Facility: Indian Point 3		Date of Examination: March 19-30, 2001
Examination Level (circle one): RO / **SRO**		Operating Test Number: _____
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Control Room Evacuation	JPM-050 ONOP-FP-1A (CRS)
	Containment Leak Rate Calc	JPM-071
A.2	Tagging	JPM (New) : Determine blocking points for inverter in JPM-145
A.3	Liquid Release	Question: Age of sample
		Question: Action for R-18 Failure
A.4	E-Plan	JPM (New): Classification and PAR

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE	PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A
TASK NO.	084*021*04*02
JPM NO.	050

NEW YORK POWER AUTHORITY

JOB PERFORMANCE MEASURE EXAM

PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A

SUBMITTED BY	Bob Henderson	DATE	5/19/99
REVIEWED BY	E Pastuszek	DATE	5/19/99
SME REVIEW/VALIDATION BY	John J. Andrew	DATE	5/25/99
APPROVED BY		DATE	6/23/99

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A
TASK NO. 084*021*04*02
JPM NO. 050

TRAINEE _____ EVALUATOR _____

EVALUATOR SIGNATURE _____ DATE _____

PERFORMANCE METHOD: SIMULATE
PERFORMANCE LOCATION: PLANT
ESTIMATED TIME: 050: 30 MINUTES

TRAINEE PERFORMANCE: SATISFACTORY _____ UNSATISFACTORY _____

NRC KA REFERENCES:

ELEMENT	KA NUMBER	IMPORTANCE FACTOR RO	IMPORTANCE FACTOR SRO
001	Y		
002	Y		
003	Y		
004	Y		
005	Y		
009	Y		
014	Y		

DIRECTIONS TO TRAINEE:

1. WHEN I TELL YOU TO BEGIN, YOU ARE TO PERFORM THE TASK LISTED ABOVE.
2. I WILL DESCRIBE GENERAL CONDITIONS, INITIATING CUE(S), AND ANSWER ANY QUESTIONS YOU HAVE.
3. I WILL PROVIDE ACCESS TO ANY TOOLS NECESSARY TO PERFORM THE TASK.
4. YOU MAY USE ANY APPROVED REFERENCE MATERIAL NORMALLY AVAILABLE.
5. TO SATISFACTORILY COMPLETE THIS TASK, YOU MUST PERFORM OR SIMULATE EACH CRITICAL ELEMENT CORRECTLY.
6. YOU ARE TO INFORM THE EXAMINER WHEN YOU HAVE COMPLETED THE TASK.

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A
TASK NO. 084*021*04*02
JPM NO. 050

GENERAL CONDITIONS:

1 THE PLANT WAS AT 100% POWER FOR 120 DAYS WHEN A FIRE BEGAN IN THE 33' OF THE CONTROL BUILDING. THE CREW HAD BEEN FOLLOWING ONOP-FP-1, "PLANT FIRES". IT HAS BEEN DETERMINED THAT THE CONTROL ROOM MUST BE EVACUATED.

TASK STANDARDS:

1 COMPLETE INITIAL OPERATOR ACTIONS SECTION 4 OF ONOP-FP-1A

TOOLS AND EQUIPMENT:

NONE

INITIATING CUE(S):

1 YOU ARE TO PERFORM ONOP-FP-1A SECTION 4.

REFERENCED DOCUMENTS			REV DATE
1	ONOP*FP-1A	SAFE SHUTDOWN FROM OUTSIDE THE CONTROL ROOM	02/22/99

SAFETY CONSIDERATIONS:

1 MANY AREAS WILL HAVE POOR LIGHTING

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A
TASK NO. 084*021*04*02
JPM NO. 050

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST: SAT. UNSAT.

(C) 1. ANNOUNCE CCR EVACUATION ____ ____

STANDARDS:
1 ANNOUNCE OVER THE PA SYSTEM (TWICE) "ATTENTION ALL PERSONNEL! ATTENTION ALL PERSONNEL! THE CONTROL ROOM IS BEING EVACUATED. WATCH PERSONNEL REPORT IMMEDIATELY TO SAFE SHUTDOWN LOCAL CONTROL STATIONS PER ONOP-FP-1A.

NOTES:
1 CUE: THE ANNOUNCEMENT IS HEARD

(C) 2. DIRECT RO TO INITIATE ATTACHMENT 2 DIRECT STA TO INITIATE ATTACHMENT 6 ____ ____

STANDARDS:
1 TELL RO TO BEGIN ATTACHMENT 2
2 TELL STA TO INITIATE ATTACHMENT 6

NOTES:
1 CUE: RO ACKNOWLEDGES DIRECTION
2 STA ACKNOWLEDGES DIRECTION

(C) 3. VERIFY REACTOR TRIP ____ ____

STANDARDS:
1 OBSERVE INDICATIONS OF REACTOR TRIP

NOTES:
1 CUE: NEUTRON FLUX INDICATES 100%, ALL RODS AT THE TOP

(C) 4. MANUALLY TRIP THE REACTOR ____ ____

STANDARDS:
1 REACTOR TRIP AND BYPASS BREAKERS OPEN.

NOTES:
1 CUE: REACTOR TRIP AND BYPASS BREAKERS OPEN
2 NEUTRON FLUX DECREASING
3 ROD BOTTOM LIGHTS LIT
4 ALL ROD POSITION INDICATORS LESS THAN 11 STEPS.

(C) 5. VERIFY TURBINE TRIP ____ ____

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A
TASK NO. 084*021*04*02
JPM NO. 050

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST: SAT. UNSAT.

