James A. FitzPatrick Nuclear Power Plant

NRC 2008 ILT Exam
Admin Job Performance Measure

S/RO 2008 ADM JPM 1 TASK TITLE: Manually Compute Average Drywell Air Temperature.

TOPIC: Conduct of Operations

NRC K/A SYSTEM NUMBER: 2.1.20

ESTIMATED COMPLETION TIME: 15 Minutes

Approved: ____________________

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CANDIDATE NAME: ________________________

JPM Completion: ( ) Simulated (X) Performed

Location: ( ) Plant ( ) Simulator (X) Classroom

DATE PERFORMED: ________________________ TIME TO COMPLETE: ____ Minutes

PERFORMANCE EVALUATION: ( ) Satisfactory ( ) Unsatisfactory

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COMMENTS: (MANDATORY FOR UNSATISFACTORY PERFORMANCE)

NRC EXAMINER: ______________________________________
SIGNATURE/PRINTED

JOB PERFORMANCE MEASURE
REQUIRED TASK INFORMATION

S/RO ___ ADM-JPM-1 TASK TITLE: Manually Compute Average Drywell Air Temperature

I. SAFETY CONSIDERATIONS

A. None

II. REFERENCES

A. ST-40C, Rev 16

III. TOOLS AND EQUIPMENT

A. None

IV. SET UP REQUIREMENTS

A. Prepare a marked up copy of ST-40C to allow the candidate to begin at step 8.3.4, and provide data set of drywell temperature readings on ST-40C Attachment 3.

V. EVALUATOR NOTES

A. If performing JPM in the plant, inform the candidate that the conditions of each step need only be properly identified and not actually performed.

B. The candidate should, at a minimum, identify the change in equipment status light indication when equipment operation is simulated.

VI. TASK CONDITIONS

A. Plant computer is out of service.

VII. ***INITIATING CUE:***

Determine current Drywell temperature by completing ST-40C beginning at step 8.3.4 and report the results to Shift Management.

AND

FOR SRO CANDIDATES ONLY: After completing the above, then complete step 11.2, Management SRO Review, and if applicable, then identify any required actions.

**** - CRITICAL STEP***

	STEP	***STANDARD***	***EVALUATION / COMMENT***
1.	Obtain a controlled copy of procedure ST-40C COMPUTER OUT OF SERVICE SURVEILLANCE.	The candidate obtains a controlled copy of ST-40C. **EXAMINER CUE:** Provide a marked up copy of ST-40C.	SAT / UNSAT
2.	(Step 8.3.4.A) Multiply the recorded READING by the WEIGHTING FACTOR and record the result under CORRECTED VALUE.	Applicant records the corrected values on Attachment 3. **EXAMINER NOTE:** Refer to attached Answer Key.	SAT / UNSAT
3.	(Step 8.3.4.B) **IF** the READING for any DRYWELL AREA was recorded as "none" on Attachment 3,**THEN** perform the following: 1. Record the sum of all the used WEIGHTING FACTORs in the SUM OF USED WEIGHTING FACTORS block. 2. Record the sum of all the CORRECTED VALUES in the SUM OF CORRECTED VALUES block.	Applicant records the values on Attachment 3. **EXAMINER NOTE:** Refer to attached Answer Key.	SAT / UNSAT

	STEP	*STANDARD*	*EVALUATION / COMMENT*
4.	(Step 8.3.4.C) **IF** no DRYWELL AREAS had a READING recorded as "none" , **THEN** perform the following: 1. Record "I" in the SUM OF USED WEIGHTING FACTORS block. 2. Record the sum of all the CORRECTED VALUES in the SUM OF CORRECTED VALUES block.	Applicant determines that this step is not applicable.	SAT / UNSAT
*5.	(Step 8.3.4.D) Determine average drywell temperature by dividing the SUM OF CORRECTED VALUES by the SUM OF USED WEIGHTING FACTORS and record the result as the AVERAGE DRYWELL TEMPERATURE on Attachment 3.	Applicant calculates the AVERAGE DRYWELL TEMPERATURE and records the value on Attachment 3. **EXAMINER NOTE:** Refer to attached Answer Key.	SAT / UNSAT
6.	(Step 8.9) RESTORATION	**EXAMINER CUE:** Inform the applicant that the computer has been returned to service and that steps 8.9.1 through 8.9.5 have already been appropriately signed off. (These steps should be marked up as part of the JPM setup).	SAT / UNSAT
7.	(Step 9.1) SYSTEM RESTORATION	**EXAMINER CUE:** Inform the applicant that the computer has been returned to service and that steps 9.1.1 through 9.1.2 have already been appropriately signed off. (These steps should be marked up as part of the JPM setup).	SAT / UNSAT

