



JOB PERFORMANCE MEASURE (JPM)

SITE: PBNP

JPM TITLE: SHIFT CONTROL POWER FOR THE EMERGENCY DIESEL GENERATOR

JPM NUMBER: JPM P064.007bAOT **REV.** 3 Draft

RELATED PRA INFORMATION:

TASK NUMBER(S) / TASK TITLE(S): P064.007.AOT / SHIFT CONTROL POWER FOR THE EMERGENCY DIESEL GENERATOR

K/A NUMBERS: 064K1.04 (3.6/3.9) 064K2.03 (3.2/3.6)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 15 Minutes Time Critical: NO

Alternate Path / Faulted: NO

TASK APPLICABILITY: _____

Additional signatures may be added as needed.

Developed by:	Instructor	Date
Validated by:	Validation Instructor (See JPM Validation Checklist, Attachment 1)	Date
Approved by:	Training Supervisor	Date

JPM Number: JPM P064.007bAOT

JPM Title: Shift Control Power For The Emergency Diesel Generator

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS:

SAT:

UNSAT:

Delete this table if not required

Procedure adequately addresses task elements.
Enter Identifier here: OP 11A G-01, Emergency Diesel Generator G-01

Other document adequately describes necessary task elements.
Enter Identifier here: _____

Task elements described as attached.

COMMENTS/FEEDBACK: (Comments shall be made for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

JPM BRIEFING/TURNOVER

THIS SECTION IS READ ONCE FOR THE ENTIRE PACKAGE OF JPMS. IT IS NOT REQUIRED TO REVIEW THIS SECTION FOR EVERY JPM BEING PERFORMED IN THE PACKAGE. THE INITIAL CONDITIONS AND INITIATING CUE(S)/TASKS TO BE PERFORMED SHOULD BE READ AND THEN PROVIDED TO THE EXAMINEE.

After I read you the initial conditions and initiating cue(s)/task to be performed for this JPM and provide you a copy of the same, you may review and begin. Once you have completed the task, indicate completion by handing back this form to the evaluator unless otherwise told.

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate actions steps without using the procedure, you may then use any approved reference materials.

For all two and three-way communications, make your report to me, the JPM evaluator. I will reply to your reports with the statement, "acknowledge." All actions in the plant are to be simulated and all actions in the simulator will be performed. Ensure you make it clear to me, the evaluator, of all actions you are taking so that credit may be given for completing each step of the task.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- Both units operating at power.
- C-02 alarm "EMERGENCY DIESEL G-01 DC POWER FAILURE" was received.
- Subsequent investigation revealed that G-01 Start 1 Circuit had failed.
- The problem was determined to be D72-26-08 (Power to C-78-03 normal power to G-01 EDG Start Ckt #1), which would not remain in the closed position.
- G-01 125 VDC Start Circuit #1 power supply has been shifted to the alternate supply D72-31-01.
- D72-26-08 has been replaced and is closed.
- G-01 emergency diesel generator is **NOT** running.
- PAB AO has reported that D72-31-14 Pwr to C-34, G-01 EDG Start Ckt #2 is closed.

INITIATING CUES (IF APPLICABLE):

- The OS1 directs you to transfer emergency diesel generator, G-01, 125 VDC **START CIRCUIT #1** supply from alternate to normal in accordance with OP 11A G-01, Section 5.5.2.

JPM PERFORMANCE INFORMATION

Required Materials: OP 11A G-01, "Emergency Diesel Generator G-01"

General References: OP 11A G-01, "Emergency Diesel Generator G-01"

Task Standards: Diesel generator, G-01, 125 Vdc annunciator power is transferred from the alternate to the normal power supply.

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e. the examinee looks or asks for the indication).

NOTE: Critical steps are marked with a "Y" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: 1	5.5.2 Transfer G-01 From Alternate to Normal
Critical <u>N</u>(SEQ-1)	a. Verify the normal supply switches are CLOSED as indicated below: D72-31-14 Pwr to C-34, G-01 EDG start Ckt 2 D72-26-07 Pwr to C-78-05, Norm Pwr to G-01 EDG Control Power D72-26-08 Pwr to C-78-03, Norm Pwr to G-01 EDG Start Ckt 1 D72-26-09 Pwr to C-78-01, Norm Pwr to G-01 EDG Annunciator D72-26-10 Pwr to C-78-07, Norm Pwr to G-01 EDG Field Flash

