ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 1

Question No: ILT-6583 STA_Question RO Question SRO Question

B

Reference Provided:
Technical Specifications 3.8.3

Reference:
TS 3.8.1, 3.8.3, 3.0.4

Explanation:

B. Correct - The low starting air pressure Div 1B DG requires it to be declared inoperable and all three DG are required to
be operable to change to Mode 1, IAW TS 3.0.4.

A. Incorrect - Div I DG remains operable.
C. Incorrect - Transfer to mode 1 is not allowed.
D. Incorrect - Div 2 DG is inoperable and transfer to mode 1 is not allowed.

This is a Tech Spec determination which meets 10CFR 55.43.2

System No:	KA No:	RO:	SRO:
295003	2.2.42	3.9	4.6

System/Evolution:

Partial or Complete Loss of A.C. Power

Category Statement:

Ability to recognize system parameters that are entry-level conditions for Technical Specifications.

K/A Statement:

Cog Level:

High

TIER:	GROUP:
1	1

10CFR:

CFR: 41.7 /
41.10 / 43.2 /
43.3 / 45.3

ANSWER KEY

ILT 08-01 SRO

Exam Question Number 2

Question No: ILT-6380 STA_Question RO Question SRO Question

D

Reference Provided:
None

Reference:
EOP-1 R 27

Explanation:

D is correct, an automatic scram should have occurred so action must be taken to manually scram the reactor and the NRC
must authorize restart.

A. An automatic scram should have occurred so action must be taken to manually scram the reactor.
B. An automatic scram should have occurred so action must be taken to manually scram the reactor
C. The NRC must authorize restart.

A normal plant startup must be authorized by the Plant Manager. This makes A and C plausible

This is a Tech Spec application which meets 10CFR 55.43.2

System No:	KA No:	RO:	SRO:
295005	AA2.05	3.8	3.9

System/Evolution:

Main Turbine Generator Trip

Category Statement:

Ability to determine and/or interpret the following as they apply to MAIN TURBINE GENERATOR TRIP:

K/A Statement:

Reactor power

Cog Level:

High

TIER:	GROUP:
1	1

10CFR:

41.10 / 43.5 /
45.13

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 3

Question No: ILT-2139 STA_Question RO Question SRO Question

C.

Reference Provided: Reference:
EP-AA-1003, Radiological Emergency Plan Annex For Clinton CPS 4003.01, Remote Shutdown R 14b

Explanation:

C is correct, A Site Area Emergency must be declared due the inability to establish plant control within 15 minutes.

A is incorrect, A Site Area Emergency must be declared due the inability to establish plant control within 15 minutes.
B is incorrect, the Alert is incorrect due to the inability to establish plant control.
D is incorrect, A Site Area Emergency must be declared due the inability to establish plant control within 15 minutes.

E-plan classification is an SRO function.

System No:	KA No:	RO:	SRO:
295016	2.4.41	2.9	4.6

System/Evolution:

Control Room Abandonment

Category Statement:

Knowledge of the emergency action level thresholds and classifications.

K/A Statement:

Cog Level:

High

TIER:	GROUP:
1	1

10CFR:

41.10 / 43.5 /
45.11

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 4

Question No: ILT-4922 STA_Question RO Question SRO Question

C

Reference Provided:
EP-AA-1003 CL3-6 to 3-13; Full set of EOPs with Entry Conditions and Cautions blanked.

Reference:
EP-AA-1003 14

Explanation:

C is correct, spike only requires a confirming sample, the value is in excess of Alert value per RA1, this is an EOP-9 entry
condition.

A is wrong, EOP-9 entry.
B is wrong, spike only requires a confirming sample, the value is in excess of Alert value per RA1, this is an EOP-9 entry condition.
D is wrong, spike only requires a confirming sample.

This requires the assessment of conditions using the E-Plan Classifications and selection of a procedure as per 10CFR55.43.4

System No:	KA No:	RO:	SRO:
295017	2.4.4	4.5	4.7

System/Evolution:

High Off-Site Release Rate

Category Statement:

Ability to recognize abnormal indications for system operating parameters that are entry-level conditions for emergency and abnormal operating procedures.

K/A Statement:

Cog Level:

High

TIER:	GROUP:
1	2

10CFR:

41.10 / 43.2 /
45.6

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 5

Question No: ILT-7117 STA_Question RO Question SRO Question

A

Reference Provided:
None

Reference:
CPS No. 4001.02, Automatic Isolation, section 4.5

Explanation:

A is correct, CPS No. 4001.02, Automatic Isolation, section 4.5, …within 3 hrs start/verify running SLC System. Per ITS Bases, the SLC sys is also used to maintain suppression pool pH at or above 7 following a LOCA involving significant fission product release.