	STEP	STANDARD	EVALUATION / COMMENT
8.	(Step 9.2.1) Independently verify that the calculations performed in Step 8.2.3 have been correctly performed.	**EXAMINER CUE:** Inform the applicant that the independent review has been performed. (The step should be signed off as part of the JPM setup).	SAT / UNSAT
9.	(Step 9.2.2) Test completed. Date / Time.	Applicant signs off the date and time.	SAT / UNSAT
10.	(Step 9.2.3) Test personnel have recorded dose received and hours worked on Attachment 1.	Applicant signs the step off. ***EXAMINER NOTE:*** The information should already be filled out on Attachment 1 as part of the JPM setup.	SAT / UNSAT
11.	(Step 9.2.4) Man-Rem and Man-Hours totaled and recorded on Attachment 1.	Applicant signs the step off. ***EXAMINER NOTE:*** The information should already be filled out on Attachment 1 as part of the JPM setup.	SAT / UNSAT
*12.	(Step 10.1.4) Average Drywell Temperature is LESS THAN OR EQUAL TO 135°F per Step 8.3.4.D.	Applicant determines that average drywell temperature is GREATER THAN 135°F.	SAT / UNSAT
13.	(Step 11.1.1) Verify required data has been recorded and is within required tolerances.	Applicant signs the step off.	SAT / UNSAT
14.	(Step 11.1.2) Verify required initials and signatures have been entered.	Applicant signs the step off.	SAT / UNSAT

	STEP	*STANDARD*	*EVALUATION / COMMENT*
*15.	(Step 11.1.3) IF Level 1 Acceptance Criteria was not met, THEN perform the following: A. Sign off ST as unsatisfactory. B. Immediately notify the CRS. C. Initiate a CR. D. If necessary, initiate a PID.	Applicant determines that a Level 1 Acceptance Criteria has NOT been met. The applicant signs the ST off as UNSATISFACTORY, notifies the CRS, notifies the CRS that a CR needs to be initiated. ***EXAMINER CUE:*** Role play as the CRS and acknowledge the message. Inform the applicant that a CR will be initiated by someone else.	SAT / UNSAT
16.	(Step 11.1.4) IF only Level 2 Acceptance Criteria was not met, THEN perform the following:	Applicant determines that this step does not apply.	SAT / UNSAT
*17.	(Step 11.1.5) Identify test results: (_) Satisfactory (_) Satisfactory with corrective actions (_) Unsatisfactory	Applicant checks off UNSATISFACTORY.	SAT / UNSAT
18.	(Step 11.1.6) Record results in narrative log.	***EXAMINER CUE:*** Inform the applicant that someone else will make the log entry.	SAT / UNSAT
19.	(Step 11.1.7) Sign and record date and time.	Applicant signs and records the date and time. ***EXAMINER NOTE:*** This step meets the termination criteria for RO applicants.	SAT / UNSAT
		EXAMINER NOTE: In addition to the above, the following steps shall be completed for SRO applicants.	
20.	(Step 11.2.1) Verify data is within required tolerances.	Applicant determines that average drywell temperature is GREATER THAN 135°F.	SAT / UNSAT

	STEP	STANDARD	EVALUATION / COMMENT
21.	(Step 11.2.2) Verify data attachments, such as recorder printouts and calibration sheets are included as required.	Applicant signs off the step.	SAT / UNSAT
22.	(Step 11.2.3) Verify required initials and signatures have been entered.	Applicant signs off the step.	SAT / UNSAT
*23.	(Step 11.2.4) Review test to determine if test results satisfy acceptance criteria: (_) Satisfactory (_) Satisfactory with corrective actions (_) Unsatisfactory	Applicant checks off UNSATISFACTORY.	SAT / UNSAT
24.	(Step 11.2.5) IF Level 1 acceptance criteria are not satisfied, THEN immediately notify Operations Manager or alternate. Record name of person notified.	Applicant notifies the Operations Manager and signs off the step. **EXAMINER CUE:** Role play as the Operations Manager and acknowledge the communication.	SAT / UNSAT
*25.	(Step 11.2.6) Initiate required corrective and compensatory actions.	Applicant identifies the need to: 1. Enter EOP-4, "Primary Containment Control" 2. Enter TS LCO 3.6.1.5, Condition A, Action A.1: Restore to within limit within 8 hours.	SAT / UNSAT
26.	(Step 11.2.7) Sign and record date and time.	Applicant signs off the step	SAT / UNSAT
EVALUATOR: Terminate the task at this point.			

ANSWER KEY

Drywell Area	RTD-16-1RTD1-	Reading	Weighting Factor	Corrected Value
0	(x) 101 (_) 120	136	0.1133	**15.4088**
1	(x) 102 (_) 119	134	0.1652	**22.1368**
2	(x) 103 (_) 104	137	0.3560	**48.7720**
3	(x) 105 (_) 106	135	0.1313	**17.7255**
4	(_) 107 (_) 108	NONE	~~0.0470~~	**0**
5	(x) 109 (_) 117	132	0.0534	**7.0488**
6	(x) 110 (_) 111	135	0.0715	**9.6525**
7	(x) 112 (_) 118	133	0.0621	**8.2593**
SUM OF USED WEIGHTING FACTORS:			**0.9528**	
SUM OF CORRECTED FACTORS:				**129.0037**
AVERAGE DRYWELL TEMPERATURE:				**135.3943** (≤ 135°F)

INITIATING CUE:

The Plant Computer is out of service. Determine current Drywell temperature by completing ST-40C beginning at step 8.3.4 and report the results to Shift Management.

