Exelon Generation.

# Job Performance Measure

# Reset 1C Diesel Generator After an Overspeed Trip

JPM Number: ___JPM451___

Revision Number: ___05___

Date: ___8/19/2020___

Developed By: ___Matt Beeler___ / _____ ___8/19/20___
Instructor: Print / Sign                                              Date

Reviewed By: ___Brian Wunsch___ / _____ ___10/16/20___
SME or Instructor: Print / Sign                                     Date

Reviewed By: ___Tim Windingland___ / _____ ___3/11/21___
Operations Representative: Print / Sign                             Date

Approved By: ___Matthew Beeler___ / _____ ___3/11/21___
Training Department: Print / Sign                                  Date

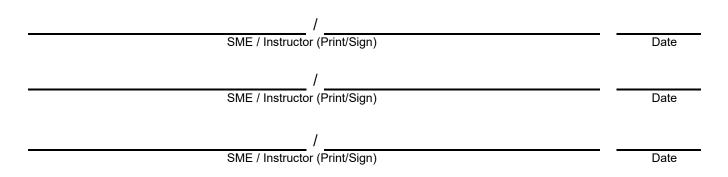SRRS: 3D.105 (when utilized for operator initial or continuing training)

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

> **NOTE:** 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 instructor or SME review.

7.  Critical steps meet the criteria for critical steps and are identified with an asterisk (*).

8.  IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured.

9.  Verify the procedure(s) referenced by this JPM reflects the current revision:
    Procedure: CPS 3506.01      Revision: 40a
    Procedure: _____      Revision: _____
    Procedure: _____      Revision: _____
    Procedure: _____      Revision: _____

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. For subsequent validations, sign and date below:

_____ / _____     _____
SME / Instructor (Print/Sign)                        Date

_____ / _____     _____
SME / Instructor (Print/Sign)                        Date

_____ / _____     _____
SME / Instructor (Print/Sign)                        Date

## Revision Record (Summary)

| Revision # | Summary |
|:---:|:---|
| 00 | 4/11/11 - New JPM. |
| 01 | 7/17/12 - Minor revision due to procedure revision. |
| 02 | 10/9/14 - Revision due to procedure and template revision. |
| 03 | 6/30/16 - Updated procedure references. |
| 04 | 11/9/17 - Updated to new JPM template.  Updated procedure references. |
| 05 | 8/19/20 - Updated to new JPM template.  Updated procedure references. |

**SETUP INSTRUCTIONS**

1.  This is an in-plant JPM.  No simulator setup is required.

## INITIAL CONDITIONS

You are an Extra Operator.

The Division III Diesel Generator tripped, due to an overspeed condition, while performing a post maintenance test run. The cause of the overspeed trip has been determined and corrected.

## INITIATING CUE

Reset the Division III Diesel Generator overspeed trip per CPS 3506.01, section 8.4.5.

Inform the CRS after completing the task.

NOTE: All pre-job briefings are complete.

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.

* 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.

Ensure the examinee understands the following ground rules:

- No equipment or controls will be manipulated during this evaluation, only **SIMULATED** actions will occur.

- Do NOT shine any type light into a panel.

The timeclock starts when the candidate acknowledges the initiating cue.
- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

SRRS: 3D.100; There are no retention requirements for this section

**Exelon** Generation.

JPM Start Time: _____   JPM Sequence #: _____   of _____

| Task Standard: |
| --- |
| The examinee will latch the DG 1C overspeed reset lever and reset the lockout relays to return DG 1C to operation following an overspeed trip. |

| STEP | ELEMENT | STANDARD | SAT | UNSAT | Comment Number |
| --- | --- | --- | --- | --- | --- |
| CUE | Provide the examinee with the **Cue Sheet** and the following:<br><br>• CPS 3506.01 Diesel Generator and Support Systems (DG). | | | | |
| NOTE: | Do NOT allow the examinee to climb on the DG platforms.<br><br>Simulations should be verbalized from the floor. | | | | |
| CUE | IF the examinee attempts to move the Reset Lever without repositioning the overspeed switch finger, then:<br><br>• cue the operator that the Reset Lever doesn't move (the examinee should figure out what is restricting the required movement).<br><br>When the examinee re-latches the overspeed reset lever, cue him/her:<br><br>• Overspeed switch finger is moved towards engine centerline.<br><br>• Reset Lever is moved down and latched. | | | | |
| **\*01** | 8.4.5.1-8.4.5.2<br><br>Re-latches the DG 1C overspeed reset lever. | **Examinee simulates:**<br><br>• **Pushing the overspeed switch finger towards engine centerline.**<br><br>• **Pulling down strongly (counter-clockwise) on the overspeed reset lever until it stops and latches.** | ☐ | ☐ | ___ |