B is incorrect, Aux Seal Injection Pump will shunt trip on Level 1 or Hi DW press.

C is incorrect, FC Cnmt Isol Valves isolate on level 2 or Hi DW Press.

D is incorrect, Containment press too hi to use VG on Cnmt.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
295019	2.4.21	4	4.6

System/Evolution:

Partial or complete loss of Instrument Air

Category Statement:

Knowledge of the parameters and logic used to assess the status of safety functions, such as reactivity control, core cooling and heat removal, reactor coolant system integrity, containment conditions, |
radioactivity release control, etc.

K/A Statement:

Cog Level:

High

TIER: GROUP:

1 1

10CFR:

CFR: 41.7 /
43.5 / 45.12

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 6

Question No: ILT-7119 STA_Question RO Question SRO Question

C

Reference Provided:
OU-CL-104 Rev 2

Reference:
OU-CL-104 Rev 2

Explanation:

Correct Answer
C is correct. Per CPS OU-CL-104, Section 4.4.4, RWCU cannot be ‘counted’ as an available alternate DHR method, when assessing Shutdown Risk Level, until a calculation is performed to show that RWCU is capable of handling the current decay heat load. Therefore, per CPS OU-CL-04, Attachment 2 (for MODE 4), the only CURRENTLY available decay heat removal method is ‘ECCS feed and bleed through the SRVs’. A review of the same Attachment (right-most column), shows that the CURRENT Shutdown Risk Level is, therefore, RED. The ‘Orange’ distracters are plausible to the examinee who neglects to consider the guidelines of Section 4.4.4; that examinee will likely ‘count’ RWCU as being CURRENTLY available, and conclude that the risk level is Orange. A review of CPS 4006.01, Loss of SDC, Table 2 (NOTE) shows that ECCS feed/bleed through the SRVs is NEVER a PREFERRED lineup for alternate decay heat removal. Given a choice between the only two viable methods (RWCU and ECCS-SRVs), the RWCU lineup is PREFERRED.

Distracters
a, b, and d are incorrect for reasons as stated above.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
295021	2.1.20	4.6	4.6

System/Evolution:

Loss of Shutdown Cooling

Category Statement:

Ability to interpret and execute procedure steps.

K/A Statement:

Cog Level:

High

TIER:	GROUP:
1	1

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 6

10CFR:

CFR: 41.10 /
43.5 / 45.12

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 7

Question No: ILT-7146 STA_Question RO Question SRO Question

C

Reference Provided:
None

Reference:
Tech Spec Bases

Explanation:

C is correct, as pool level rises the loads on the bottom of the floor above the pool during a LOCA increase and becomes a
reason for limiting pool level

A is incorrect, containment wall loading is not is not a concern but SRV tail pipe loading is.
B is incorrect, Pool level does not limit hydrogen mixer capacity.
D is incorrect, RCIC exhaust pressure will increase with pool level but is not limiting.

System No:	KA No:	RO:	SRO:
295029	2.2.25	3.2	4.2

System/Evolution:

Equipment Control

Category Statement:

Knowledge of the bases in Technical Specifications for limiting conditions for operations and safety limits.

K/A Statement:

Cog Level:

Memory

TIER: GROUP:

2 1

10CFR:

CFR: 41.5 /
41.7 / 43.2

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 8

Question No: ILT-7145 STA_Question RO Question SRO Question

A

Reference Provided:
None

Reference:
CPS 4007.02 Inadvertent Rod Movement Revision 12e

Explanation:

A. Correct. From CPS 4007.02 Inadvertent Rod Movement a symptoms of Annunciators 5005-3J IRM downscale and 5006-
4G Rod Drift are received with a negative period. With indication of only one rod drifting in ROD SELECT CLEAR must be
selected.

