

Called 9/27/99

• Need Forms 301-4, 301-5, and 301-6

• Written exam outlines (RO & SRO) - no comments

(Jerry called 10/4 had to make change to outline on 1 question)

• PART C - use of one event for N and R (power change)
- Make 'N' a separate, different event

- What are EP classifications for each scenario

PART B - JPOU SI-C - Withdraw control rods to achieve criticality (check to see if it takes too much time)

• REVIEW of 301-4, 5, 6 sent in 10/1 -

ES-301-4 #8 not signed in "b" column

ES-301-5 not signed for test #4 for S2 & S5

Called Jerry
10/5 to inform
of missing 10/5 and
feedback on N & R.
Also EP classifications
(on Revised Scenarios)

Facility: <u>Nine Mile Point # 2</u> Examination Level (circle one): RO		Date of Examination: <u>12/06/99</u> Operating Test Number: <u>Cat A Test 1</u>	
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions	
A.1	Shift Turnover	Question: 1. Given watchstanding history, medical data and training data, determine requirements to stand watches. (Active license requirements). K/A 2.1.3 - <i>Comments</i>	
		Question: 2.. Determine if it is acceptable to work without violating control of working hours guidelines and Tech Specs. K/A 2.1.1	
	Start Up Requirements	Question: 1. What rod movement restrictions apply to control rods during a reactor startup, based on procedural requirements after SRM count rates have reached the four doubling value? K/A 2.2.1, 2.2.2, 2.2.34 <i>Use SRM2 rather than SRMA for 4 x's double.</i>	
		Question: 2. What actions are required if the reactor criticality data recorded, the doubling time is 40 seconds? K/A 2.1.23, 2.2.1, 2.2.2	
A.2	Piping and Instrument Drawings	Question: 1. Using the PIDs, trace the Fire Protection Water flow path from the motor driven fire water pump 2FPW-P2, to the RPV using RHS Train A. 2RHS*MOV24A is available for injection. Where necessary, add EOP equipment to be used. K/A 2.1.24 <i>PRA (IPE: Fire Water - RHR Crosstie) Comments</i>	
		Question: 2. Using a PID drawing , describe how the motor operated Testable Check Bypass Valve RHS*MOV67B will respond to a LOCA signal. K/A 2.1.24 <i>Comments - Let candidate "find" ans/points</i>	
A.3	Radiation Work Permits	Question 1. Review the attached Survey 68 for Turbine Building 277' Condensate Demin Valve Aisle and identify the radiological hazard(s). K/A 2.3.10 <i>Comments.</i>	
		Question 2. Review a Radiation work Permit (22, Revision 313), and identify sign in requirements for Auxiliary Operators, protective clothing requirements and actions to be taken if while passing through an area you check your Electronic Dosimeter (ED) and it is reading 120 mrem/hr. What action are required? K/A 2.3.10 <i>Comments</i>	
A.4	Emergency Classification	Question 1. What are the actions required during a Station Evacuation, while EOP actions are being implemented.? K/A 2.4.12, 2.4.29, 2.4.34, 2.4.41	
		Question 2. During a Hydrogen fire at the Generator seals, personnel are known to be missing. How will search and rescue be organized with the OSC manned? K/A 2.4.39, 2.4.29, 2.4.42 <i>Comments</i>	

Questions with wrong AS have been removed

Facility: Nine Mile Point # 2
 Examination Level (circle one): **SRO**

Date of Examination: 12/06/99
 Operating Test Number: Cat A Test 1

Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Plant Parameter Verification	JPM: (New) Water Chemistry Operating Limits Determination (SRO ONLY). K/A 2.1.33, 2.1.34
	Shift Turnover	<p>Question: 1. Given watchstanding history, medical data and training data, determine requirements to stand watches. (Active license requirements). <i>Same as RO Question - Same comments</i></p> <p>Question: 2. Given the number of shift personnel, determine if minimum manning requirements are being met. K/A 2.1.1, 2.1.3, 2.1.4, 2.1.5 <i>Comment - Is it a direct look up?</i></p>
A.2	Piping and Instrument Drawings	<p>Question: 1. Using the PIDs, trace the Fire Protection Water flow path from the motor driven fire water pump 2FPW-P2, to the RPV using RHS Train A. 2RHS*MOV24A is available for injection. Where necessary, add EOP equipment to be used. K/A 2.1.24 PRA (IPE: Fire Water - RHR Crosstie) <i>Same as RO Question - Same comments</i></p>
		<p>Question: 2. Using a PID drawing, describe how the motor operated Testable Check Bypass Valve RHS*MOV67B will respond to a LOCA signal. K/A 2.1.24 <i>Same as RO Question - same comments</i></p>
A.3	Radiation Work Permits	<p>Question 1. Review the attached Survey 68 for Turbine Building 277' Condensate Demin Valve Aisle and identify the radiological hazard(s). K/A 2.3.10 <i>Same as RO Question - same comments</i></p>
		<p>Question 2. Review a Radiation work Permit (22, Revision 313), and identify sign in requirements for Auxiliary Operators, protective clothing requirements and actions to be taken if an AO has to be sent into an area with a general area radiation level of 20 mrem/hr for four (4) hours? K/A 2.3.10 <i>Same as RO Question - same comments</i></p>
A.4	Emergency Classification	JPM: (New) Emergency Plan classification of each SRO candidates scenario (to be administered after each scenario). K/A 2.4.29, 2.4.41

K/A# 2.1.3 Importance 3.0

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Shift Turnover
Question Number:	1

Question:

Use today's date.
Assume you are 42 years old when answering this question.

