

Job Performance Measure (JPM)

SITE: Point Beach

JPM TITLE: Locally Start Gas Turbine

JPM NUMBER: PBN JPM P065.001.AOT REV. 0

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN P065.001.AOT Operate Gas Turbine

K/A NUMBERS: APE 068 AA1.10 (3.7/3.9)

APPLICABLE METHOD OF TESTING:

Discussion: Simulate/walkthrough: Perform:

EVALUATION LOCATION:

In-Plant: Control Room:

Simulator: Other:

Lab:

Time for Completion: 30 Minutes Time Critical: No

Alternate Path: Yes

TASK APPLICABILITY: SRO: RO: NLO

Additional 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

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

JPM Number: PBN JPM P065.001.AOT

JPM Title: Locally Start Gas Turbine

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.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

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:

- There was a fire in the Cable Spreading Room.
- The Crew entered AOP-10A, “Safe Shutdown – Local Control.”
- You are the Third RO and have performed the applicable steps in Attachment B, “Third Reactor Operator Local Actions” up to step B25.

INITIATING CUES (IF APPLICABLE):

- You are to continue performing Attachment B starting at step B26.

Retention: Life of Plant
Retain in: Training Record

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Job Performance Measure (JPM)

JPM PERFORMANCE INFORMATION

Required Materials: AOP-10A, "Safe Shutdown – Local Control", Attachment B

General References: AOP-10A, "Safe Shutdown – Local Control", Rev 48

Task Standards: G-05 running with output breaker closed IAW AOP 10A, Attachment B

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, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1	Check G-05 -NOT RUNNING
Critical <u>N</u>	
Standard:	Verify G05 Gas Turbine is not running.
Evaluator Cue:	G-05 is not running
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 2 Isolate H-01 From Offsite Power

Critical Y

At Panel C222A:

1) Place 43/H52-20 in -LOCAL

2) Place H52-20 in - TRIP

Standard: Breaker H52-20 OPEN.

Evaluator Note: **Initially examinee sees actual plant conditions with 43/H52-20 in REMOTE and Red light is lit.**

Evaluator Cue: **1. 43/ H52-20 is in LOCAL**
2. H52-20 green flagged switch with Green light LIT and the Red light not lit.
3. If asked, examinee did hear breaker open right behind them.

Performance: SATISFACTORY UNSATISFACTORY

Comments: _____

Job Performance Measure (JPM)

Performance Step: 3	At Panel C222C:
Critical <u>Y</u>	1) Place 43/H52-21 in -LOCAL 2) Place H52-21 in - TRIP
Standard:	Breaker H52-21 OPEN.
Evaluator Note:	Depending on the month, this breaker could be OPEN or CLOSED. If asked, any initial cues should reflect current plant conditions. This step only critical if the breaker is initially closed.
Evaluator Cue:	1. 43/ H52-21 is in LOCAL 2. H52-21 green flagged switch with Green light LIT and the Red light not lit. 3. If asked, examinee did hear breaker open right behind them.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4	At Panel C223C:
Critical <u>Y</u>	1) Place 43/H52-30 in - LOCAL 2) Place H52-30 in - TRIP
Standard:	Breaker H52-30 OPEN.
Evaluator Note:	Initially examinee sees actual plant conditions with 43/H52-30 in REMOTE and Red light is lit with Green light off.
Evaluator Cue:	1. 43/ H52-30 is in LOCAL 2. H52-30 green flagged switch with Green light LIT and the Red light not lit. 3. If asked, examinee did hear breaker open right behind them.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 5 Critical <u>Y</u>	At Panel C223A: 1) Place 43/H52-31 in -LOCAL 2) Place H52-31 in -TRIP
Standard:	Breaker H52-31 OPEN.
Evaluator Note:	Depending on the month, this breaker could be OPEN or CLOSED. If asked, any initial cues should reflect current plant conditions. This step only critical if the breaker is initially closed.
Evaluator Cue:	1. 43/ H52-31 is in LOCAL 2. H52-31 green flagged switch with Green light LIT and the Red light not lit. 3. If asked, examinee did hear breaker open right behind them.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 6 Critical <u>N</u>	Align Gas Turbine To X-08 At Panel C221A: 1) Place 43/H52-10 in -LOCAL 2) Place H52-10 in -CLOSE
Standard:	Breaker H52-10 CLOSED.
Evaluator Note:	Initially examinee sees actual plant conditions with 43/H52-10 in REMOTE and Red light is lit with Green light off.
Evaluator Cue:	1. 43/ H52-10 is in LOCAL
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
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Job Performance Measure (JPM)

