

JOB PERFORMANCE MEASURE SETUP SHEET**System: Administrative****Time Critical: No****Applicability: RO****Safety Function: Conduct of Operations****Setting: Classroom, New****Validated: 10 minutes****References: NOP-LP-1002 Rev 9****Tasks: Evaluate proposed work schedule against established overtime guidelines****Task #: 299-893-03-01****K / A Data: 2.1.5 Ability to use procedures related to shift staffing, such as minimum crew complement, overtime limitations, etc.**

1. Instructions: NA
2. Location / Method: Class Room / Administrative performance.
3. Initial Condition: The Plant is operating at 100% power. Operations section shift manning is being severely affected due to a flu outbreak. All healthy Reactor Operators are being scheduled to work extra hours in order to cover the shifts. Listed below is your proposed work schedule for the next ten days.

Note: All Work hours shown excludes turnover time.

Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun	Mon	Tues
1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20
Off	Off	12-24	12-24	12-24	12-24	14-22	07-19	Off	07-19

4. Initiating Cue: As a Reactor Operator, determine if you can work the proposed schedule without any additional authorization.

JPM CUE SHEET

<p>INITIAL CONDITIONS:</p>	<p>The Plant is operating at 100% power. Operations section shift manning is being severely affected due to a flu outbreak. All healthy Reactor Operators are being scheduled to work extra hours in order to cover the shifts. Listed below is your proposed work schedule for the next ten days.</p> <p>Note: All Work hours shown <u>excludes</u> turnover time.</p> <table border="0"> <tr> <td>Sun</td> <td>Mon</td> <td>Tues</td> <td>Wed</td> <td>Thu</td> <td>Fri</td> <td>Sat</td> <td>Sun</td> <td>Mon</td> <td>Tues</td> </tr> <tr> <td>1/11</td> <td>1/12</td> <td>1/13</td> <td>1/14</td> <td>1/15</td> <td>1/16</td> <td>1/17</td> <td>1/18</td> <td>1/19</td> <td>1/20</td> </tr> <tr> <td>Off</td> <td>Off</td> <td>12-24</td> <td>12-24</td> <td>12-24</td> <td>12-24</td> <td>14-22</td> <td>7-19</td> <td>Off</td> <td>7-19</td> </tr> </table>	Sun	Mon	Tues	Wed	Thu	Fri	Sat	Sun	Mon	Tues	1/11	1/12	1/13	1/14	1/15	1/16	1/17	1/18	1/19	1/20	Off	Off	12-24	12-24	12-24	12-24	14-22	7-19	Off	7-19
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<p>INITIATING CUE:</p>	<p>As a Reactor Operator, determine if you can work the proposed schedule <u>without</u> any additional authorization.</p>																														

JPM BODY SHEET

Standard: Performer obtains or simulates obtaining all materials, procedures, tools, keys, radios, etc... before performing task.

Standard: Performer follows management expectations with regards to safety and communication standards.

Evaluator Note:

Ensure computers are using the Training logon.

Step 1

- 4.15.4 The limits and controls placed on working hours are applicable to all plant and contractor personnel with the exception of the FENOC Executive Leadership Team (ELT). Working hours shall be controlled as specified in each plant's licensing documents, and may be supplemented as directed by site management.
1. An individual should not work more than 16 hours straight (excluding shift turnover or travel time).
 2. An individual should not work more than 16 hours in any 24 hour period, 24 hours in any 48 hour period, or 72 hours in any 7 day period (excluding shift turnover or travel time).
 3. A break of at least eight hours should be allowed between work periods. (Shift turnover time should not be part of the eight hour break period.)
 4. Except during extended shutdown periods, the use of excessive working hours should be considered on an individual basis and not for the entire staff or crew on shift.
 5. The crew performing fuel loading operations should not normally be expected to work more than 12 hours out of each 24 hour period when scheduled for consecutive daily duty.
- 4.15.5 Deviation from the above guidelines shall normally not be required during times when the plant is operating and adequate shift coverage is available. Exceptions to this policy may include a Limiting Condition for Operation (LCO), Emergency Plan activation or callout, or other significant need to maintain safe plant operation, to maintain shift complement, or maintain production capability.

Standard: Evaluates the proposed schedule

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 2

Determines he will need a need Technical Specification Working Hour Deviation request.

Critical Step: Determines he will need a need Technical Specification Working Hour Deviation request.

Instructor Cue: Question candidate on which working hour guideline he fails to meet.

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 3

Candidate determines which working hour guideline he fails to meet.

Critical Step: Determines he will exceed 24 hours in a 48 hour period. From Friday to Sunday. From Noon on Tuesday until Noon on the next Tuesday will exceed 72 in 7 days.

Instructor Cue: None

Notes: From Noon on Friday to Noon on Sunday.

SAT ___ **UNSAT** ___

Comment(s): _____

Terminating Cue: Candidate determines that a Technical Specification Overtime Deviation request is required for 24 hours in a 48 hour period or 72 hours in a 7 Day period.

Evaluation Results: **SAT**_____ **UNSAT**_____

JOB PERFORMANCE MEASURE SETUP SHEET**System: Administrative****Time Critical: No****Applicability: RO****Safety Function: Conduct of Operations****Setting: Control Room or Simulator, New****Validated: 15 minutes****References: SVI-B33-T1160 Revision 5****Tasks: Perform SVI-B33-T1160****Task #: 283-507-01-01****K / A Data: 2.1.19 Ability to use plant computers to evaluate system or component status.**

1. Instructions: If performing in the Control Room ensure Reactor Power is greater than 25%. If in simulator any IC with power greater than 25%.
2. Location / Method: Control Room or Simulator / Administrative performance.
3. Initial Condition: Reactor Power has been greater than 25% for more than several weeks. All other conditions are as found.
4. Initiating Cue: Perform SVI-B33-T1160 for daily surveillance requirement.