Standard:	The examinee verifies that the normal supply switches for the following are closed: <ul style="list-style-type: none"> • D72-31-14 (reported as initial condition) • D72-26-07 • D72-26-08 • D72-26-09 • D72-26-10
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Evaluator Cue:	The normal supply switches for D72-31-14, D72-26-07, D72-26-08, D72-26-09 and D72-26-10 are closed.
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Evaluator Note:	D26 – 26/CB/CSR EAST D31 – 8/PAB/2B-32.
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Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
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Comments:	_____
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Performance Step: 2 Critical <u>Y</u>(SEQ-2)	b. IF G-01 engine is NOT running, THEN at G-01 engine gauge board C-64, place Selector Switch to LOCAL START. (If the engine is running, do NOT place Selector Switch to LOCAL START, AND mark this step N/A.)
Standard:	The examinee placed the Selector Switch to LOCAL START. (G-01 NOT in AUTO alarm annunciates.)
Evaluator Cue:	<ul style="list-style-type: none">• The Selector Switch is in the LOCAL START position.• The G-01 NOT In Auto alarm annunciates.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical <u>N</u>(SEQ-3)	c. Acknowledge G-01 NOT in Auto alarm.
Standard:	The examinee acknowledges the G-01 NOT In Auto alarm.
Evaluator Cue:	The G-01 NOT In Auto alarm is acknowledged.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>Y</u>(SEQ-4)	d. AT G-01-C-78 swap paired breakers to return circuits to NORMAL power supply. Start 1 OPEN Bkr 4 CLOSE Bkr 3
Standard:	The examinee opens Breaker 4 and closes Breaker 3 at G-01-C-78.
Evaluator Note:	Examinee should address CAUTION prior to this step and recognize it does not apply to this evolution.
Evaluator Cue:	<ul style="list-style-type: none">• G-01-C-78 Breaker 4 is open.• G-01-C-78 Breaker 3 is closed.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical <u>Y</u>* (SEQ-5)	e. At Engine Gauge Board C-64: <ul style="list-style-type: none">• Reset annunciators• Ensure Mode Selector in Auto START• Clear Not In Auto alarm (if required)
Standard:	The examinee resets annunciator, places the Mode Selector in the Auto START position and clears the Not In Auto alarm (if required).
Evaluator Cue:	<ul style="list-style-type: none">• The annunciators are reset• The Mode Selector is in the Auto START position• The Not in Auto alarm is clear.
Evaluator Note:	*Placing the Mode Selector in the Auto START is the only critical portion of this step.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>N</u>(SEQ-6)	f. Direct PAB operator to open D-31, Switch 1, Alt DC Pwr to C-78, G-01 EDG DC Pwr Transfer Pnl.
Standard:	The examinee directs the PAB operator to Open D-31, Switch 1, the alternate DC power to C-78, G-01 EDG DC power transfer panel.
Evaluator Cue:	<ul style="list-style-type: none">• The PAB operator acknowledges your request.• The PAB operator reports that D-31, Switch 1 is Open.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>N</u>(SEQ-7)	g. Note time and notify SM. End 10 CFR 50.54 declaration. G-01 125 Vdc power shifted back to NORMAL supply.
Standard:	The examinee notes the time and notifies the Shift Manager to end the 10 CFR 50.54 declaration. G-01 125 Vdc power is shifted back to its normal supply in accordance with OP 11A G-01, Section 5.5.2, current revision.
Evaluator Cue:	The Shift Manager acknowledges your report.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: The evolution is complete.

Stop Time: _____

TURNOVER SHEET

INITIAL CONDITIONS:

- Both units operating at power.
- C-02 alarm "EMERGENCY DIESEL G-01 DC POWER FAILURE" was received.
- Subsequent investigation revealed that G-01 Start 1 Circuit had failed.
- The problem was determined to be D72-26-08 (Power to C-78-03 normal power to G-01 EDG Start Ckt #1), which would not remain in the closed position.
- G-01 125 VDC Start Circuit #1 power supply has been shifted to the alternate supply D72-31-01.
- D72-26-08 has been replaced and is closed.
- G-01 emergency diesel generator is **NOT** running.
- PAB AO has reported that D72-31-14 Pwr to C-34, G-01 EDG Start Ckt #2 is closed.