AND

FOR SRO CANDIDATES ONLY: After completing the above, then complete step 11.2, Management SRO Review, and if applicable, then identify any and all required actions.

James A. FitzPatrick Nuclear Power Plant

NRC 2008 ILT Exam
Admin Job Performance Measure

SRO 2008 ADM JPM 2A TASK TITLE: Determine Work Hour Limitations

TOPIC: Conduct of Operations

NRC K/A SYSTEM NUMBER: 2.1.10

ESTIMATED COMPLETION TIME: 15 Minutes

Approved: ____________________

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CANDIDATE NAME: ______________________

JPM Completion: ( ) Simulated (X) Performed

Location: ( ) Plant ( ) Simulator (X) Classroom

DATE PERFORMED: ______________________ TIME TO COMPLETE: ____ Minutes

PERFORMANCE EVALUATION: ( ) Satisfactory ( ) Unsatisfactory

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COMMENTS: (MANDATORY FOR UNSATISFACTORY PERFORMANCE)

NRC EXAMINER: ____________________________________
SIGNATURE/PRINTED

JOB PERFORMANCE MEASURE

REQUIRED TASK INFORMATION

SRO 2008 ADM JPM 2A TASK TITLE: Determine Work Hour Limitations.

I. SAFETY CONSIDERATIONS

A. None

II. REFERENCES

A. AP-11.03, Rev 11

III. TOOLS AND EQUIPMENT

A. None

IV. SET UP REQUIREMENTS

A. Provide the shift work hour history and a copy of AP-11.03, Control of Overtime.

V. EVALUATOR NOTES

A. If performing JPM in the plant, inform the candidate that the conditions of each step need only be properly identified and not actually performed.

B. The candidate should, at a minimum, identify the change in equipment status light indication when equipment operation is simulated.

VI. TASK CONDITIONS

A. Perform in classroom.

EXAMINER's INITIAL CUE SHEET

INITIAL CONDITIONS:
The following JAF Station working hour history is given for an on-coming crew. The hours worked are in the Main Control Room during Operational Condition 1. The crew is scheduled to work Dayshift today, 4/15.

Date	CRS	RO	BOP
4/06	12 hours - Days	12 hours - Days	12 hours - Days
4/07	12 hours - Days	**OFF**	**OFF**
4/08	12 hours - Days	**OFF**	**OFF**
4/09	**OFF**	12 hours - Days	**OFF**
4/10	12 hours - Days	12 hours - Days	**OFF**
4/11	12 hours - Days	12 hours - Days	12 hours - Days
4/12	12 hours - Days	12 hours - Days	12 hours - Days
4/13	12 hours - Days	12 hours - Days	12 hours - Days
4/14	12 hours - Days	12 hours - Days	12 hours - Days

INITIATING CUE:
Evaluate the working hour history for each of the personnel above and determine whether each individual can work a full dayshift of 12 hours today, 4/15. If not, then initiate any actions that must be taken to allow the assigned individuals to work on the assigned shift. No other operators are available to work the upcoming shift. Assume no turnover time.

TASK STANDARD

The candidate will determine work hour limitations using AP-11.03.

**** - CRITICAL STEP***

	STEP	***STANDARD***	***EVALUATION / COMMENT***
1.	Obtain a controlled copy of procedure AP-11.03, Control of Overtime.	The candidate obtains a controlled copy of AP-11.03. **EXAMINER CUE:** Provide a copy of AP-11.03.	SAT / UNSAT

	STEP	*STANDARD*	*EVALUATION / COMMENT*
*2.	(Step 7.2.2) In the event that overtime must be used (including extended periods for forced outage, refueling, major maintenance or major plant modifications), the following restrictions apply: *A. An individual should not be permitted to work more than: 1. 16 hours straight (not including shift turnover time) 2. 16 hours in any 24 hour period (not including shift turnover time) 3. 24 hours in any 48 hour period (not including shift turnover time) 4. 72 hours in any 7 day, 168 hour period (not including shift turnover time) B. A break of at least 8 hours should be allowed between work periods (including shift turnover time). **NOTE:** A work period is the normal 8 or 12 hour shift an individual is assigned to work. Callouts are allowed to deviate from this criteria as long as the limitations of 7.2.2.A are met.	*2A) Applicant assesses the hours worked and to be worked, and concludes the following: • The CRS and BPO may work the entire 12-hour Dayshift of 4/15. • The RO may **NOT** work the shift because the next hour worked will result in the RPO exceeding 72 hours in any 7-day period. **OR** • All may work provided an Authorization to Exceed Overtime Limits Form (Attachment 1 of AP-11.03) is processed and approved for the RO before the overtime. **Examiner Cue:** If asked if a memo has already been prepared for the deviation, then state that a memo has NOT been prepared. **Examiner Cue:** If asked if another RO is available, state that another RO is not available. **Examiner Cue:** Take the required actions to allow the identified individual(s) to work. 2B) The applicant determines that all operators have received a break of at least 8 hours between shifts.	SAT / UNSAT SAT / UNSAT