JPM CUE SHEET

<p>INITIAL CONDITIONS:</p>	<p>Reactor Power has been greater then 25% for more than several weeks. All other conditions are as found.</p>
<p>INITIATING CUE:</p>	<p>Perform SVI-B33-T1160 for daily surveillance requirement.</p>

JPM BODY SHEET

Standard: Performer obtains or simulates obtaining all materials, procedures, tools, keys, radios, etc... before performing task.

Standard: Performer follows management expectations with regards to safety and communication standards.

Evaluators Note: If asked, 'Established Patterns' have been established.

Step 1**4.0 PREREQUISITES**

1. Mark the Unit Supervisor's "Authorization to Start Prerequisites" signature N/A on the Data Package Cover Sheet (DPCS) and initial.
2. Confirm that the plant is operating in MODE 1 with THERMAL POWER > 25% RTP.
3. Confirm that the recirculation flow is steady; and indicate the configuration of the recirculation loops:
 - a. Loop A (only) in operation, with recirculation flow control in loop manual.
 - b. Loop B (only) in operation, with recirculation flow control in loop manual.
 - c. Both recirculation loops in fast speed operation, with recirculation loop jet pump flow mismatch within the limits of SR 3.4.1.1.
 - d. Both recirculation loops in slow speed operation, with recirculation loop jet pump flow mismatch within the limits of SR 3.4.1.1.
4. When using plant computer points or ICS SDS screens, verify no other maintenance or testing is in progress which would affect recirculation flow indication.

Critical Step: Marks the correct Recirculation configuration will be either C or D.

Instructor Cue: No other maintenance or testing is in progress which would affect recirculation flow indication

Notes: If in Control Room **will have to verify with Reactor Operator** that no other testing or maintenance is in progress.

SAT ___ **UNSAT** ___

Comment(s): _____

Step 2

5.0 SURVEILLANCE INSTRUCTION

5.1 Surveillance Test

1. Notify the Reactor Operator before starting and write “R.O. (operator’s name) notified” in the “Authorization to Start Test” signature on the DPCS. Record the time and date and initial the line.

5.1.1 Recirculation Loop Drive Flow vs. FCV Position

1. Determine the relationship between each operating recirculation loop drive flow and the corresponding flow control valve position, and indicate the method used.

If using ICS SDS, attach a copy of the screen that is appropriate for the recirculation loop configuration indicated in Step 4.3 (e.g., RFPERF for two loop - fast speed, or RSPERF for two loop - slow speed); otherwise, complete Attachment 1, Manual Recirculation Loop Drive Flow vs. FCV Position.

SDS Screen Attachment 1

Critical Step: Prints either RFPERF or RSPERF from SDS

Instructor Cue: None

Notes: None

SAT ____ **UNSAT** ____

Comment(s): _____

Step 3

2. Indicate, for each operating loop, whether the relationship determined in Step 5.1.1.1 is within the appropriate “established pattern.”

-- If using ICS SDS, observe cursor is within limits for the DRIVE FLOW A VS. FCV A and/or for the DRIVE FLOW B VS. FCV B; otherwise, refer to Step 3 on Attachment 1.

a. Loop A: YES NO N/A

b. Loop B: YES NO N/A

Critical Step: Loop A and B checked Yes

Instructor Cue: None

Notes: None

SAT ____ **UNSAT** ____

Comment(s): _____

Step 4

5.1.2 Recirculation Loop Drive Flow vs. Total Core Flow

1. Determine the relationship between recirculation loop drive flow and total core flow, and indicate the method used.

-- If using ICS SDS, attach a copy of the screen that is appropriate for the recirculation loop configuration indicated in Step 4.3 (e.g., RFPERF for two loop - fast speed, or RSPERF for two loop - slow speed); otherwise, complete Attachment 2, Manual Recirculation Loop Drive Flow vs. Total Core Flow.

SDS Screen Attachment 2

Standard: SDS Screen Print previously obtained

Instructor Cue: None

Notes: None

SAT ____ **UNSAT** ____

Comment(s): _____

Step 5

2. Indicate whether the relationship determined in Step 5.1.2.1 is within the appropriate “established pattern.”

-- If using ICS SDS, observe cursor is within limits for the DRIVE FLOW VS. CORE FLOW; otherwise, refer to Step 3 on Attachment 2.

YES NO

Critical Step: checks Yes

Instructor Cue: None

Notes: None

SAT ____ **UNSAT** ____

Comment(s): _____

Step 6

5.1.3 Jet Pump Differential Pressure and Flow

NOTE 1: It is not necessary to satisfy both Section 5.1.3.1 and Section 5.1.3.2. The preferred method is contained in Section 5.1.3.1. The unnecessary section may be marked N/A.

1. Jet Pump Differential Pressure

- a. Determine each normalized jet pump diffuser to lower plenum differential pressure for each operating recirculation loop, and indicate the method used.

-- If using ICS SDS, attach a copy of the JPDP screen; otherwise, complete Attachment 3, Normalized Jet Pump dP's Data Sheet.

SDS Screen Attachment 3

- b. Indicate whether the relationship determined in Step 5.1.3.1.a is within the appropriate "established pattern."

-- If using ICS SDS, observe NORMAL indication for the JET PUMP DPS; otherwise, refer to Step 6 on Attachment 3.