INITIATING CUES (IF APPLICABLE):

- The OS1 directs you to transfer emergency diesel generator, G-01, 125 VDC **START CIRCUIT #1** supply from alternate to normal in accordance with OP 11A G-01, Section 5.5.2.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the signature page filled in correctly?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2. Has the JPM been reviewed and validated by SMEs?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4. Does the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. Has the completion time been established based on validation data or incumbent experience?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11. Have all special tools and equipment needed to perform the task been identified and made available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12. Are all references identified, current, accurate, and available to the trainee?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

All questions/statements must be answered "YES" or the JPM is not valid for use. If all questions/statements are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation shall sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Historical Record: (Optional)

	JOB PERFORMANCE MEASURE (JPM)
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SITE: PBNP

JPM TITLE: SHIFT VITAL SERVICE WATER LOADS TO ALTERNATE SUPPLY HEADER

JPM NUMBER: JPM P000.020aAOT REV. 1

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): P000.020.AOT
SHIFT SW SUPPLY FOR CRITICAL COMPONENTS TO ALTERNATE HEADER

K/A NUMBERS: 076 K3.07 (3.7 / 3.9)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:
 Simulator: Other:
 Lab:

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: RO: NLO

Additional site-specific signatures may be added as desired.

Developed by:	Andrew Zommers	Date
	Developer	
Validated by:	Validator	Date
	(See JPM Validation Checklist, Attachment 1)	
Approved by:	Training Supervisor	Date

JPM P000.020aAOT, Shift Vital Service Water Loads to Alternate Supply Header, Rev. 1

JPM BRIEFING/TURNOVER

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- You are the Unit 1 Turbine Hall AO
- Both units are operating at 100% power.
- The operating crew is responding to a leak in the South Service Water Header.
- AOP-9A step 31, "Transferring Vital Equipment to Alternate Service Water Supply" is in progress.

INITIATING CUES (IF APPLICABLE):

- The OS directs you to re-align Service Water supplies in accordance with AOP-9A, Attachment A, steps A.2.f and A.2.g.

JPM P000.020aAOT, Shift Vital Service Water Loads to Alternate Supply Header, Rev. 1

JPM PERFORMANCE INFORMATION

Required Materials: AOP-9A, “Service Water System Malfunction”, Attachment A

General References: AOP-9A, “Service Water System Malfunction”

Task Standards: The alternate service water supplies to the Control Room HVAC, P-38A MD AFW Pump and 1P-29 TD AFW pump are aligned to the North SW header, and isolated from the South SW header.

Start Time: _____

NOTE: When providing “Evaluator Cues” to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee’s actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a “Y” below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: 1	Shut Control Room AC condensers HX south supply valve
Critical <u>Y</u>	<ul style="list-style-type: none"> • SW-341
Standard:	SW-341 SHUT
Evaluator Note:	SW-341 is a normally open valve
Evaluator Cue:	SW-341 Control Room AC condensers HX south supply valve stem is fully inserted.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

JPM P000.020aAOT, Shift Vital Service Water Loads to Alternate Supply Header, Rev. 1

Performance Step: 2	Open Control Room AC condensers HX north supply valve
Critical <u>Y</u>	<ul style="list-style-type: none"> • SW-340
Standard:	SW-340 OPEN
Evaluator Note:	SW-340 is a normally red-locked shut valve
Evaluator Cue:	SW-340 Control Room AC condensers HX north supply valve red-lock is removed and valve stem is fully extended.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3	Shut P-38A motor driven AFW pump south header supply valve.
Critical <u>Y</u>	<ul style="list-style-type: none"> • SW-129
Standard:	SW-129 shut.
Evaluator Note:	SW-129 is a normally red-locked open, chain operated valve.
	Examinee may stand under the valve wrong and try to open the valve thinking it is going shut.
Evaluator Cue:	SW-129, P-38A motor driven AFW pump south header supply valve red-lock is removed and the valve stem is fully inserted.
	If examinee tries to turn the valve the wrong way, cue the chain operator will not turn.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

JPM P000.020aAOT, Shift Vital Service Water Loads to Alternate Supply Header, Rev. 1

Performance Step: 4 Critical <u>Y</u>	Open P-38A motor driven AFW pump north header supply valve. • SW-130
Standard:	SW-130 open.
Evaluator Note:	SW-130 is a normally red-locked shut, chain operated valve. Examinee may stand under the valve wrong and try to open the valve thinking it is going shut.
Evaluator Cue:	SW-130, P-38A motor driven AFW pump north header supply valve red-lock is removed and the valve stem is fully extended. If examinee tries to turn the valve the wrong way, cue the chain operator will not turn.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical <u>Y</u>	Shut 1P-29 turbine driven AFW pump south header supply valve. • SW-135
Standard:	SW-135 shut.
Evaluator Note:	SW-135 is a normally red-locked open, chain operated valve. Examinee may stand under the valve wrong and try to open the valve thinking it is going shut.
Evaluator Cue:	SW-135, 1P-29 turbine driven AFW pump south header supply valve red-lock is removed and the valve stem is fully inserted. If examinee tries to turn the valve the wrong way, cue the chain operator will not turn.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