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

| STEP | ELEMENT | STANDARD | SAT | UNSAT | Comment Number |
|---|---|---|---|---|---|
| 02 | 8.4.5.3<br><br>Verifies overspeed switch shaft/finger are positioned correctly. | Examinee verifies match-marks are aligned on the overspeed switch shaft/finger. | ☐ | ☐ | ___ |
| NOTE: | Step 8.4.5.4 is N/A for DG 1C.<br><br>Step 8.4.5.5 directs operator to reset lockout relays per section 8.4.6. | | | | |
| *03 | 8.4.6.1<br><br>Resets DG 1C engine safety shutdown relays. | **Examinee locates, and simulates depressing the Safety RESET push-button (S-7) on 1E22-S001B.** | ☐ | ☐ | ___ |
| NOTE: | Step 8.4.6.2 is N/A for DG 1C.<br><br>Holding Engine/Generator Lockout in reset for greater than 2 seconds will damage the lockout relay. | | | | |
| CUE | When the examinee rotates the lockout relay handle in the correct direction (CLOCKWISE), cue him/her:<br><br>• The handle is rotating in the direction you have indicated.  Handle is latched.  White light is on.<br><br>OTHERWISE, if the examinee attempts to rotates the lockout relay handle in the wrong direction (COUNTER-CLOCKWISE), cue him/her:<br><br>• The handle does not rotate in the direction you have indicated.  Handle is <u>not</u> latched.  White light is out. | | | | |
| *04 | 8.4.6.3.1<br><br>Resets DG 1C lock-out relay (86 device). | **Examinee locates DG Lockout Relay (86 device) on 1E22-S001B and simulates rotating handle in CLOCKWISE direction until latched, but <u>not greater than 2 seconds</u>.** | ☐ | ☐ | ___ |
| CUE | When the examinee locates lockout relay 1E22B-K1 (86G device) on 1H22-P028 cue him/her:<br><br>• Blue light is ON, white light is OUT, Switch is vertical and black flagged. | | | | |

| STEP | ELEMENT | STANDARD | SAT | UNSAT | Comment Number |
|------|---------|----------|-----|-------|----------------|
| 05 | 8.4.6.3.2<br><br>Verifies status of DG 1C 1E22B-K1 (86G device). | Examinee locates Lockout Relay 1E22B-K1 (86G device) on 1H22-P028 and verifies Lockout Relay 1E22B-K1 (86G device) is reset (blue light ON, white light OUT). | ☐ | ☐ | ___ |
| CUE | JPM is complete. | | | | |

JPM Stop Time: _____

.......................................................................

## JPM SUMMARY

**Operator's Name:** _____  **Emp. ID#:** _____

**Job Title**:  ☐ EO  ☐ RO  ☐ SRO  ☐ FS  ☐ STA/IA  ☐ SRO Cert

JPM Title: Reset 1C Diesel Generator After an Overspeed Trip

JPM Number: JPM451                           Revision Number: 05

Task Number and Title: 350601.32 Reset Overspeed Trip Device

Task Standard:  The examinee will latch the DG 1C overspeed reset lever and reset the lockout relays to return DG 1C to operation following an overspeed trip.