YES NO N/A

Critical Step: Prints copy of JPDP screen and checks Yes

Instructor Cue: None

Notes: Should perform this section it is preferred

SAT ___ **UNSAT** ___

Comment(s): _____

Step 7

2. Jet Pump Differential Flow

- a. Determine each normalized jet pump flow for each operating recirculation loop, and indicate the method used.

-- If using ICS SDS, attach a copy of the JPFLOW screen; otherwise, complete Attachment 4, Normalized Jet Pump Flows Data Sheet.

SDS screen Attachment 4

- b. Indicate whether the relationship determined in Step 5.1.3.2.a is within the appropriate “established pattern.”

-- If using ICS SDS, observe NORMAL indication for the JET PUMP FLOWS; otherwise, refer to Step 7 on Attachment 4.

YES NO N/A

Standard: Section is NA, Marks as NA

Instructor Cue: None

Notes: Should perform section 1 and skip this section

SAT ___ **UNSAT** ___

Comment(s): _____

Step 8

5.2 Plant/System Restoration None

5.3 Acceptance Criteria

NOTE 1: Satisfactory completion of this surveillance shall be based only on Technical Specification items (marked with a \$ sign).

\$ 1. The jet pumps, in each operating recirculation loop, have been demonstrated OPERABLE by one of the following two methods:

a. At least two of the following three criteria have been satisfied:

- 1) Recirculation loop drive flow versus flow control valve position differs by $\leq 10\%$ from established patterns. (YES in Step 5.1.1.2)
- 2) Recirculation loop drive flow versus total core flow differs by $\leq 10\%$ from established patterns. (YES in Step 5.1.2.2)
- 3) Either each jet pump diffuser to lower plenum differential pressure differs by $\leq 20\%$ from established patterns, or each jet pump flow differs by $\leq 10\%$ from established patterns. (YES in either Step 5.1.3.1.b or Step 5.1.3.2.b)

YES NO, U.S. notified N/A

If step 5.3.1.a is marked NO, consider the applicability of step 5.3.1.b; otherwise mark the signature line in step 5.3.1.b N/A.

Critical Step: checks Yes

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

JOB PERFORMANCE MEASURE SETUP SHEET**System: Administrative****Time Critical: No****Applicability: RO****Safety Function: Equipment Control****Setting: Classroom, New****Validated: 30 minutes****References: NOP-OP-1001, 302-0081, and 208-149****Tasks: Determine tagging boundary for RFBP B.****Task #: 299-925-03-01****K / A Data: 2.2.13 Knowledge of tagging and clearance procedures.**

1. Instructions: None
2. Location / Method: Class Room / Administrative performance.
3. Initial Condition: Reactor Feed Booster Pump B, 1N27-C001B, experienced a pump seal failure. The pump has been shutdown in accordance with SOI-N27, Section 6.8.
4. Initiating Cue: The Unit Supervisor directs you, as the Reactor Operator, to identify all of the components and tags required, including their required positions, for a Clearance that will isolate Reactor Feed Booster Pump B in preparation to repair the pump seal. The Clearance itself is not required to be generated

JPM CUE SHEET

INITIAL CONDITIONS:	Reactor Feed Booster Pump B, 1N27-C001B, experienced a pump seal failure. The pump has been shutdown in accordance with SOI-N27, Section 6.8.
INITIATING CUE:	The Unit Supervisor directs you, as the Reactor Operator, to identify all of the components and tags required, including their required positions, for a Clearance that will isolate Reactor Feed Booster Pump B in preparation to repair the pump seal. The Clearance itself is <u>not</u> required to be generated

JPM BODY SHEET

Standard: Performer obtains or simulates obtaining all materials, procedures, tools, keys, radios, etc... before performing task.

Standard: Performer follows management expectations with regards to safety and communication standards.

Step 1

Determines isolation boundary

Standard: 1N27-F050B RFBP B Discharge Valve, Closed with Yellow Tag on control switch on P680

Instructor Cue: None

Notes: Vent and drain boundary valves may be identified but are not critical.
TBCC to RFBP B motor valves may be identified not critical.

SAT ___ **UNSAT** ___

Comment(s): _____

Step 2

Determines isolation boundary

Critical Step: 1N27-F050B RFBP B Discharge Valve, Red Tag on handwheel

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 3

Determines isolation boundary

Critical Step: Open and Red Tag disconnect F1B06-W for 1N27-F050B**Instructor Cue:** None**Notes:** None**SAT** ___ **UNSAT** ___**Comment(s):** _____**Step 4**

Determines isolation boundary

Standard: 1N27-F015B RFBP B Suction Valve, Closed with Yellow Tag on control switch at local control panel**Instructor Cue:** None**Notes:** None**SAT** ___ **UNSAT** ___**Comment(s):** _____**Step 5**

Determines isolation boundary

Critical Step: 1N27-F015B RFBP B Suction Valve, Red Tag on handwheel**Instructor Cue:** None**Notes:** None**SAT** ___ **UNSAT** ___**Comment(s):** _____

Step 6

Determines isolation boundary

Critical Step: Open and Red Tag disconnect F1B06-U for 1N27-F015B

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 7

Determines isolation boundary

Critical Step: 1N27-F503B RFBP B Casing Warmup Isolation Valve, Closed with Red Tag on handwheel

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 8

Determines isolation boundary

Standard: 1N27-C001B RFBP B, Off with Yellow Tag on control switch on P680.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 9

Determines isolation boundary

Critical Step: Breaker H1208 Racked Out with Red Tag, 1N27-C001B RFBP B**Instructor Cue:** None**Notes:** None**SAT** ___ **UNSAT** ___**Comment(s):** _____**Step 10**