B. Incorrect. Power is dropping and therefore a Rod Drop has not happened.
C. Incorrect. Only one rod is drifting.
D. Incorrect. Power is dropping and therefore a Rod Drop has not happened.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
295014	AA2.02	3.9	3.9

System/Evolution:

Inadvertent Reactivity Addition

Category Statement:

Ability to determine and/or interpret the following as they apply to INADVERTENT REACTIVITY ADDITION :

K/A Statement:

Reactor period

Cog Level:

High

TIER:	GROUP:
1	2

10CFR:

41.10 / 43.5 /
45.13

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 9

Question No: ILT-7120 STA_Question RO Question SRO Question

C

Reference Provided:
EOP-6

Reference:
EOP-6 Primary Containment Control R 28

Explanation:

c. Correct – CPS 4402.01, EOP-6; in the POOL TEMPERATURE section, "Cannot hold pool temperature below the Heat
Capacity Limit, Fig P." If Reactor pressure was lower a blowdown would not be required

a. Incorrect – Level is still high enough that other methods should be attempted first.
b. Incorrect – Containment pressure is stable and spraying would remove more water from a suppression pool with lowering level.
d. Incorrect – Group 1 Isolation has occurred, this action will not depressurize the Reactor.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
295026	EA2.03	3.9	4

System/Evolution:

Suppression Pool High Water Temperature

Category Statement:

Ability to determine and/or interpret the following as they apply to SUPPRESSION POOL HIGH WATER TEMPERATURE:

K/A Statement:

Reactor pressure

Cog Level:

High

TIER:	GROUP:
1	1

10CFR:

CFR: 41.10 / 43.5 / 45.13

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 10

Question No: ILT-6385 STA_Question RO Question SRO Question

D

Reference Provided:
EOP-6

Reference:
EOP-6, Primary Containment Control R 28

Explanation:

D is correct answer, EOP-6 states to keep trying to lower temperature with VR/VQ.

A is incorrect, not at a point yet in EOP-6 & EOP-1 to Blowdown.
B is incorrect, would only Flood if water level was unknown, and Containment & Drywell temperatures are not that high yet.
C is incorrect, containment Sprays would not be used because RHR pumps are required for core cooling.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
295027	EA2.01	3.7	3.7

System/Evolution:

High Containment Temperature (Mark III Containment Only)

Category Statement:

Ability to determine and/or interpret the following as they apply to HIGH CONTAINMENT TEMPERATURE (MARK III CONTAINMENT ONLY):

K/A Statement:

Containment temperature: Mark-III

Cog Level:

High

TIER:	GROUP:
1	1

10CFR:

CFR: 41.10 /
43.5 / 45.13

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 11

Question No: ILT-6064 STA_Question RO Question SRO Question

B

Reference Provided:
None

Reference:
3703.01, Core Alterations R 26

Explanation:

B is correct, If not released move to the correct location per the move sheets and initiate an issue report

A is incorrect, do not release the bundle.
C is incorrect, complete the move per the move sheets.
D is incorrect, complete the move per the move sheets then contact the R.E.

Refer to CPS 3703.01, Section 6.24.1. This question proposes that exact scenario.

Requires knowledge of fuel handling procedures per 10CFR55.43.7

System No:	KA No:	RO:	SRO:
234000	2.1.32	3.8	4

System/Evolution:

Fuel Handling

Category Statement:

Ability to explain and apply system limits and precautions.

K/A Statement:

Cog Level:

Memory

TIER: 2

GROUP: 2

10CFR:

CFR: 41.10 / 43.2 / 45.12

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 12

Question No: ILT-3454 STA_Question RO Question SRO Question

a.

Reference Provided:
None

Reference:
3105.01, Turbine R 35a

Explanation:

A. Correct - section 2.4 “loss of Lube Oil” is defined as an emergency. 8.3.6 requires vacuum broken.

B. Incorrect - An emergency exists.
C. Incorrect - Vacuum should be broken.
d. Incorrect - An emergency exists, vacuum should be broken.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
245000	A2.02	3.3	3.5

System/Evolution:

Main Turbine Generator and Auxiliary Systems

Category Statement:

Ability to (a) predict the impacts of the following on the MAIN TURBINE GENERATOR AND AUXILIARY SYSTEMS ; and (b)
based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:

K/A Statement:

Loss of lube oil

Cog Level:

Memory

TIER: GROUP:

10CFR:

CFR: 41.5 / 45.6

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 13

Question No: ILT-7143 STA_Question RO Question SRO Question

B

Reference Provided:
None

Reference:
4009.01 Inadvertent Opening SRV R 11d

Explanation:

B is correct, one SRV passes approximately 6.5% of total steam flow. The heat removal capacity of both RHR loops in suppression pool cooling is equivalent to approximately 1% of total steam flow. Therefore Suppression Pool temperature will continue to rise. The Inadvertent Opening SRV procedure directs the performance of a Rapid Plant Shutdown per Unit Power Changes.