K/A Number and Importance:

| K/A System | K/A Number | Importance (RO/SRO) ||
|:---:|:---:|:---:|:---:|
| 264000 | 2.1.30 | 4.4 | 4.0 |

Suggested Testing Environment: Plant

Alternate Path: ☐ Yes  ☒ No     SRO Only: ☐ Yes  ☒ No     Time Critical: ☐ Yes  ☒ No

Reference(s):

   Procedure:  CPS 3506.01               Revision:    40a

**Actual Testing Environment:**  ☐ Simulator     ☐ Control Room     ☒ In-Plant     ☐ Other

**Testing Method:**  ☐ Simulate     ☐ Perform

**Estimated Time to Complete:**    15    minutes     **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily?          ☐ Yes          ☐ No

The operator's performance was evaluated against standards
contained within this JPM and has been determined to be:     ☐ Satisfactory  ☐ Unsatisfactory

**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).

**Evaluator's Name** (Print): _____

**Evaluator's Signature**: _____     **Date**: _____

## INITIAL CONDITIONS

You are an Extra Operator.

The Division III Diesel Generator tripped, due to an overspeed condition, while performing a post maintenance test run. The cause of the overspeed trip has been determined and corrected.

## INITIATING CUE

Reset the Division III Diesel Generator overspeed trip per CPS 3506.01, section 8.4.5.

Inform the CRS after completing the task.

NOTE: All pre-job briefings are complete.

Exelon Generation.

# Job Performance Measure

## Place an IA Ring Header Automatic Isolation Valve into Service

JPM Number:     JPM428

Revision Number:     02

Date:    8/25/2020

| | | | |
|---|---|---|---|
| Developed By: | Matt Beeler | / | 8/25/20 |
| | Instructor: Print / Sign | | Date |

| | | | |
|---|---|---|---|
| Reviewed By: | Brian Steele | / | 10/01/21 |
| | SME or Instructor: Print / Sign | | Date |

| | | | |
|---|---|---|---|
| Reviewed By: | Tim Windingland | / | 3/11/21 |
| | Operations Representative: Print / Sign | | Date |

| | | | |
|---|---|---|---|
| Approved By: | Matthew Beeler | / | 3/11/21 |
| | Training Department: Print / Sign | | Date |

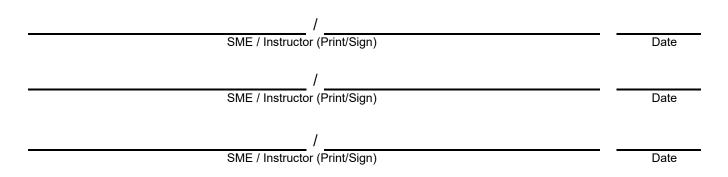SRRS: 3D.105 (when utilized for operator initial or continuing training)

# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

> **NOTE:** 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 instructor or SME review. _____

7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*). _____

8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured. _____

9. Verify the procedure(s) referenced by this JPM reflects the current revision:
   Procedure:  CPS 3214.01 _____        Revision:  27c _____
   Procedure: _____        Revision: _____
   Procedure: _____        Revision: _____
   Procedure: _____        Revision: _____

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. For subsequent validations, sign and date below: _____

_____ / _____   _____
SME / Instructor (Print/Sign)                                  Date

_____ / _____   _____
SME / Instructor (Print/Sign)                                  Date

_____ / _____   _____
SME / Instructor (Print/Sign)                                  Date

## Revision Record (Summary)

| Revision # | Summary |
|:---:|:---|
| 00 | 7/28/20 - Updated references and JPM number (32140120NSN01) |
| 01 | 6/23/15 - Updated Format.  Updated Procedure Revision Number. |
| 02 | 8/19/20 - Updated to new JPM template.  Updated procedure references. |

**SETUP INSTRUCTIONS**

1.  This is an in-plant JPM.  No simulator setup is required.

## INITIAL CONDITIONS

You are an extra Operator.

The Control Building IA ring header has automatically isolated due to a leak on the Radwaste Building ring header.  The leak has been subsequently repaired.


## INITIATING CUE

Restore the Control Building IA ring header to service in accordance with CPS No. 3214.01, PLANT AIR (IA & SA), section 8.2.1.5, by supplying air from the Aux/Fuel Building IA Ring Header.

Inform the MCR when the task is complete.

NOTE: All pre-job briefings are complete.


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

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**Information For Evaluator's Use:**

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.

Ensure the examinee understands the following ground rules:

- No equipment or controls will be manipulated during this evaluation, only **SIMULATED** actions will occur.

