**EXAM QUESTION HISTORY**

| Question # | RO | SRO | TIER | Group | KA | 000017G2.1.32 | Importance | 3.8 |
|------------|----|-----|------|-------|----|---------------|------------|
| B000.1057  |     |     | 1    | 1     |    |               |            |     |

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th></th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
<tr>
<td></td>
<td>Original Bank</td>
</tr>
<tr>
<td></td>
<td>Bank</td>
</tr>
</tbody>
</table>

10CFR55 Content

| 55.41 | 55.43.5 |

Learning Objective

RES02C 2.01 Given a set of plant and equipment conditions evaluate the conditions to determine the applicable procedure, and from the procedure determine the appropriate EXPECTED ACTIONS or RESPONSE NOT OBTAINED instructions to implement. (ES-0.2)

Cognitive Level

| Memory or Fundamental Knowledge | Comprehension or Analysis | X |

Technical Reference

| Figure 3.0, ES-0.2 |

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)

| Fig-3.0, Natural Circulation C/D with Shroud Fans. |

Answer Analysis: D is correct since the ΔT between the Hot legs and the Przr exceeds its 200°F limit. No restrictions are imposed on Aux. Spray because the ΔT is < 320°F.
Distractor Analysis:  

A is incorrect since the RCS pressure needs to be reduced to \(< 1400 \) per Figure 3.0 and no restrictions are placed on Aux. Spray (used \( T_{hi} \) to calculate RCS pressure).

B is incorrect since no restrictions are placed on Aux. Spray in these conditions.

C is incorrect due to the wrong RCS pressure.
The plant trip due to loss of offsite power. The RCS is currently being cooled down per ES-0.2, Natural Circulation Cooldown. The following conditions exist:

- RCS Pressure - 1850 psig
- RCS Hot Leg Temps - A - 410°F  B - 405°F
- RCS Cold Leg Temps - A - 390°F  B - 385°F
- Przr Water Temp - 625°F
- Przr Steam Temp - 626°F
- Letdown In Service
- Charging from the Regen Hx Temp 385°F
- SI Blocked
- Both Control Rod Shroud Fans are running

Which of the following states the required actions:

a. Depressurize the RCS to less than 1540 psig using only the PORVs due to high ΔT between the Charging Line and Przr Steam space.

b. Depressurize the RCS to less than 1400 psig using only the PORVs due to high ΔT between the Charging Line and Przr Steam space.

c. Depressurize the RCS to less than 1540 psig using auxiliary spray to cooldown the pressurizer.

Answer 1

D. Depressurize the RCS to less than 1400 psig using auxiliary spray to cooldown the pressurizer.
State the reason/basis for the CAUTIONS, NOTES and/or Major Action Categories in AP-CVCS.3, Loss of All Charging Flow.

Answer Analysis: B is correct since the guidance of AP-CVCS.3 requires this action.
Distractor Analysis:  A and C are incorrect since these actions will result in a loss of Przr Level and Pressure Control. D is incorrect since this would not be effective in maintaining RCS pressure control.
While at 100% power a charging line leak resulted in loss of all charging flow. It will be approximately 24 hours before the line can be repaired and charging restored. Which of the following describes the required operator actions under these conditions. The operators have already isolated Letdown.

a. Shutdown the Rx per the Normal Operating Procedures (10%/hour), once shutdown, depressurize the RCS to ~1400 psig and establish SI flow to control inventory. RCS inventory will remain in the pressurizer due to the low outflow rate.

b. Perform a Rapid Rx Shutdown using Abnormal Procedures (5%/min), once shutdown, depressurize the RCS to ~1400 psig and establish SI flow to control inventory. RCS inventory will be maintained due to the short time taken to shutdown.

c. No action is required since the pressurizer outflow rate (seal leakoff) is so low that more than the required 24 hours for the charging line repair are available prior to PRZR Level decreasing to < 13%.

d. Monitor PRZR Level, when PRZR Level decreases to less than 5%, Trip the Reactor and go to E-0. SI will automatically start as pressure decreases and SI flow will maintain RCS Inventory.

Answer 2

b. Perform a Rapid Rx Shutdown using Abnormal Procedures (5%/min) once shutdown depressurize the RCS to ~ 1400 psig and establish SI flow to control inventory. RCS inventory will be maintained due to the short time taken to shutdown.
Learning Objective: RAP02C 2.01
Given a set of plant and equipment conditions evaluate the conditions to determine the applicable procedure, and from the procedure determine the appropriate EXPECTED ACTIONS or RESPONSE NOT OBTAINED instructions to implement. (AP-CCW.2)

Cognitive Level
Memory or Fundamental Knowledge
Comprehension or Analysis  X

Technical Reference  AP-CCW.2

Level of Difficulty (from attachment 3) 

References required on Exam (Attach copy to this attachment)
None

Answer Analysis:  D is correct per AP-CCW.2 exceeding 200°F bearing oil temperature requires tripping of the reactor then the affected RCP and then going to E-0.
Distractor Analysis: A is incorrect since high bearing temperature requires an immediate RCP trip. B is incorrect since only the affected RCP is tripped. C is incorrect since the Rx must be tripped prior to the affected RCP and there are no actions for isolating the RCS in AP-CCW 2.
During an ordered 1% per min power reduction, the following annunciators and conditions exist:

- AA-18 RCP Vibration Alert
- A-32 RCP B oil level ± 1.25
- PPCS display "GD-RCP's" indicates "B" RCP upper bearing at 233 degrees F

Which of the following actions are required?

a. Check CCW pump, CCW surge tank and surge tank vent.

b. Trip the Rx, trip both RCP's and go to E-0.

c. Trip both RCP's, verify RCS isolated and go to E-0.

d. Trip the Rx, trip "B" RCP and go to E-0.