Determines isolation boundary

Critical Step: 1P12-F606B RFBP B Seal Cooling Water Supply Valve, Closed with Red Tag on handwheel**Instructor Cue:** None**Notes:** Vent and drain boundary valves may be identified but are not critical.
TBCC to RFBP B motor valves may be identified not critical.**SAT** ___ **UNSAT** ___**Comment(s):** _____**Step 11**

The following valves may be included, but are within clearance boundary

Standard: 1N27-F792B, 1N27-F670B, 1N27-F714B and 1N27-F592B valves.**Instructor Cue:** None**Notes:** Valves need not be identified**SAT** ___ **UNSAT** ___**Comment(s):** _____**Terminating Cue:** Determines the required components to isolate RFBP B.**Evaluation Results:** **SAT**_____ **UNSAT**_____

JOB PERFORMANCE MEASURE SETUP SHEET

System: Administrative
Time Critical: No
Applicability: RO
Safety Function: Radiation Control
Setting: Classroom, New
Validated: 20 minutes
References: HPI-B003 Revision 19

Tasks: Determine if you as an Operator can perform an emergency evolution due to radiation levels.

Task #: 299-848-01-01

K / A Data: 2.3.4 Knowledge of radiation exposure limits under normal and emergency conditions.

1. Instructions: NA
2. Location / Method: Class Room / Administrative performance.
3. Initial Condition: The plant is in a General Emergency. No facilities are currently activated and Emergency Coordinator duties remain in the Control Room. The Shift Manager has requested that you, as the field supervisor, choose an operator to manually close 1G33-F004 RWCU SUCT FM CNTMT OTBD ISOL Valve to stop a large off-site release. Radiation Protection Supervision has informed you that travel path dose rates are 10 REM/hr to the valve in question and 50 REM/hr at the valve. It is estimated that total travel time to and from the valve is 15 minutes and it will take 30 minutes to close the valve.

The only two operators available for this assignment are Bob Smith and Ray Jones.

Bob Smith is 52 years old and has a life time dose of 7.2 Rem. Bob has a year to date dose of 20 mrem. Bob has not volunteered for this assignment

Ray Jones is 28 years old and has a life time dose of 700 mrem. Ray has a year to date dose of 100 mrem. Ray has volunteered for this assignment

4. Initiating Cue: Assign one of these operators to close 1G33-F004 and complete the Perry Emergency Dose Authorization form PNPP 10136 up to authorization.

JPM CUE SHEET

<p>INITIAL CONDITIONS:</p>	<p>The plant is in a General Emergency. No facilities are currently activated and Emergency Coordinator duties remain in the Control Room. The Shift Manager has requested that you, as the field supervisor, choose an operator to manually close 1G33-F004 RWCU SUCT FM CNTMT OTBD ISOL Valve to stop a large off-site release. Radiation Protection Supervision has informed you that travel path dose rates are 10 REM/hr to the valve in question and 50 REM/hr at the valve. It is estimated that total travel time to and from the valve is 15 minutes and it will take 30 minutes to close the valve.</p> <p>The only two operators available for this assignment are Bob Smith and Ray Jones.</p> <p>Bob Smith is 52 years old and has a life time dose of 7.2 Rem. Bob has a year to date dose of 20 mrem. Bob has not volunteered for this assignment</p> <p>Ray Jones is 28 years old and has a life time dose of 700 mrem. Ray has a year to date dose of 100 mrem. Ray has volunteered for this assignment</p>
<p>INITIATING CUE:</p>	<p>Assign one of these operators to close 1G33-F004 and complete the Perry Emergency Dose Authorization form PNPP 10136 up to authorization.</p>

JPM BODY SHEET

Standard: Performer obtains or simulates obtaining all materials, procedures, tools, keys, radios, etc... before performing task.

Standard: Performer follows management expectations with regards to safety and communication standards.

Step 1

Determine the radiation dose that will be received.

Critical Step: Determines operator will receive 27.5 REM

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 2

Determines that the operator may receive greater than 25 REM to protect large populations if he is a volunteer.

Critical Step: Assigns Ray Jones task to close valve.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 3

Fill in portions of form PNPP 10136.

Critical Step: Fill in NAME, CURRENT YEAR DOSE, & LIFETIME DOSE on form PNPP 10136.

Instructor Cue: Ask candidate who can approve the Emergency Dose Authorization

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 4

Identifies that the Shift Manager may authorize the dose.

Critical Step: Identifies that Shift Manager may authorize Emergency Dose Authorization

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Terminating Cue: Assigns Ray Jones this task and that the Operations Shift Manager may authorize the Emergency Dose.

Evaluation Results: **SAT**_____ **UNSAT**_____

JOB PERFORMANCE MEASURE SETUP SHEET**System: Administrative****Time Critical: No****Applicability: SRO****Safety Function: Conduct of Operations****Setting: Classroom, New****Validated: 15 minutes****References: NOP-LP-1002 Rev 9****Tasks: Evaluate proposed work schedule against established overtime guidelines****Task #: 343-710-03-02****K / A Data: 2.1.5 Ability to use procedures related to shift staffing, such as minimum crew complement, overtime limitations, etc.**

1. Instructions: NA
2. Location / Method: Class Room / Administrative performance.
3. Initial Condition: The Plant is operating at 100% power. You are the Unit Supervisor for Crew 2. Two Reactor Operators from your crew are needed to work a 12-hour overtime assignment on Sunday (1/18) from 0800 to 2000, due to a flu outbreak. It is not expected that any of the Reactor Operators who work on Sunday will work the following Monday (1/19). Listed below is the current work schedule for the three Reactor Operators on your crew. **Note:** All Work hours shown excludes turnover time.