- Do NOT shine any type light into a panel.

The timeclock starts when the candidate acknowledges the initiating cue.
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JPM Start Time: _____ JPM Sequence #: _____ of _____

| Task Standard: |
| --- |
| The examinee will place an IA Ring Header Automatic Isolation Valve into Service IAW CPS No. 3214.01 rev. 26d, PLANT AIR (IA & SA). |

| STEP | ELEMENT | STANDARD | SAT | UNSAT | Comment Number |
| --- | --- | --- | --- | --- | --- |
| CUE | Provide the examinee with the **Cue Sheet** and a copy of CPS 3214.01 Plant Air (IA & SA). | | | | |
| *01 | 8.2.1.5.1<br><br>Opens one or both of the auto isolation valve bypasses as necessary to slowly repressurize the ring header. | **Examinee locates and simulates operating (<u>slowly per caution</u>) 1IA024, Auto Isolation Bypass.**<br><br>**Examinee throttles 1IA024 by slowly turning handwheel in the CCW direction. The valve does <u>not</u> have to be opened completely.** | ☐ | ☐ | ___ |
| CUE | Pressure indicator 1PI-IA055 shows an increasing pressure (1PI-IA055 is on left hand side if facing the Aux Bldg). | | | | |
| 02 | 8.2.1.5.2<br><br>Waits until the isolated ring header pressure is 70 psig or above and equalized across the auto isolation valves. | Examinee locates pressure gages and verifies pressure has equalized. | ☐ | ☐ | ___ |
| CUE | After several seconds - 1PI-IA055 reads nearly the same pressure as indicated on 1PI-IA054.<br>If requested, flow noise has died off to near nothing.<br><br>If requested, Low Pressure Control Building IA Ring Header annunciator has cleared. | | | | |

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

| STEP | ELEMENT | STANDARD | SAT | UNSAT | Comment Number |
|------|---------|----------|-----|-------|----------------|
| **\*03** | 8.2.1.5.3 <br><br> Returns the Latch/Unlatch lever arm to the Latch Position. | **Examinee locates and simulates moving the lever to the latch position for 1IA022.** | ☐ | ☐ | ___ |
| CUE | Lever arm is latched and holding. | | | | |
| 04 | 8.2.1.5.4 <br><br> Verifies the auto isolation valve opens. | Examinee locates 1IA022 and observes valve position indication to verify open. | ☐ | ☐ | ___ |
| CUE | Component is in the position described. | | | | |
| **\*05** | 8.2.1.5.5 <br><br> Closes or checks closed the auto isolation valve bypasses. | **Examinee locates and simulates turning 1IA024 handwheel clockwise until it stops turning.** | ☐ | ☐ | ___ |
| CUE | 1IA024 handwheel stops moving. | | | | |
| 06 | 8.2.1.5.6 <br><br> Restores air loads as necessary. | Examinee inquires if there are any loads that need to be restored at this time. | ☐ | ☐ | ___ |
| CUE | No further loads are required to be placed in service. | | | | |
| CUE | JPM is complete. | | | | |

JPM Stop Time: _____

. . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . . .

**JPM SUMMARY**

**Operator's Name:** _____  **Emp. ID#:** _____

**Job Title**:  ☐ EO  ☐ RO  ☐ SRO  ☐ FS  ☐ STA/IA  ☐ SRO Cert

JPM Title: Place an IA Ring Header Automatic Isolation Valve Into Service

JPM Number: JPM428                    Revision Number: 02

Task Number and Title: 321401.20 – Repressurize an Isolated Ring Header.

Task Standard: The examinee will place an IA Ring Header Automatic Isolation Valve Into Service IAW CPS No. 3214.01 rev. 26d, PLANT AIR (IA & SA).

