EXAM QUESTION HISTORY

Question # B000.1057

RO _____
TIER 1
KA 000017G2.1.32

SRO 1
Group 1
Importance 3.8

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 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.

AnswerAnalysis: 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_H 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.

Question 1 B000.1057 (1 point(s))

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.

d. Depressurize the RCS to less than 1400 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.

EXAM QUESTION HISTORY

Question # B000.1058 RO _____ TIER 1 KA 000022AA2.04 SRO 2 Group 1 Importance 3.8

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 5 _____

Learning Objective: RAP31C 1.03
State the reason/basis for the CAUTIONS, NOTES and/or Major Action Categories in AP-CVCS.3, Loss of All Charging Flow.

Cognitive Level Memory or Fundamental Knowledge _____
Comprehension or Analysis X

Technical Reference AP-CVCS.3

Level of Difficulty (from attachment 3) _____

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

AnswerAnalysis: 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 incorect since this would not be effective in maintaining RCS pressure control.

Question 2 B000.1058 (1 point(s))

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 to control inventory. RCS inventory will be maintained due to the short time taken to shutdown.

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

d. Monitor Przr Level when Przr Level decreases to less than 5% the Trip the Reactor and go to E-0, SI will automatically start as pressure decrease 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 to control inventory. RCS inventory will be maintained due to the short time taken to shutdown.

EXAM QUESTION HISTORY

Question # B008.0005 RO ____ SRO 3
TIER 1 Group 1
KA 000026AA2.04 Importance 2.9

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 # B008.0005

10CFR55 Content 55.41 ____ 55.43 5

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

AnswerAnalysis: 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.

Question 3 B008.0005 (1 point(s))

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

Question # C000.0266

RO ____ TIER 1 KA 000027G2.1.32

SRO 4 Group 1 Importance 3.8

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 # C000.0266

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.

Cognitive Level
Memory or Fundamental Knowledge X
Comprehension or Analysis ____

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

AnswerAnalysis: 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.

Question 4 C000.0266 (1 point(s))

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

EXAM QUESTION HISTORY

Question # B000. 1059 RO _____ TIER 1 KA 000055EA2.06 SRO 5 Group 1 Importance 4.1

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 5 _____

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 X

Technical Reference RGE07 480V Distribution

Level of Difficulty (from attachment 3) _____

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

AnswerAnalysis: 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.

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 Buses 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 Buses Normal Feed Breakers.

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

d. Restore power to 4160V Buses 12A/B per ECA-0.0, Loss of all AC. The Safeguard Bus Feeder Normal 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 Buses Normal Feed Breakers.

EXAM QUESTION HISTORY

Question # B000.1060

RO _____ SRO 6
TIER 1 Group 1
KA 000057G2.4.30 Importance 3.6

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: 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

AnswerAnalysis: 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.

Question 6 B000.1060 (1 point(s))

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

Question # B035.0004 RO ____ TIER 1 KA WE/05EA2.1 SRO 7 Group 1 Importance 4.4

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 # B035.0004

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 X

Technical Reference CSFST F-0.3

Level of Difficulty (from attachment 3) ____

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

AnswerAnalysis: C per the CSFST F-0.3 a Red Path exists on Heat Sink and the next procedure which should be performed after E-0 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.

Question 7 B035.0004 (1 point(s))

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 the procedure, subsequent action should be performed under which of the following procedures?

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 # B000.1061 RO ____ TIER 1 KA 000069AA2.02 SRO 8 Group 2 Importance 4.4

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

____	New
X	Modified (Attach original and Modified Questions)
	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

AnswerAnalysis: 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.

B000.1061

..069.AA2.02 | 3/10/2003 | Print Recor | New Searc | Exit

Indian Point 2 (Unit) | Exam Level S

Question

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:

oRCS boron concentration is ~~2050~~ 2320 ppm

oZone II of the Weld Channel & Penetration Pressurization System (~~WCPRS~~) was ~~tagged out~~ removed from service 48 hours ago

oBoth doors of the ~~95~~ containment airlock are open to facilitate repairs of the ~~WGPRS~~ airlock seals

oOne door of the ~~80~~ personnel airlock is properly closed

oContainment leakage was previously verified to be less than 0.2% of the containment free volume per day

oContainment Purge is in ~~Service~~

equipment hatch

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?