A is incorrect, The Inadvertent Opening SRV procedure directs the performance of a Rapid Plant Shutdown per Unit Power Changes

C is incorrect, one SRV passes approximately 6.5% of total steam flow. The heat removal capacity of both RHR loops in suppression pool cooling is equivalent to approximately 1% of total steam flow. Therefore Suppression Pool temperature will continue to rise.

D is incorrect, one SRV passes approximately 6.5% of total steam flow. The heat removal capacity of both RHR loops in suppression pool cooling is equivalent to approximately 1% of total steam flow. Therefore Suppression Pool temperature will continue to rise.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
239002	A2.03	4.1	4.2

System/Evolution:

Relief/Safety Valves

Category Statement:

Ability to (a) predict the impacts of the following on the RELIEF/SAFETY VALVES ; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:

K/A Statement:

Stuck open SRV

Cog Level:

High

TIER:	GROUP:
2	1

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 13

10CFR:

41.5 / 45.6

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 14

Question No: ILT-7122 STA_Question RO Question SRO Question

B

Reference Provided:
None

Reference:
3319.01, Standby Gas Treatment R 16

Explanation:

B is correct, the LOCA signals (Level 2/High DW Pressure) isolate VF and start both trains of VG. One train of VG must be
shutdown to preserve a train for later operation.

A is incorrect, VF shuts down
C is incorrect, Both trains of VG start
D is incorrect, Both trains of VG start, VF should not be restarted unless EOP-8 is entered

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
288000	A2.02	3.4	3.6

System/Evolution:

Plant Ventilation Systems

Category Statement:

Ability to (a) predict the impacts of the following on the PLANT VENTILATION SYSTEMS ; and (b) based on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:

K/A Statement:

Low reactor water level: Plant-Specific

Cog Level:

High

TIER: GROUP:

2 2

10CFR:

CFR: 41.5 / 45.6

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 15

Question No: ILT-7123 STA_Question RO Question SRO Question

C.

Reference Provided:
T/S 3.5.1

Reference:
Technical Specifications

Explanation:

C. Correct answer based on technical specifications. 3.5.1 A.1 and D.1. Knowledge of the technical specification bases is
required to determine LPCS operability.

A. Incorrect, LPCS is inop due to the loss of a support system (Room cooling).
B. Incorrect. 72 hours applies if two ECCS subsystems are inop.
D. Incorrect. 14 days applies to HPCS inop.

This is a Tech Spec determination which meets 10CFR 55.43.2

System No:	KA No:	RO:	SRO:
209001	2.2.37	3.6	4.6

System/Evolution:

Low Pressure Core Spray System

Category Statement:

Ability to determine operability and/or availability of safety related equipment.

K/A Statement:

Cog Level:

Memory

TIER:	GROUP:
2	1

10CFR:

41.7/43.5/45.12

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 16

Question No: ILT-4889 STA_Question RO Question SRO Question

A

Reference Provided:
None

Reference:
3309.01 HPCS R 16

Explanation:

A. A is correct, CPS 3309.01, step 4.3 requires pulling fuses with loss of fill and vent.

B. B is wrong, fill and vent is a required recovery action.
C. C is wrong, HPCS Supp pool valve only auto opens on High supp pool or low RCIC ST levels.
D. D is wrong, HPCS Supp pool valve only auto opens on High supp pool or low RCIC ST levels. Fill and vent is a required
recovery action.

This requires the assessment of conditions and selection of a procedure section as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
209002	A2.10	2.7	3

System/Evolution:

High Pressure Core Spray System (HPCS)

Category Statement:

Ability to (a) predict the impacts of the following on the HIGH PRESSURE CORE SPRAY SYSTEM (HPCS) ; and (b) based
on those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:

K/A Statement:

Valve openings: BWR-5,6

Cog Level:

High

TIER:	GROUP:
2	1

10CFR:

CFR: 41.5 / 45.6

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 17

Question No: ILT-7125 STA_Question RO Question SRO Question

C

Reference Provided:
None

Reference:
3703.01, Core Alterations R26

Explanation:

C is correct, as a minimum the Refuel Bridge Operator, Spotter and Refuel SRO must verify the in-core coordinates.