STANDARDS:
1 OBSERVE STOP AND CONTROL VALVE POSITION, MWE INDICATION

NOTES:
1 CUE: ALL STOP AND CONTROL VALVE INDICATIONS HAVE GREEN LIGHTS LIT, RED LIGHTS OUT, MWE INDICATES 0

( ) 6. VERIFY MAIN BOILER FEED PUMPS TRIPPED ____ ____

STANDARDS:
1 TRIP MAIN FEEDS PUMPS TRIPPED

NOTES:

( ) 7. VERIFY RCPS - NONE RUNNING ____ ____

STANDARDS:
1 OBSERVE STATUS OF RCPS

NOTES:
1 CUE: ALL RCPS SHOW NORMAL RUNNING AMPS, RED LIGHTS ON HANDSWITCHES

( ) 8. MANUALLY TRIP ALL RCPS ____ ____

STANDARDS:
1 ALL RCPS TRIPPED

NOTES:
1 CUE: GREEN LIGHTS ON SWITCHES
2 AMPS INDICATE ZERO.

(C) 9. ISOLATE RCS BY FAILING LETDOWN VALVES AND PORVS BY OPENING THE FOLLOWING:;- 32 DC PANEL, CIRCUIT 15;- 31 DC PANEL, CIRCUIT 5 ____ ____

STANDARDS:
1 BOTH CIRCUIT BREAKERS IN OFF

NOTES:
1 CUE BOTH CIRCUIT BREAKERS IN OFF
2 NO INDICATING LIGHTS IN:
3 - LCV-459/PCV-455C
4 - LCV-460/PCV-546

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A
TASK NO. 084*021*04*02
JPM NO. 050

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST: SAT. UNSAT.

( ) 10. CLOSE HCV-142, CHARGING LINE FLOW CONTROL ____ ____

STANDARDS:
1 SET CONTROLLER FOR HCV-142

NOTES:
1 CUE: HCV-142 INDICATES CLOSED
2 ZERO DEMAND ON HCV-142

( ) 11. MANUALLY CLOSE MSIVS ____ ____

STANDARDS:
1 MOMENTARILY SELECT "TRIP" ON ALL MSIV SWITCHES

NOTES:
1 CUE: ALL MSIV INDICATIONS SHOW GREEN LIGHTS LIT, RED LIGHTS OUT, GREEN LIGHTS ON

( ) 12. CHECK SG ATMOSPHERICS IN AUTO (72%) ____ ____

STANDARDS:
1 IN AUTO AT 72%

NOTES:
1 CUE: IN AUTO AT 72%

( ) 13. PLACE SWITCHES FOR PCV-1310A AND 1310B IN "OPEN" ____ ____

STANDARDS:
1 SELECT "OPEN" ON PCV-1310A AND PCV01310B

NOTES:
1 CUE: RED LIGHT LIT ON BOTH VALVES

(C) 14. REMOVE SECURITY KEYS FROM LOCK BOX ____ ____

STANDARDS:
1 RETAIN ONE SET OF KEYS
2 CHECK RO SET OF SECURITY KEEP REMOVED.

NOTES:
1 CUE: YOU AND THE RO BOTH HAVE A SET OF SECURITY KEYS

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A
TASK NO. 084*021*04*02
JPM NO. 050

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST: SAT. UNSAT.

( ) 15. DISPATCH NUCLEAR NPO TO OPEN CH-288, (RWST TO CHARGING PUMP SUCTION), DEENERGIZE AND CLOSE CH-MOV-112C, CLOSE CH-228, (VCT OUTLET VALVE), (HCV-142 INLET ISOLATION) AND REMAIN IN PAB ____ ____

STANDARDS:
1 CALL NUCLEAR NPO ON RADIO OR PHONE AND DIRECT HIM TO TAKE ACTIONS OF STEP

NOTES:
1 CUE: NUCLEAR NPO ACKNOWLEDGES INSTRUCTIONS

( ) 16. CHECK 480V AC BUSES ENERGIZED ____ ____

STANDARDS:
1 480V AC BUSES 2A, 3A, 5A, 6A ARE ENERGIZED

NOTES:
1 CUE: SUPPLY BREAKERS ARE CLOSED.
2 VOLTAGE INDICATED ON BUSES

( ) 17. CHECK TV CAMERA LENS CAPS REMOVED ____ ____

STANDARDS:
1 OBSERVE POSITION OF LENS CAP

NOTES:
1 CUE: CAPS ARE REMOVED

( ) 18. END ____ ____

STANDARDS:

NOTES:
1 CUE: THIS TERMINATES THE JPM

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A
TASK NO. 084*021*04*02
JPM NO. 050

TERMINATING CUE(S):

1 SECTION 4 IS COMPLETE

** STOP TIME: _____

GENERAL COMMENTS(For Evaluator use):

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM CRS INITIAL RESPONSIBILITIES OF ONOP-FP-1A
TASK NO. 084*021*04*02
JPM NO. 050

GENERAL CONDITIONS:

1 THE PLANT WAS AT 100% POWER FOR 120 DAYS WHEN A FIRE BEGAN IN THE 33' OF THE CONTROL BUILDING. THE CREW HAD BEEN FOLLOWING ONOP-FP-1, "PLANT FIRES". IT HAS BEEN DETERMINED THAT THE CONTROL ROOM MUST BE EVACUATED.

INITIATING CUE(S):

1 YOU ARE TO PERFORM ONOP-FP-1A SECTION 4.

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE	PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO.	024*001*01*01
JPM NO.	071

NEW YORK POWER AUTHORITY

JOB PERFORMANCE MEASURE EXAM

PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION

SUBMITTED BY		DATE 9/12/95
REVIEWED BY		DATE 9/12/95
SME REVIEW/VALIDATION BY		DATE 12/4/95
APPROVED BY		DATE 9/18/95

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

TRAINEE _____ EVALUATOR _____

EVALUATOR SIGNATURE _____ DATE _____

PERFORMANCE METHOD: PERFORM
PERFORMANCE LOCATION: CONTROL ROOM
ESTIMATED TIME: 071: 15 MINUTES

TRAINEE PERFORMANCE: SATISFACTORY _____ UNSATISFACTORY _____

NRC KA REFERENCES:

ELEMENT	KA NUMBER	IMPORTANCE FACTOR RO	IMPORTANCE FACTOR SRO
4	Y		
7	Y		
8	Y		
9	Y		

DIRECTIONS TO TRAINEE:

1. WHEN I TELL YOU TO BEGIN, YOU ARE TO PERFORM THE TASK LISTED ABOVE.
2. I WILL DESCRIBE GENERAL CONDITIONS, TASK STANDARD(S), INITIATING CUE(S) AND ANSWER ANY QUESTIONS YOU HAVE.
3. I WILL PROVIDE ACCESS TO ANY TOOLS NECESSARY TO PERFORM THE TASK.
4. YOU MAY USE ANY APPROVED REFERENCE MATERIAL NORMALLY AVAILABLE.
5. TO SATISFACTORILY COMPLETE THIS TASK, YOU MUST PERFORM OR SIMULATE EACH CRITICAL ELEMENT CORRECTLY.
6. YOU ARE TO INFORM THE EXAMINER WHEN YOU HAVE COMPLETED THE TASK.