Answer: A. Repair and properly close at least ONE door in the ~~95~~ personnel airlock.

Distracter 1 B. ~~Verify the Isolation Valve Seal Water System (IVSWS) is OPERABLE.~~ Restore the Containment Penetration Pressurization System to operable status.

Distracter 2 C. Verify the automatic containment purge ~~and pressure relief isolation valves are set to limit travel to less than or equal to 60 degrees travel~~. is removed from service

Distracter 3 D. Close the other door of the ~~80 personnel airlock.~~ cont equipment hatch Personnel Airlock

Distracter Analysis:

Answer:
A.Correct.
B.Incorrect. IVSW for Hot Shutdown and above
C.Incorrect. Purge may be in operation in CSD
D.Incorrect. Only 1 door required

Distracter 1:
A.Correct.
B.Incorrect. IVSW for Hot Shutdown and above
C.Incorrect. Purge may be in operation in CSD
D.Incorrect. Only 1 door required

Distracter 2:
A.Correct.
B.Incorrect. IVSW for Hot Shutdown and above
C.Incorrect. Purge may be in operation in CSD
D.Incorrect. Only 1 door required

Distracter 3:
A.Correct.
B.Incorrect. IVSW for Hot Shutdown and above
C.Incorrect. Purge may be in operation in CSD
D.Incorrect. Only 1 door required

ANS A.

Question 8 B000.1061 (1 point(s))

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 properly 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 properly 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 properly close at least ONE door in the Equipment Hatch.

EXAM QUESTION HISTORY

Question # B000.1062

RO _____
TIER 1
KA 0000076A2.02

SRO 9
Group 2
Importance 2.7

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 INPO # Byron 6/29/2000

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

AnswerAnalysis: 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 should 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 # B000.1063

RO _____
TIER 1
KA W/E06 2.4.4

SRO 10
Group 2
Importance 4.3

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 55.41.10 55.43.2

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.

Question 10 B000.1063 (1 point(s))

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)

_____	New
_____	Modified (Attach original and Modified Questions)
	Original Bank _____ # _____
X	Bank Originating Bank Ginna # C000.0043

10CFR55 Content 55.41.10 55.43.2

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
Comprehension or Analysis _____

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 - N_2 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.

Question 11 C000.0043 (1 point(s))

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. Depressurization to less than accumulator pressure prior to accumulator isolation may cause water solid PRZR which will result in a loss of PRZR pressure control.

b. Depressurization to less than accumulator pressure prior to accumulator isolation will allow nitrogen into the RCS which may cause gas binding in the SG U-tubes.

c. Depressurization to less than accumulator pressure prior to accumulator isolation will delay depressurization since accumulator in flow to RCS will tend to stabilize RCS pressure.

d. Depressurization to less than accumulator pressure prior to accumulator isolation will cause cold water addition to RCS which will result in rapid RCS depressurization and loss of subcooling from thermal shrink.

Answer 11

c. Depressurization to less than accumulator pressure prior to accumulator isolation will delay depressurization since accumulator in flow to RCS will tend to stabilize RCS pressure.

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TC 95-139

EXAM QUESTION HISTORY

Question # 12 RO _____ SRO 12
TIER 1 Group 2
B000.1064 KA W/E09EA2.2 Importance 3.8

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

_____	New
X	Modified (Attach original and Modified Questions)
	Original Bank INPO # Diablo Canyon 1/1/2000
_____	Bank Originating Bank _____ # _____

10CFR55 Content 55.41 _____ 55.43.5 _____

Learning Objective: RES03C 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-0.3)

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

AnswerAnalysis: 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.