Answer 3

d. Trip the Rx, trip "B" RCP and go to E-0.
# EXAM QUESTION HISTORY

<table>
<thead>
<tr>
<th>Question #</th>
<th>RO</th>
<th>SRO</th>
<th>TIER</th>
<th>KA</th>
<th>C000.0266</th>
<th>Importance</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>1</td>
<td>0</td>
<td>000027G2.1.32</td>
<td>3.8</td>
</tr>
</tbody>
</table>

Source of Question (Note: Attach question and any subsequent modifications to this attachment):

<table>
<thead>
<tr>
<th></th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
<tr>
<td></td>
<td>Original Bank</td>
</tr>
<tr>
<td>X</td>
<td>Bank Originating Bank</td>
</tr>
</tbody>
</table>

10CFR55 Content  
55.41  
55.43.2

Learning Objective: RES02C 1.02  
Given the notes, cautions, and major action categories in ES-0.2, Natural Circulation Cooldown, explain the basis for the same.

<table>
<thead>
<tr>
<th>Cognitive Level</th>
<th>Memory or Fundamental Knowledge</th>
<th>X</th>
<th>Comprehension or Analysis</th>
</tr>
</thead>
</table>

Technical Reference ES-0.2, ITS 3.4.9

Level of Difficulty (from attachment 3) ________

References required on Exam (Attach copy to this attachment) **None**

Answer Analysis: **B is correct per TS 3.4.9 Basis for PRZR Heaters.**

---
Distractor Analysis: A is incorrect since the Przr will remain saturated. C - Minimum heaters are established to prevent a steam bubble from forming, not to collapse one that exists. D - Heaters are restored to maintain RCS pressure above the saturation pressure. SI is normally blocked during a Natural Circ. Cooldown.
ER-PRZR.1, Restoration of PRZR HTRS during blackout, provides for establishing a minimum amount of PRZR heaters.

Which one of the following statements describes the basis or reason for establishing heaters following a blackout?

a. Allows for keeping the PRZR saturated for more uniform pressure control.

b. Allows subcooled natural circulation to be maintained.

c. Allows for collapse of steam bubble in the vessel head.

d. Allows for maintaining RCS pressure above SI setpoint.

Answer 4

b. Allows subcooled natural circulation to be maintained.

TC #96-107
Learning Objective: RER18C 4.0
Given a set of plant conditions (and a procedure figure, if needed) evaluate the appropriate parameters and determine the correct course of action.

Cognitive Level
Memory or Fundamental Knowledge
Comprehension or Analysis  

Technical Reference  
RGE07 480V Distribution

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)
None

Answer Analysis: A is correct since the correct procedure for restoration is ER-ELEC.1 and SI must be reset to close the normal feed breaker with the buses deenergized.

10CFR55 Content  55.41  55.43.5
Distractor Analysis: B is incorrect since ECA-0.0 is the incorrect restoration procedure (doesn’t give the step). C is incorrect since SI must be reset. D is incorrect since the wrong procedure is referenced and SI must be reset.
Question 5  B000.1059  (1 point(s))

Following a loss of all AC power the operators are performing ECA-0.0, Loss of all AC, when Energy Operations notifies the Control Room that Circuit 751 has been restored. The following conditions exist:

- SI Actuated and not reset
- No Faults on any 4160V or 480V Bus
- All Buses are deenergized

Which of the following states the required actions the operators will take to restore power to the 480V Safeguards Buses.

a. Restore power to the 4160V Buses 12A/12B per ER-ELEC.1, Restoration of Offsite Power, then Reset SI to allow closing of the 480V Safeguard Bus Normal Feed Breakers.

b. Restore power to the 4160V Buses 12A/12B per ECA-0.0, Loss of All AC Power, then Reset SI to allow closing of the 480V Safeguard Bus Normal Feed Breakers.

c. Restore power to 4160V Buses 12A/12B per ER-ELEC.1, Restoration of Offsite Power. The Safeguard Bus Normal Feed Breakers can be closed without resetting SI.

d. Restore power to 4160V Buses 12A/12B per ECA-0.0, Loss of all AC Power. The Safeguard Bus Normal Feed Breakers can be closed without resetting SI.

Answer 5

a. Restore power to the 4160V Buses 12A/12B per ER-ELEC.1, Restoration of Offsite Power, then Reset SI to allow closing of the 480V Safeguard Bus Normal Feed Breakers.
Question # | RO | SRO 6
---|---|---
B000.1060 | KA | 000057G2.4.30

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th>X</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>_____</td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
</tbody>
</table>

Original Bank | # |
Bank Originating Bank | # |

10CFR55 Content | 55.41 | 55.43 2

Learning Objective: R0901C 5.02
Given a set of plant conditions and a copy of Tech Specs and Tech Spec referenced material (i.e. COLR) be able to apply the Tech Specs. To include: LCO, applicability, applying action items, surveillances and the use of basis to aid in application.

RAD04C 1.05
State the time limits for notifying the NRC, State, and County.

Cognitive Level | Memory or Fundamental Knowledge
| Comprehension or Analysis | X |

Technical Reference | TS 3.8.9/O-9.3 |

Level of Difficulty (from attachment 3) | |

References required on Exam (Attach copy to this attachment)
TS 3.8.9, O-9.3 |

Answer Analysis: C per TS 3.8.9B two hours to restore then initiate shutdown to Mode 3/5 per O-9.3 initiation of plant shutdown is 4 hours reportable 10CFR50.72(b)(2)(i).
Distractor Analysis:  

A is incorrect since it does not cause a UE or any other one hour reportable. B is incorrect since two hours are available for restoration. D is incorrect since only six hours are available.
During 100% power operation, the 1B AC Instrument Bus develops a fault and is deenergized. Assuming that the Bus is not repaired, which of the following states the latest time the NRC can be notified and still meet the notification requirements.

a. One hour after the event.
b. Four hours after the event.
c. Six hours after the event.
d. Twenty-four hours after the event.

Answer 6

c. Six hours after the event.
EXAM QUESTION HISTORY

<table>
<thead>
<tr>
<th>Question #</th>
<th>RO</th>
<th>SRO</th>
<th>TIER</th>
<th>Group</th>
<th>KA</th>
<th>WE/05EA2.1</th>
<th>Importance</th>
<th>Tier Group</th>
</tr>
</thead>
<tbody>
<tr>
<td>B035.0004</td>
<td></td>
<td>7</td>
<td>1</td>
<td>1</td>
<td>WE</td>
<td>05EA2.1</td>
<td>4.4</td>
<td>1</td>
</tr>
</tbody>
</table>

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th>New</th>
<th>Modified (Attach original and Modified Questions)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Original Bank</td>
</tr>
</tbody>
</table>

10CFR55 Content  
55.41  
55.43 5

Learning Objective: RFRH1C 2.01
Given a set of plant and equipment conditions evaluate the conditions to determine the applicable procedure, and from the procedure determine the appropriate EXPECTED ACTIONS or RESPONSE NOT OBTAINED instructions to implement. (FR-H.1.)