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

GENERAL CONDITIONS:

1 THE WELD CHANNEL SYSTEM IS LINED UP FOR NORMAL OPERATION. CONTAINMENT INTEGRITY IS SET WITH THE PLANT OPERATING AT POWER

TASK STANDARDS:

1 ATTACHMENT 1 OF SOP-CB-4 COMPLETED AND READY FOR REVIEW BY CRS/SM.

TOOLS AND EQUIPMENT:

NONE

INITIATING CUE(S):

1 YOU ARE DIRECTED TO PERFORM THE "DAILY CONTAINMENT AIR LEAKAGE CALCULATION" IN ACCORDANCE WITH SOP-CB-4.

REFERENCED DOCUMENTS			REV DATE
1	SOP*CB-4	WELD CHANNEL AND CONTAINMENT PENETRATION PRESSURIZATION SYSTEM OPERATION	08/10/93
2	TS*3.3.D	WELD CHANNEL AND PENETRATION PRESSURIZATION SYSTEM (WC & PPS)	02/21/95

SAFETY CONSIDERATIONS:

NONE

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST:	SAT.	UNSAT.
( ) 1. OBTAIN & REVIEW SOP-CB-4	____	____
STANDARDS: 1 CANDIDATE REVIEWED SOP-CB-4 AND OBTAINED ATTACHMENT 1		
NOTES: 1 PROVIDE OPERATOR WITH YESTERDAY'S INTEGRATOR READINGS AND TIME		
( ) 2. RECORD THE DATE AND TIME OF TODAY'S READINGS	____	____
STANDARDS: 1 DATE AND TIME RECORDED		
NOTES:		
( ) 3. RECORD THE TIME OF THE PREVIOUS DAY'S READINGS	____	____
STANDARDS: 1 TIME RECORDED		
NOTES:		
(C) 4. SUBTRACT THE DIFFERENCE IN TIME. THIS IS EXPRESSED IN MINUTES. NORMALLY, READINGS ARE TAKEN AT 24 HOUR INTERVALS, I.E., 1440 MINUTES	____	____
STANDARDS: 1 DIFFERENCE IN TIME SUBTRACTED CORRECTLY		
NOTES:		
( ) 5. RECORD TODAY'S WCCPPS INTEGRATOR READINGS, THEN RESET THE INTEGRATOR COUNTERS TO ZERO	____	____
STANDARDS: 1 READINGS RECORDED		
NOTES: 1 CUE: INTEGRATOR COUNTERS INDICATE ZERO		
( ) 6. RECORD THE PREVIOUS DAY'S INTEGRATOR READINGS	____	____
STANDARDS: 1 READINGS RECORDED		

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST: SAT. UNSAT.

NOTES:
1 NORMALLY THESE WILL BE ZERO

(C) 7. SUBTRACT THE INTEGRATOR READINGS FOR EACH ZONE, THEN RECORD THE DIFFERENCE AS THE TOTAL LEAKAGE SINCE PREVIOUS DAY ____ ____

STANDARDS:
1 DIFFERENCE RECORDED

NOTES:

(C) 8. ADD THE ZONE TOTALS TO OBTAIN THE DAY'S TOTAL LEAKAGE ____ ____

STANDARDS:
1 TOTAL LEAKAGE DETERMINED

NOTES:

(C) 9. DIVIDE THE DAY'S TOTAL LEAKAGE BY THE TIME INTERVAL (IN MINUTES) BETWEEN READINGS TO OBTAIN THE DAY'S AVERAGE LEAKAGE RATE, AND RECORD THIS ON THE CCR LOG. ____ ____

STANDARDS:
1 CORRECT LEAKAGE DETERMINED

NOTES:
1 CUE: THE CRS WILL RECORD THE LEAK RATE IN THE CCR LOG

( ) 10. RECORD THE INSTANTANEOUS RECORDER LEAK RATE FROM RECORDER FR-1126 ____ ____

STANDARDS:
1 LEAK RATE RECORDED

NOTES:

( ) 11. REFER TO ONOP-CB-2 IF THE AVERAGE LEAKAGE RATE FOR THE DAY OR THE READING ON THE RECORDER FR-1126 EXCEEDS 10 SCFM. ____ ____

STANDARDS:
1 VERIFIES LEAKAGE DOES NOT EXCEED 10 SCFM

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST: SAT. UNSAT.