Evaluate the following information and determine what requirements must be met before you fill a CSO position on January 1, 2000.

- You filled a shift CSO position this year until September 1, when you were assigned to Operations Support until the end of the year. Since the assignment, you have stood the following 12-hour watches as CSO:
 - September:** Three (3) 12-hour watches
 - October:** Three (3) 12-hour watches
 - November:** NO watches
 - December:** NO watches and none scheduled
- Medical exam and respiratory physical is completed on 11/30/98. Documented in accordance with station procedures on 11/30/98.
- SCBA and Scott full-face qualification including a fit-test for each is completed on 6/6/99. Documented in accordance with station procedures on 6/10/99.
- With the exception of completing the remediation for a requal cyclic written exam failure last Friday, you have completed all training and passed all other evaluations.

Answer:

Must complete the training remediation, then stand at least two (2) 12-hour watches as the RO or CSO by 12/31/99.

Technical Reference(s):
S-ODP-TQS-0101, Rev 01
Section 3.10, 4.2, 4.4

Ans. not complete.

2.1
 pass 5 - ODP-TQS-0101 Plant Manager must certify inactive to active status. Probably gets input from Ops Training Coordinator.
 Section 3.9 - shifts
 - Plant tour

Nine Mile Point 2 Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Shift Turnover
Question Number:	1

K/A #:	Importance:
2.1.3	3.0

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Startup Requirements
Question Number:	1

Question:

A reactor startup is in progress using Startup Control Rod Sequence A2UP. SRM readings recorded prior to the startup:

SRM A = 100 cps SRM B = 120 cps
 SRM C = 130 cps SRM D = 110 cps

RWM Step 8 was just completed. SRM count rates are:

SRM A = 1800 cps SRM B = 1900 cps
 SRM C = 1920 cps SRM D = 1610 cps

What rod movement restrictions apply to control rods in RWM step 9.

Make SRM C the one that is beyond 4 doublings

Answer:

When any SRM count rate reaches four doublings (SRM A is beyond four doubles), control rod withdrawals shall be performed in the single notch mode until the reactor is critical, unless otherwise directed by the Reactor Engineer.

Technical Reference(s):
 N2-OP-101A, Section 2.13.15

K/A #:	Importance:
2.2.1	3.7
2.2.2	4.0
2.2.34	2.8

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.2
Subject Description:	Piping and Instrument Drawings
Question Number:	1

Question:

Using the PIDs, trace the Fire Protection Water flow path from the motor driven fire pump, 2FPW-P2, to the RPV using RHS Train A. 2RHS*MOV24A is available for injection. Where necessary, add EOP equipment to be used. *is this necessary*
Flow path should be documented.
UE

Answer:

PID 43A, J-7	2FPW-P2, motor driven fire pump
PID 43A, L3, L-4	exit to PID 43B, K-3
PID 43B, K-3	fire water from PID 43A
PID 43B, I-4	exit to PID 43G, J-9
PID 43G, J-9	fire water from PID 43B
PID 43G, H-9	exit to PID 43F, E-9
PID 43F, E-9	fire water from PID 43G
PID 43F, G-6	disconnect fire hose from FHR (fire hose reel) 93 and connect EOP fire hose to FHR 93. Connect the EOP fire hose reel to Condensate Makeup and Transfer System blind flange (PID 4B, G-8)
PID 4B, G-8	fire water from PID 43F Blind flange for connecting EOP fire hose using equipment in EOP toolbox.
PID 4B, H-8	exit to PID 31A, A-1
PID 31A, A-1	fire water from PID 4B
PID 31A, C-5	fire water injection to the RPV using 2RHS*MOV24A

NOTE: It is not necessary to identify the valves on PIDs which are closed or verified closed to perform this evolution. (i.e., 2RHS*MOV33A [C-2] and 2RHS*MOV38A [B-6] on PID 31C, 2RHS*MOV12A [I-6] on PID 31D, 2RHS*MOV8A [B-3] on PID 31F).

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.2
Subject Description:	Piping and Instrument Drawings
Question Number:	1

Technical Reference(s):
N2-EOP-06, Att. 6, Rev 05, Section 3.1
PID 43A, B, G, F
PID 4B
PID 31A

K/A #:	Importance:
2.1.24	2.8

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.2
Subject Description:	P&IDs
Question Number:	2

Question:

The plant is operating at power, when a LOCA signal is received.

~~Using RESIDUAL HEAT REMOVAL PRINT PID-31A-13,~~ Describe how the motor operated Testable Check Bypass Valve RHS*MOV67B is lined up during power operations and how the valve will respond to the LOCA signal.