Cognitive Level Memory or Fundamental Knowledge  
Comprehension or Analysis  

Technical Reference CSFST F-0.3

Level of Difficulty (from attachment 3) 

References required on Exam (Attach copy to this attachment)
None

Answer Analysis: C per the CSFST F-0.3 a Red Path exists on Heat Sink and the next procedure which should be performed after E-O is FR-H.1.
Distractor Analysis:  A is incorrect since ES procedures do not have priority over Red Path FR's.  B is incorrect since FR-H.1 has priority.  D is incorrect since FR-H.1 is a higher priority than FR-I.2.
Immediately following the completion of the immediate actions of E-0, Reactor Trip or Safety Injection, the following conditions exist:

- SI Not Actuated
- RCS pressure - 2180 psig
- Core Exit TCs - 542 degrees F
- S/G pressures - (A,B) - 1000 psig, 900 psig
- S/G N.R. levels (A,B) - 0%, 3%
- Containment pressure - 0.3 psig
- Pressurizer level - 3%
- Total feed flow to S/G A - 50 gpm
- Total feed flow to S/G B - 100 gpm

Assuming these conditions exist and cannot be changed as you progress through E-0, Reactor Trip or Safety Injection, which procedure provides the required subsequent action?

a. ES-0.1, Reactor Trip Response
b. E-2, Faulted Steam Generator Isolation
c. FR-H.1, Response to Loss of Secondary Heat Sink
d. FR-I.2, Response to Low Pressurizer level

Answer 7
c. FR-H.1, Response to Loss of Secondary Heat Sink
EXAM QUESTION HISTORY

Question # RO ____________ SRO ____________
TIER 1 ____________ Group 2 ____________
B000.1061 ____________ KA 000069AA2.02 ____________
Importance 4.4 ____________

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th></th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
</tbody>
</table>

Original Bank INPO ____________ # IP #2 3/10/2003

Bank Originating Bank ____________ # ____________

10CFR55 Content 55.41 ____________ 55.43 7 ____________

Learning Objective: RRF02C 5.02
Given a set of plant conditions and a copy of Tech Specs and Tech Spec referenced material (i.e. COLR) be able to apply the Tech Specs. To include: LCO, applicability, applying action items, surveillances and the use of basis to aid in application.

Cognitive Level Memory or Fundamental Knowledge ____________
Comprehension or Analysis X ____________

Technical Reference O-15.1 ____________

Level of Difficulty (from attachment 3) ____________

References required on Exam (Attach copy to this attachment)
None ____________

Answer Analysis: A is correct at least one door in each air lock must be closed.
Distractor Analysis:  B - This system is not required to be operable for CNMT Integrity.

C - Containment Purge is allowed in service at CSD.  D - One door needs to be closed for

CNMT integrity.
The Reactor Coolant System is in a reduced inventory condition and preparations are being made to detention the RV Head for eventual removal. Additional plant status information is as follows:

- RCS boron concentration is 2320 ppm.
- The Penetration Pressurization System was removed from service 48 hours ago.
- Both doors of the Equipment Hatch Airlock are open to facilitate repairs of the airlock seals.
- One door of the Personnel Airlock is closed.
- Containment leakage was previously verified to be less than 0.2% of the containment free volume per day.
- Containment purge is in service.

Given the above plant conditions, which ONE (1) of the following describes a requirement that must be met prior to proceeding with the RV Head detentioning?

a. Repair and close at least ONE door in the Equipment Hatch.

b. Restore the Containment Penetration Pressurization System to operable status.

c. Verify the automatic containment purge is removed from service.

d. Close the other door of the Personnel Airlock.

Answer 8

a. Repair and close at least ONE door in the Equipment Hatch.
**EXAM QUESTION HISTORY**

<table>
<thead>
<tr>
<th>Question #</th>
<th>RO</th>
<th>SRO</th>
<th>TIER</th>
<th>Group</th>
<th>Importance</th>
</tr>
</thead>
<tbody>
<tr>
<td>B000.1062</td>
<td></td>
<td>9</td>
<td>1</td>
<td>2</td>
<td>2.7</td>
</tr>
</tbody>
</table>

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th></th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>Original Bank</td>
<td></td>
</tr>
<tr>
<td>#</td>
<td></td>
</tr>
</tbody>
</table>

| 10CFR55 Content | 55.41 | 55.43 4 |

Learning Objective: RAP17C 1.03

State the reason/basis for the CAUTIONS, NOTES and/or Major Action Categories in AP-RCS.3, High Reactor Coolant Activity.

Cognitive Level
- Memory or Fundamental Knowledge  **X**
- Comprehension or Analysis

Technical Reference
- AP-RCS.3 High Activity

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)
- None

Answer Analysis:  **B** is correct since the procedure states to swap DI Bed if the DF is < 10.
Distractor Analysis:  

C and D are wrong since they are both Entry Conditions to AP-RCS.3.

A is wrong since chloride levels are not addressed and per TRM 3.4.2 this level requires a plant shutdown.
Question 9  B000.1062  (1 point(s))

During a High Reactor Coolant Activity event, which of the following is the criteria used to determine if the standby mixed bed demineralizer is required to be placed in service?

a. Chloride levels greater than 0.15.

b. Decontamination factor less than 10.

c. Dose equivalent I-131 greater than 1 microcurie/gram.

d. Gross radioactivity greater than 100/E BAR.