NOTES:
1 LEAKAGE DOES NOT EXCEED 10 SCFM

( ) 12. THE CRS AND SM SHALL SIGN THE COMPLETED CALCULATION SHEET ____ ____

STANDARDS:
1 STATES THAT THE CRS AND SM WOULD SIGN THE COMPLETED SHEET

NOTES:
1 CUE: THE CRS AND SM HAS SIGNED THE COMPLETED CALCULATION SHEET

( ) 13. INFORM THE EVALUATOR THAT THE JPM IS COMPLETE ____ ____

STANDARDS:
1 EVALUATOR INFORMED

NOTES:
1 JPM IS COMPLETE

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE	PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO.	024*001*01*01
JPM NO.	071

TERMINATING CUE(S):

1 DAILY CONTAINMENT LEAKAGE CALCULATED IN ACCORDANCE WITH SOP-CB-4.

** STOP TIME: _____

GENERAL COMMENTS(For Evaluator use):

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

GENERAL CONDITIONS:

1 THE WELD CHANNEL SYSTEM IS LINED UP FOR NORMAL OPERATION. CONTAINMENT INTEGRITY IS SET WITH THE PLANT OPERATING AT POWER

INITIATING CUE(S):

1 YOU ARE DIRECTED TO PERFORM THE "DAILY CONTAINMENT AIR LEAKAGE CALCULATION" IN ACCORDANCE WITH SOP-CB-4.

JPM N3

Initiating Cue:

31 Static Inverter has failed. You are to determine the required blocking points and prepare a tagging order. Use the form provided by the examiner.

JPM N3

Initiating Cue:

31 Static Inverter has failed. You are to determine the required blocking points and prepare a tagging order. Use the form provided by the examiner.

	SAT	UNSAT
(C) Candidate identifies all of the blocking points below.	_____	_____

SEQ	TAG#	COMPONENT	DESCRIPTION	TAGOUT POSITION	1ST	2ND
		31-INV-MTC-BYP-SWTCH				
		31-INV-BYP-LINE-SWTCH				
		31-INV-AC-BKR				
		31-INV-ALT-SRC-BKR				
		31-INV-DC-INPUT-BKR				

NEW YORK POWER AUTHORITY
INDIAN POINT 3 NUCLEAR POWER PLANT

PROTECTIVE TAGGING ORDER (PTO) COVER FORM

#00-XXXX

Description / Purpose:

Tag Type: **HOLD**

CLEARANCES ISSUED AGAINST THIS PROTECTIVE TAGGING ORDER			
CLEARANCE #	HOLDER	DATE ISSUED	DATE RETURNED

[ ] CONTINUED ON NEXT PAGE

ction provided by this PTO has been removed: _____ _____/_____

t Manager Date Time

PROTECTIVE TAGGING ORDER (PTO) TO APPLY

00-XXXX

'scription/Purpose:

HOLD

Prepared By:_____ References:_____
Signature/Date

Independent Review By:_____
Signature/Date

Protective Tagging Order Authorized By: _____ _____ _____

—

Shift Manager Signature Date Time

SEQ	TAG#	COMPONENT	DESCRIPTION	TAGOUT POSITION	INSTALLED INITIALS	VERIFIED INITIALS

[ ] CONTINUED ON NEXT PAGE

Applied By:_____ _____ _____/_____
Print Name Initials Date Time

Verified By:_____ _____ _____/_____
Print Name Initials Date Time

'ed By:_____ _____ _____/_____
Print Name Initials Date Time

Verified By:_____ _____ _____/_____
Print Name Initials Date Time

A3 QUESTION 1:

A liquid waste release is planned. After the tank has been sampled, within what period of time must the release be commenced?

ANSWER:

24 hours

REFERENCE:

SOP-WDS-14 PRECAUTIONS AND LIMITATIONS

CANDIDATE

A3 QUESTION 1:

A liquid waste release is planned. After the tank has been sampled, within what period of time must the release be commenced?

A3 QUESTION 2:

A waste monitor tank release is in progress. During the release, R-18 fails high. What action is required to release the tank?

ANSWER:

Two samples must be drawn from the tank approximately 15 minutes apart.

REFERENCE:

SOP-WDS-14 STEP 4.1.14

CANDIDATE

A3 QUESTION 2:

A waste monitor tank release is in progress. During the release, R-18 fails high. What action is required to release the tank?

SRO A.4 JPM

Initial conditions:

A SGTR has occurred on 31 SG. The SG has overfilled and a safety has failed open. The STA informs you that a red path exists for heat sink due to loss of all feed.

Initiating cue:

Classify this event and specify any required PAR
note: wind is from 330 deg, pasquale category A

START TIME:

Performance checklist:	SAT	UNSAT
(C) Classify event as a GE - unisolated steam break, SGTR, core damage indication due to loss of heat sink	____	____
(C) Identify PAR required (due to GE).	____	____
(C) Determine PAR by reference to IP 1017 is: - Evacuate 0-2 miles - Shelter ERPA 5,6,31,47,48,49	____	____

REF: ECG section 4.1 and table 4.2

COMPLETION TIME:

SRO A.4 JPM

Initial conditions:

A SGTR has occurred on 31 SG. The SG has overfilled and a safety has failed open. The STA informs you that a red path exists for heat sink due to loss of all feed.

Initiating cue:

Classify this event and specify any required PAR
note: wind is from 330 deg, pasquale category A

Facility: Indian Point 3		Date of Examination: March 19-30, 2000
Examination Level (circle one): **RO** / SRO		Operating Test Number: _____
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Control Room Evacuation	JPM-050 ONOP-FP-1A (RO responsibilities)
	Containment Leak Rate Calc	JPM-071
A.2	Tagging	JPM-0145 Evaluate/Complete Tagout
A.3	Liquid Release	Question: Age of Sample
		Question: Action for R-18 Failure
A.4	E-Plan	Event categories
		Emergency response facilities

JPM NO. 051

PERFORM REACTOR OPERATOR RESPONSIBILITIES OF ONOP-FP-1A

Job Performance Measure Exam

Submitted By _____ Date _____

Reviewed By _____ Date _____

SME Review/Validation By _____ Date _____

Approved By _____ Date _____

JPM Tasks

Task ID: 084*022*04*01 **Description:** PERFORM REACTOR OPERATOR RESPONSIBILITIES OF ONOP-FP-1A

Trainee: _____ Evaluator: _____

Evaluator Signature _____ Date _____

Trainee Performance: Satisfactory _____ Unsatisfactory _____

Start Time _____ **Stop Time:**

When I tell you to begin, you are to perform the task listed above. I will describe general conditions standard(s), initiating cue(s), and answer any questions you have. I will provide access to any tools necessary to perform the task. You may use any approved reference material normally available. To satisfactory complete this task, you must perform or simulate each critical element correctly. You are to inform the examiner when you have completed the task.