Answer:

Valve is closed and will remain closed.
Per Note 9, The power supplies to the motor operator are opened to preclude spurious actuation during a control room fire.

Technical Reference(s):
PID-31A-13, Note 9

K/A #:	Importance:
2.1.24	2.8

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.3
Subject Description:	Radiation Work Permits
Question Number:	1

Question:

Review the attached Survey 68 for Turbine Building 277' Condensate Demin Valve Aisle and identify the radiological hazard(s), *if any. ??*

describe note.

Answer:

a. Contaminated areas identified by lines with Xs on the left hand side of the room with contamination levels of (from bottom of page) 720dpm/100cm², 3000dpm/100cm², and 3100dpm/100cm².

b. High radiation levels in the bottom left hand side of the Valve aisle with radiation levels of 115mr/hr, 130mr/hr and 120 mr/hr.
"All rad levels are radiological hazards."

Technical Reference(s):
 S-RAP-RPP-0103, Sect. 4.0

K/A #:	Importance:
2.3.10	2.9

Comments:

Turbine Building 247 Condensate Demin Valve Aisle

Survey # 215-15734

Date 9/28/99

Page 2 of 2

- mRem/hr general area
- mRad/hr general area
- ⊙ 30cm - dose rate @ 30cm from component
- ⊙ cont - dose rate @ contact with component

- ⊕ - contamination in dpm/100cm²
- ⊙ - contamination on component in dpm/100cm²
- ⊙ - location of LAW
- - boundary
- ⊕ = <math> < 1000 \text{ dpm} / 100 \text{ cm}^2 </math>

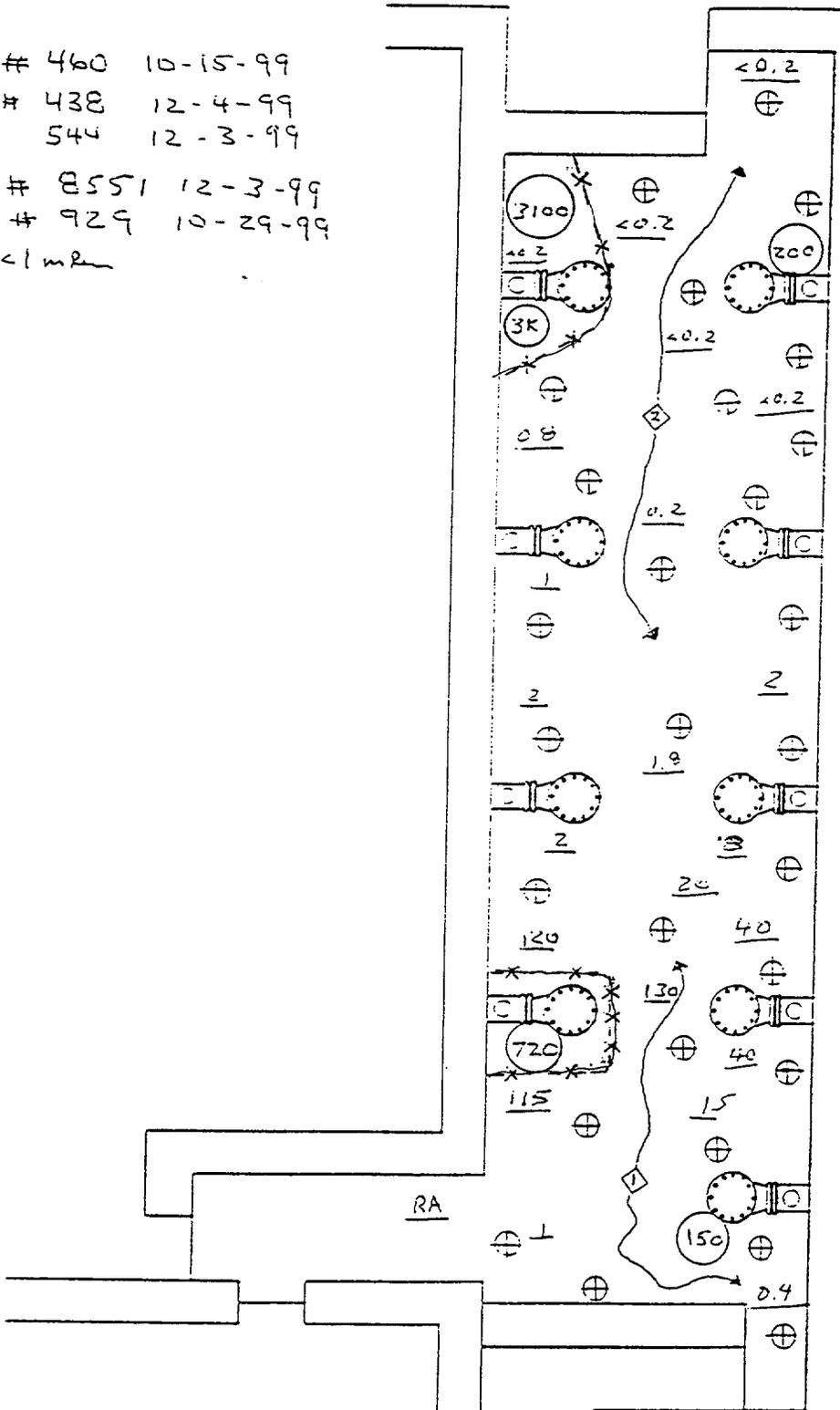
No β detected unless otherwise noted.
 10 % of all smears >100dpm/100cm² were counted for α with results <math> < 10 \text{ dpm} / 100 \text{ cm}^2 </math> unless otherwise noted.