	STEP	*STANDARD*	*EVALUATION / COMMENT*
*3.	(Step 7.2.3) In the event special circumstances arise that require deviation from the above restrictions, such deviation shall be authorized by memorandum (Attachment 1 or equivalent) by the SVP, his designee or higher level of management. This authorization shall include the reason why the deviation is necessary.	The applicant completes an Authorization to Exceed Overtime Limits Form (Attachment 1 of AP-11.03) as follows: • DATE: 4/15 • Enters shift start & end time • TOTAL HOURS: 12 • TURNOVER HOURS: 0 • HOURS WORKED: 12 • Checks box ">72 HOURS WORKED IN 7 DAYS" • Identifies that Department Manager approval AND SVP (or designee) authorization is required for the upcoming deviation. **Examiner Cue:** Inform the applicant that the required signatures will be obtained.	SAT / UNSAT
EVALUATOR: Terminate the task at this point.			

APPLICANT's INITIAL CUE SHEET

INITIAL CONDITIONS:
The following JAF Station working hour history is given for an on-coming crew. The hours worked are in the Main Control Room during Operational Condition 1. The crew is scheduled to work Dayshift today, 4/15.

Date	CRS	RO	BOP
4/06	12 hours - Days	12 hours - Days	12 hours - Days
4/07	12 hours - Days	**OFF**	**OFF**
4/08	12 hours - Days	**OFF**	**OFF**
4/09	**OFF**	12 hours - Days	**OFF**
4/10	12 hours - Days	12 hours - Days	**OFF**
4/11	12 hours - Days	12 hours - Days	12 hours - Days
4/12	12 hours - Days	12 hours - Days	12 hours - Days
4/13	12 hours - Days	12 hours - Days	12 hours - Days
4/14	12 hours - Days	12 hours - Days	12 hours - Days

INITIATING CUE:
Evaluate the working hour history for each of the personnel above and determine whether each individual can work a full dayshift of 12 hours today, 4/15. If not, then initiate any actions that must be taken to allow the assigned individuals to work on the assigned shift. No other operators are available to work the upcoming shift. Assume no turnover time.

James A. FitzPatrick Nuclear Power Plant

NRC 2008 ILT Exam
Admin Job Performance Measure

RO 2008 ADM JPM 2B TASK TITLE: Determine Work Hour Limitations.

TOPIC: Conduct of Operations

NRC K/A SYSTEM NUMBER: 2.1.10

ESTIMATED COMPLETION TIME: 15 Minutes

Approved: ____________________

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APPLICANT NAME: ________________________

JPM Completion: ( ) Simulated (X) Performed

Location: ( ) Plant ( ) Simulator (X) Classroom

DATE PERFORMED: ________________________ TIME TO COMPLETE: ____ Minutes

PERFORMANCE EVALUATION: ( ) Satisfactory ( ) Unsatisfactory

~ ~

COMMENTS: (MANDATORY FOR UNSATISFACTORY PERFORMANCE)

NRC EXAMINER: ______________________________________
SIGNATURE/PRINTED

JOB PERFORMANCE MEASURE

REQUIRED TASK INFORMATION

RO ___ 2008 ADM JPM 2B TASK TITLE: Determine Work Hour Limitations.

I. SAFETY CONSIDERATIONS

A. None

II. REFERENCES

A. AP-11.03, Rev 11

III. TOOLS AND EQUIPMENT

A. None

IV. SET UP REQUIREMENTS

A. Provide the RO work hour history and a copy of AP-11.03, Control of Overtime.

V. EXAMINER NOTES

A. If performing JPM in the plant, inform the applicant that the conditions of each step need only be properly identified and not actually performed.

B. The applicant should, at a minimum, identify the change in equipment status light indication when equipment operation is simulated.

VI. TASK CONDITIONS

A. Perform in classroom.

EXAMINER's INITIAL CUE SHEET

INITIAL CONDITIONS:
The following is your recent work hour history as a Reactor Operator. The hours worked were and are in the Main Control Room during Operational Condition 1. You are scheduled to work Dayshift today, 4/15.

Date	RO
4/06	12 hours - Days
4/07	**OFF**
4/08	**OFF**
4/09	12 hours - Days
4/10	12 hours - Days
4/11	12 hours - Days
4/12	12 hours - Days
4/13	12 hours - Days
4/14	12 hours - Days

INITIATING CUE:
Evaluate your work hour history and determine whether or not you can take the scheduled watch for a full dayshift of 12 hours today, 4/15. If applicable, then describe any notification(s) and/or actions that may need to be taken and when those notification(s) and/or actions need to be taken. Assume no turnover time.