Sun	Mon	Tues	Wed	Thu	Fri	Sat	
1/11	1/12	1/13	1/14	1/15	1/16	1/17	
Off	08-20	08-20	08-16	08-20	08-20	08-20	Dan
Off	08-16	08-20	08-20	08-16	08-16	08-16	Guy
Off	08-20	08-16	08-20	08-20	Off	08-24	Tim

4. Initiating Cue: Determine which Reactor Operator(s) can work the proposed overtime without any additional authorization and complete any form(s) required in order to fill the two overtime assignments. **Note:** No split shifts will be worked

JPM CUE SHEET

<p>INITIAL CONDITIONS:</p>	<p>The Plant is operating at 100% power. You are the Unit Supervisor for Crew 2. Two Reactor Operators from your crew are needed to work a 12-hour overtime assignment on Sunday (1/18) from 0800 to 2000, due to a flu outbreak. It is <u>not</u> expected that any of the Reactor Operators who work on Sunday will work the following Monday (1/19). Listed below is the current work schedule for the three Reactor Operators on your crew.</p> <p>Note: All Work hours shown <u>excludes</u> turnover time.</p> <table border="0"> <thead> <tr> <th>Sun</th> <th>Mon</th> <th>Tues</th> <th>Wed</th> <th>Thu</th> <th>Fri</th> <th>Sat</th> <th></th> </tr> </thead> <tbody> <tr> <td>1/11</td> <td>1/12</td> <td>1/13</td> <td>1/14</td> <td>1/15</td> <td>1/16</td> <td>1/17</td> <td></td> </tr> <tr> <td>Off</td> <td>08-20</td> <td>08-20</td> <td>08-16</td> <td>08-20</td> <td>08-20</td> <td>08-20</td> <td>Dan</td> </tr> <tr> <td>Off</td> <td>08-16</td> <td>08-20</td> <td>08-20</td> <td>08-16</td> <td>08-16</td> <td>08-16</td> <td>Guy</td> </tr> <tr> <td>Off</td> <td>08-20</td> <td>08-16</td> <td>08-20</td> <td>08-20</td> <td>Off</td> <td>08-24</td> <td>Tim</td> </tr> </tbody> </table>	Sun	Mon	Tues	Wed	Thu	Fri	Sat		1/11	1/12	1/13	1/14	1/15	1/16	1/17		Off	08-20	08-20	08-16	08-20	08-20	08-20	Dan	Off	08-16	08-20	08-20	08-16	08-16	08-16	Guy	Off	08-20	08-16	08-20	08-20	Off	08-24	Tim
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<p>INITIATING CUE:</p>	<p>Determine which Reactor Operator(s) can work the proposed overtime <u>without</u> any additional authorization <u>and</u> complete any form(s) required in order to fill the two overtime assignments.</p> <p>Note: No split shifts will be worked</p>																																								

JPM BODY SHEET

Standard: Performer obtains or simulates obtaining all materials, procedures, tools, keys, radios, etc... before performing task.

Standard: Performer follows management expectations with regards to safety and communication standards.

Evaluator Note:

Ensure computers are using the Training logon.

Step 1

- 4.15.4 The limits and controls placed on working hours are applicable to all plant and contractor personnel with the exception of the FENOC Executive Leadership Team (ELT). Working hours shall be controlled as specified in each plant's licensing documents, and may be supplemented as directed by site management.
1. An individual should not work more than 16 hours straight (excluding shift turnover or travel time).
 2. An individual should not work more than 16 hours in any 24 hour period, 24 hours in any 48 hour period, or 72 hours in any 7 day period (excluding shift turnover or travel time).
 3. A break of at least eight hours should be allowed between work periods. (Shift turnover time should not be part of the eight hour break period.)
 4. Except during extended shutdown periods, the use of excessive working hours should be considered on an individual basis and not for the entire staff or crew on shift.
 5. The crew performing fuel loading operations should not normally be expected to work more than 12 hours out of each 24 hour period when scheduled for consecutive daily duty.
- 4.15.5 Deviation from the above guidelines shall normally not be required during times when the plant is operating and adequate shift coverage is available. Exceptions to this policy may include a Limiting Condition for Operation (LCO), Emergency Plan activation or callout, or other significant need to maintain safe plant operation, to maintain shift complement, or maintain production capability.

Standard: Evaluates the working hours.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 2

Assigns one Reactor Operator the overtime assignment:

Critical Step: Assigns Guy to work the overtime assignment because he can work the overtime without additional authorization.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 3

Assigns the second Reactor Operator the overtime assignment:

Critical Step: Determines that both Dan and Tim need Technical Specification Working Hour Deviation requests. Chooses one of the operators and completes the request form NOP-LP-1002-03

Instructor Cue: Provide Form NOP-LP-1002-03

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 4

Completes the Technical Specification Working Hour Deviation Request

Critical Step: For **Dan** the correct code is **4, or**
For **Tim** the correct code is **3**, code **5** would be additional or ensure that
Tim gets 8 hours off prior to returning to work.

Instructor Cue: Social Security number leave blank. Complete a hard copy or
electronically but do not submit or save if completing electronically.

Notes: **Only the Code is Critical**

SAT ___ **UNSAT** ___

Comment(s): _____

Terminating Cue: Guy is assigned to work overtime. Dan or Tim fill the second overtime
position with a completed Technical Specification Overtime Deviation
request.