AW 2 were <math> < \text{BKGD of } 100 \text{ cpm} / 15 \text{ cm}^2 </math> Direct Frisk

Rx power level: 100 %
 Surveyed by: O. Allison



- 30 Z # 460 10-15-99
- 30 A # 438 12-4-99
- 544 12-3-99
- M14 # 8551 12-3-99
- ACA # 929 10-29-99
- A <math> < 1 \text{ mrem}</math>



Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.3
Subject Description:	Radiation Work Permits
Question Number:	2

Question:

Review the attached Radiation Work Permit (22, Revision 313) and identify the following:

- Sign in requirements for Auxiliary Operators.
- What protective clothing is required?
- While passing through an area you check your Electronic Dosimeter (ED) and it is reading 120 mRem/hr. As you leave the area your ED reading lowers to 5 mRem/hr. No alarm was received. What action is required?

*Separate 9/10
why -*

Answer:

- Auxiliary Operators ^{may} should sign in at the beginning and end of their shift. — *direct look up no "wrong" answer*
- Worker Type 1 is No protective clothing required.
- The ED should have alarmed at 50 mRem/hr, immediately contact or report to Rad. Protection.

Technical Reference(s):
 S-RAP-RPP-0202, Attachment 1
 GAP-RPP-07, Sect. 3.5

K/A #:	Importance:
2.3.10	2.9

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	RO
Administrative Topic	A.4
Subject Description:	Emergency Classification
Question Number:	2

Question:

During a Hydrogen fire at the Generator seals two (2) maintenance personnel are missing. With the fire still burning the OSC becomes operational. You are directed to execute the CSO Search/Rescue Operations Checklist.

How will the search and rescue be organized?

not sure the question is answered

Answer:

The Fire Brigade should report to the OSC for Search and Rescue operations. This is NOT an Appendix R fire.

Technical Reference(s):
10CFR50, App R, EPIP-EPP-03

K/A #:	Importance:
2.4.26	2.9

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 1
Examination Level	SRO
Administrative Topic	A.1
Subject Description:	Shift Turnover
Question Number:	2

Question:

The plant is operating at 60% power. You have just taken turnover and assumed the night shift watch as the SSS. Total night shift compliment following turnover is:

Position	Current Staffing
SSS	1
ASSS	1
Licensed Operator	2
Non-Licensed Operator	3
STA	1
RP Technician	2
Chemistry Technician	1
Site Fire Brigade	5

At the shift brief, one of the Reactor Operators faints and is not able to fulfill the function of the reactor operator. What actions are required?

Answer:

Immediately initiate action to fill the vacant RO position within 2 hours.

Technical Reference(s):

GAP-OPS-01, Rev 11
T.S. 6.2.2, T.S. Table 6.2.2-1

K/A #:	Importance:
2.1.1, 2.1.3, 2.1.4, 2.1.5	3.8, 3.4, 3.4, 3.4

Comments:

Looks like direct 120 kw?

A

Facility: <u>Nine Mile Point # 2</u> Examination Level (circle one): RO		Date of Examination: <u>12/06/99</u> Operating Test Number: <u>Cat A Test 2</u>
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Fuel Handling	Question 1. You are the ATC RO during a core reload. A fuel assembly is being lowered into the reactor vessel when the indications for inadvertent criticality are observed. What actions are required to be taken? ^{by you} K/A 2.4.4, 2.4.11, 2.2.26, 2.2.27 <i>Comment - all IOAs? - Also appears to be DIRECT LOOKUP.</i>
	Security	Question 2. The plant is in a refueling outage with a reactor core offload in progress. The following equipment is removed from service: <ul style="list-style-type: none"> Div III 4160 VAC emergency bus is deenergized <i>for maintenance</i> OK Condensate/Feedwater system drained <i>and tagged for outage work</i> What sources are available for makeup to the reactor cavity? K/A 2.2.27
A.2	Temporary Modifications to Systems	Question 1. Two inputs to 2CEC*PNL851, Annunciator 851306, OFF-GAS SYSTEM TROUBLE, have been removed from service under a markup. What steps must be taken to identify this condition? K/A 2.2.13 <i>Comment - Verify basis set around. OK</i>
		Question 2. Identify applicable requirements associated with escorting individuals. K/A 2.1.2, 2.1.13 <i>Direct Lookup ??</i>
A.3	Radiation Exposure Limits	Question 1. Your current exposure for the calendar year is 3800 mrem. A job requires that you receive 300 mrem. What actions are required prior to performing the job? K/A 2.3.4, 2.3.10
		Question 2. What actions are required to enter a Very High Radiation Area? K/A 2.3.1, 2.3.4, 2.3.10
A.4	Emergency Classification as CSO	JPM: EPIP-EPP-28, Fire Fighting, CSO Actions for a fire in the protected area. K/A 2.4.27, 2.4.29