Answer 9

b. Decontamination factor less than 10.
EXAM QUESTION HISTORY

Question # RO______ SRO 10______
TIER 1______ Group 2______
B000.1063______ KA W/E06 2.4.4______ Importance 4.3______

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th>X</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
<tr>
<td></td>
<td>Original Bank _________ # ____________</td>
</tr>
<tr>
<td></td>
<td>Bank Originating Bank _________ # ____________</td>
</tr>
</tbody>
</table>

10CFR55 Content 55.41.10 55.43.5

Learning Objective: RFR00C 2.01
Given a set of plant conditions and a copy of the CSFST's, apply the CSFST.

Cognitive Level Memory or Fundamental Knowledge ________
Comprehension or Analysis ________ X

Technical Reference FR-O.2

Level of Difficulty (from attachment 3) ________________

References required on Exam (Attach copy to this attachment)
None

Answer Analysis: A is incorrect even though a faulted S/G is indicated - FR-C.1 has a higher priority.
Distractor Analysis: B is incorrect even though a Loss of Heat Sink is indicated. FR-C.1 has a higher priority. C is incorrect - no criteria for entry into FR-S.1 only FR-S.2 which is an Orange Path, again FR-C.1 has priority. D is correct - indications of Inadequate Core Cooling Red Path - the highest priority procedure.
The Reactor has tripped due to a loss of offsite power. SI has actuated. The crew is performing actions in E-0, "Reactor Trip or Safety Injection". Given the following conditions:

RCS pressure 1700 psig and trending up
SG pressure "A" = 1015 psig stable "B" = 700 psig and trending down
CET'S 700°F and trending up
SG Narrow Range level off scale Low
AFW flow approximately 75 gpm to each SG
PRZR level 15% and trending down
CNMT pressure 5 psig and trending up
Power is 2% in the PR and IR SUR is slightly negative
RVLIS level 45%

Which ONE of the following describes the procedure transition upon exit from E-0?

a. E-2, Faulted Steam Generator Isolation
b. FR-H.1, Response to Loss of Secondary Heat Sink
c. FR-S.1, Response to Reactor Restart/ATWS
d. FR-C.1, Response to Inadequate Core Cooling

Answer 10

d. FR-C.1, Response to Inadequate Core Cooling
EXAM QUESTION HISTORY

Question # 11  RO  SRO 11  
TIER 1  Group 2  
C000.0043  KA  W/E08 2.1.32  Importance 3.8

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>New</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td></td>
<td>(Attach</td>
<td></td>
</tr>
<tr>
<td></td>
<td>original</td>
<td></td>
</tr>
<tr>
<td></td>
<td>and</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Modified</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Questions)</td>
<td></td>
</tr>
<tr>
<td>Original Bank</td>
<td>___</td>
<td>___</td>
</tr>
<tr>
<td>Bank</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Originating Bank</td>
<td>Ginna</td>
<td>#</td>
</tr>
<tr>
<td></td>
<td><em>C000.0043</em></td>
<td></td>
</tr>
</tbody>
</table>

10CFR55 Content  55.41.10  55.43.1

Learning Objective: RFRP1C 1.02

Given the notes and/or cautions in FR-P.1, Response to Imminent Pressurized Thermal Shock Condition, explain the notes and/or cautions in FR-P.1.

Cognitive Level  Memory or Fundamental Knowledge  X
<table>
<thead>
<tr>
<th></th>
<th>Comprehension or Analysis</th>
</tr>
</thead>
</table>

Technical Reference  FR-P.1

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)

None

AnswerAnalysis: A is incorrect - PRZR increase due to SI accumulator injection basis not correct.
Distractor Analysis:  
B is incorrect - N₂ injection during depressurization basis not correct.
C is correct. D is incorrect - rate of accumulator injection during depressurization more a concern for added thermal stress, not thermal shrink.
FR-P.1, Response to Pressurized Thermal Shock, Step 17, has a caution which states, "The RCS should not be depressurized to less than SI accumulator pressure until the SI accumulator is isolated." Which one of the following is the correct basis for this caution?

a. It may cause water solid PRZR which will result in a loss of PRZR pressure control.

b. It will allow nitrogen into the RCS which may cause gas binding in the SG U-tubes.

c. It will delay depressurization since accumulator inflow to RCS will tend to stabilize RCS pressure.

d. It will cause cold water addition to RCS which will result in rapid RCS depressurization and loss of subcooling from thermal shrink.

Answer 11

c. It will delay depressurization since accumulator inflow to RCS will tend to stabilize RCS pressure.

TC 96-139
TC 96-140
TC 95-139
Given a set of plant and equipment conditions evaluate the conditions to determine the applicable procedure, and from the procedure determine the appropriate anticipated ACTIONS or RESPONSE NOT OBTAINED instructions to implement. (ES-0.3)

Cognitive Level: Memory or Fundamental Knowledge  
Comprehension or Analysis: X

Technical Reference: ES-0.3

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)
ES-0.3

Answer Analysis: A is incorrect - although these are steps taken during the depressurization, they do not apply to rising PRZR level.
Distractor Analysis:  

B is correct - raising RCS pressure by 100 psig will help collapse the bubble in the Reactor vessel.  
C is incorrect - continuing the depressurization will only cause bubble in Reactor vessel head to grow larger.  
D is incorrect - RVLIS level indication limit is 93% and guidance only suggests raising pressure with no firm guidance on amount.
Due to a reactor trip and subsequent loss of offsite power, procedure ES-0.3, "Natural Circulation Cooldown with Steam Void in Vessel" is in progress at step 8 Controlling PRZR Level. During depressurization, the PRZR level rapidly increases to 93%.

What action(s) is required?

a. Stop RCS depressurization, then isolate SI accumulators if RCS pressure is less than 1500 psig.

b. Stop RCS depressurization, then energize pressurizer heaters to increase RCS pressure by 100 psig.

c. Continue RCS depressurization until RCS pressure is within 50 psig of average S/G pressure.

d. Continue RCS depressurization until RVLIS level is less than 90%, then stop depressurization while continuing with cooldown.

Answer 12

b. Stop RCS depressurization, then energize pressurizer heaters to increase RCS pressure by 100 psig.
EXAM QUESTION HISTORY

Question #  RO  SRO  TIER  Group  Importance
B000.1065  004G2.1.33   13  2  1  4.0

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

- X New
- Modified (Attach original and Modified Questions)

Original Bank

Bank Originating Bank

10CFR55 Content 55.41  55.43.2

Learning Objective: R1601C 5.02
Given a set of plant conditions and a copy of TRM and TRM referenced material, be able to apply the TRM. To include: LCO, applicability, applying action items and surveillances.