JPM P000.020aAOT, Shift Vital Service Water Loads to Alternate Supply Header, Rev. 1

Performance Step: 6 Critical <u>Y</u>	Open 1P-29 turbine driven AFW pump north header supply valve. • SW-134
Standard:	SW-134 open.
Evaluator Note:	SW-134 is a normally red-locked shut, chain operated valve. Examinee may stand under the valve wrong and try to open the valve thinking it is going shut.
Evaluator Cue:	SW-134, 1P-29 turbine driven AFW pump north header supply valve red-lock is removed and the valve stem is fully extended. If examinee tries to turn the valve the wrong way, cue the chain operator will not turn.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 7 Critical <u>N</u>	Notify the control room that alternate service water suction is aligned from the north service water header per AOP-9A Attachment A steps A.2.f and A.2.g.
Standard:	Control Room notified
Evaluator Cue:	Control Room acknowledges your report.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: Evolution complete

Stop Time: _____

JPM P000.020aAOT, Shift Vital Service Water Loads to Alternate Supply Header, Rev. 1

Historical Record: Rev. 1 modified JPM for ILT 2007 NRC exam, added more steps

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 1 Turbine Hall AO
- Both units are operating at 100% power.
- The operating crew is responding to a leak in the South Service Water Header.
- AOP-9A step 31, "Transferring Vital Equipment to Alternate Service Water Supply" is in progress.

INITIATING CUES (IF APPLICABLE):

- The OS directs you to re-align Service Water supplies in accordance with AOP-9A, Attachment A, steps A.2.f and A.2.g.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

	JOB PERFORMANCE MEASURE (JPM)
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SITE: Point Beach Nuclear Plant

JPM TITLE: LOCALLY OPERATE A CHARGING PUMP

JPM NUMBER: P004.010a.AOT REV. 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): P004.010.AOT Locally Operate a Charging Pump

K/A NUMBERS: APE 068.AA1.13 (4.1/4.2)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION: In-Plant: Control Room:
 Simulator: Other:
 Lab:

Time for Completion: 20 Minutes Time Critical: NO

Alternate Path: NO

TASK APPLICABILITY: SRO: RO: NLO

Additional site-specific signatures may be added as desired.

Developed by:	Andrew Zommers		
	Developer		Date
Validated by:	Validator		
	(See JPM Validation Checklist, Attachment 1)		Date
Approved by:	Training Supervisor		
			Date

P004.010a.AOT, Locally Operate a Charging Pump, Rev. 0

JPM Number: P004.010a.AOT

JPM Title: Locally Operate a Charging Pump

Examinee: _____

Evaluator: _____

Job Title: _____

Date: _____

Start Time _____

Finish Time _____

PERFORMANCE RESULTS: SAT: UNSAT:

COMMENTS/FEEDBACK: (Make written comments for any steps graded unsatisfactory).

EVALUATOR'S SIGNATURE: _____

NOTE: Only this page needs to be retained in examinee's record if completed satisfactorily. If unsatisfactory performance is demonstrated, the entire JPM should be retained.

P004.010a.AOT, Locally Operate a Charging Pump, Rev. 0

JPM BRIEFING/TURNOVER

You may use any approved reference materials normally available including logs. Make all written reports, oral reports, and log entries as if the evolution is actually being performed.

EOP Immediate Actions are required to be performed from memory. After completing immediate action steps without using the procedure, you may then use any approved reference materials.

If this JPM is performed on the simulator, the JPM administrator should only give cues that are not indicated on the simulator. If simulator indication is sufficient to indicate the completion of a step, the JPM administrator should not have to give a cue to the trainee to continue the evolution.

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

DURING THE JPM, ENSURE PROPER SAFETY PRECAUTIONS, FME, AND/OR RADIOLOGICAL CONCERNS AS APPLICABLE ARE FOLLOWED.

INITIAL CONDITIONS:

- The plant has experienced a fire in the 26' PAB near C-59 resulting in entry of AOP-10C Safe Shutdown Following Fire at PAB 26'.
- The Unit 2 Control Operator has completed Attachment D Unit 2 Control Operator Local Actions of AOP-10C through step D7.