** - CRITICAL STEP*

	STEP	*STANDARD*	*EVALUATION / COMMENT*
1.	Obtain a controlled copy of procedure AP-11.03, Control of Overtime.	The applicant obtains a controlled copy of AP-11.03. **EXAMINER CUE:** Provide a copy of AP-11.03.	SAT / UNSAT
*2.	(Step 7.2.2) In the event that overtime must be used (including extended periods for forced outage, refueling, major maintenance or major plant modifications), the following restrictions apply: *A. An individual should not be permitted to work more than: 1. 16 hours straight (not including shift turnover time) 2. 16 hours in any 24 hour period (not including shift turnover time) 3. 24 hours in any 48 hour period (not including shift turnover time) 4. 72 hours in any 7 day, 168 hour period (not including shift turnover time) B. A break of at least 8 hours should be allowed between work periods (including shift turnover time). **NOTE:** A work period is the normal 8 or 12 hour shift an individual is assigned to work. Callouts are allowed to deviate from this criteria as long as the limitations of 7.2.2.A are met.	*2A) Applicant assesses the hours worked to be worked, and **notifies his supervisor** of the following **PRIOR TO** taking the watch: • The RO may **NOT** take the shift because the next hour worked will result in the RPO exceeding 72 hours in any 7-day period. **UNLESS** • An Authorization to Exceed Overtime Limits Form (Attachment 1 of AP-11.03) is processed and approved for the RO **BEFORE** the overtime. **Examiner Cue:** If asked if a memo has already been prepared for the deviation, then state that a memo has NOT been prepared. **Examiner Cue:** If asked if another RO is available, state that another RO is not available. **Examiner Cue:** If applicant determines that he cannot take the watch, then ask the operator if there are any actions that can be taken to allow the operator to take the watch and instruct him to describe the process. 2B) The applicant determines that he has received a break of at least 8 hours between shifts.	*2A) SAT / UNSAT ***CRITICAL STEP*** 2B) SAT / UNSAT

	STEP	*STANDARD*	*EVALUATION / COMMENT*
3.	(Step 7.2.3) In the event special circumstances arise that require deviation from the above restrictions, such deviation shall be authorized by memorandum (Attachment 1 or equivalent) by the SVP, his designee or higher level of management. This authorization shall include the reason why the deviation is necessary.	The applicant describes the basic process that needs to be followed for planned overtime limit deviations. Specifically, the applicant needs to notify his supervisor **BEFORE** taking the watch **AND** he **CANNOT** take the watch **UNLESS** An Authorization to Exceed Overtime Limits Form (Attachment 1 of AP-11.03) is processed and approved for the RO **BEFORE** the overtime is worked. **Examiner Note:** The applicant does not need to fill out the form, but just needs to communicate a basic understanding of the process and the fact that a process exists to allow deviations from OT limits.	SAT / UNSAT
EXAMINER: Terminate the task at this point.			

APPLICANT's INITIAL CUE SHEET

INITIAL CONDITIONS:
The following is your recent work hour history as a Reactor Operator. The hours worked were and are in the Main Control Room during Operational Condition 1. You are scheduled to work Dayshift today, 4/15.

Date	RO
4/06	12 hours - Days
4/07	**OFF**
4/08	**OFF**
4/09	12 hours - Days
4/10	12 hours - Days
4/11	12 hours - Days
4/12	12 hours - Days
4/13	12 hours - Days
4/14	12 hours - Days

INITIATING CUE:
Evaluate your work hour history and determine whether or not you can take the scheduled watch for a full dayshift of 12 hours today, 4/15. If applicable, then describe any notification(s) and/or actions that may need to be taken and when those notification(s) and/or actions need to be taken. Assume no turnover time.

ENTERGY NUCLEAR NORTHEAST
JOB PERFORMANCE MEASURE

S/RO	2008 ADM JPM 3	TASK TITLE:	Review of Core Spray Keep Full Tagout for Adequacy

NRC K/A SYSTEM NUMBER: 2.2.13

ESTIMATED COMPLETION TIME: 15 Minutes

Approved: ______________________________

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APPLICANT NAME: ______________________________

JPM Completion ☐ Simulated ☒ Performed

Location: ☐ Simulator ☒ Classroom

DATE PERFORMED: __________ TIME TO COMPLETE: ______ Minutes

PERFORMANCE EVALUATION: ☐ Satisfactory ☐ Unsatisfactory

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COMMENTS: (MANDATORY FOR UNSATISFACTORY PERFORMANCE)

NRC EXAMINER: ______________________________
SIGNATURE / DATE

ENTERGY NUCLEAR NORTHEAST

JOB PERFORMANCE MEASURE

S/RO	2008 ADM JPM 3	TASK TITLE:	Review of Core Spray Keep Full Tagout for Adequacy

I. SAFETY CONSIDERATIONS

A. Actual plant equipment and tags are not manipulated.

II. REFERENCES

A. EN-OP-102

B. OP-14

C. FM-23A

III. TOOLS AND EQUIPMENT

A. Current copies of OP index and references.

IV. SET UP REQUIREMENTS

A. Applicant has been assigned to review the Placement positions and Placement order of a tagout and ensure that it is correct.