Evaluation Results: **SAT**_____ **UNSAT**_____

JOB PERFORMANCE MEASURE SETUP SHEET**System: Administrative****Time Critical: No****Applicability: SRO****Safety Function: Conduct of Operations****Setting: Classroom, New****Validated: 15 minutes****References: PAP-1604 Revision 20****Tasks: Make a four hour 10CFR50.72 Non-Emergency Notification.****Task #: 341-640-03-02****K / A Data: 2.1.18 Ability to make accurate, clear, and concise logs, records, status boards, and reports.**

1. Instructions: None
2. Location / Method: Class Room / Administrative performance.
3. Initial Condition: The plant was conducting a shutdown in preparation for entering a refueling outage. The shutdown schedule called for power to be reduced to 20% and then a manual reactor scram was to be inserted.

Thirty minutes ago while shifting Reactor Recirculation Pumps to slow speed, a problem with breaker 5B for Reactor Recirculation Pump B developed and the B Recirc Pump failed to start in slow. The Reactor Operator inserted a manual reactor scram. Reactor Power was 35% at the time of the scram. All equipment operated as designed following the scram and plant conditions are now stable.

4. Initiating Cue: As the Shift Manager evaluate this event for reportability and perform any required notifications to the NRC Operations Center within the required time frame.

JPM CUE SHEET

INITIAL CONDITIONS:	<p>The plant was conducting a shutdown in preparation for entering a refueling outage. The shutdown schedule called for power to be reduced to 20% and then a manual reactor scram was to be inserted.</p> <p>Thirty minutes ago while shifting Reactor Recirculation Pumps to slow speed, a problem with breaker 5B for Reactor Recirculation Pump B developed and the B Recirc Pump failed to start in slow. The Reactor Operator inserted a manual reactor scram. Reactor Power was 35% at the time of the scram. All equipment operated as designed following the scram and plant conditions are now stable.</p>
INITIATING CUE:	<p>As the Shift Manager evaluate this event for reportability and perform any required notifications to the NRC Operations Center within the required time frame.</p>

JPM BODY SHEET

Standard: Performer obtains or simulates obtaining all materials, procedures, tools, keys, radios, etc... before performing task.

Standard: Performer follows management expectations with regards to safety and communication standards.

Step 1

Evaluates PAP-1604

Critical Step: Determines a 4-Hr Non-Emergency 10CFR50.72(b)(2)(iv)(B) notification is required.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 2

Evaluate when Notification is due

Critical Step: Notification is due 4 hours from insertion of manual scram.

Instructor Cue: None

Notes: May need to prompt for when notification is **required** to be made.

SAT ___ **UNSAT** ___

Comment(s): _____

Step 3

Complete Event Notification PNPP form 6912

Critical Step: Under Event Classification a check in box for 50.72 Non-Emergency and a check in box (iv)(B) RPS Actuation (scram) APRES

Instructor Cue: None

Notes: JPM complete once an entry is made in description block on first page, Additional Information page not required to be completed.

SAT ____ **UNSAT** ____

Comment(s): _____

Terminating Cue: Form PNPP 6912 Event Notification is properly filled out through the completion of the description block and the time of notification is established.

Evaluation Results: **SAT**____ **UNSAT**____

JOB PERFORMANCE MEASURE SETUP SHEET**System: Administrative****Time Critical: No****Applicability: SRO****Safety Function: Equipment Control****Setting: Classroom, New****Validated: 20 minutes****References: OAI-1701, PDB-G0001, TAI-1120-7, TS 3.6.1.3 and Drawings 302-00642 and 208-0055 or 206-023****Tasks: Controlling a containment penetration to meet the isolation requirements of TS 3.6.1.3.****Task #: 343-732-03-02****K / A Data: 2.2.40 Ability to apply Technical Specifications for a system.**

1. Instructions: None
2. Location / Method: Class Room / Administrative performance.
3. Initial Condition: The plant is in MODE 1. During performance of SVI-E12-T2001, RHR A Pump and Valve Operability Test, valve 1E12-F027A RHR A TO CNTMT SHUTOFF blew all 3 main line fuses during its stroke time test. The valve is currently open and cannot be manually closed because it is mechanically bound. The valve has been declared INOPERABLE and Technical Specification 3.6.1.3 (PCIVs), Condition A has been entered.
4. Initiating Cue: The Shift Manager directs you as the Shift Engineer, to determine all the component(s) that will require Tags in order to comply with the administrative requirement procedure and Technical Specification 3.6.1.3, Condition A. The Unit Supervisor is completing the required LCOs.

JPM CUE SHEET

INITIAL CONDITIONS:	The plant is in MODE 1. During performance of SVI-E12-T2001, RHR A Pump and Valve Operability Test, valve 1E12-F027A RHR A TO CNTMT SHUTOFF blew all 3 main line fuses during its stroke time test. The valve is currently open and cannot be manually closed because it is mechanically bound. The valve has been declared INOPERABLE and Technical Specification 3.6.1.3 (PCIVs), Condition A has been entered.
INITIATING CUE:	The Shift Manager directs you as the Shift Engineer, to determine all the component(s) that will require Tags in order to comply with the administrative requirement procedure and Technical Specification 3.6.1.3, Condition A. The Unit Supervisor is completing the required LCOs

JPM BODY SHEET

Standard: Performer obtains or simulates obtaining all materials, procedures, tools, keys, radios, etc... before performing task.

Standard: Performer follows management expectations with regards to safety and communication standards.

Step 1**OAI-1701 Attachment 1: TECHNICAL SPECIFICATION 3.6.1.3 EXPECTATIONS**

This attachment describes the methodology for controlling containment penetrations to meet the isolation requirements of Technical Specification 3.6.1.3. Primary Containment Isolation Valves (PCIVs).

Work Control Unit Clearance Personnel

Containment Integrity concerns, once identified, should be noted on the clearance. Yellow Caution tags shall be prepared and provided for all penetrations associated with inoperable PCIVs. These Caution tags will be used to support configuration control during testing requirements and work activities, while maintaining containment integrity.