General Comments (For Evaluator Use):

Task Conditions:

YOU ARE THE REACTOR OPERATOR. THE PLANT WAS AT 100% POWER FOR 120 DAYS WHEN A FIRE BEGAN IN THE 33{ OF THE CONTROL BUILDING.

Task Standards :

COMPLETE ATTACHMENT 2 OF ONOP-FP-1A.

Tools Needed:

Initiating Cues :

SEVERAL COMPONENTS HAVE EXHIBITED SPURIOUS OPERATION, AND THE CRS HAS DETERMINED THAT CONTROL OF THE PLANT IS NO LONGER POSSIBLE FROM THE CONTROL ROOM. THE CRS HAS GIVEN YOU ONE SET OF SECURITY KEYS. WHEN YOU LEAVE THE CONTROL ROOM, THE NORMAL LIGHTS GO OUT, AND ONLY THE EMERGENCY LIGHTS ARE LIT. YOU ARE DIRECTED TO COMPLETE RO ACTIONS ON ATTACHMENT 2 OF ONOP-FP-1A TO ESTABLISH FLOW TO THE SGS.

References :

ID		Description	Review Date	Ref Flag
ONOP	FP-1A	SAFE SHUTDOWN FROM OUTSIDE THE CONTROL ROOM		X
SOP	ESP-1	LOCAL OPERATION OF SAFE SHUTDOWN EQUIPMENT		X

Safety Considerations :

MANY AREAS WILL HAVE POOR LIGHTING

Consequences of Inadequate Performance:

POTENTIAL FOR CORE DAMAGE

Performance Checklist :

	Element :	Standards :	Conditions :
1	OBTAIN ONE SET OF SECURITY KEYS FOR CR LOCK BOX	KEYS GIVEN AS PART OF INITIAL CONDITIONS	CUE: YOU HAVE SECURITY KEYS

Comments :

Critical Task? [N]

Satisfactory ☐ **Unsatisfactory** ☐

	Element :	Standards :	Conditions :
2	OBTAIN EQUIPMENT FROM APPENDIX R LOCKER: 2 FLASHLIGHTS, 2 APPENDIX R KEY RINGS, PROCEDURES FOR RO AND CONDENSATE POLISHER NPO, 2 RADIOS	OBTAIN EQUIPMENT; PERFORM RADIO CHECKS	CUE: YOU HAVE 2 FLASHLIGHTS, TWO APPENDIX {R{ KEY RINGS, PROCEDURES FOR RO AND CONDENSATE POLISHER NPO AND TWO RADIOS; RADIO CHECKS ARE COMPLETE AND SATISFACTORY

Comments :

Critical Task? [Y]

Satisfactory ☐ **Unsatisfactory** ☐

	Element :	Standards :	Conditions :
3	LOCALLY VERIFY TURBINE TRIPPED	OBSERVE STATUS OF TURBINE, ROTATE TRIP LEVER TO }TRIP}	CUE: TURBINE SPEED INDICATES 1800 RPM, AFTER TURBINE IS LOCALLY TRIPPED, SPEED IS DECREASING

Comments :

Critical Task? [Y]

Satisfactory ☐ **Unsatisfactory** ☐

	Element :	Standards :	Conditions :
4	REPORT TO LOCAL ABFP/SG LEVEL CONTROL PANEL	GO TO LOCAL STATION	

Comments :

Critical Task? [Y]

Satisfactory ☐ **Unsatisfactory** ☐

	Element :	Standards :	Conditions :
5	GIVE FLASHLIGHT, KEY RING, PROCEDURES TO CONDENSATE POLISHER NPO	GIVE EQUIPMENT TO CONDENSATE POLISHER NPO	CUE: CONDENSATE POLISHER NPO HAS EQUIPMENT

Comments :

Critical Task? [Y]

Satisfactory ☐ **Unsatisfactory** ☐

Element :	Standards :	Conditions :
DISPATCH CONDENSATE POLISHER NPO TO PERFORM ATTACHMENT 4	DIRECT CONDENSATE POLISHER NPO	CUE: CONDENSATE POLISHER NPO ACKNOWLEDGES DIRECTION

Comments :

CUE: THIS ENDS THE JPM

Critical Task? [Y]

Satisfactory ☐ **Unsatisfactory** ☐

	Element :	Standards :	Conditions :
7	CHECK NITROGEN BACKUP SYSTEM BY VERIFYING IA-411, IA-PCV-1276 BYPASS IS CLOSED	TURN HANDWHEEL IN CLOCKWISE DIRECTION	CUE: VALVE HANDWHEEL TURNS IN THE CLOCKWISE DIRECTION, THEN STOPS TURNING

Comments :

Critical Task? [N]

Satisfactory ☐ **Unsatisfactory** ☐

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE	PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO.	024*001*01*01
JPM NO.	071

NEW YORK POWER AUTHORITY

JOB PERFORMANCE MEASURE EXAM

PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION

SUBMITTED BY		DATE 9/12/95
REVIEWED BY		DATE 9/12/95
SME REVIEW/VALIDATION BY		DATE 12/1/95
APPROVED BY		DATE 9/18/95

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

TRAINEE _____ EVALUATOR _____

EVALUATOR SIGNATURE _____ DATE _____

PERFORMANCE METHOD: PERFORM
PERFORMANCE LOCATION: CONTROL ROOM
ESTIMATED TIME: 071: 15 MINUTES

TRAINEE PERFORMANCE: SATISFACTORY _____ UNSATISFACTORY _____

NRC KA REFERENCES:

ELEMENT	KA NUMBER	IMPORTANCE FACTOR RO	IMPORTANCE FACTOR SRO
4	Y		
7	Y		
8	Y		
9	Y		

DIRECTIONS TO TRAINEE:

1. WHEN I TELL YOU TO BEGIN, YOU ARE TO PERFORM THE TASK LISTED ABOVE.
2. I WILL DESCRIBE GENERAL CONDITIONS, TASK STANDARD(S), INITIATING CUE(S AND ANSWER ANY QUESTIONS YOU HAVE.
3. I WILL PROVIDE ACCESS TO ANY TOOLS NECESSARY TO PERFORM THE TASK.
4. YOU MAY USE ANY APPROVED REFERENCE MATERIAL NORMALLY AVAILABLE.
5. TO SATISFACTORILY COMPLETE THIS TASK, YOU MUST PERFORM OR SIMULATE EAC CRITICAL ELEMENT CORRECTLY.
6. YOU ARE TO INFORM THE EXAMINER WHEN YOU HAVE COMPLETED THE TASK.