A

Facility: <u>Nine Mile Point # 2</u> Examination Level (circle one): SRO		Date of Examination: <u>12/06/99</u> Operating Test Number: <u>Cat A Test 2</u>	
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions	
A.1	Startup Requirements	Question 1. Given conditions, classify a Reactivity Management Event. K/A 2.2.1, 2.2.35	
		Question 2. A reactor startup is in progress, what administrative controls are in place to prevent mispositioned control rods? K/A 2.1.2, 2.2.1, 2.2.34	
	Security	Question 1. What actions are required to obtain access to the Steam Tunnel and responsibilities for maintaining security of the area? K/A 2.1.2, 2.1.13 <i>SOME AS RO</i>	
		Question 2. What actions must be taken in the event of the loss of a vital area key? K/A 2.1.2, 2.3.10 <i>Have ans. verified</i>	
A.2	Surveillance Testing	Question: 1. What approvals are required if a surveillance test cannot be performed within the specified frequency? K/A 2.1.12, 2.2.12	
		Question 2. What are the post maintenance test requirements following maintenance on a containment isolation valve? K/A 2.1.12, 2.1.28, 2.1.33, 2.2.18, 2.2.21, 2.2.24	
A.3	Radiation Monitoring	Question 1. During an ATWS, an auxiliary operator must be dispatched to the HCU's to vent CRDM overpiston areas. What actions must be taken to assure ALARA requirements are met? K/A 2.3.2 <i>(Question)</i>	
		Question 2. A failure of the Digital Control System communication link to the Digital Radiation Monitoring System (DRMS) results in the loss of all control room annunciation associated with DRMS. What are the Technical Specification restrictions on plant operation? K/A 2.3.11, 2.1.33, 2.1.12	
A.4	Emergency Classification	JPM: (New) Emergency Plan classification of each SRO candidates scenario (to be administered after each scenario). K/A 2.4.29, 2.4.41	

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 2
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Fuel Handling
Question Number:	1

Question:

You are the ATC RO during a core reload. A fuel assembly is being lowered into the reactor vessel when the following indications are received:

- Annunciator 603209, SRM SHORT PERIOD, alarms
- All SRM count rates are rising
- Reactor period is 45 seconds and stable
- RMS111 alarms and indicates a high alarm (red) on DRMS

What actions are required to be taken? *by you. (as ATC RO)*

Answer:

- Announce the event and evacuate unnecessary personnel
- Notify the SSS, refueling floor SRO, Radiation Protection
- Isolate reactor building ventilation and start Standby Gas Treatment
- Enter EPIP-EPP-21, Radiation Emergencies
- Monitor DRMS and SPDS
- Contact Reactor Engineering Department

Note: Injecting SLS is not required by the candidate when answering the question. SLS injection would be determined and directed by the SSS.

Note: If the cause can be quickly rectified without overexposure to personnel, then take action to halt the event. This is a decision of the SRO on the refuel bridge once notified of event and is NOT required by the candidate.

Technical Reference(s):
 N2-SOP-39, Rev 01, Section 3.0,
 Section 4.1, Section 4.4

DIRECT LOOKUP?

IOR?

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 2
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Fuel Handling
Question Number:	1

K/A #:	Importance:
2.4.4, 2.4.11, 2.2.26, 2.2.27	4.0, 3.4, 2.5, 2.6

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 2
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Fuel Handling
Question Number:	2

Question:

The plant is in a refueling outage with a reactor core offload in progress. The following equipment is removed from service:

- Div III 4160 VAC emergency bus is ~~de-energized for maintenance~~ *not needed*
- Condensate/Feedwater system ~~drained and tagged for outage work~~ *OK*

What sources are available for makeup to the reactor cavity?

Answer:

- LPCS
- LPCI (A, B, or C)

Technical Reference(s):
 N2-SOP-39,
 Section 4.2.5, Section 4.2.6

K/A #:	Importance:
2.2.27	2.6

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 2
Examination Level	RO
Administrative Topic	A.1
Subject Description:	Security
Question Number:	2

Question:

You have been assigned to escort 6 contractors to set up temporary equipment for an upcoming Outage. The job will take 5 days.

Identify any applicable requirements associated with escorting the individuals.

*Should
area W or P
be specific*

Answer:

NIP-SEC-01, Attachment 3, Request To Exceed Limitations On Visits To The Protected Area must be filled out to exceed 3 consecutive days, and exceed the 5:1 visitor limit.