When Technical Specifications require a component to be closed and de-activated, the normal practice will be to provide tags for control switch, disconnect or air supply and the local operator for the component(s) maintaining control of the penetration.

Standard: Reviews OAI-1701 to determine requirements.

Instructor Cue: Not required to generate clearance. Identify component(s) that would be required to be listed on a clearance.

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 2

Identifies the following component to meet Technical Specification 3.6.1.3.

Critical Step: 1E12-F028A is required to be Closed and De-activated with three Caution tags: one on control switch, one on handwheel, and one on disconnect EF1B07-R.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 3

Identifies the following component to meet Technical Specification 3.6.1.3.

Critical Step: 1E12-F037A is required to be Closed and De-activated with three Caution tags: one on control switch, one on handwheel, and one on disconnect EF1B07-S.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 4

Identifies the following component to meet Technical Specification 3.6.1.3.

Critical Step: 1E12-F042A is required to be Closed and De-activated with three Caution tags: one on control switch, one on handwheel, and one on disconnect EF1B07-X.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Terminating Cue: Determination of the three required valves to isolate the penetration made INOPERABLE by the failure of 1E12-F027A RHR A TO CNTMT SHUTOFF.

Evaluation Results: SAT_____ UNSAT_____

JOB PERFORMANCE MEASURE SETUP SHEET

System: Administrative
Time Critical: No
Applicability: SRO
Safety Function: Radiation Control
Setting: Classroom, New
Validated: 20 minutes
References: HPI-B003 Revision 19

Tasks: Determine if an Operator can perform an emergency evolution due to radiation levels and complete an Emergency Dose Authorization if evolution can be performed.

Task #: 344-511-05-03

K / A Data: 2.3.4 Knowledge of radiation exposure limits under normal and emergency conditions.

1. Instructions: NA
2. Location / Method: Class Room / Administrative performance.
3. Initial Condition: You are the Shift Manager. The plant is in a General Emergency. No facilities are currently activated and Emergency Coordinator duties remain in the Control Room. You must assign an operator to manually close 1G33-F004 RWCU SUCT FM CNTMT OTBD ISOL Valve to stop a large off-site release. Radiation Protection Supervision has informed you that travel path dose rates are 10 REM/hr to the valve in question and 50 REM/hr at the valve. It is estimated that total travel time to and from the valve is 15 minutes and it will take 30 minutes to close the valve.

The only two operators available for this assignment are Bob Smith and Ray Jones.

Bob Smith is 52 years old and has a life time dose of 7.2 Rem. Bob has a year to date dose of 20 mrem. Bob has not volunteered for this assignment.

Ray Jones is 28 years old and has a life time dose of 700 mrem. Ray has a year to date dose of 100 mrem. Ray has volunteered for this assignment.

4. Initiating Cue: Assign one of these operators to close 1G33-F004 and complete and approve the Perry Emergency Dose Authorization form PNPP 10136.

JPM CUE SHEET

INITIAL CONDITIONS:	<p>You are the Shift Manager. The plant is in a General Emergency. No facilities are currently activated and Emergency Coordinator duties remain in the Control Room. You must assign an operator to manually close 1G33-F004 RWCU SUCT FM CNTMT OTBD ISOL Valve to stop a large off-site release. Radiation Protection Supervision has informed you that travel path dose rates are 10 REM/hr to the valve in question and 50 REM/hr at the valve. It is estimated that total travel time to and from the valve is 15 minutes and it will take 30 minutes to close the valve.</p> <p>The only two operators available for this assignment are Bob Smith and Ray Jones.</p> <p>Bob Smith is 52 years old and has a life time dose of 7.2 Rem. Bob has a year to date dose of 20 mrem. Bob has <u>not</u> volunteered for this assignment.</p> <p>Ray Jones is 28 years old and has a life time dose of 700 mrem. Ray has a year to date dose of 100 mrem. Ray has volunteered for this assignment.</p>
INITIATING CUE:	Assign one of these operators to close 1G33-F004 and complete and approve the Perry Emergency Dose Authorization form PNPP 10136.

JPM BODY SHEET

Standard: Performer obtains or simulates obtaining all materials, procedures, tools, keys, radios, etc... before performing task.

Standard: Performer follows management expectations with regards to safety and communication standards.

Step 1

Determine the radiation dose that will be received.

Critical Step: Determines operator will receive 27.5 REM

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 2

Determines that the operator may receive greater than 25 REM to protect large populations if he is a volunteer.

Critical Step: Assigns Ray Jones task to close valve.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 3

Completes Emergency Dose Authorization (Form # - PNPP 10136)

Critical Step: Fill in NAME, CURRENT YEAR DOSE, LIFETIME DOSE, & LEVEL APPROVED on form PNPP 10136.

Approve the Emergency Dose Authorization

Instructor Cue: None

Notes: Level approved needs to be ≥ 27.5 Rem.
No signatures are required in the REQUEST block.

SAT ___ **UNSAT** ___

Comment(s): NRC Examiner to sign as Ray Jones in the Signature block of the REQUEST section.

Step 4

Approves Emergency Dose Authorization (Form # - PNPP 10136) as Shift Manager.

Critical Step: Approve the Emergency Dose Authorization form PNPP 10136 in the APPROVAL Section

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Terminating Cue: Assigns Ray Jones this task and approve the Emergency Dose Authorization.