Possible 12

1/1/2000

Diablo Canyon 1 Exam Level S

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Question

Due to a reactor trip and subsequent loss of offsite power, procedure E-0.4, "Natural Circulation Cooldown with Steam Void in Vessel (without RVLIS)," step 8, is in progress. During depressurization to the target pressure, PZR level rapidly increases to 92%.

What action(s) should the operators take?

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

Distracter 1 Stop RCS depressurization, then isolate accumulators if RCS pressure is less than 1000 psig.

Distracter 2 Continue RCS depressurization until RCS pressure is within 50 psig of the average pressure of all SGs.

Distracter 3 Continue RCS depressurization until RCS pressure is less than 900 psig, then isolate accumulators.

Distracter Analysis:

Answer:

Distracter 1:

Distracter 2:

Distracter 3:

Question 12 B000.1064 (1 point(s))

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 # B000.1065 RO ____ TIER 2 KA 004G2.1.33 SRO 13 Group 1 Importance 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.

a. No Actions Required, Charging Pumps are not Tech Spec required equipment.

b. Restore a second charging pump to operable status within 72 hours, then be in Mode 3 and verify adequate SDM in 6 hours.

c. Restore a second charging pump to operable status within 7 days, then be in Mode 5 in 30 hours.

d. Restore a second charging pump to operable status immediately and 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, then be in Mode 3 and verify adequate SDM in 6 hours.

EXAM QUESTION HISTORY

Question # RO _____ SRO 14
TIER 2 Group 1
B000.1066 KA 013A2.03 Importance 4.7

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 5

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 X

Technical Reference _____

Level of Difficulty (from attachment 3) _____

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

AnswerAnalysis: 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.

Question 14 B000.1066 (1 point(s))

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-PRZR.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

Question #	RO _____	SRO 15
	TIER 2	Group 1
B022.0004	KA 022A2.01	Importance 2.7

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

_____	New
X	Modified (Attach original and Modified Questions)
	Original Bank Ginna # B022.0004
_____	Bank Originating Bank _____ # _____

10CFR55 Content 55.41.___ 55.43.5___

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 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.

Possible #15

QUESTION ID: B022.0004 **POINTS:** 1 **STATUS:** **COG LVL:**

QUESTION

The shift supervisor has declared the "A" containment recirculation fan cooler (CRFC) inoperable for routine maintenance. Four hours later the "C" CRFC shuts down due to a breaker failure. 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 72-hour TSAS, if not met must be in Mode 3 in 6 hours and Mode 5 in 36 hours.

c. 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.

d. The plant is in a 7-day TSAS, if not met must be in Mode 3 in 6 hours and Mode 5 in 84 hours.

ANSWER

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.

Handouts:

None

Lessons	Enabling Objs.	Tasks	References	K and A's
R2201C	R2201C 6.02	None	None	None

A & C supply Post-Accident charcoal System

Question 15 B022.0004 (1 point(s))

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.

EXAM QUESTION HISTORY

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)

_____	New
_____	Modified (Attach original and Modified Questions)
	Original Bank _____ # _____
X	Bank Originating Bank Ginna # B300.0034

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

AnswerAnalysis: 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.

Question 16 B300.0034 (1 point(s))

At 97% power during PT-12.1 "Emergency Diesel Generator 1A" test, the following 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 any required actions, assuming the "B" D/G and offsite power verified operable.

a. All requirements satisfied, No Actions.

b. Declare the "A" D/G inoperable, continued operation allowed for 7 days.

c. Declare the "A" D/G inoperable, continued operation allowed for 24 hours.

d. One D/G parameter in the Alert Range. Submit an Action Report.

Answer 16

b. Declare the "A" D/G inoperable, continued operation allowed for 7 days.

EXAM QUESTION HISTORY

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

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 INPO # Seabrook 5/30/2003

10CFR55 Content 55.41 ____ 55.43 7

Learning Objective: RRF01C 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.

Question 17 B000.1067 (1 point(s))

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.