A is incorrect, as a minimum the Refuel Bridge Operator, Spotter and Refuel SRO must verify the in-core coordinates.
B is incorrect, as a minimum the Refuel Bridge Operator, Spotter and Refuel SRO must verify the in-core coordinates.
D is incorrect, the Reactor Engineer is not required.

Requires knowledge of fuel handling procedures per 10CFR55.43.7

System No:	KA No:	RO:	SRO:
Generic	2.1.36	3	4.1

System/Evolution:

Conduct of Operations

Category Statement:

Knowledge of procedures and limitations involved in core alterations.

K/A Statement:

Cog Level:

Memory

TIER: GROUP:

3

10CFR:

CFR: 41.10 /
43.6 / 45.7

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 18

Question No: ILT-6065 STA_Question RO Question SRO Question

D

Reference Provided:
None

Reference:
OP-CL-101-102-1001 R 2

Explanation:

D is correct, in Modes 4 and 5, only 2 SROs are required (for ERO functions of CRS and SM), and no STA is required.

A is incorrect, need another SRO to cover the IA.
B is incorrect, Safe Shutdown Qualified Operator cannot be a Brigade Member.
C is incorrect, FOUR Fire Brigade Members are needed.

Requires knowledge of conditions and limitations in the facility license per 10CFR55.43.1

System No:	KA No:	RO:	SRO:
Generic	2.1.5	2.9	3.9

System/Evolution:

Conduct of Operations

Category Statement:

Ability to use procedures related to shift staffing, such as minimum crew complement, overtime limitations, etc.

K/A Statement:

Cog Level:

Memory

TIER: GROUP:

3

10CFR:

CFR: 41.10 /
43.5 / 45.12

ANSWER KEY

ILT 08-01 SRO

Exam Question Number 19

Question No: ILT-7133 STA_Question RO Question SRO Question

D.

Reference Provided:
None

Reference:
EP-AA-111 Emergency classification and protective

Explanation:

D. Correct answer. 15 minutes after the event is declared a report must be made to the NRC and an Upgrade in the condition starts a new 15 minute clock event though that there is a 30 minute follow up reports are due on the less severe
declaration.

A. Incorrect. 15 minutes for initial report.
B. Incorrect. 15 minutes for the SAE declaration.
C. Incorrect. 15 minutes for the SAE declaration.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
Generic	2.4.29	3.1	4.4

System/Evolution:

Emergency Procedures / Plan

Category Statement:

Knowledge of the emergency plan.

K/A Statement:

Cog Level:

High

TIER: GROUP:

3

10CFR:

CFR: 41.10 /
43.5 / 45.11

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 20

Question No: ILT-7128 STA_Question RO Question SRO Question

B

Reference Provided:
None

Reference:
MA-AA-716-004, Conduct of Troubleshooting R 7

Explanation:

B is correct, the investigation is troubleshooting which is controlled by the Conduct of Troubleshooting procedure.

A is incorrect, ER-AA-10, Equipment Reliability defines the responsibilities for troubleshooting but does not control troubleshooting.
C is incorrect, 3105.01, Turbine (TG EHC TS) give the instructions for operating EHC but not troubleshooting it.
D is incorrect, 1070.01, Coordination Plans do not control work in the field.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
Generic	2.2.20	2.6	3.8

System/Evolution:

Equipment Control

Category Statement:

Knowledge of the process for managing troubleshooting activities.

K/A Statement:

Cog Level:

Memory

TIER: GROUP:

3

10CFR:

CFR: 41.10 /
43.5 / 45.13

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 21

Question No: ILT-7129 STA_Question RO Question SRO Question

D.

Reference Provided:
None

Reference:
EP-AA-113 F-02 R B

Explanation:

D. Correct. An Emergency Director is required to authorize emergency exposures and brief if greater than 25 REM. The stem indicates that 33.3 REM is expected for the rescue.

A. Incorrect. RP Technician assess the situation but NOT authorize emergency exposure or brief.
B. Incorrect. An Emergency Director is required to authorize emergency exposures and brief if greater than 25 REM.
C. Incorrect. The individuals must be fully aware of the risks involved "before the fact".

Requires assessment of radiation hazards per 10CFR55.43.4

System No:	KA No:	RO:	SRO:
Generic	2.3.04	3.2	3.7

System/Evolution:

Radiation Control

Category Statement:

Knowledge of radiation exposure limits under normal or emergency conditions.