Evaluation Results: SAT _____ UNSAT _____

JOB PERFORMANCE MEASURE SETUP SHEET**System: Administrative****Time Critical: YES****Applicability: SRO****Safety Function: Emergency Plan****Setting: Classroom, New****Validated: 25 minutes****References: EPI-A1 and EPI-B8****Tasks: Classify the Emergency and complete Initial Notification Paperwork****Task #: 344-532-02-02****K / A Data: 2.4.44 Knowledge of Emergency Plan protective action recommendations.**

1. Simulator Setup Instructions: NA
2. Location / Method: Class Room / Performance
3. Initial Condition: The plant had been operating at 100% power for the last 218 days. Outside Temperature is 10 °F, with winds from the northwest (310°) and heavy snowfall. A state of emergency has been declared in northeast Ohio due to the blizzard conditions. The Sheriff department has issued a warning that only emergency vehicles should be on the roads.

A reactor scram has occurred due to a Main Turbine trip caused by grid oscillations. Eight control rods are indicating at various mid positions, all other control rods indicate "00", full-in. Plant is operating in accordance with EOP-1A Level Power Control. RPV level is 10 inches and stable. All available injection and injection subsystems are and have been injecting. Drywell radiation monitor is indicating 3,995 Rem/hr and steadily increasing. A high temperature condition exists in the Auxiliary Building Steam Tunnel due to a RWCU pipe break. Current temperature is 250°F and rising. Attempts to isolate RWCU valves 1G33-F001 and 1G33-F004 from the Control room have been unsuccessful.

Turbine Building/Heater Bay Vent D17 airborne radiation monitor 1D17-K0850 particulate, iodine, and gas channels are in ALERT and rising

4. Initiating Cue: With the information provided, declare the emergency action level, complete initial notifications and other required actions. **Task is Time Critical**

JPM CUE SHEET

<p>INITIAL CONDITIONS:</p>	<p>The plant had been operating at 100% power for the last 218 days. Outside Temperature is 10 °F, with winds from the northwest (310°) and heavy snowfall. A state of emergency has been declared in northeast Ohio due to the blizzard conditions. The Sheriff department has issued a warning that only emergency vehicles should be on the roads.</p> <p>A reactor scram has occurred due to a Main Turbine trip caused by grid oscillations. Eight control rods are indicating at various mid positions, all other control rods indicate “00”, full-in. Plant is operating in accordance with EOP-1A Level Power Control. RPV level is 10 inches and stable. All available injection and injection subsystems are and have been injecting. Drywell radiation monitor is indicating 3,995 Rem/hr and steadily increasing. A high temperature condition exists in the Auxiliary Building Steam Tunnel due to a RWCU pipe break. Current temperature is 250°F and rising. Attempts to isolate RWCU valves 1G33-F001 and 1G33-F004 from the Control room have been unsuccessful.</p> <p>Turbine Building/Heater Bay Vent D17 airborne radiation monitor 1D17-K0850 particulate, iodine, and gas channels are in ALERT and rising</p>
<p>INITIATING CUE:</p>	<p>With the information provided, declare the emergency action level, complete initial notifications and other required actions. Task is Time Critical</p>

JPM BODY SHEET

Standard: Performer obtains or simulates obtaining all materials, procedures, tools, keys, radios, etc... before performing task.

Standard: Performer follows management expectations with regards to safety and communication standards.

Step 1

Event Classification: 15 Minutes to classify

Classify Event as AG1.

Critical Step: Classifies AG1, **15 minutes to classify.**

Instructor Cue: Notify that time critical action starts after first read of initial conditions and he is given initiating cue.

Notes: **Containment Barrier Loss**, RWCU does not isolate as required and a Path to the environment exists. **RCS Barrier Challenge**, Unisolable primary system discharging outside containment. **Fuel Clad Barrier Loss**, Drywell Radiation 3995 Rem/hr and steadily increasing.

Start Time _____ **Classification Time** _____
SAT ___ **UNSAT** ___

Comment(s): _____

Step 2

Event Classification Checklist:

Checklist completed through line 6.

Standard: Uses Event classification checklist to assist with required actions.

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Step 3

Initial Notification:

Initial Notification completed within 10 minutes after classification.

Critical Step: Initial Notification **Completed within 10 minutes of classification.**

Block 3.a is checked for General Emergency AG1.

Instructor Cue: None

Notes: **Time Given to Communicator** _____

Line 1 is Control Room, Line 2 is Drill. Not critical

SAT ____ **UNSAT** ____

Comment(s): _____

Step 4

Initial Notification:

Initial Notification completed within 10 minutes after classification.

Critical Step: Initial Notification **Completed within 10 minutes of classification.**

Blocks 6.b and c are checked.

Instructor Cue: None

Notes: **Time Given to Communicator** _____

Line 4 Brief non-technical description is not a critical task.

Block 5.b checked, is not critical task no affect on PAR

SAT ____ **UNSAT** ____

Comment(s): _____

Step 5

Protective Action Recommendation:

PAR Decision Flowchart.

Critical Step: Protective action recommendation, shelter 1, 2, and 3 and evacuate Lake

Instructor Cue: **If asked** No controlled release expected or in progress. CADAP in progress but not complete.

Notes: There are impediments to evacuation Table B is used for default PAR. Wind Direction 310 degrees = 282° to 11° SHELTER 1, 2, 3 & EVACUATE Lake*

SAT ___ **UNSAT** ___

Comment(s): _____

Step 6

Pager Message:

Complete Pager Message for Emergency Facility staffing.

Standard: Pager Message completed, scenario ID No. 4

Instructor Cue: None

Notes: None

SAT ___ **UNSAT** ___

Comment(s): _____

Terminating Cue: AG1 Classified within 15 minutes and Initial Notification given to communicator 5 minutes prior to notification due time.

Evaluation Results: **SAT**_____ **UNSAT**_____