B. Applicant is only responsible for reviewing Placement list including component positions and sequence.

V. EXAMINER NOTES

A. Examiner's copy of component positions (Answer Key) is provided. Applicant will use the faulted list and determine that it is not adequate as drafted.

B. The Applicant should demonstrate proper use of all HU tools during the performance of the procedure.

C. Manual tag sheet is used. If a applicant asks, then, state "SOMs is out of service and SM has directed use of manual tagout for this work".

D. If applicant asks for a copy of the work order state this was reviewed and no additional information was obtained.

E. Provide applicant with references and attachment 1 and directed to review tagout.

F. May be performed in plant or classroom.

VI. TASK CONDITIONS

A. An emergent LCO was required on the "B" CSP system to replace the seal on 'B' Core Spray Hold Pump 14P-2B.

B. Work scope is to replace valve internals.

C. The tagout has been prepared.

VII. INITIATING CUE

Review the tagout. Ensure completeness of placement positions of the components on the attached list and add components as necessary. Specify the placement sequence for all required components.

*** - CRITICAL STEP**

	STEP	STANDARD	EVALUATION / COMMENT
1	Applicant determines OP and drawings	OP-14 and FM-23A are used.	SAT / UNSAT
2	Applicant reviews the isolation boundaries including the positions on Attachment 1.	The applicant determines tagout boundary including positions using FM-23A. **Examiner:** Identified components and positions should match Examiner's copy of component positions answer sheet.	SAT / UNSAT
*2 *	Applicant identifies that breaker 71MCC-163-OJ3 is not on the tagout.	2A) Applicant reports that the Tagout is missing breaker **71MCC-163-OJ3: Core Spray Hold Pump 'B'** **Examiner:** Inform applicant that breaker 71MCC-163-OJ3 will be added to the tagout.	**SAT / UNSAT**
3	Applicant identifies the correct Placement sequence on Attachment 1.	Applicant provides tagout Placement sequence. ***Examiner:*** The correct sequence is identified on the examiners copy of component positions answer sheet. Some variations of sequence are acceptable. Sequence may be more refined than noted provided the tagging standard of Switches, Breakers, Isolation, Drain/Vent is used.	SAT / UNSAT
Terminate the task at this point.			

Examiner's copy of component positions

(Answer Key)

Component	Tagged Configuration	Placement Sequence
14P-2B [SW] CORE SPRAY HOLD PUMP	STOP	1
71MCC-163-OJ3 14P-2B(M) CORE SPRAY HOLD PUMP 'B' MOTOR	OFF/REMOVED (OFF IS ALSO ACCEPTABLE)	2
14CSP-61B CORE SPRAY HOLD PUMP 'B' DISCH ISOL VALVE	CLOSED	3
14CSP-60B CORE SPRAY HOLD PUMP 'B' SUCT ISOL VALVE	CLOSED	3
14CSP-790B CORE SPRAY HOLD PUMP 'B' CASING DRAIN VALVE	OPEN	4

ATTACHMENT 1

ATTACHMENT 9.3 **TAGOUT COVER SHEET**

Clearance: 1 CYCLE-17 **Tagout:** 14 P-2B

Component to be worked:

14 P-2B,

Description:

Replacement of 14 P-2B pump seal

Placement Inst:

Ensure keep full is placed on Condensate Transfer.

Hazards:

Use caution when breaching system. Some water may be present..

Restoration Inst:

Attribute Description	Attribute Value
LCO	N

Work Order Number	Description
12345678910	Replace 14 P-2B pump seal

Status	Description	User	Verification Date
Prepared	Prepared	Ops Tag Writer #1	03/01/08
Technical Reviewed	Reviewed		
Approved	Approved		
Tags Verified Hung	Tags Verified Hung		
Removal Approved	Removal Approved		
Tags Verified Removed	Tags Verified Removed		

Applicant is to provide placement sequence and validate tag for accuracy

ATTACHMENT 9.4 **TAGOUT TAGS SHEET**

Clearance: 1 CYCLE-17 **Tagout: 14 P-2B**

Tag Serial No.	Tag Type	Equipment Equipment Description Equipment Location	Place. Seq.	Placement Configuration	Place. 1st Verif Date/Time	Place. 2nd Verif Date/Time	Rest. Seq.	Restoration Configuration	Rest. 1st Verif Date/Time	Rest. 2nd Verif Date/Time	Placement/ Removal Tag Notes
	D	14P-2B [SW] CORE SPRAY HOLD PUMP		STOP							
	D	14CSP-61B CORE SPRAY HOLD PUMP 'B' DISCH ISOL VALVE		CLOSED							
	D	14CSP-60B CORE SPRAY HOLD PUMP 'B' SUCT ISOL VALVE		CLOSED							
	D	14CSP-790B CORE SPRAY HOLD PUMP 'B' CASING DRAIN VALVE		OPEN							

TASK CONDITIONS

A. An emergent LCO was required on the "B" CSP system to replace the seal on 'B' Core Spray Hold Pump 14P-2B.

B. Work scope is to replace pump seal.

C. The tagout has been prepared.

INITIATING CUE

Review the tagout. Ensure completeness of placement positions of the components on the attached list and add components as necessary. Specify the placement sequence for all required components. Applicant is provided with ATTACHMENT 1 "Tagout Tags Sheet".