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

GENERAL CONDITIONS:

1 THE WELD CHANNEL SYSTEM IS LINED UP FOR NORMAL OPERATION. CONTAINMENT INTEGRITY IS SET WITH THE PLANT OPERATING AT POWER

TASK STANDARDS:

1 ATTACHMENT 1 OF SOP-CB-4 COMPLETED AND READY FOR REVIEW BY CRS/SM.

TOOLS AND EQUIPMENT:

NONE

INITIATING CUE(S):

1 YOU ARE DIRECTED TO PERFORM THE "DAILY CONTAINMENT AIR LEAKAGE CALCULATION" IN ACCORDANCE WITH SOP-CB-4.

REFERENCED DOCUMENTS

			REV DATE
1	SOP*CB-4	WELD CHANNEL AND CONTAINMENT PENETRATION PRESSURIZATION SYSTEM OPERATION	08/10/93
2	TS*3.3.D	WELD CHANNEL AND PENETRATION PRESSURIZATION SYSTEM (WC & PPS)	02/21/95

SAFETY CONSIDERATIONS:

NONE

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST:	SAT.	UNSAT.
( ) 1. OBTAIN & REVIEW SOP-CB-4	____	____
STANDARDS: 1 CANDIDATE REVIEWED SOP-CB-4 AND OBTAINED ATTACHMENT 1		
NOTES: 1 PROVIDE OPERATOR WITH YESTERDAY'S INTEGRATOR READINGS AND TIME		
( ) 2. RECORD THE DATE AND TIME OF TODAY'S READINGS	____	____
STANDARDS: 1 DATE AND TIME RECORDED		
NOTES:		
( ) 3. RECORD THE TIME OF THE PREVIOUS DAY'S READINGS	____	____
STANDARDS: 1 TIME RECORDED		
NOTES:		
(C) 4. SUBTRACT THE DIFFERENCE IN TIME. THIS IS EXPRESSED IN MINUTES. NORMALLY, READINGS ARE TAKEN AT 24 HOUR INTERVALS, I.E., 1440 MINUTES	____	____
STANDARDS: 1 DIFFERENCE IN TIME SUBTRACTED CORRECTLY		
NOTES:		
( ) 5. RECORD TODAY'S WCCPPS INTEGRATOR READINGS, THEN RESET THE INTEGRATOR COUNTERS TO ZERO	____	____
STANDARDS: 1 READINGS RECORDED		
NOTES: 1 CUE: INTEGRATOR COUNTERS INDICATE ZERO		
( ) 6. RECORD THE PREVIOUS DAY'S INTEGRATOR READINGS	____	____
STANDARDS: 1 READINGS RECORDED		

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

** START TIME:_____ (C) DENOTES CRITICAL ELEMEN

PERFORMANCE CHECKLIST: SAT. UNSAT.

NOTES:
1 NORMALLY THESE WILL BE ZERO

(C) 7. SUBTRACT THE INTEGRATOR READINGS FOR EACH ZONE, THEN RECORD THE DIFFERENCE AS THE TOTAL LEAKAGE SINCE PREVIOUS DAY ____ ____

STANDARDS:
1 DIFFERENCE RECORDED

NOTES:

(C) 8. ADD THE ZONE TOTALS TO OBTAIN THE DAY'S TOTAL LEAKAGE ____ ____

STANDARDS:
1 TOTAL LEAKAGE DETERMINED

NOTES:

(C) 9. DIVIDE THE DAY'S TOTAL LEAKAGE BY THE TIME INTERVAL (IN MINUTES) BETWEEN READINGS TO OBTAIN THE DAY'S AVERAGE LEAKAGE RATE, AND RECORD THIS ON THE CCR LOG. ____ ____

STANDARDS:
1 CORRECT LEAKAGE DETERMINED

NOTES:
1 CUE: THE CRS WILL RECORD THE LEAK RATE IN THE CCR LOG

( ) 10. RECORD THE INSTANTANEOUS RECORDER LEAK RATE FROM RECORDER FR-1126 ____ ____

STANDARDS:
1 LEAK RATE RECORDED

NOTES:

( ) 11. REFER TO ONOP-CB-2 IF THE AVERAGE LEAKAGE RATE FOR THE DAY OR THE READING ON THE RECORDER FR-1126 EXCEEDS 10 SCFM. ____ ____

STANDARDS:
1 VERIFIES LEAKAGE DOES NOT EXCEED 10 SCFM

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST: SAT. UNSAT.