Performance Step: 7	At Panel C221C:
Critical <u>N</u>	1) Place 43/H52-11 in -LOCAL 2) Place H52-11 in -CLOSE
Standard:	Breaker H52-11 CLOSED
Evaluator Note:	Initially examinee sees actual plant conditions with 43/H52-11 in LOCAL and Red light is lit.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8	Take Local Control Of G-05 Gas Turbine:
Critical <u>Y</u>	Place G-05 43 Local/Remote switch in - LOCAL
Standard:	G05 43 Local/Remote switch in LOCAL.
Evaluator Note:	Gas Turbine G-05 will not auto synchronize to a dead bus.
Evaluator Cue:	G-05 43 Local/Remote switch is in LOCAL.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
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Job Performance Measure (JPM)

Performance Step: 9 Critical <u>Y</u>	At back of C-500, place G-05 43I Normal/Isolate switches in - ISOLATE 1) IS01 -ISOLATE 2) IS02 -ISOLATE 3) IS03 -ISOLATE
Standard:	G05 43I switches 1, 2 and 3 in ISOLATE.
Evaluator Cue:	1) G05 43I IS01 switch is in -ISOLATE. 2) G05 43I IS02 switch is in -ISOLATE. 3) G05 43I IS03 switch is in -ISOLATE.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10 Critical <u>Y</u>	At Generator Field Breaker Panel, place G-05 43I Normal/Isolate switches in - ISOLATE IS06 -ISOLATE
Standard:	G05 43I switch 6 in ISOLATE
Evaluator Cue:	G05 43I IS06 switch is in -ISOLATE.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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Job Performance Measure (JPM)

Performance Step: 11 Critical	At H52-GO5 Panel, place G-05 431 Normal/Isolate switches in - ISOLATE IS05 -ISOLATE
Standard:	G05 43I switch 5 in ISOLATE
Evaluator Cue:	G05 43I IS05 switch is in -ISOLATE.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 12 Critical <u>Y</u>	e. At C-500 Panel. place G-05 431 Normal/Isolate switches in -ISOLATE IS04 -ISOLATE
Standard:	G05 43I switch 4 in ISOLATE
Evaluator Cue:	G05 43I IS04 switch is in -ISOLATE.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
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Job Performance Measure (JPM)

Performance Step: 13	Check G-05 -RUNNING
Critical <u>N</u>	
Standard:	Verify G05 not running.
Evaluator Note:	With G-05 not running, examinee should transition to the RNO column.
Evaluator Cue:	G-05 is <u>not</u> running
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 14	Perform the following:
Critical <u>Y</u>	Place trip reset control switch (74 device) to RESET then back to OFF.
Standard:	Reset G05 74 device.
Evaluator Cue:	Trip reset switch is placed to RESET and then back to OFF.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

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Job Performance Measure (JPM)

Performance Step: 15 Critical <u>Y</u>	Below G-05 43 Local/Remote switch, ensure DC Control Breaker -CLOSED.
Standard:	G05 DC control breaker CLOSED.
Evaluator Note:	Examinee finds DC control breaker OPEN which is different than actual or expected plant conditions.
Evaluator Cue:	1. DC control breaker is found OPEN. 2. DC control breaker is CLOSED.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 16 Critical <u>N</u>	Check ready to start light -LIT.
Standard:	Verify ready to start light LIT.
Evaluator Cue:	Ready to start light is LIT.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 17 Critical <u>Y</u>	Depress start pushbutton
Standard:	G05 start pushbutton depressed.
Evaluator Cue:	Start button is depressed and G05 is starting up.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