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OPERATIONS TRAINING PROGRAMS
JOB PERFORMANCE MEASURE

SRO	2008 ADM JPM 4A	TASK TITLE: CANAL DISCHARGE APPROVAL
APPL. TO	JPM NUMBER	

NRC K/A SYSTEM NUMBER: 2.3.6

ESTIMATED COMPLETION TIME: 30 Minutes

APPROVED: ____________

~ ~

APPLICANT NAME: ____________

JPM Completion: (   ) Simulated   (X) Performed

Location: (   ) Plant   (X) Simulator

DATE PERFORMED: ____________   TIME TO COMPLETE: ____ Minutes

PERFORMANCE EVALUATION: (   ) Satisfactory   (   ) Unsatisfactory

~ ~

COMMENTS: (MANDATORY FOR UNSATISFACTORY PERFORMANCE)

NRC Examiner: ____________
Signature / Date

JOB PERFORMANCE MEASURE
REQUIRED TASK INFORMATION

SRO | 2008 ADM JPM 4A | TASK TITLE: CANAL DISCHARGE APPROVAL

APPL. TO | JPM NUMBER

I. SAFETY CONSIDERATIONS

A. Ensure proper safety equipment and safety procedures are observed.

II. REFERENCES

A. OP-49, LIQUID RADIOACTIVE WASTE SYSTEM, Rev. 51

III. TOOLS AND EQUIPMENT

A. Calculator

IV. SET UP REQUIREMENTS

A. Simulator in any operating configuration with 2 Circulating Water pumps and 2 SW pumps on with tempering gate partially open (~10%). Alternately, a picture of panel(s) and computer screen printout indicating these conditions.
B. 17RM-350 data sheet containing background and K-factor is posted at 09-11
C. Operator Aid 446 available in Shift Manager Office
D. Partially completed Canal Discharge Worksheet (OP-49 Attachment 5).
E. Confirm or correct calculations for current revisions of Op Aid 446 and Liquid Process Monitor Cal Data

V. EXAMINER NOTES

A. If performing JPM in the plant, inform the applicant that the conditions of each step need only be properly identified and <u>not</u> actually performed.

B. The applicant should, at a minimum, identify the change in equipment status light indication when equipment operation is simulated.

VI. TASK CONDITIONS

A. You are the Shift Manager.
B. Current time is 12:40 pm on 3/31/08.
C. The auxiliary operator reports that tank 1A was placed in recycle at 0745 on 3/30/08.

VII. INITIATING CUE

Review the Liquid Radioactive Waste Discharge permit (Attachment 2 of SP-01.05, Section A) as well as the Liquid Radwaste Effluent Monitor Alarm Pot Setting Determination Worksheet (Attachment 10 of SP-01.05) for completeness and accuracy.

Authorize the Auxiliary Operator (Attachment 2 of SP-01.05, Section B) if appropriate.

If authorization is NOT appropriate, then note any discrepancies.

EXAMINER

Hand partially completed Liquid Radioactive Waste Discharge Permit, SP-01.05 Attachments 2 and 10 to applicant. This permit (and SP-01.05 Attachments 2 and 10) has four (4) discrepancies that need to be identified by the applicant.

Note: Applicant may "jump on" the first discrepancy (recycle time) and say the tank cannot be discharged. Tell him to review the entire permit and identify ALL discrepancies.

***CRITICAL STEP**

	STEP	*STANDARD*	*EVALUATION / COMMENT*
1.	Select procedure	Applicant reviews the discharge permit, OP-49 and checks the plant status.	SAT / UNSAT
*2.	Liquid radwaste sampling criteria (sample taken vs tank on recirc)	Applicant notes that the tank has been on recycle for less than 2 hours. This is the minimum provided in OP-49. The tank must NOT be discharged. ***EXAMINER*** A copy of the 09-11 cal data posting is attached for applicant use.	SAT / UNSAT
* 3.	SP-01.05 Data Collection section. Compare data used by chemistry to calculate discharge monitor setpoint against actual plant conditions.	Applicant observes 2 Circulating Water pumps on; vs 3 specified by Chemistry. The tank must NOT be discharged.	SAT / UNSAT

	STEP	STANDARD	EVALUATION / COMMENT
4.	Tempering gate/flow %	Applicant obtains EPIC value of 10% (EPIC-A-3547) and notes the intermediate position (red + green lights ON). This is inconsistent with what is specified by Chemistry. The tank must NOT be discharged.	SAT / UNSAT
5.	***EXAMINER*** A copy of the Operator Aid 446 curve is attached for the applicant's use. **CUE:** Indicate to the applicant that a second sample of Tank 1A has the same result as the first, all plant discrepancies have been corrected and the Chemistry setpoint data is currently correct. **CUE:** Using the provided setpoint data, determine 17RM-350 potentiometer setting for HI-Hi setpoint from OPAID 446	Approximately 8.8 turns	SAT / UNSAT
6.	**CUE:** Using the provided setpoint data, determine 17RM-350 potentiometer setting for HI-Hi setpoint from OPAID 446	Approximately 8.4 turns	SAT / UNSAT

	STEP	*STANDARD*	*EVALUATION / COMMENT*
7.	Correct potentiometer settings for Hi and Hi-Hi setpoints on Discharge permit Section B and attach this worksheet to the discharge permit. **Note: If this JPM is being administered in the simulator, have the applicant adjust the potentiometer setpoints on the back panel.**	Changes settings to 8.4 and 8.8, respectively	SAT / UNSAT
EXAMINER: Terminate the task at this point.			

