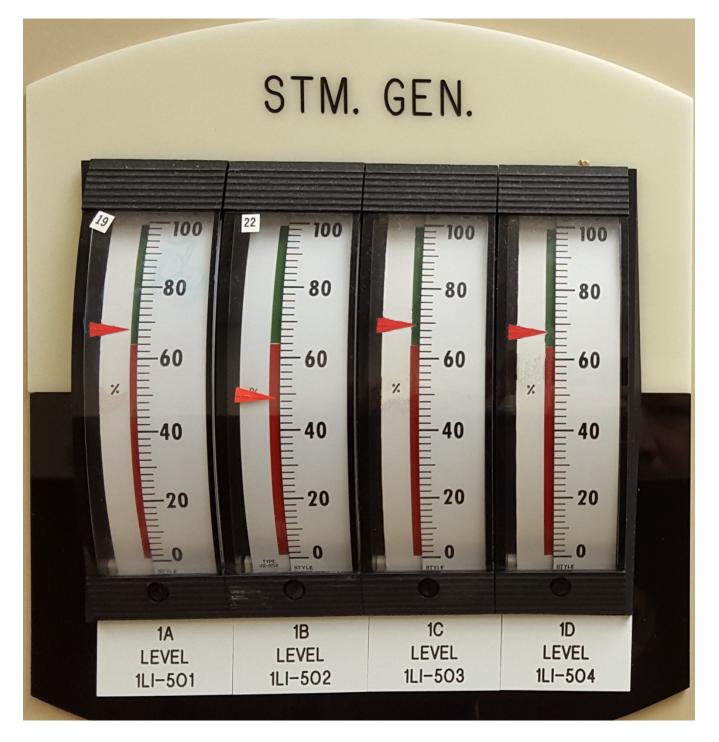
<u>STEP</u>	<u>ELEMENT</u>	<u>STANDARD</u>	SAT	UNSAT	Comment Number
NOTE:	NOTE: Examinee may elect to not get dosimetry to go the remote shutdown panel. This is acceptable; however they will be required to get dosimetry before proceeding with the alternate path.				
CUE	Once the examinee reaches the Unit 1 remote shutdown panel, provide the following cue. "The Unit 1 supervisor directs you to control AF flow to maintain wide range steam generator levels between 65% and 70% per step 10.b. of 1BwOA PRI-5."				
1	Verify current conditions.	 Verify SG wide range level is in band. Verify AF flow is established to each generator. 			
CUE	When the examinee looks at SG WR level show them picture 1.				
CUE	When the examinee looks at the AF flow meters show them picture 2.				
NOTE: The alternate path of the JPM will start when the candidate attempts to throttle 1AF005B and the valve does not respond.					
2	Attempt to adjust AF flow to 1B SG.	Adjust controller for 1AF005B in the OPEN direction.			
CUE	After making an adjustment to the checked, show picture 2 again, no	e 1AF005B controller and the 1B A o change.	F flow	meter	is
	If the examinee checks the position is ILLIMUNIATED and the OPEN	on indicating lights for 1AF005B, th light is DARK.	e CLC	SED I	ight
	If the examinee checks the position light is DARK and the OPEN light	on indicating lights for the 1AF013E is ILLUMINATED.	B, the (CLOSE	ED
	If the examinee checks the position the output demand remained zero	on indicator on the controller it indico.	cates o	closed	and
	If asked, the 1AF005A, C and D o illuminated for each valve.	open and closed indicating lights ar	e both		