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Job Performance Measure (JPM)

Performance Step: 18 Critical <u>N</u>	WHEN G-05 is greater than 600 RPM THEN check G-05 field breaker closed.
Standard:	G05 field breaker is checked OPEN.
Evaluator Cue:	Cue examinee that G05 is 700 rpm and rising with 41CS Generator Field Breaker OPEN (green).
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 19 Critical <u>Y</u>	IF G-05 field breaker is open, THEN close G-05 field breaker.
Standard:	G05 field breaker CLOSED.
Evaluator Cue:	41CS Generator Field Breaker is CLOSED with Red light LIT and Green light not LIT. If asked, examinee did hear breaker close.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 20 Critical <u>N</u>	Check G-05 Output Breaker -CLOSED H52-GO5
Standard:	Checks position of G05 output breaker.
Evaluator Note:	Examinee checks breaker position and with breaker not closed, examinee should transition to the RNO column of the step.
Evaluator Cue:	H52-GO5 G-05 Output Breaker is OPEN with Green light LIT and Red light not LIT.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 21 Critical <u>Y</u>	Manually close H52-GO5 Place 43ST Synch Mode Selector switch to -MANUAL.
Standard:	Place 43ST sync mode switch to MANUAL.
Evaluator Cue:	43ST Synch Mode Selector switch is in MANUAL.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 22 Critical <u>N</u>	Maintain frequency -60 hz 65 CS Turbine Governor Speed Changer
Standard:	Verify G05 frequency normal.
Evaluator Cue:	Frequency is 60 Hz.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 23 Critical <u>N</u>	Maintain voltage -13.8 kV. 70 CS Exciter Field RHEO Control Switch
Standard:	Verify G05 voltage normal.
Evaluator Cue:	Voltage is 13.8 kV.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

Performance Step: 24 Critical <u>Y</u>	Turn on synch scope. 43SS synchroscope
	Close H52-GO5, GO5 output breaker. 52CS Main Generator Bkr
Standard:	G05 output breaker CLOSED.
Evaluator Cue:	1. 43SS synchroscope is ON
	2. 52CS Main Generator Bkr Red light is LIT and Green light is not LIT.
	3. If asked, examinee did hear breaker close.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 25 Critical <u>N</u>	Turn off synch scope. 43SS synchroscope
Standard:	43SS synchroscope to OFF.
Evaluator Cue:	43SS synchroscope is in OFF.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues:

Stop Time: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Point Beach Nuclear Plant
Job Performance Measure (JPM)

Historical Record:

Rev 0: Developed for the ILT 2009 NRC exam.

Retention: Life of Plant
Retain in: Training Record
Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- There was a fire in the Cable Spreading Room.
- The Crew entered AOP-10A, “Safe Shutdown – Local Control.”
- You are the Third RO and have performed the applicable steps in Attachment B, “Third Reactor Operator Local Actions” up to step B25.

INITIATING CUES (IF APPLICABLE):

- You are to continue performing Attachment B starting at step B26.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

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

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

SITE: Point Beach

JPM TITLE: Perform Local Actions for Isolating a S/G

JPM NUMBER: JPM PBN P000.017.AOT REV. 4

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN P000.017.AOT / Perform Local Actions for Isolating a S/G

K/A NUMBERS: APE 040 AA1.03 (4.3/4.3)

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: NO

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

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

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

PBM PBN P000.017.AOT, Perform Local Actions for Isolating a S/G, Rev. 4

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 PAB Auxiliary Operator.
- Unit 1 has tripped due to a steam leak (Faulted Steam Generator) in containment.
- The crew has identified the steam leak as being from the Unit 1 'A' steam generator.
- The crew is in the process of isolating the Unit 1 'A' steam generator as per EOP-2.