Cognitive Level Memory or Fundamental Knowledge
Comprehension or Analysis X

Technical Reference TRM 3.1.1

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)
TRM 3.1.1

AnswerAnalysis: B is correct since TRM 3.1.1 requires two charging pumps to be operable to meet the spec. Actions A and B as stated are applicable.
Distractor Analysis:  A is incorrect since TRM 3.1.1 requires action. C is incorrect since these are the actions for Mode 3 and 4, and the plant is in Mode 1. D is incorrect since this is the action for both required flow paths out of service.
Question 13  B000.1065  (1 point(s))

During normal at power operation with the "B" Charging Pump OOS, the "A" Charging Pump trips and cannot be restarted. Which of the following states the required action, if any?

a. No actions required.

b. Restore a second charging pump to operable status within 72 hours, if not restored then, be in Mode 3 and verify adequate SDM in 6 hours.

c. Restore a second charging pump to operable status within 7 days, if not restored then, be in Mode 5 in 30 hours.

d. Restore a second charging pump to operable status immediately, if not restored then, be in Mode 3 and verify adequate SDM in 6 hours.

Answer 13

b. Restore a second charging pump to operable status within 72 hours, if not restored then, be in Mode 3 and verify adequate SDM in 6 hours.
Learning Objective: RAP11C 2.01
Given a set of plant and equipment conditions evaluate the conditions to determine the applicable procedure, and from the procedure determine the appropriate EXPECTED ACTIONS or RESPONSE NOT OBTAINED instructions to implement. (AP-PRZR.1)

R2701C 3.06
Describe the cause-effect relationship between the ESFAS and the ECCS.

Cognitive Level Memory or Fundamental Knowledge
Comprehension or Analysis

Technical Reference

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)
None

Answer Analysis: D is correct since the spray valve will depressurize the RCS causing a Reactor Trip and SI. The SI pump will deliver flow to the RCS causing a water solid condition at approximately SI pump shut off head (1575 psig).
Distractor Analysis: A is incorrect since the SI pump will increase RCS pressure to the shut-off head once the RCS is water solid. B is incorrect because the "B" RCP is the incorrect RCP to stop per AP-PRZR.1. C is incorrect for the same reasons as A and B.
During power operations AOV-431A Pressurizer Spray Valve opens to control pressure and becomes mechanically stuck at 50% open. Which one of the following describes the plant response with no operator actions and the operator action to mitigate this event.

a. RCS pressure will decrease to approximately 1050 psig. Rx trip and SI will occur. Pressure will stabilize at approximately 1050 psig. The operators should trip the Rx and "A" RCP per AP-PRZR.1, Abnormal PRZR Pressure.

b. RCS Pressure will decrease to below SI pump shutoff head. The Rx will Trip and SI will occur. RCS pressure will stabilize at approximately 1500 psig. The operators should Trip the Rx and "B" RCP per AP-PUR.1, Abnormal PRZR Pressure.

c. RCS Pressure will decrease to approximately 1050 psig. Rx Trip and SI will occur. Pressure will stabilize at approximately 1050 psig. The operators should Trip the Rx and "B" RCP per AP-PRZR.1, Abnormal PRZR Pressure.

d. RCS Pressure will decrease to below SI pump shutoff head. The Rx will Trip and SI will occur. RCS Pressure will stabilize at approximately 1500 psig. The operators should trip the Rx and "A" RCP per AP-PRZR.1, Abnormal PRZR Pressure.

Answer 14

d. RCS Pressure will decrease to below SI pump shutoff head. The Rx will Trip and SI will occur. RCS Pressure will stabilize at approximately 1500 psig. The operators should trip the Rx and "A" RCP per AP-PRZR.1, Abnormal PRZR Pressure.
EXAM QUESTION HISTORY

<table>
<thead>
<tr>
<th>Question #</th>
<th>RO</th>
<th>SRO</th>
<th>TIER</th>
<th>KA</th>
<th>Group</th>
<th>Importance</th>
</tr>
</thead>
<tbody>
<tr>
<td>B022.0004</td>
<td></td>
<td></td>
<td>2</td>
<td>022A2.01</td>
<td>1</td>
<td>2.7</td>
</tr>
</tbody>
</table>

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th></th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
<tr>
<td></td>
<td>Original Bank Ginna # B022.0004</td>
</tr>
<tr>
<td></td>
<td>Bank Originating Bank #</td>
</tr>
</tbody>
</table>

10CFR55 Content 55.41, 55.43.2

Learning Objective: R2201C 6.02

Given a set of plant conditions and a copy of Tech Specs and Tech Spec referenced material (i.e. COLR) be able to apply the Tech Specs. To include: LCO, applicability, applying action items, surveillances and the use of basis to aid in application.

Cognitive Level Memory or Fundamental Knowledge Memory or Fundamental Knowledge
Comprehension or Analysis X

Technical Reference ITS 3.6.6

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)

AnswerAnalysis: A is correct - "A" and "C" CRFC's both inoperable makes both trains of post accident charcoal trains inoperable thus LCO 3.6.6.C applies.
Distractor Analysis:  B is incorrect - wrong LCO action statement. C is incorrect - wrong LCO action statement. D is incorrect - containment spray and CRFCs are not completely interchangeable.
The plant is operating at 100% power with the following equipment alignment: B, C, and D Containment Recirculation Fan Coolers (CRFCs) are in service. All other equipment is available and aligned for normal operation. The "C" CRFC develops high vibration, is declared "inoperable, and is secured after "A" CRFC is started. Five minutes after starting "A" CRFC, it trips on overcurrent. A local reset is attempted. The "A" CRFC will not start.

What are the plant operational restrictions due to these events? (TSAS: Tech Spec Action Statement)

a. The plant is in a 72-hour TSAS, if not met must be in Mode 3 in 6 hours and Mode 5 in 84 hours.

b. The plant is in a 7-day TSAS, if not met must be in Mode 3 in 6 hours and Mode 5 in 36 hours.

c. The plant is in a 1-hour TSAS, if not met must be in Mode 3 in 6 hours and Mode 5 in 48 hours.

d. The plant is not in a TSAS for required shutdown since both trains of containment spray operable.