K/A Statement:

Cog Level:

Memory

TIER: GROUP:

3

10CFR:

41.12 / 43.4 /
45.10

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 22

Question No: ILT-7144 STA_Question RO Question SRO Question

C

Reference Provided:
None

Reference:
Technical Specification

Explanation:

C is correct with any head closure bolt not fully tensioned the plant is in MODE 5 as soon as all head closure bolts are fully
tensioned with temperature >200 the plant will be in MODE 3

A is incorrect, due to a temperature of > 200 degrees F, a candidate may believe that we are in MODE 3, Hot Shutdown and may believe this is not affected by tensioning the head closure bolts.
B is incorrect, with the head closure bolts not fully tensioned, a candidate may expect that the condition would be considered MODE 4 (cold shutdown) and that it would change to MODE 3 (hot shutdown) when the bolts are tensioned to
hold pressure.
D is incorrect, the candidate may recognize that the Unit is MODE 5, and believe that it will move to MODE 4 (cold shutdown) when the bolts are tensioned.

This is a Tech Spec determination which meets 10CFR 55.43.2

System No:	KA No:	RO:	SRO:
Generic	2.2.35	3.6	4.5

System/Evolution:

Equipment Control

Category Statement:

Ability to determine Technical Specification Mode of Operation.

K/A Statement:

Cog Level:

High

TIER: GROUP:

3

10CFR:

41.7 / 41.10 /
43.2 / 45.13

ANSWER KEY

ILT 08-01 SRO

Exam Question Number 23

Question No: ILT-7131 STA_Question RO Question SRO Question

B

Reference Provided:
EOP-1

Reference:
CPS 4401.01, EOP-1 RPV CONTROL R 28

Explanation:

B is correct - Per EOP-1, RPV Control, Level leg requires the exiting of the EOPs and entering the SAGs if level can not be
raised above –187 inches and hold it there.

A is incorrect, only allowed in EOP-1A before actuation, never allowed after actuation.
C is incorrect, not required unless RPV level cannot be determined.
D is incorrect, all EOPs are required to be exited.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
Generic	2.4.16	3.5	4.4

System/Evolution:

Emergency Procedures / Plan

Category Statement:

Knowledge of EOP implementation hierarchy and coordination with other support procedures or guidelines such as, operating procedures, abnormal operating procedures, and severe accident management guidelines.

K/A Statement:

Cog Level:

High

TIER: GROUP:

3

10CFR:

CFR: 41.10 /
43.5 / 45.13

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 24

Question No: ILT-3353 STA_Question RO Question SRO Question

A.

Reference Provided:
EOP's

Reference:
EOP-1 Preferred injection systems

Explanation:

A. Correct, RHR will trip on loss of a suction path, the operator should understand RPV level will lower and that EOP-1 RPV
Control provides injection systems available to maintain level.

B Incorrect, RHR trips.
C Incorrect, EOP-3 BLOWDOWN is inappropriate until TAF.
D Incorrect, RHR trips, Level instruments are operable, EOP-2 RPV FLOOD unnecessary.

Note LPCS and HPCS due not trip on a loss of a suction path but RHR does.

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
203000	A2.16	4.4	4.5

System/Evolution:

RHR/LPCI: Injection Mode

Category Statement:

Ability to (a) predict the impacts of the following on the RHR/LPCI: INJECTION MODE (PLANT SPECIFIC) ; and (b) based on
those predictions, use procedures to correct, control, or mitigate the consequences of those abnormal conditions or operations:

K/A Statement:

Loss of coolant accident

Cog Level:

High

TIER:	GROUP:
2	1

10CFR:

41.5 / 45.6

ANSWER KEY

ILT 08-01 SRO

ILT 08-01 SRO

Exam Question Number 25

Question No: ILT-7132 STA_Question RO Question SRO Question

C

Reference Provided:
EOP-3

Reference:
EOP-3, Emergency RPV Depressurization, R 28

Explanation:

C is correct, Feedwater must be terminated and prevented prior to the blowdown during an ATWS

A is incorrect, ADS can be manually initiated while inhibited
B is incorrect, the upper pools need to be dumped but not prior to the blowdown
D is incorrect, RCIC and SLC can be left running

This requires the assessment of conditions and selection of a procedure as per 10CFR55.43.5

System No:	KA No:	RO:	SRO:
218000	2.4.6	3.7	4.7

System/Evolution:

Automatic Depressurization System

Category Statement:

Knowledge of EOP mitigation strategies.

K/A Statement:

Cog Level:

High

TIER: 2

GROUP: 1

10CFR:

CFR: 41.10 / 43.5 / 45.13