*Appears to
be linked to
up.*

Technical Reference(s):
 NIP-SEC-01, Rev 09
 Section 3.14.9.b, 3.14.9.c

K/A #:	Importance:
2.1.2	3.0

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 2
Examination Level	RO
Administrative Topic	A.2
Subject Description:	Temporary Modifications
Question Number:	2

Question:

Due to equipment malfunctions, a hose needs to be installed to supply additional makeup water to the HVH (Hot Water Heating System) expansion tank from the (MWS) Makeup Water System. The hose will remain in place until system repairs can be completed in about a week. A work order has yet to be generated.

What are the authorization and documentation requirements for the CSO/SSS in order to install the hose?

Answer:

Note: The candidate should identify hose installation as a temporary modification (GAP-DES-03, 1.1.7)

The authorization and documentation requirements are:

1. SSS and CSO permission is required to implement the temporary modification.
2. SSS review, determine any operability concerns. (For SRO's only)
3. Log in CSO and SSS logs.
4. Initial appropriate blocks of Temporary Mod Form, Attachment 1, Section 2, blocks G and H.

Technical Reference(s):
 GAP-DES-03, Applicability 1.1.7,
 Mechanical Jumper and 3.2

K/A #:	Importance:
2.2.11	2.5

Comments:

IS THIS A DIRECT LOOKUP?

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test: 2
Examination Level	SRO
Administrative Topic	A.1
Subject Description:	Security
Question Number:	2

Question:

During an outage, with the plant in Mode 4, you have issued the key to the steam tunnel. The individual who signed it out reports that they have lost the key. What actions must be taken?

Answer:

- Ensure the S.S.S, Security and Radiation protection have been notified.
- Immediately establish positive access control by posting an individual at the area.
- Initiate a Security Work Request (SWR) to replace the lock within 24 hours.
- Maintain an individual at the area until it can be locked or roped off, posted and a flashing yellow light installed.

Verify ans.

Technical Reference(s):

S-RAP-RPP-0801, Section 3.5 ✓ - ?
 GAP-OPS-01, Section 3.7.7 —

K/A #:	Importance:
2.1.2, 2.3.10	4.0, 3.3

Comments:

Nine Mile Point 2	
Category "A" - Examination Outline Cross Reference	
Operating Test Number	Cat "A" Test 2
Examination Level	SRO
Administrative Topic	A.3
Subject Description:	Radiation Monitoring
Question Number:	1

Question:

During an ATWS, an auxiliary operator must be dispatched to the HCUs to vent CRDM overpiston areas. No Emergency Action Level classifications have been made. What actions must be taken to assure ALARA requirements are met?

Answer:

- If available, RP Tech continuously monitors work
- RWP, Radiation Survey Log sheets, RWP sign-in logs, documentation is processed.
- Post-job ALARA Job review.
- Need for generation of a DER is evaluated.

How do the last two items ensure ALARA is met? Work is already done

Technical Reference(s):
 GAP-RPP-02, Rev. 05, Section 3.2.1
 N2-EOP-6, Section 12.0
 S-RAP-ALA-0102, Section 3.5.1
 NIP-ECA-01, Section 1.1.1.f

K/A #:	Importance:
2.3.2	2.9

Comments:

B = ROL & SRD

N = NEW

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward			
1	H	2	x			x					x	U	stem lacks information to elicit the correct answer - unclear intent - more info needed. What makes 'a' false?	B, N
2	H	3									x	E	Backward logic & MEMORY - CAUSE OF TURBINE TRIP	B, N
3	H	2	x									E	Basis for starting "should be used..." Also 'a' is not credible and its basis of justification is not correct.	B, N
4	M	1										U	Tested in scenarios - Level of Difficulty is '1'	B, N
5	H	3										E	stem is missing a word. "The unit "is" operating	B, N
6	H	3										E	Commas missing - after CO2 Panel Flow Controller, but ... the FLC...	B, N
7	M?		x									E	most of stem not needed	B, N
8	H	3	x									U	Relay → Light - Technically invalid (Relay) Cool	B, N
9	H	3										S		B, N
10	R	2	x			x						U	Stem Focus & cred. distractors - b, c, & d may be correct	B, N

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation		
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward				
21	M	3										S			R, N
22	M	1										E	add ... refuel floor "wall"; release path from refuel floor Release could also be monitored		R, N
23	M	2										S			B, N
24	H	2				X						U	Why are a, b, c incorrect? Add sequence; if all are operating then each is operating.		B, N
25	M	2										S			R, N
26	M	2										E	specify procedure that requires this list.		R, N
27	M	2										S			B, Bk
28	M	2										S			B, N
29	H	1										E	CSO directs (?) → CSO determines		R, N
30	M	1				X						U	'a' & 'd' not credible and 'c' could be correct.		B, N

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward			
41	H	3											S	
42	H	3										x	U	Backward logic and Question technical adequacy
43	H	3											S	
44	H	2											S	
45	M	1											S	
46	H	2											E	Need to reference procedure
47	H	2					x						U	'Q' & 'L' - How can withdrawal of detector cause 'high'
48	M	3											S	
49	M	3											S	
50	M	2											S	