3	Identify local control is required.	 Informs the Unit Supervisor that 1AF005B is closed and not responding to its control signal. RNO is to locally fail air and throttle 1AF005B.
CUE	· · · · ·	s available, the US directs you perform the RNO SO will monitor SG levels from the RSDP
NOTE:	•	005B to fully open and flow water to the SG. The orm JPM step 5 to establish control before step 4
*4	Establish conditions to take manual local control.	 Close valve 1AF005B-IA INST AIR TO 1AOV- AF005B. Bleed off air from the positioner.
CUE	If asked the 1AF005B begins more bled off, if air is not bled off the value off the value off the value of th	ving to full open position once air is isolated and alve remains closed.
5	Establish manual control of 1AF005B.	Engage the 1AF005B manual jacking device to establish control by turning it clockwise.
CUE	If the examinee turns the jack in the clockwise direction indicate the jack engages the valve. If this step is done after I/A is failed also report the valve begins closing.	
	If contacted for desired flow, cue	the examinee that further adjustment is required.
*6	Throttle flow.	Continue throttling
CUE	Call as the Unit 1 NSO and reque	est that adjustments be stopped.
	This completes this JPM.	

JPM Stop Time: _____

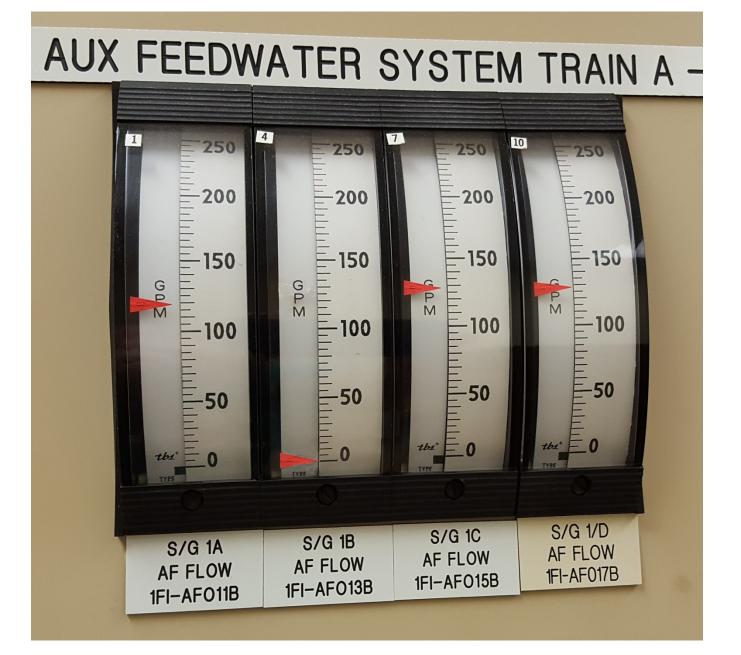
JPM SUMMARY

Operator's Name:	Emp. ID#:
Job Title: 🛛 EO 🗌 RO 🔄 SRO 🔲 FS	□ STA/IA □ SRO Cert
JPM Title: Establish local control of aux fee	<u>d flow</u>
JPM Number: IP-411	Revision Number: <u>151</u>
	n emergency control of shutdown equipment.
K/A Number and Importance: <u>APE068AA1.</u>	<u>26 3.6/3.8</u>
Suggested Testing Environment: In plant.	
Alternate Path: Yes No SRO Only	
Reference(s): 1BwOA PRI-5 rev 108, Cont	trol Room Inaccessibility Unit1
Actual Testing Environment: Simulate	or 🗌 Control Room 🖂 In-Plant 🔲 Other
Testing Method: ⊠ Simulate □ Perf	
-	
	Actual Time Used: minutes
EVALUATION SUMMARY: Were all the Critical Elements performed sa	atisfactorily? 🗌 Yes 📄 No
The operator's performance was evaluated	
contained within this JPM and has been de	termined to be: Satisfactory Unsatisfactory
Comments:	
Evaluator's Name (Print):	
Evaluator's Signature:	Date:



Picture 1

IP-411 rev 151



Picture 2

INITIAL CONDITIONS

- 1. The control room has been evacuated due to a fire.
- 2. Both Unit 1 and Unit 2 have been tripped.
- 3. Control has been established from the RSDP for both units in accordance with attachment A of 1 BwOA PRI-5.
- 4. The 1B AF pump is seized.

INITIATING CUE

- 1. You are an extra NSO and safe shutdown operator.
- 2. The Shift Manager has directed you to report to the Unit 1 supervisor at the unit 1 RSDP.