K/A Number and Importance:

| K/A System | K/A Number | Importance (RO/SRO) | |
|---|---|---|---|
| 295019 | AA1.02 | 3.3 | 3.1 |

Suggested Testing Environment: Plant

Alternate Path: ☐ Yes  ☒ No    SRO Only: ☐ Yes  ☒ No    Time Critical: ☐ Yes  ☒ No

Reference(s):

   Procedure:  CPS 3214.01 _____    Revision:  __27c__

**Actual Testing Environment:** ☐ Simulator    ☐ Control Room    ☒ In-Plant    ☐ Other

**Testing Method:**  ☐ Simulate  ☐ Perform

**Estimated Time to Complete:** __10__ minutes    **Actual Time Used:** _____ minutes

EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily?        ☐ Yes        ☐ No

The operator's performance was evaluated against standards
contained within this JPM and has been determined to be:    ☐ Satisfactory  ☐ Unsatisfactory

**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the associated TQ-AA-150-F03A/B. (See AR 4282419).

**Evaluator's Name** (Print): _____

**Evaluator's Signature**: _____    **Date**: _____

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

## INITIAL CONDITIONS

You are an extra Operator.

The Control Building IA ring header has automatically isolated due to a leak on the Radwaste Building ring header. The leak has been subsequently repaired.


## INITIATING CUE

Restore the Control Building IA ring header to service in accordance with CPS No. 3214.01, PLANT AIR (IA & SA), section 8.2.1.5, by supplying air from the Aux/Fuel Building IA Ring Header.

Inform the MCR when the task is complete.

NOTE: All pre-job briefings are complete.

# Job Performance Measure

# RSP – Div 2 LPCI Operation

JPM Number: <u>JPM533</u>

Revision Number: <u>03</u>

Date: <u>8/24/2020</u>

| Developed By: | <u>Matt Beeler</u> / <u>                    </u> | <u>8/24/20</u> |
|---|---|---|
| | Instructor: Print / Sign | Date |

| Reviewed By: | <u>Brian Wunsch</u> / <u>                    </u> | <u>10/16/20</u> |
|---|---|---|
| | SME or Instructor: Print / Sign | Date |

| Reviewed By: | <u>Tim Windingland</u> / <u>                    </u> | <u>3/11/21</u> |
|---|---|---|
| | Operations Representative: Print / Sign | Date |

| Approved By: | <u>Matthew Beeler</u> / <u>                    </u> | <u>3/11/21</u> |
|---|---|---|
| | Training Department: Print / Sign | Date |

SRRS: 3D.105 (when utilized for operator initial or continuing training)
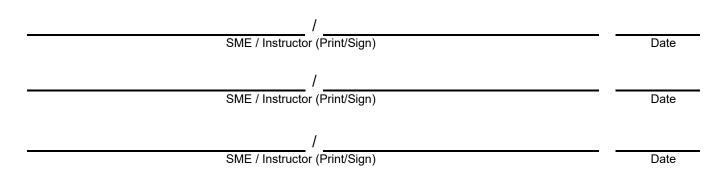
# JOB PERFORMANCE MEASURE VALIDATION CHECKLIST

> **NOTE:** 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 instructor or SME review.  _____

7. Critical steps meet the criteria for critical steps and are identified with an asterisk (*).  _____

8. IAW NUREG 1021 Appendix C, clearly identify the task standard (i.e., the predetermined qualitative or quantitative outcome) against which task performance will be measured.  _____

9. Verify the procedure(s) referenced by this JPM reflects the current revision:
   Procedure:  CPS 4003.01C011     Revision: _1a_
   Procedure:  _____     Revision: _____
   Procedure:  _____     Revision: _____
   Procedure:  _____     Revision: _____

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. For subsequent validations, sign and date below:  _____


_____ / _____    _____
SME / Instructor (Print/Sign)                 Date

_____ / _____    _____
SME / Instructor (Print/Sign)                 Date

_____ / _____    _____
SME / Instructor (Print/Sign)                 Date

## Revision Record (Summary)

| Revision # | Summary |
|:---:|:---|
| 00 | 6/23/15 - New JPM. |
| 01 | 9/26/17 - Updated to reflect support of Time Sensitive Action 18.  Minor Revision to add a tie to the time sensitive action #18. |
| 02 | 3/6/18 - Updated procedure references and JPM template. |
| 03 | 8/24/20 - Updated to new JPM template.  Updated procedure references. |

**Corrective Action AR#03969254**

**This training material supports the demonstration/execution of Time Sensitive Action 18.  Do NOT change this material without reviewing OP-AA-102-106 Operator Response Time Program and OP-CL-102-106-1001 Operator Response Time Master List at CPS to verify that any changes made do not affect the demonstration/execution of Time Sensitive Action 18.**

## SETUP INSTRUCTIONS

1. This is an in-plant JPM. No simulator setup is required.

## INITIAL CONDITIONS

A plant transient has occurred.