INITIATING CUES (IF APPLICABLE):

- The Unit 1 control operator has directed you to shut the Main Steam Isolation Bypass Valve 1MS-234, which is currently open.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

PBM PBN P000.017.AOT, Perform Local Actions for Isolating a S/G, Rev. 4

JPM PERFORMANCE INFORMATION

Required Materials: **None**

General References: **EOP 2 Unit 1, Faulted Steam Generator Isolation**

Task Standards: **Locally operated valves for isolating the ‘A’ steam generator are shut.**

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, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 Critical Y	Locally shut main steam isolation bypass, 1MS-234 (85’ elevation of the façade).
Standard:	1MS-234 shut.
Evaluator Cue:	1MS-234, main steam isolation bypass valve stem is inserted, Control Operator notified.
Evaluator Cue:	After 1MS-234 is shut, inform trainee that the control operator has directed him to “Locally shut 1P-29/Radwaste steam isolation 1MS-235 and Main steam trap isolation 1MS-228.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

PBM PBN P000.017.AOT, Perform Local Actions for Isolating a S/G, Rev. 4

Performance Step: 2 Critical Y	Locally shut 1P-29/Radwaste steam isolation 1MS-235 (85' elevation of the façade).
Standard:	1MS-235 shut.
Evaluator Cue:	1MS-235, 1P-29/Radwaste steam isolation valve stem is inserted.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical Y	Locally shut main steam trap isolation, 1MS-228 (85' elevation of the façade).
Standard:	1MS-228 is shut.
Evaluator Cue:	1MS-228, main steam trap isolation valve stem is inserted.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 4 Critical N	Notify the control room of the status of the locally operated valves.
Standard:	Control notified.
Evaluator Cue:	The control room acknowledges the report.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: Evolution complete.

Stop Time: _____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

PBM PBN P000.017.AOT, Perform Local Actions for Isolating a S/G, Rev. 4

Historical Record:

Rev. 4 Reformatted to current revision of QF-1075-01. Revised to Rev. 20 of EOP 2, Faulted Steam Generator Isolation.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the PAB Auxiliary Operator.
- Unit 1 has tripped due to a steam leak (Faulted Steam Generator) in containment.
- The crew has identified the steam leak as being from the Unit 1 'A' steam generator.
- The crew is in the process of isolating the Unit 1 'A' steam generator as per EOP-2.

INITIATING CUES (IF APPLICABLE):

- The Unit 1 control operator has directed you to shut the Main Steam Isolation Bypass Valve 1MS-234, which is currently open.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

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 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. Do the performance steps accurately reflect trainee's actions in accordance with plant procedures?	<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"/>	
6. If the task is NOT time critical, 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? Not applicable to Non-Licensed Operators	<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? Not applicable to Non-Licensed Operators	<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"/>	
11. Have all special tools and equipment needed to perform the task been identified?	<input type="checkbox"/>	<input type="checkbox"/>	
12. Are all references identified, current, and accurate?	<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"/>	

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

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

SITE: Point Beach

JPM TITLE: Provide Bearing Cooling to TDAFWP During a Loss of All AC Power

JPM NUMBER: JPM PBN P000.022a.AOT REV. 2

RELATED PRA INFORMATION: None

TASK NUMBERS / TASK TITLE(S): PBN P000.022.AOT / Provide Bearing Cooling To TDAFWP During a Loss of All AC Power

K/A NUMBERS: 2.4.34 (4.2/4.1)

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: Yes

TASK APPLICABILITY: SRO: RO: NLO

Additional signatures may be added as desired.

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

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

JPM PBN P000.022a.AOT, Provide Bearing Cooling to TDAWFP During a Loss of All AC Power, 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 Control Operator.
- A fire has occurred in PAB 26' Central which has caused loss of plant control from the control room.
- AOP-10C, Safe Shutdown Following Fire at PAB 26', is in progress. Attachment C has been completed through step C10.