NOTES:
1 LEAKAGE DOES NOT EXCEED 10 SCFM

( ) 12. THE CRS AND SM SHALL SIGN THE COMPLETED CALCULATION SHEET ____ ____

STANDARDS:
1 STATES THAT THE CRS AND SM WOULD SIGN THE COMPLETED SHEET

NOTES:
1 CUE: THE CRS AND SM HAS SIGNED THE COMPLETED CALCULATION SHEET

( ) 13. INFORM THE EVALUATOR THAT THE JPM IS COMPLETE ____ ____

STANDARDS:
1 EVALUATOR INFORMED

NOTES:
1 JPM IS COMPLETE

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE	PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO.	024*001*01*01
JPM NO.	071

TERMINATING CUE(S):

1 DAILY CONTAINMENT LEAKAGE CALCULATED IN ACCORDANCE WITH SOP-CB-4.

** STOP TIME: _____

GENERAL COMMENTS(For Evaluator use):

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE PERFORM DAILY CONTAINMENT LEAKAGE CALCULATION
TASK NO. 024*001*01*01
JPM NO. 071

GENERAL CONDITIONS:

1 THE WELD CHANNEL SYSTEM IS LINED UP FOR NORMAL OPERATION. CONTAINMENT INTEGRITY IS SET WITH THE PLANT OPERATING AT POWER

INITIATING CUE(S):

1 YOU ARE DIRECTED TO PERFORM THE "DAILY CONTAINMENT AIR LEAKAGE CALCULATION" IN ACCORDANCE WITH SOP-CB-4.

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE	EXECUTE AN OPERATING ORDER
TASK NO.	200*012*01*04
JPM NO.	145

NEW YORK POWER AUTHORITY

JOB PERFORMANCE MEASURE EXAM

EXECUTE AN OPERATING ORDER

SUBMITTED BY		DATE	11/19/96
REVIEWED BY		DATE	NOV 19 1996
SME REVIEW/VALIDATION BY	E. Scarano	DATE	11/19/96
APPROVED BY		DATE	11/19/96

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE EXECUTE AN OPERATING ORDER
TASK NO. 200*012*01*04
JPM NO. 145

TRAINEE _____ EVALUATOR _____

EVALUATOR SIGNATURE _____ DATE _____

PERFORMANCE METHOD: PERFORM, SIMULATE, DISCUSS
PERFORMANCE LOCATION: PLANT
ESTIMATED TIME: 145: 45 MINUTES

TRAINEE PERFORMANCE: SATISFACTORY _____ UNSATISFACTORY _____

NRC KA REFERENCES:

ELEMENT	KA NUMBER	IMPORTANCE FACTOR RO	IMPORTANCE FACTOR SRO
002	Y		
003	Y		
005	Y		

DIRECTIONS TO TRAINEE:

1. WHEN I TELL YOU TO BEGIN, YOU ARE TO PERFORM THE TASK LISTED ABOVE.
2. I WILL DESCRIBE GENERAL CONDITIONS, INITIATING CUE(S), AND ANSWER ANY QUESTIONS YOU HAVE.
3. I WILL PROVIDE ACCESS TO ANY TOOLS NECESSARY TO PERFORM THE TASK.
4. YOU MAY USE ANY APPROVED REFERENCE MATERIAL NORMALLY AVAILABLE.
5. TO SATISFACTORILY COMPLETE THIS TASK, YOU MUST PERFORM OR SIMULATE EACH CRITICAL ELEMENT CORRECTLY.
6. YOU ARE TO INFORM THE EXAMINER WHEN YOU HAVE COMPLETED THE TASK.

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE EXECUTE AN OPERATING ORDER
TASK NO. 200*012*01*04
JPM NO. 145

GENERAL CONDITIONS:

1 THE ATTACHED PROTECTIVE TAGGING ORDER (TRAINING USE ONLY) HAS BEEN PREPARED, REVIEWED AND AUTHORIZED FOR HANGING. NOTE: TO PROTECT PLANT INTEGRITY, PTO TAGS ARE NOT GOING TO BE USED IN THIS JPM. YOU ARE TO DESCRIBE IN DETAIL YOUR ACTIONS REGARDING THE INSTALLING OF THIS PTO INCLUDING THE HANDLING OF PTO TAGS.

TASK STANDARDS:

1 AP-10.1

TOOLS AND EQUIPMENT:

NONE

INITIATING CUE(S):

1 APPLY THE ATTACHED PTO IN ACCORDANCE WITH THE REQUIREMENTS OF AP-10.1 SECTION 3.3

REFERENCED DOCUMENTS			REV DATE
1	AP*10.1	OPERATING ORDERS AND CONTROL OF STOP TAGS, DO NOT OPERATE TAGS AND LOCKS	06/19/95

SAFETY CONSIDERATIONS:

1 ALL PERSONNEL ASSOCIATED WITH THIS TASK SHALL WEAR PROTECTIVE EQUIPMENT APPROPRIATE TO THE PLANT AREAS AND CONDITIONS AT THE TIME OF THE JPM.

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE EXECUTE AN OPERATING ORDER
TASK NO. 200*012*01*04
JPM NO. 145

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST:	SAT.	UNSAT.
( ) 1. ENTER THE CURRENT DATE ON THE TAG.	____	____

STANDARDS:
1 OPERATOR SIMULATES WRITING CURRENT DATE ON TAG TO BE HUNG.

NOTES:
1 DISCUSS AND SIMULATE THIS ACTION AS TAGS ARE NOT ACTUALLY APPLIED IN THIS JPM.

(C) 2. VERIFY THE NOMENCLATURE ON THE TAG (SHEET) MATCHES THE NOMENCLATURE OF THE COMPONENT TO BE POSITIONED.	____	____
(C) 3. PLACE THE COMPONENT IN THE SPECIFIED POSITION, ENSURING THE POSITION MATCHES THE TAG POSITION REQUIREMENTS.	____	____

STANDARDS:
1 OPERATOR VERIFIES THAT COMPONENT NAME AND SHEET NOMENCLATURE MATCH BEYOND A REASONABLE DOUBT.

NOTES:

STANDARDS:
1 OPERATOR SIMULATES CORRECTLY POSITIONING/OPERATING COMPONENTS IAW PTO REQUIREMENTS.

NOTES:
1 ALL COMPONENTS SHALL BE SIMULATED TO BE CORRECTLY POSITIONED FOR SATISFACTORY PERFORMANCE. NOTE SAT OR UNSAT FOR EACH COMPONENT BELOW:
2 TAG #1:_____ SAT _____ UNSAT
3 TAG #2:_____ SAT _____ UNSAT
4 TAG #3:_____ SAT _____ UNSAT
5 TAG #4:_____ SAT _____ UNSAT
6 TAG #5:_____ SAT _____ UNSAT
7 COMMENTS:_____

( ) 4. ATTACH HOLD TAG ON THE COMPONENT SUCH THAT IT IS CLEARLY VISIBLE AND FIRMLY ATTACHED.	____	____

STANDARDS:
1 SIMULATE TAG IS PROPERLY ATTACHED TO COMPONENT.