INITIATING CUES (IF APPLICABLE):

- You are directed by the OS to help the Unit 2 Control Operator and perform Attachment D step D8.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

JPM PERFORMANCE INFORMATION

Required Materials: AOP-10C Safe Shutdown Following Fire at PAB 26' Attachment D

General References: AOP-10C Safe Shutdown Following Fire at PAB 26'

Task Standards: Take local control of 2P-2C Charging Pump

Start Time: _____

NOTE: When providing "Evaluator Cues" to the examinee, care must be exercised to avoid prompting the examinee. Typically cues are only provided when the examinee's actions warrant receiving the information (i.e., the examinee looks or asks for the indication).

IMPORTANT: Critical steps are marked with a "Y" below the performance step number. Failure to meet the standard for any critical step shall result in failure of this JPM.

Performance Step: 1 Critical <u>Y</u>	At 2N-11, place the local/remote transfer switch to - LOCAL
Standard:	Local/remote transfer switch at 2N-11 to LOCAL for 2P-2C Charging Pump.
Evaluator Note:	If desired, use a picture to have the examinee show their actions.
Evaluator Cue:	Local/remote switch is in LOCAL
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 2 Critical <u>N</u>	Set the local control potentiometer at 2RK-24 to the minimum speed (fully counter-clockwise) position.
Standard:	Local potentiometer at 2RK-24 for 2P-2C Charging Pump set to minimum.
Evaluator Cue:	Potentiometer is turned fully counter-clockwise and reads 000.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Performance Step: 3 Critical <u>Y</u>	Place the Appendix R transfer switch at the selected VFD in EMERGENCY to transfer Charging Pump start-stop and speed control to 2RK-24
Standard:	Normal/Emergency transfer switch to EMERGENCY.
Evaluator Cue:	Normal/Emergency transfer switch is in EMERGENCY
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical <u>N</u>	Contact DOS to locally close the breaker to the selected VFD charging pump(s). <ul style="list-style-type: none"> • 2B52-28A, 2P-2C
Standard:	Contact DOS to close 2P-2C Charging Pump breaker
Evaluator Cue:	DOS acknowledges request and reports that breaker 2B52-28A is closed for 2P-2C Charging Pump.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical <u>Y</u>	Provide power to the VFD by depressing the start button at 2N-11 once.
Standard:	Start button depressed once for 2P-2C Charging Pump at 2N-11.
Evaluator Note:	If desired, use a picture to have the examinee show their actions.
Evaluator Cue:	Start button has been depressed.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Performance Step: 6 Critical <u>Y</u>	Start pump by depressing the start button at RK-24 local control station.
Standard:	Start button depressed for 2P-2C Charging Pump at 2RK-24.
Evaluator Cue:	Start button has been depressed (VFD Running) with the red light lit and green light is off.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: THIS COMPLETES THIS JPM

Stop Time: _____

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Historical Record: Rev: 0 Developed for the ILT2007 NRC Exam.

TURNOVER SHEET

INITIAL CONDITIONS:

- The plant has experienced a fire in the 26' PAB near C-59 resulting in entry of AOP-10C Safe Shutdown Following Fire at PAB 26'.
- The Unit 2 Control Operator has completed Attachment D Unit 2 Control Operator Local Actions of AOP-10C through step D7.

INITIATING CUES (IF APPLICABLE):

- You are directed by the OS to help the Unit 2 Control Operator and perform Attachment D step D8.

Retention: Life of Plant

Retain in: Training Record

Form retained in accordance with record retention schedule identified in FP-G-RM-01.

ATTACHMENT 1

JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

ALL STEPS IN THIS CHECKLIST ARE TO BE PERFORMED UPON INITIAL VALIDATION AND PRIOR TO USE.

REVIEW STATEMENTS	YES	NO	N/A
1. Are all items on the cover page filled in correctly?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
2. Has the JPM been reviewed and validated by SMEs?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3. Can the required conditions for the JPM be appropriately established in the simulator if required?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5. Is the standard for each performance item specific as to what controls, indications and ranges are required to evaluate if the trainee properly performed the step?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
6. If the task is NOT time critical, has the completion time been established based on validation data or incumbent experience?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. If the task is time critical, is the time critical portion based upon actual task performance requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is the Licensee level appropriate for the task being evaluated if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. Is the K/A appropriate to the task and to the licensee level if required? Not applicable to Non-Licensed Operators	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. Have the performance steps been identified and typed (Critical / Sequence / Time Critical) appropriately?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
13. Have all required cues (as anticipated) been identified for the evaluator to assist task completion?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

All applicable questions must be answered "YES" or the JPM is not valid for use. If all applicable questions are answered "YES" then the JPM is considered valid and can be performed as written. The individual(s) performing the validation sign and date this form.

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date

Validation Personnel /Date

Validation Personnel/Date