INITIATING CUES (IF APPLICABLE):

- You are to continue with the performance of Attachment C, Step C11

Retention: Life of Plant
Retain in: Training Record

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JPM PBN P000.022a.AOT, Provide Bearing Cooling to TDAWFP During a Loss of All AC Power, Rev. 1

JPM PERFORMANCE INFORMATION

- Required Materials: 1. AOP-10C, Safe Shutdown Following Fire at PAB 26' Central, Attachment C
2. Diesel Fire Pump Local operator aid.
- General References: 1. AOP-10C, Safe Shutdown Following Fire at PAB 26' Central, Attachment C
2. Diesel Fire Pump Local operator aid.
- Task Standards: 1. The Examinee properly places Steam Driven AFW pumps in service

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, per FP-T-SAT-73, Licensed Operator Requalification Program Examinations.

Performance Step: 1 Critical Y	C11. In AFW Room, Place Turbine-Driven AFW Pumps in Service: a. Open the associated service water suction. <ul style="list-style-type: none">• 1AF-4006 for 1P-29• 2AF-4006 for 2P-29
Standard:	Examinee declutches and opens 1AF-4006 and 2AF-4006
Evaluator Cue:	1AF-4006 handwheel stops turning, stem is extended. 2AF-4006 handwheel stops turning, stem is extended.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

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JPM PBN P000.022a.AOT, Provide Bearing Cooling to TDAWFP During a Loss of All AC Power, Rev. 1

Performance Step: 2 Critical N	b. Check BOTH turbine-driven AFW pump suction pressures – GREATER THAN 7.5 PSIG <ul style="list-style-type: none">• 1PI-4013-B• 2PI-4013-B
Standard:	Examinee checks adequate suction pressure
Evaluator Cue:	1PI-4013-B reads 9 PSIG. 2PI-4013-B reads 9 PSIG.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 3 Critical Y	c. Check service water pressure to turbine-driven AFW pumps – GREATER THAN 10 PSIG. <ul style="list-style-type: none">• PI-4364
Standard:	Examinee checks SW pressure to AFW pumps and performs RNO actions
Evaluator Note:	Examinee should realize that SW pressure is inadequate to supply bearing cooling to TDAFW pumps and perform RNO of step 11.c.
Evaluator Cue:	PI-4364 reads 8 PSIG.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

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JPM PBN P000.022a.AOT, Provide Bearing Cooling to TDAWFP During a Loss of All AC Power, Rev. 1

Performance Step: 4 Critical N	c. RNO Locally start P35B diesel fire pump per local instructions.
Standard:	Examinee proceeds to CW pump house to start P35B.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 5 Critical N	Check the oil level in the diesel driven fire pump, P-35B.
Standard:	The Examinee checks the oil level in the diesel driven fire pump, P-35B adequate for pump run.
Evaluator Cue:	The oil level is “full” for the diesel driven fire pump, P-35B.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

JPM PBN P000.022a.AOT, Provide Bearing Cooling to TDAWFP During a Loss of All AC Power, Rev. 1

Performance Step: 6 **Manually override the fuel shut off valve – turn knurled knob fully clockwise.**
Critical Y

Standard: The Examinee overrides the fuel shut off valve for the diesel driven fire pump, P-35B by turning the knurled knob fully clockwise (as viewed from the knob end of the valve).

- Evaluator Note:
- **The knurled knob is part of the fuel shut off valve assembly, located on the east side of the diesel and is painted orange.**
 - **If the Examinee indicates that he is overriding the fuel shut off valve by turning the black fluted knob (engine rpm adjust), provide the following cue:**
 - **The knob does not turn.**
 - **If the Examinee indicates that he has undone the locking device for the engine rpm adjust, provide the following cue:**
 - **The locking device is disengaged and the knob is rotated fully clockwise.**

Evaluator Cue: The knurled knob is rotated fully clockwise for the diesel driven fire pump, P-35B fuel shut off valve.