Answer 15

a. The plant is in a 72-hour TSAS, if not met must be in Mode 3 in 6 hours and Mode 5 in 84 hours.
Question #  RO ______  SRO  16 ______
TIER  2 ______  Group  1 ______
B300.0034    KA 064G2.1.33    Importance  4.0 ______

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th></th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
<tr>
<td>Original Bank</td>
<td>#</td>
</tr>
<tr>
<td>X</td>
<td>Bank Originating Bank Ginna</td>
</tr>
</tbody>
</table>

10CFR55 Content  55.41 ______  55.43 2 ______

Learning Objective: R0801C 10.02
Given a set of plant conditions and a copy of Tech Specs and Tech Specs referenced material i.e. (COLR) be able to apply the Tech Specs. To include: LCO, applicability, applying actions, surveillances and the use of basis to aid in application.

Cognitive Level  Memory or Fundamental Knowledge  ______
Comprehension or Analysis  X ______

Technical Reference  PT-12.1/TS 3.8.1 ______

Level of Difficulty (from attachment 3) ______

References required on Exam (Attach copy to this attachment)
PT-12.1 TS 3.8.1 ______

Answer Analysis: B is correct - PT-12.1 requires the D/G be declared inoperable due to low lube oil pressure < 68 psig. TS 3.8.1 allows 7 days to repair.
Distractor Analysis: A is wrong since PT-12.1 requires the D/G be declared inoperable due to low lube oil pressure. C is wrong since 7 days, not 24 hours, are allowed for restoring the D/G. D is wrong since PT-12.1 puts the lube oil pressure in the Action Required range, not the Alert range.
At 97% power during PT-12.1 "Emergency Diesel Generator 1A" test, with all equipment operable, the following test conditions were noted:

- Load 2005 KW
- Power Factor .95 Lagging
- Fuel Oil Press 38 psig
- Lube Oil Press 67 psig
- Jacket Water Press 34 psig
- Air Manifold 22 psig

Based on the given information, Which one of the following describes the required actions, if any, assuming the "B" D/G and offsite power have been verified operable?

a. All requirements satisfied, No Actions.
b. Declare the "A" D/G inoperable, and restore to operable status in 7 days.
c. Declare the "A" D/G inoperable, and restore to operable status in 24 hours.

Answer 16

b. Declare the "A" D/G inoperable, and restore to operable status in 7 days.
EXAM QUESTION HISTORY

Question # RO _______ SRO 17
TIER 2 Group 2
B000.1067 KA 034A2.01 Importance 4.4

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th>New</th>
<th>Modified (Attach original and Modified Questions)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Original Bank _______ # ____________</td>
</tr>
<tr>
<td>X</td>
<td>Bank Originating Bank INPO _______ # Seabrook 5/30/2003</td>
</tr>
</tbody>
</table>

10CFR55 Content 55.41____ 55.43.7____

Learning Objective: RRFOlC 4.00
Given a set of plant conditions and a copy of the Refueling Emergency Procedure (RF-65.4), apply the procedures.

Cognitive Level Memory or Fundamental Knowledge __
Comprehension or Analysis X

Technical Reference RF-65.4

Level of Difficulty (from attachment 3) __________________

References required on Exam (Attach copy to this attachment) None

Answer Analysis: C is correct since these are the actions in RF-65.4.
Distractor Analysis: A is wrong since actions are required for dropping an assembly. B is incorrect since evacuation is required. D is incorrect since position verification is not part of RF-65.4.
The following conditions exist:

There is a core off-load in progress
The fuel handlers were moving irradiated fuel to a location in the spent fuel pool
You are notified that the spent fuel bundle was accidently dropped in the spent fuel pool
The bundle fell into the correct location
R-5, Spent Fuel Pool radiation monitor reads 4 mrem/hr and is steady

What actions, if any, are required?

a. No action is required

b. Enter procedure EPIP 1-13, High Radiation Area. Confer with RP about evacuating personnel from the area.

c. Enter procedure RF-65.4, Fuel Handling Accident. Evacuate personnel from the area and refer to EPIP 1-13, Local Radiation Emergency and EPIP 1-0 Event Classification.

d. Enter procedure RF-65.4, Fuel Handling Accident. Instruct the bridge to verify proper location in fuel pool and instruct RP to measure radiation levels above pool. Inform reactor engineering.

Answer 17

c. Enter procedure RF-65.4, Fuel Handling Accident. Evacuate personnel from the area and refer to EPIP 1-13, Local Radiation Emergency and EPIP 1-0 Event Classification.
Learning Objective: RAP04C 2.01
Given a set of plant and equipment conditions, evaluate the conditions to determine the applicable procedure, and from the procedure determine the appropriate EXPECTED ACTIONS or RESPONSE NOT OBTAINED instructions to implement. (AP-CR.1)

Cognitive Level  Memory or Fundamental Knowledge
                  Comprehension or Analysis

Technical Reference  AP-CR.1

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)
None

Answer Analysis: D is correct since small fires which do not affect MCB equipment are addressed by AP-CR.1
Distractor Analysis:  A and B are incorrect since ER-FIRE.1 only addresses Control Room fires where a loss of control room equipment occurs. C is incorrect since ER-FIRE.0 only gives general guidance for fires outside the Control Room.
During 100% power operations a small fire occurs in the Control Room kitchen. Large quantities of smoke fill the Control Room forcing the operating crew to evacuate. Assuming the fire is controlled in the kitchen area, Which one of the following procedures is the operating crew required to implement?

a. E-0, Reactor Trip or Safety Injection
b. ER-FIRE.1, Alternate Shutdown for Control Complex Fire
c. ER-FIRE.0, Control Room Response to Fire Alarm and Reports
d. AP-CR.1, Control Room Evacuation
**EXAM QUESTION HISTORY**

<table>
<thead>
<tr>
<th>Question #</th>
<th>RO</th>
<th>SRO</th>
<th>TIER</th>
<th>Group</th>
<th>Importance</th>
</tr>
</thead>
<tbody>
<tr>
<td>B006.0001</td>
<td>KA</td>
<td>G2.1.12</td>
<td></td>
<td></td>
<td>4.0</td>
</tr>
</tbody>
</table>

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th></th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Original Bank</th>
<th>#</th>
</tr>
</thead>
</table>

<table>
<thead>
<tr>
<th>X</th>
<th>Bank</th>
<th>Originating Bank</th>
<th>Ginna</th>
<th>#</th>
</tr>
</thead>
</table>

10 CFR 55 Content

55.41 | 55.43.2

Learning Objective: R2501C 9.02

Given a set of plant conditions and a copy of Tech Specs and Tech Spec referenced material (i.e. COLR) be able to apply the Tech Specs. To include: LCO, applicability, applying action items, surveillances and the use of basis to aid in application.