TASK CONDITIONS

A. You are the Shift Manager.
B. Current time is 12:40 pm on 3/31/08.
C. The auxiliary operator reports that tank 1A was placed in recycle at 0745 on 3/30/08.

INITIATING CUE

Review the Liquid Radioactive Waste Discharge permit (Attachment 2 of SP-01.05, Section A) as well as the Liquid Radwaste Effluent Monitor Alarm Pot Setting Determination Worksheet (Attachment 10 of SP-01.05) for completeness and accuracy.

Authorize the Auxiliary Operator (Attachment 2 of SP-01.05, Section B) if appropriate.

If authorization is NOT appropriate, then note any discrepancies.

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OPERATIONS TRAINING PROGRAMS
JOB PERFORMANCE MEASURE

SRO
APPL. TO

2008 ADM JPM 5
JPM NUMBER

TASK TITLE: E-PLAN DECLARATION

NRC K/A SYSTEM NUMBER: 2.4.41

JAF TASK NUMBER: ________________

ESTIMATED COMPLETION TIME: 10 Minutes

APPROVED: ________________

~ ~

APPLICANT NAME: ______________________

JPM Completion: ( ) Simulated ( ) Performed

Location: ( ) Plant ( ) Simulator

DATE PERFORMED: ______________________ TIME TO COMPLETE: ____ Minutes

PERFORMANCE EVALUATION: ( ) Satisfactory ( ) Unsatisfactory

~ ~

COMMENTS: (MANDATORY FOR UNSATISFACTORY PERFORMANCE)

EXAMINER: ____________________________________
SIGNATURE/PRINTED

JOB PERFORMANCE MEASURE
REQUIRED TASK INFORMATION

SRO	2008 ADM JPM 5	TASK TITLE: E-PLAN DECLARATION
APPL. TO	JPM NUMBER	

I. SAFETY CONSIDERATIONS

A. Ensure proper safety equipment and safety procedures are observed.

II. REFERENCES

A. JAF Emergency Plan Implementing Procedures IAP-2, Rev. 23

III. TOOLS AND EQUIPMENT

A. None

IV. SET UP REQUIREMENTS

A. This JPM is completed as followup after the scenario progress has been frozen.

V. EXAMINER NOTES

A. If performing JPM in the plant, inform the applicant that the conditions of each step need only be properly identified and not actually performed.

B. The applicant should, at a minimum, identify the change in equipment status light indication when equipment operation is simulated.

VI. TASK CONDITIONS

None

Applicant Tear-Off Sheet

VII. INITIATING CUE

Based on the events that have just occurred determine if the current circumstances warrant classification in accordance with the JAF Emergency Plan and, if so, determine the appropriate classification level.

**** - CRITICAL STEP***

	STEP	***STANDARD***	***EVALUATION / COMMENT***
1.	Obtain/Approach IAP-2, Attachment 2.1	Applicant obtains the procedure or approaches the posted attachment.	SAT / UNSAT
2.	Recognize the applicable conditions	Applicant recognizes that the scenario events included transients that necessitate EAL declaration.	SAT / UNSAT
3.	Confirm the conditions	Applicant reviews IAP-2 Technical Bases for expected declarations.	SAT / UNSAT
	Examiner Note: Only ***one*** of the following steps (either 4, 5, 6, 7, or 8) needs to be performed by the applicant, based on the scenario just completed.		
*4.	Classify the event for Scenario #1	Applicant selects X.X.X	SAT / UNSAT
*5.	Classify the event for Scenario #2	Applicant selects X.X.X	SAT / UNSAT
*6.	Classify the event for Scenario #3	Applicant selects X.X.X	SAT / UNSAT

Applicant Tear-Off Sheet

	STEP	*STANDARD*	*EVALUATION / COMMENT*
*7.	Classify the event for Scenario #1	Applicant selects X.X.X	SAT / UNSAT
*8.	Classify the event for Scenario #5	Applicant selects 3.4.1 Site Area Emergency (Transitory) Any steam line or RWCU isolation failure resulting in a release pathway outside primary containment. 4.1.1 Site Area Emergency Primary system is discharging outside PC. And RB area temperature are > max safe in two or more operating areas	SAT / UNSAT
EXAMINER: Terminate the task at this point.			

INITIATING CUE

Based on the events that have just occurred determine if the current circumstances warrant classification in accordance with the JAF Emergency Plan and, if so, determine the appropriate classification level.