Performance: SATISFACTORY UNSATISFACTORY

Comments: _____

JPM PBN P000.022a.AOT, Provide Bearing Cooling to TDAWFP During a Loss of All AC Power, Rev. 1

Performance Step: 7 Critical Y	Manually operate either starter solenoid joystick and start the diesel driven fire pump, P-35B.
Standard:	The Examinee positions either starter solenoid joystick to start the diesel driven fire pump, P-35B.
Evaluator Note:	<ul style="list-style-type: none">• If the Examinee had repositioned the engine rpm adjust (rather than the fuel shutoff valve override), then provide the following cue:<ul style="list-style-type: none">• The diesel driven fire pump, P-35B turns over but does not start.
Evaluator Cue:	<ul style="list-style-type: none">• One or the other starter solenoid joysticks is position to the left to start the diesel driven fire pump, P-35B.• The diesel driven fire pump, P-35B turns over and starts.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 8 Critical N	Monitor diesel fire pump, P-35B cooling flow to the radiator, discharge pressure, and flow from the full flow relief valve.
Standard:	The Examinee monitors cooling flow to the radiator, discharge pressure and flow from the full flow relief valve for the diesel driven fire pump, P-35B.
Evaluator Note:	This completes the plaque instructions. Examinee should now continue in Attachment C.
Evaluator Cue:	<ul style="list-style-type: none">• There is adequate cooling flow to the diesel driven fire pump, P-35 radiator.• The discharge pressure of the diesel driven fire pump, P-35B is 125 psig.• There is flow from the full flow relief valve for the diesel driven fire pump, P-35B.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
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JPM PBN P000.022a.AOT, Provide Bearing Cooling to TDAWFP During a Loss of All AC Power, Rev. 1

Performance Step: 9 Critical N	d. Ensure 1P-29 discharge to B S/G – 10% OPEN <ul style="list-style-type: none">• 1AF-4000
Standard:	Examinee establishes 1AF-4000 to 10% open.
Evaluator Cue:	(prior to closing down on valve) Indicator on 1AF-4000 reads 25% (after examinee declutches valve and turns handwheel clockwise) Indicator on 1AF-4000 reads 10%.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 10 Critical N	e. Shut 1P-29 discharge to A S/G <ul style="list-style-type: none">• 1AF-4001
Standard:	Examinee shuts 1AF-4001
Evaluator Cue:	1AF-4001 handwheel stops turning, indicator reads 0%
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Retention: Life of Plant
Retain in: Training Record

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JPM PBN P000.022a.AOT, Provide Bearing Cooling to TDAWFP During a Loss of All AC Power, Rev. 1

Performance Step: 11 Critical N	f. Ensure 2P-29 discharge to B S/G – 10% OPEN <ul style="list-style-type: none">• 2AF-4000
Standard:	Examinee establishes 2AF-4000 to 10% open.
Evaluator Cue:	(prior to closing down on valve) Indicator on 2AF-4000 reads 25% (after examinee declutches valve and turns handwheel clockwise) Indicator on 2AF-4000 reads 10%.
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Performance Step: 12 Critical N	g. Shut 2P-29 discharge to A S/G <ul style="list-style-type: none">• 2AF-4001
Standard:	Examinee shuts 2AF-4001
Evaluator Cue:	2AF-4001 handwheel stops turning, indicator reads 0%
Performance:	SATISFACTORY <input type="checkbox"/> UNSATISFACTORY <input type="checkbox"/>
Comments:	_____

Terminating Cues: This evolution is complete.

Stop Time: _____

JPM PBN P000.022a.AOT, Provide Bearing Cooling to TDAWFP During a Loss of All AC Power, Rev. 1

Historical Record:

Rev.1 Reformatted to current revision of QF-1075-01. Revised to Rev. 6 of AOP 10C, Safe Shutdown Following Fire at PAB 26' Central.

Retention: Life of Plant
Retain in: Training Record

Form retained in accordance with record retention schedule identified in NP 1.3.1.

Job Performance Measure (JPM)

TURNOVER SHEET

INITIAL CONDITIONS:

- You are the Unit 1 Control Operator.
- A fire has occurred in PAB 26' Central which has caused loss of plant control from the control room.
- AOP-10C, Safe Shutdown Following Fire at PAB 26', is in progress. Attachment C has been completed through step C10.

INITIATING CUES (IF APPLICABLE):

- You are to continue with the performance of Attachment C, Step C11

Retention: Life of Plant
Retain in: Training Record

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Job Performance Measure (JPM)

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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input 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

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