Cognitive Level

<table>
<thead>
<tr>
<th>Memory or Fundamental Knowledge</th>
<th>Comprehension or Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Technical Reference

Tech Spec 3.5.2, 3.5.3, 3.0

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)

Tech Specs 3.5.2, 3.5.3.

Answer Analysis: B is correct since only one ECCS train is required in Mode 4 and two trains are required in Mode 3, since you cannot increase modes with required equipment OOS (TS 3.0.4)
Distractor Analysis:  

A is incorrect since the LCO requirement for Modes 1-3 are not met.

C is incorrect since the LCO for the current mode is met.  

D is incorrect since TS 3.0.4 prohibits changing mode from 4 to 3.
A plant heatup was in progress, with the RCS at 300 degrees F and 350 psig, when the B SI pump failed its surveillance and was declared inoperable. Which one of the below limits are placed on the plant heatup?

a. All ECCS LCOs satisfied, may operate in any mode.

b. ECCS LCO for this mode satisfied but may not proceed into mode 3.

c. ECCS LCO not satisfied, 1 hour to restore B SI pump, then 24 hrs to mode 5.

d. ECCS LCO satisfied for this mode but enter a 72 hour clock when proceeding into mode 3.

Answer 19

b. ECCS LCO for this mode satisfied but may not proceed into mode 3.
EXAM QUESTION HISTORY

| Question # | RO  | SRO  | TIER  | Bank Originating Bank | Ginna | #
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>B310.0119</td>
<td></td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

|     | New
|     | Modified (Attach original and Modified Questions)
|     | Original Bank
| X  | Bank Originating Bank
|    | Ginna

10CFR55 Content

Learning Objective: RAD03C 2.01
State the authority and responsibilities of licensed personnel with regards to emergency operations.

Cognitive Level

<table>
<thead>
<tr>
<th>Memory or Fundamental Knowledge</th>
<th>Comprehension or Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

Technical Reference

A-503.1/10CFR50.54(X)/O-9.3

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)

<table>
<thead>
<tr>
<th>O-9.3</th>
</tr>
</thead>
</table>

Answer Analysis: D is correct per 10CFR50.54(X). a licensed SRO must approve the deviation and per O-9.3 this is a one-hour reportable.
Distractor Analysis: A, B, C are incorrect since these individuals are not SRO licensed.
During performance of EOP's, the CRF determines that a deviation in accordance with 10CFR50.54(x) is necessary.

Which one of the following describes the required approvals/notifications?

a. The Director of Operations and the NRC must approve intended deviation prior to implementation.

b. The Director of Operations must approve the deviation. The NRC must be notified within one hour.

c. Plant Manager must approve the deviation. The NRC must be notified within four hours.

d. Licensed SRO must approve the deviation. The NRC must be notified within one hour.

d. Licensed SRO must approve the deviation. The NRC must be notified within one hour.
EXAM QUESTION HISTORY

<table>
<thead>
<tr>
<th>Question #</th>
<th>RO</th>
<th>SRO</th>
<th>TIER</th>
<th>KA</th>
<th>Bank Originating Bank</th>
<th>Original Bank</th>
<th>10CFR55 Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>B000.1071</td>
<td></td>
<td></td>
<td>3</td>
<td>2.2.20</td>
<td></td>
<td></td>
<td>55.41 55.43.5</td>
</tr>
</tbody>
</table>

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

| X | New |
|   |     |
|   | Modified (Attach original and Modified Questions) |

Original Bank | # 

Bank Originating Bank | #

Cognitive Level | Memory or Fundamental Knowledge | Comprehension or Analysis | X

Technical Reference | AR-J-5

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)

None

Answer Analysis: C is correct since the AR-J-5 status that the breaker should not be reset unless the component is required.
Distractor Analysis: A is incorrect since the component is not needed for these plant conditions. B is incorrect for the same reason as A. D is incorrect for the same reason as A.
Plant in Mode 1, 100% power, steady state conditions. Operators are filling the A SI Accumulator per S-16.13 with the B SI pump when the B SI pump breaker trips open. Which of the following is the correct operator action?

a. Attempt one B SI pump breaker reset and reclosure.

b. Reset the B SI pump breaker and start the C SI pump.

c. Do not attempt reset and reclosure of the B SI pump breaker. Initiate corrective action per IP-CAP.1

d. Reset the B SI pump breaker and fill the A SI Accumulator with the SI Accumulator makeup pump

Answer 21

c. Do not attempt reset and reclosure of the B SI pump breaker. Initiate corrective action per IP-CAP.1
EXAM QUESTION HISTORY

Question #   RO  SRO  
TIER 3     22
B300.0061  KA  2.2.23

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>New</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Original Bank #</td>
</tr>
<tr>
<td>X</td>
<td>Bank</td>
<td>Originating Bank Ginna # B300.0061</td>
</tr>
</tbody>
</table>

10CFR55 Content 55.41 55.43 1

Learning Objective: RAD13C 1.04
Given a hypothetical situation, demonstrate the ability to properly complete the attachments of procedure A-52.4.