B N
B N
B BK
B BK
B N
B N
R N
R BK
B BK
R N

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward				
61	H	3											S		R N
62	H	2											E	Stem not clear - How S/D and restated?	B N
63	H	2											S		B N
64	H	3											S		B N
65	H	3									X		E	How does it meet exam stds. ??	B N
66	H	3											S		R BK
67	M	3											S		R BK
68	M	2									X		E	How does it meet exam stds. ??	B BK
69	H	3											S		R N
70	H	3											S		R N

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward				
81	M	3											S		R N
82	H	3	X										U	'd' correct later	R N
83	M	3											S		B N
84	M	1											S		R BK
85	M	2	X										E	May need to specify "NORMAL" method	R BK
86	H	3											S		R N
87	M	3											S		B N
88	M	1											U	Test on scenario - procedure reference.	B N
89	M	1											E	Comma in 'c'	B N
90	M	3	X					X					U	Stem should be more specific on procedure problem	B N

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Page #

Q#
4
6
13
14
18
19
520
23
525

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward		
51	H	4										S	
52	H	3										S	SRD Level
53	M	3						X				S	SRD Level
54	M	3										E	Relevance procedure - should - justify
55	H	3				X						E/U	Logic of distractors - 'b' also
56	M	3	X									E	Relevance procedure - should vs shall
57	M	2	X									(U) E?	meaning of phrase - "all discretion may be considered"
58	H	3										(U) E?	No right answer
59	M	3				X						E	
510	H	2				X						E/U	c a d not in context

N
N
N
M
N
N
N
N
N
N

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward				
70	H	2											S	SR0 level only - Not	N
78	M	2											S	Not SR0 only level	N
81	M	3											S		N
84	M	2											S		N
88	H	2										X	E/K	Dot op. valid	N
89	H	3											S		N
90	H	3											S		N
91	M	2											S		N
92	M	2											S		N
93	M	2											S		N

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Written exam questions that were reported to NMCP2 as unsatisfactory and revised submittals to be sent to NRC 1st Week in January. (Question #'s given to NMCP during conference call on security.)

RD

1	30	73
4	31	82
8	42	88
10	48	90
12	56	93
17	58	96
24		

(19)

SRO

14
19
20
25
38
39

(6)

25 Questions out of 132 < 20%

A later count showed 18 of 132 as Unsatisf - 13.6%
and 24 editorial = 18%

RO #	NRC Unsat (CIRCLED)	Comments	Agree?	Fixed?
1	X	Stem Focus; Why A is not correct	N	Y-A is a Tech. Spec. term not associated with failure to scram
2		Backward Logic; Memory Level		Y-Replaced with new question
3		Stem Focus; Clarify "should be used"		Y-Revised
4	X	LOD 1		Y-Replaced with new question
5		Word missing in stem		Y-Revised
6		Commas missing		Y-Revised
7		None		NA
8	X	Stem focus, technically invalid	N	Y-Question based on actual plant event
9		None		NA
10	X	Stem focus; credible distractors; bcd could be correct		Y-Revised
11		None		NA
12	X	Stem focus; credible distractors		Y-Revised
13		None		NA
14		Unstated assumption in stem; more than one distractor partially correct	N	Y-Only one correct answer per SOP
15		Add "immediate" to stem; Why C is incorrect		Y-Revised
16		None		NA
17	X	Why B is incorrect	N	Y-Revised
18		None		NA
19		None		NA
20		Change "appropriate" to "is directed"		Y-Revised
21		None		NA
22		LOD 1; add "wall" and from refuel floor	N	Y-100% failure on RO validation
23		None		NA
24	X	Add "only"		Y-Revised
25		None		NA
26		Add procedure reference		Y-Revised
27		None		NA
28		None		NA
29		LOD 1; Remove "CSO directs"		Y-Revised
30	X	a & d not credible; c could be correct		Y-Revised
31	X	Stem Focus; other distractors are credible	N	Y-Provided better explanation why distractors are wrong
32		None		NA
33		None		NA
34		None		NA
35		None		NA
36		Change "should be" to "is required"		Y-Revised
37		None		NA
38		None		NA
39		None		NA
40		None		NA
41		None		NA

42	X	Backward Logic; Questioned technical accuracy and adequacy		Y- Replaced with new question
43		None		NA
44		None		NA
45		LOD 1		Y- Replaced with new question, required sample plan change
46		Add procedure reference		Y-Revised
47	X	a & c not credible distractors		Y-Revised
48		None		NA
49		None		NA
50		None		NA
51		None		NA
52		None		NA
53		None		NA
54		Stem focus; how do you know speed is too low?		Y-Revised
55		None		NA
56	X	Stem focus; may be 3 correct answers; reason for b is weak	N	Y-Revised justification for distractors
57		None		NA
58	X	c & d may be correct	N	Y- Revised justification for distractors
59		None		NA
60		None		NA
61		None		NA
62		Stem and question not real clear		Y-Revised
63		None		NA
64		None		NA
65		Backward Logic	N	No changes, this is NOT backward logic
66		None		NA
67		None		NA
68		Backward logic	N	No changes, this is NOT backward logic
69		None		NA
70		None		NA
71		None		NA
72		None		NA
73	X	Add procedure reference; b may be correct	N	Y- Revised justification for distractor b
74		Distractor b does not contain an explanation		Y-Revised
75		None		NA
76		None		NA
77		None		NA
78		None		NA
79		None		NA
80		None		NA
81		None		NA
82	X	Stem focus; d correct later?	N	Y-Distractor d is never correct, there is no automatic isolation
83		None		NA