EXAM QUESTION HISTORY

Question # B000.1068 RO _____ TIER 2 KA 086G2.4.4 SRO 18 Group 2 Importance 4.3

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 5 _____

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 X

Technical Reference AP-CR.1

Level of Difficulty (from attachment 3) _____

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

AnswerAnalysis: 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.

Question 18 B000.1068 (1 point(s))

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 limited to the kitchen area, which one of the following procedure(s) provides guidance for operating the plant under these conditions.

a. AP-CR.1, Control Room Evacuation and ER-FIRE.1, Alternate Shutdown for Control Complex Fire

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

Answer 18

d. AP-CR.1, Control Room Evacuation

EXAM QUESTION HISTORY

Question # B006.0001 RO _____ TIER 3 KA G2.1.12 SRO 19 Group _____ Importance 4.0

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 # B006.0001

10CFR55 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 Memory or Fundamental Knowledge _____
Comprehension or Analysis X

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.

AnswerAnalysis: 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.

Question 19 B006.0001 (1 point(s))

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 SIP then 24 hrs to mode 5.

d. ECCS LCO satisfied for this mode but enter a 72 hour clock when proceed 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 20
	TIER 3	Group _____
B000.1070	KA 2.1.14	Importance 3.3

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 5 _____

Learning Objective: RSC08C 3.00
Using appropriate procedures and given a set of plant conditions, the SRO should determine the response of the Control Room for fighting a fire in the Power Block, or on-site within the perimeter of the fence.

Cognitive Level Memory or Fundamental Knowledge X
Comprehension or Analysis _____

Technical Reference ER-FIRE.0 Appendix A

Level of Difficulty (from attachment 3) _____

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

Answer Analysis: B is correct since the Fire Response procedure requires notification of the plant personnel via the paging system.

Distractor Analysis: A is incorrect. Energy Operations is not initially notified of fires. C and D are incorrect sinced these notifications would only be performed if an actual fire occurred and it was of a long duration.

Question 20 B000.1070 (1 point(s))

A fire alarm on FCP-1 in the Control Room is received. After notifying the Fire Brigade Captain, what is the next action the Control Room is required to take?

a. Notify RG&E Energy Operations of the fire location and severity.

b. Notify plant personnel on the plant paging system.

c. Notify the NRC per O-9.3, NRC Immediate Notification.

d. Notify New York State, Monroe and Wayne Counties per EPIP 1-5.

Answer 20

b. Notify plant personnel on the plant paging system.

EXAM QUESTION HISTORY

Question # B000.1071 RO ____ TIER 3 KA 2.2.20 SRO 21 Group ____ Importance 3.3

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 5

Learning Objective

Cognitive Level
Memory or Fundamental Knowledge X
Comprehension or Analysis ____

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.

Question 21 B000.1071 (1 point(s))

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 aciton?

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 22
	TIER 3	Group _____
B300.0061	KA 2.2.23	Importance 3.8

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 # B300.0061

10CFR55 Content 55.41_____ 55.43_____

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

AnswerAnalysis: 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.

Question 22 B300.0061 (1 point(s))

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

Question # C000.1061 | RO ____ TIER 3 KA 2.3.6 | SRO 23 Group ____ Importance 3.1

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 # C000.1061

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.

Question 23 C000.1061 (1 point(s))

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 # B000.1069

RO _____
TIER 3
KA 2.3.9

SRO 24
Group _____
Importance 3.4

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 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.

EXAM QUESTION HISTORY

Question # B000.1072 RO _____ TIER 3 KA 2.4.28 SRO 25 Group _____ Importance 3.3

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 5 _____

Learning Objective

_____

_____

_____

_____

Cognitive Level Memory or Fundamental Knowledge X
Comprehension or Analysis _____

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.

Question 25 B000.1072 (1 point(s))

While the plant is at 100% power, 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 and to relock the valve.

d. Order the evacuation of non-essential plant personnel to the Training Center until an investigation of the incident is complete.

Answer 25

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