Cognitive Level
Memory or Fundamental Knowledge X
Comprehension or Analysis

Technical Reference A-52.4

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)
None

Answer Analysis: D is correct since the tracking is used only to document equipment that is not needed for present condition.
Distractor Analysis:  A is incorrect since if the equipment is inoperable, it must be tracked regardless of the status of the redundant equipment. B is incorrect since the two documents are not linked. C is incorrect since it is not up to an individual to decide whether to meet this requirement.
Equipment covered in section 3 of ITS has become inoperable and is being documented by an A-52.4 Attachment. Which one of the following explains when the "Tracking Purposes Only" space should be checked?

a. The redundant component/train is operable
b. A WR/TR or WO is not required
c. At the discretion of the individual completing the attachment.
d. The equipment is not required to be operable for the present mode.

Answer 22

d. The equipment is not required to be operable for the present mode.

TC 96-020
EXAM QUESTION HISTORY

<table>
<thead>
<tr>
<th>Question #</th>
<th>RO</th>
<th>SRO 23</th>
</tr>
</thead>
<tbody>
<tr>
<td>C000,1061</td>
<td>TIER 3</td>
<td>Group</td>
</tr>
<tr>
<td></td>
<td>KA 2.3.6</td>
<td>Importance 3.1</td>
</tr>
</tbody>
</table>

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th></th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
<tr>
<td></td>
<td>Original Bank               #</td>
</tr>
<tr>
<td>X</td>
<td>Bank Originating Bank       Ginna       # C000,1061</td>
</tr>
</tbody>
</table>

10CFR55 Content  55.41  55.43 4

Learning Objective

Cognitive Level Memory or Fundamental Knowledge  X  Comprehension or Analysis

Technical Reference  CH-RETS-GDT-REL

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)

None

Answer Analysis: A is correct since the release procedure requires that R-14/R-14A be checked prior to a GDT release.
Distractor Analysis:  B is incorrect since both Plant Exhaust Fans are not run at the same
    time.  C is incorrect since the tank does not need to be held for 30 days.  D - the 24 hour
    requirement is incorrect.
Which of the following items is the Shift Supervisor required to verify prior to authorizing a Gas Decay Tank Release?

a. Radiation Monitors R-14 or R14A operable

b. Both Plant Vent Exhaust Fans are running

c. The Gas Decay Tank has been isolated and held for at least 30 days

d. The release will be initiated within 24 hours of tank sample time.

Answer 23

a. Radiation Monitors R-14 or R14A operable
EXAM QUESTION HISTORY

Question # RO _______ SRO 24 _______
TIER 3 _______ Group _______
B000.1069 KA 2.3.9 _______ Importance 3.4 _______

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>X</td>
<td>New</td>
</tr>
<tr>
<td></td>
<td>Modified (Attach original and Modified Questions)</td>
</tr>
</tbody>
</table>

Original Bank  #
Bank Originating Bank  #

10CFR55 Content  55.41  55.43  4

Learning Objective:  R2201C 6.02
Given a set of plant conditions and a copy of Tech Specs and Tech Spec referenced material (i.e. COLR) be able to apply the Tech Specs. To include: LCO, applicability, applying action items, surveillances and the use of basis to aid in application.

Cognitive Level  Memory or Fundamental Knowledge
Comprehension or Analysis  X

Technical Reference  TS 3.3.5, S-23.2.2

Level of Difficulty (from attachment 3)  

References required on Exam (Attach copy to this attachment)
TS 3.3.5, S-23.2.2

Answer Analysis:  A is correct since TS 3.3.5 and S-23.2.2 require R-12 to be operable during irradiated fuel movement inside CNMT.
Distractor Analysis: B. C. and D are incorrect since CNMT purge while irradiated fuel movement is in progress is not allowed with R-12 OOS.
Question 24  B000.1069  (1 point(s))

Given the following conditions:

Plant is in Mode 5
Irradiated Fuel Movement is in progress inside CNMT
CNMT Purge is in service
R-12A is operable and in service
R-12 Containment Noble Gas Monitor fails

Using the attached references, which of the following statements describes the required action for this failure.

a. 4 hours to repair R-12, then remove purge from service and close the purge supply and exhaust valves.

b. Stop movement of Irradiated Fuel immediately, CNMT Purge may continue

c. No actions are required since R-12A is in service and can be used to monitor CNMT purge.

d. Purge may continue provided an operator is dedicated to monitoring R-12A and securing CNMT purge if R-12A alarms.

Answer 24

a. 4 hours to repair R-12, then remove purge from service and close the purge supply and exhaust valves.
Question #  RO _______       SRO _25_____
        TIER _3_____       Group _______
B000.1072  KA ___2.4.28___       Importance _3.3_____

Source of Question (Note: Attach question and any subsequent modifications to this attachment)

<table>
<thead>
<tr>
<th>X</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Modified (Attach original and Modified Questions)

<table>
<thead>
<tr>
<th>Original Bank</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Bank</th>
<th>Originating Bank</th>
<th>#</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

10CFR55 Content  55.41_____     55.43.5____

Learning Objective

_________________________________________

_________________________________________

_________________________________________


Cognitive Level

Memory or Fundamental Knowledge

Comprehension or Analysis  X

Technical Reference  S-30 Step 5.3.1

Level of Difficulty (from attachment 3)

References required on Exam (Attach copy to this attachment)

None

Answer Analysis:  B is correct. S-30 requires that the entire series be completed if sabotage is detected.
Distractor Analysis: A is incorrect since no shutdown is required. C is incorrect since more than checking the one suspect valve is required. D is incorrect since no evacuation is required.
While the plant is at 90% power, increasing to 100%, the Primary AO notifies the Control Room that he found SI pump suction valve V-890A with its chain cut and in the closed position. After notifying Security of this event, which of the following actions are the operators required to perform?

a. Begin a Plant Shutdown per O-2.1, Shutdown to Hot Shutdown Conditions, continuing until SI Train A components are verified in their correct position.

b. Perform the S-30 Safeguard Equipment Lineup check procedures to verify correct system valve and breaker positions.

c. Send two qualified operators to perform an independent verification on V-890A, relock the valve and then perform PT-2.1Q, Safety Injection System Quarterly Test.

d. Remain at 90% power until V-890A is verified in its correct position.

Answer 25

b. Perform the S-30 Safeguard Equipment Lineup check procedures to verify correct system valve and breaker positions.