84		LOD 1	N	Y-50% failure on validation, removed reference to isolation groups
85		Stem focus; specify a "normal" method		Y-Revised
86		None		NA
87		None		NA
88	X	Not an appropriate written question; LOD 1		Y- Replaced with new question
89		LOD 1; add comma to distractor c		Y-Revised
90	X	Stem focus; more specific on procedure problem and add reference to stem		Y-Revised
91		None		NA
92		None		NA
93	X	Stem focus; needs more info? Are b & d wrong?		Y-Revised
94		None		NA
95		None		NA
96	X	Stem focus; a b d could be correct		Y-Revised
97		None		NA
98		None		NA
99		LOD 1		Y-Revised
100		LOD 1	N	No changes, 50% failure on validation

SRO #	NRC Unsat (L1-L4)	Comments	Agree?	Fixed?
2		None		NA
4		None		NA
6		None		NA
13		"should be"... use stronger words, need better distractor explanations		Y-Revised
14	X	b is answer; explanation says b is a distractor	N	Y-Distractor explanation changed from b to c
18		Stem focus; "should be taken" change to required and add procedure reference		Y-Should changed to shall, Procedure reference not added, EOPs provided
19	X	Confusing, vague, loose		Y-Revised
20	X	No right answer	N	No changes, calculation required, procedure provided
23		Awkward stem structure		Y-Revised
25	X	Credible distractors; c & d not incorrect		Y-Revised
35		None		NA
38	X	Stem has que to SRV		Y-Revised
39	X	LOD 1; Stem focus; are c & d incorrect?		Y-Revised
43		Reference procedure Not FSAR; check for procedure other than SAR	N	No changes required, requirements are in USAR, USAR is provided with the question
57		None		NA
58		Not SRO Only		Y-Not credited as SRO only
59		None		NA
61		None		NA
66		LOD?		Y- Replaced with new question
69		Not SRO Only		Y-Not credited as SRO only
70		None		NA
78		None		NA
81		None		NA
84		None		NA
88		Backward logic		Y- Replaced with new question
89		None		NA
90		None		NA
91		None		NA
92		None		NA
93		None		NA
97		Is purpose of first paragraph necessary?	N	No changes, paragraph required to establish plant conditions
99		LOD 1; tested in simulator; Not SRO Only		Y- Replaced with new question, SRO only

Cat A #	Comments	Agree?	Fixed?
RO Test 1 A.1.1 Shift Turnover	Add "if any" to stem, are there other requirements?		Y-revised, no other requirements
RO Test 1 A.1.1 S/U Requirements	Make SRM "C" beyond four doubles, NOT SRM "A" <i>Also change "directed by RE"</i>		Y-Revised
RO Test 1 A.2.1 P&IDs	Is it necessary to identify EOP equip? Develop to be documented		Y-Revised
RO A.2.2 P&IDs	Delete the P&ID reference	N	Prefer to keep the question specific to P&IDs for sample plan
RO Test 1 A.3.1 RWPs	Add "if any", change the word "hazards"		Y-Revised
RO Test 1 A.3.2 RWPs	Part a is a direct lookup, Part b is a separate question, Part c is all that's needed		Y-Revised to only ask part c
RO Test 1 A.4.2 Emerg Classification	Word "organize" does not align with answer.		Y-Revised
SRO Test 1 A.1.1 Shift Turnover	Add "if any" to stem, are there other requirements?		Y-revised, no other requirements
SRO Test 1 A.1.2 Shift Turnover	Direct lookup, consider making it closed book		Y-Revised as closed book
SRO Test 1 A.2.1 P&IDs	Is it necessary to identify EOP equip? Develop to be documented		Y-Revised
SRO Test 1 A.2.2 P&IDs	Delete the P&ID reference	N	Prefer to keep the question specific to P&IDs for sample plan
SRO Test 1 A.3.1 RWPs	Add "if any", change the word "hazards"		Y-Revised
SRO Test 1 A.3.2 RWPs	Part a is a direct lookup, Part b is a separate question, Part c is all that's needed		Y-Revised to only ask part c
RO Test 2 A.1.1 Fuel Handling	Add "by you as the ATC RO" to the stem		Y-Revised
RO Test 2 A.1.1 Security	Direct lookup		Y-Revised so candidate must determine steam tunnel status
RO Test 2 A.2.2 Temp Mods	Direct lookup	N	No Changes, candidate must assess information and determine this is a temporary modification
SRO Test 2 A.1.1 Security	Direct lookup		Y-Revised so candidate must determine steam tunnel status
SRO Test 2 A.3.1 Rad Monitoring	Ask differently, last two bullets do not assure ALARA requirements are met		Y-Revised