NOTES:
1 SIMULATE THIS ACTION. TAGS ARE NOT ACTUALLY HUNG

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE EXECUTE AN OPERATING ORDER
TASK NO. 200*012*01*04
JPM NO. 145

** START TIME:_____ (C) DENOTES CRITICAL ELEMENT

PERFORMANCE CHECKLIST: SAT. UNSAT.

IN THIS JPM.

(C) 5. INITIAL THE APPROPRIATE "INSTALLED INITIALS" COLUMN OF THE PTO TO APPLY FORM. ____ ____

STANDARDS:
1 PTO TO APPLY FORM CORRECTLY FILLED OUT FOR ALL COMPONENTS.

NOTES:

( ) 6. COMPLETE THE "APPLIED BY" SECTION OF THE PTO TO APPLY FORM. ____ ____

STANDARDS:
1 OPERATOR IDENTIFIES HIMSELF IN THE APPROPRIATE SECTION OF THE FORM.

NOTES:

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE EXECUTE AN OPERATING ORDER
TASK NO. 200*012*01*04
JPM NO. 145

TERMINATING CUE(S):

1 THE SYSTEM IS PROPERLY ALIGNED AND THE ATTACHED PTO IS APPLIED CORRECTLY.

**** STOP TIME:** _____

GENERAL COMMENTS(For Evaluator use):

NEW YORK POWER AUTHORITY
JOB PERFORMANCE MEASURE EXAM

TASK TITLE EXECUTE AN OPERATING ORDER
TASK NO. 200*012*01*04
JPM NO. 145

GENERAL CONDITIONS:

1 THE ATTACHED PROTECTIVE TAGGING ORDER (TRAINING USE ONLY) HAS BEEN PREPARED, REVIEWED AND AUTHORIZED FOR HANGING. NOTE: TO PROTECT PLANT INTEGRITY, PTO TAGS ARE NOT GOING TO BE USED IN THIS JPM. YOU ARE TO DESCRIBE IN DETAIL YOUR ACTIONS REGARDING THE INSTALLING OF THIS PTO INCLUDING THE HANDLING OF PTO TAGS.

INITIATING CUE(S):

1 APPLY THE ATTACHED PTO IN ACCORDANCE WITH THE REQUIREMENTS OF AP-10.1 SECTION 3.3

PROTECTIVE TAGGING ORDER (PTO) TO APPLY For training only

Description / Purpose: EL-31-STATIC-INVERTER
ISOLATE 31 STATIC INVERTER FOR MTC
(REMOVE FROM SERVICE PER SOP-EL-2)
HOLD

Prepared By: Former SRO / date — References: SOP-EL-2
signature/date

Independent Review By: Active SRO / date
signature/date

Protective Tagging Order Authorized By: Shift Manager designee — date — time
Shift Manager signature — Date — Time

SEQ	TAG#	COMPONENT	[DESCRIPTION]	TAGOUT POSITION	INSTALLED INITIALS	VERIFIED INITIALS
1	1	31-INV-MTC-BYP-SWTCH	31 STATIC INVERTER MAINTENENCE BYPASS SWITCH (LOCATED ON THE BYPASS PANEL)	BYPASSED		
2	2	31-INV-BYP-LINE-SWTCH	BYPASS LINE TO INVERTER TRANSFER SWITCH	OFF		
3	3	31-INV-AC-BKR	"AC OUTPUT" BREAKER FOR 31 INVERTER TO 31 INSTRUMENT BUS	OFF		
4	4	31-INV-ALT-SRC-BKR	"ALTERNATE AC SOURCE" BREAKER ON 31 INVERTER FROM MCC-34	OFF		
		31-INV-DC-INPUT-BKR	"DC INPUT" BREAKER TO 31 INVERTER	OFF		

[ ] CONTINUED ON NEXT PAGE

Applied By: _____ (Print Name) _____ (Initials) _____/_____ (DATE / TIME)

Verified By: _____ (Print Name) _____ (Initials) _____/_____ (DATE / TIME)

Applied By: _____ (Print Name) _____ (Initials) _____/_____ (DATE / TIME)

Verified By: _____ (Print Name) _____ (Initials) _____/_____ (DATE / TIME)

A3 QUESTION 1:

A liquid waste release is planned. After the tank has been sampled, within what period of time must the release be commenced?

ANSWER:

24 hours

REFERENCE:

SOP-WDS-14 PRECAUTIONS AND LIMITATIONS

CANDIDATE

A3 QUESTION 1:

A liquid waste release is planned. After the tank has been sampled, within what period of time must the release be commenced?

A3 QUESTION 2:

A waste monitor tank release is in progress. During the release, R-18 fails high and the release is terminated. What action is required to reinitiate the release?

ANSWER:

Two samples must be drawn from the tank approximately 15 minutes apart.

REFERENCE:

SOP-WDS-14 STEP 4.1.14

CANDIDATE

A3 QUESTION 2:

A waste monitor tank release is in progress. During the release, R-18 fails high. What action is required to release the tank?

RO A.4 #1

Question:

a.) What are the IP3 emergency response facilities?
b.) Where would extra NPOs be obtained from once these facilities are manned

Answer:

a.) Control Room (not required), TSC, EOF, OSC,

b.) OSC

CANDIDATE

RO A.4 #1

Question:

a.) What are the IP3 emergency response facilities?
b.) Where would extra NPOs be obtained from once these facilities are manned

RO A.4 #2

What are the event classifications in order of significance?

Answer:

Unusual Event, Alert, Site Area Emergency, General Emergency

CANDIDATE

RO A.4 #2

What are the event classifications in order of significance?