The plant is shutdown with High Pressure Core Spray and Reactor Core Isolation Cooling inoperable.  4160V Bus 1A1 has de-energized due to a fault.  Automatic Depressurization System was activated due to Reactor Coolant leak into the Secondary Containment.  The Main Control Room had to be abandoned due to a major fire.

The Remote Shutdown Panel (RSP) is manned and an additional Operator has been dispatched to AB 707' to support you as required.

You are an Extra Operator.


## INITIATING CUE

Inject into the RPV using CPS 4003.01C011, RSP – Div 2 LPCI Operation Section 4.0, DIV 2 LPCI STARTUP.

Report to the CRS when Div 2 LPCI is injecting to the RPV.


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.

  \*  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.

Ensure the examinee understands the following ground rules:

- No equipment or controls will be manipulated during this evaluation, only **SIMULATED** actions will occur.

- Do <u>NOT</u> shine any type light into a panel.

The timeclock starts when the candidate acknowledges the initiating cue.

SRRS: 3D.100; There are no retention requirements for this section

Exelon Generation.

JPM Start Time: _____   JPM Sequence #: _____   of _____

| Task Standard: |
| --- |
| The examinee will inject into the RPV using Div 2 LPCI from the Remote Shutdown Panel. |

| STEP | ELEMENT | STANDARD | SAT | UNSAT | Comment Number |
| --- | --- | --- | --- | --- | --- |
| CUE | Provide the examinee with the **Cue Sheet** and a copy of CPS 4003.01C011 RSP – Div 2 LPCI Operation. | | | | |
| NOTE: | Do NOT allow the Examinee to remove items from the RSP supply podium. | | | | |
| CUE | Required items from the RSP supply podium are in the examinee's possession. | | | | |
| 01 | 4.1<br>Opens 1E12-F004B, RHR PUMP 1B SUCT VLV. | At AB MCC 1B2 Cub 5C (1AP76E5C), AB 781' West, Examinee verifies red light is ON and green light is OFF for 1E12-F004B, RHR PUMP 1B SUCT VLV. | ☐ | ☐ | ___ |
| CUE | Component is in the position described. | | | | |
| *02 | 4.2<br>Starts RHR PUMP 1B, 1E12-C002B. | **At 4160V Bus 1B1 Cub D (1AP09ED), AB 781' West, Examinee moves the REMOTE SHUTDOWN CIRCUIT BREAKER CONTROL handswitch to "CLOSE".** | ☐ | ☐ | ___ |
| CUE | When switch is repositioned, red light is ON and green light is OFF. | | | | |
| NOTE: | For the following steps, cues will be provided when requested from the Operator who was dispatched to AB 707'. Steps 4.4.1 and 4.4.2 may be performed more than once. | | | | |

| STEP | ELEMENT | STANDARD | SAT | UNSAT | Comment Number |
|------|---------|----------|-----|-------|----------------|
| 03 | 4.3<br><br>Verifies RHR PUMP ROOM 1B SUPPLY FAN, 1VY06C starts. | Examinee contacts the Operator in AB 707' and requests status of 1VY06C. | ☐ | ☐ | ___ |
| CUE | 1VY06C is running. | | | | |
| 04 | 4.4<br><br>Monitors the RHR Pump B for proper D/P. | Examinee contacts the Operator in AB 707' and requests RHR B pump D/P. | ☐ | ☐ | ___ |
| CUE | RHR pump D/P is 374 psid. | | | | |
| 05 | 4.4<br><br>Monitors the RHR Pump B minimum flow valve for proper operation. | Examinee determines 1E12-F064B, RHR PUMP 1B MIN FLOW VLV should be open.<br><br>At AB MCC 1B2 Cub 8C (1AP76E8C), AB 781' West, Examinee verifies red light is ON and green light is OFF for 1E12-F064B, RHR PUMP 1B MIN FLOW VLV. | ☐ | ☐ | ___ |
| CUE | The component is in the position described. | | | | |
| NOTE: | For the following step, cue for RPV pressure will be provided when requested from the Operator at the RSP. | | | | |

| STEP | ELEMENT | STANDARD | SAT | UNSAT | Comment Number |
|------|---------|----------|-----|-------|----------------|
| **\*06** | 4.5<br><br>Aligns RHR B for injection when RPV pressure < 472 psig. | Examinee contacts the Operator at the RSP and requests RPV pressure.<br><br>At AB MCC 1B3 Cub 8C (1AP77E8C), AB 781' West, **Examinee opens 1E12-F042B, RHR PUMP 1B LPCI CNMT VLV.** | ☐ | ☐ | ___ |
| CUE | When the examinee requests RPV pressure, respond that RPV pressure is 250 psig and lowering.<br><br>If requested, the as-found condition of 1E12-F042B is red light is OFF and green light is ON.<br><br>(when switch is repositioned) – red light is ON and green light is ON.<br><br>(20 seconds later) – red light is ON and green light is OFF.<br><br>If requested, state "pump D/P is 250 psid and 1E12-F064B indicates shut". | | | | |
| 07 | Reports to the CRS that Div 2 LPCI is injecting to the RPV. | Examinee reports to the CRS that Div 2 LPCI is injecting to the RPV. | ☐ | ☐ | ___ |
| CUE | JPM is complete. | | | | |

JPM Stop Time: _____

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![Exelon Generation logo]

## JPM SUMMARY

**Operator's Name:** _____ **Emp. ID#:** _____

**Job Title**:  ☐ EO  ☐ RO  ☐ SRO  ☐ FS  ☐ STA/IA  ☐ SRO Cert

JPM Title: RSP – Div 2 LPCI Operation

JPM Number: JPM533          Revision Number: 03

Task Number and Title: 400301.04 Remote Shutdown Panel tasks that DO Require MCR Evacuation (licensed task).

Task Standard:  The examinee will inject into the RPV using Div 2 LPCI from the Remote Shutdown Panel.

K/A Number and Importance:

| K/A System | K/A Number | Importance (RO/SRO) | |
|:---:|:---:|:---:|:---:|
| 295016 | A1.07 | 4.2 | 4.3 |

Suggested Testing Environment: Plant

Alternate Path: ☐ Yes  ☒ No     SRO Only: ☐ Yes  ☒ No     Time Critical: ☐ Yes  ☒ No

Reference(s):

   Procedure:  CPS 4003.01C011          Revision:  1a

**Actual Testing Environment:** ☐ Simulator     ☐ Control Room     ☒ In-Plant     ☐ Other

**Testing Method:**  ☐ Simulate   ☐ Perform

**Estimated Time to Complete:**  20  minutes     **Actual Time Used:** _____ minutes

### EVALUATION SUMMARY:

Were all the Critical Elements performed satisfactorily?          ☐ Yes          ☐ No

The operator's performance was evaluated against standards
contained within this JPM and has been determined to be:          ☐ Satisfactory  ☐ Unsatisfactory

**NOTE:** Enter finalized grading, comments, and notes relevant to this evaluation in the
            associated TQ-AA-150-F03A/B. (See AR 4282419).

**Evaluator's Name** (Print): _____

**Evaluator's Signature**: _____   **Date**: _____

## INITIAL CONDITIONS

A plant transient has occurred.

The plant is shutdown with High Pressure Core Spray and Reactor Core Isolation Cooling inoperable.  4160V Bus 1A1 has de-energized due to a fault.  Automatic Depressurization System was activated due to Reactor Coolant leak into the Secondary Containment.  The Main Control Room had to be abandoned due to a major fire.

The Remote Shutdown Panel (RSP) is manned and an additional Operator has been dispatched to AB 707' to support you as required.

You are an Extra Operator.


## INITIATING CUE

Inject into the RPV using CPS 4003.01C011, RSP – Div 2 LPCI Operation Section 4.0, DIV 2 LPCI STARTUP.

Report to the CRS when Div 2 LPCI is injecting to the RPV.