

Oconee Nuclear Station

ILT48 ONS SRO NRC Examination

Question: 76
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Reactor trip due to loss of Main Feedwater

Current conditions:

- ALL sources of feedwater are lost
- SM declares an ALERT due to initiation of HPI Forced Cooling

In accordance with RP/0/A/1000/002 (Control Room Emergency Coordinator Procedure), the SM is permitted to appoint a qualified individual to _____.

Which ONE of the following completes the statement above?

- A. perform Enclosure 4.3 (Emergency Coordinator Parallel Actions)
 - B. perform Enclosure 4.5 (Emergency Classification Termination Criteria)
 - C. approve a follow-up notification form if conditions have not changed on Unit 3
 - D. approve an off-site notification form for a NOUE on another unit.
-

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Question: 77
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Reactor in MODE 5
- ALL LTOP requirements established in accordance with Tech Spec 3.4.12 (Low Temperature Overpressure Protection (LTOP) System)

Current conditions:

- 3RC-66 (PORV) fails open
- 1) In accordance with OMP 1-18 (Implementation Standard During Abnormal and Emergency Events), closing 3RC-4 __ (1) __ require CRS concurrence, if the CRS is available.
 - 2) In accordance with Tech Spec 3.4.12, a dedicated LTOP operator __ (2) __ allowed as a substitute for an inoperable PORV to prevent exceeding RCS brittle fracture pressure limits.

Which ONE of the following completes the statements above?

- A. 1. does
 2. is
 - B. 1. does
 2. is NOT
 - C. 1. does NOT
 2. is
 - D. 1. does NOT
 2. is NOT
-

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Question: 78
(1 point)

Given the following Unit 1 conditions:

Time = 1000:

- 1A S/G developed a SGTR
- EOP SGTR Tab in progress
- 1A S/G level = 240 inches XSUR slowly decreasing
- SCM = 10°F stable

Time = 1040:

- MSLB on 1B SG outside containment and can NOT be steamed
- EOP EHT Tab complete
- 1A S/G has reached the level where water can enter the main steam lines
- Rule 4 has been initiated and the PORV has been opened
- Core SCM = 0°F

- 1) At Time = 1000, the SGTR tab ____(1)___ require that the 1A Steam Generator be isolated.
- 2) At Time = 1040, the SGTR tab will direct initiation of the ____(2)___ tab.

Which ONE of the following completes the statements above?

- A.
 1. does
 2. HPI CD
 - B.
 1. does
 2. LOCA CD
 - C.
 1. does NOT
 2. HPI CD
 - D.
 1. does NOT
 2. LOCA CD
-

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Question: 79
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 50% stable
- 1KI and 1KU panelboards are de-energized

Which ONE of the following contains the procedure steps that will be used to maintain Steam Generator pressure and RCS temperature?

- A. AP/23 (Loss of ICS Power)
 - B. AP/25 (Standby Shutdown Facility)
 - C. EOP Enclosure 5.24 (Operation of the ADVs)
 - D. EOP Enclosure 5.42 (Alignment of EFM Pump to Feed SGs)
-

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Question: 80

(1 point)

Given the following Unit 1 conditions:

Time = 1200:

- Reactor trip from 100%
- AP/22 (Loss of Instrument Air) in progress
- Instrument Air (IA) and Auxiliary Instrument Air (AIA) pressure lost to the 1A Turbine Bypass Valves
- 1A SG pressure 935 psig stable
- Maintaining 1A SG pressure with Atmospheric Dump Valves (ADV) in accordance with EOP Subsequent Actions

Time = 1210:

- 1A SG Tube Leak = 15 gpm stable

Time = 1230:

- 1A SG Tube Rupture = 180 gpm stable
- EOP SGTR in progress

1) At time = 1210, the HIGHEST emergency classification (if any) is __ (1) __.

2) At time = 1230, the HIGHEST emergency classification is __ (2) __.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

DO NOT USE EMERGENCY COORDINATOR JUDGEMENT

- A. 1. NONE
 2. ALERT
 - B. 1. NONE
 2. SITE AREA EMERGENCY
 - C. 1. UNUSUAL EVENT
 2. ALERT
 - D. 1. UNUSUAL EVENT
 2. SITE AREA EMERGENCY
-

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Question: 81
(1 point)

Given the following Unit 1 conditions:

Time = 1200

- Reactor power = 100% stable
- AFIS bypassed for maintenance
- SA-16/C-1 (230 KV Swyd Isolate ES Permit) actuated
- 230 KV Yellow Bus voltage = 224.2 KV increasing

Time = 1201

- AP/34 (Degraded Grid) in progress
- Main Turbine trips due to low grid frequency
- 230 KV Yellow Bus voltage = 226.8 KV increasing
- RCS pressure = 1245 psig rapidly decreasing
- RB pressure = 11.4 psig rapidly increasing
- Tave = 545°F slowly decreasing

Engineered Safeguards systems...

- 1) will be energized from __ (1) __.
- 2) __ (2) __ sufficient to maintain Reactor Building pressure within design limits.

Which ONE of the following completes the statements above?

- A. 1. CT-1
 2. are
 - B. 1. CT-1
 2. are NOT
 - C. 1. CT-4
 2. are
 - D. 1. CT-4
 2. are NOT
-

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Question: 82
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Reactor power = 100%
- Control Rod 3 in Group 7 indicates 0% withdrawn
- AP/01 (Unit Runback) initiated

Current conditions:

- Reactor power = 70% decreasing

- 1) The AMBER lights on the PI panel will illuminate when a control rod reaches a MINIMUM of __ (1) __ inches from its group average.
- 2) In accordance with TS 3.1.4 (Control Rod Group Alignment Limits), the basis for the limit on Reactor power for the given conditions is to maintain __ (2) __ within design limits.

Which ONE of the following completes the statements above?

- A.
 1. > 7
 2. Linear Heat Rate
 - B.
 1. > 7
 2. Shutdown Margin
 - C.
 1. > 9
 2. Linear Heat Rate
 - D.
 1. > 9
 2. Shutdown Margin
-

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Question: 83
(1 point)

Given the following Unit 1 conditions:

Time = 1200

- Reactor power = 75% stable
- Group 7 rod position = 72% withdrawn stable
- Makeup to LDST initiated

Time = 1230

- Reactor power = 75% stable
- Group 7 rod position = 55% slowly inserting
- CRS determines Tech Spec 3.2.1 (Regulating Rod Position Limits) requirements are NOT met

- 1) Makeup to the LDST has resulted in an RCS __ (1) __ event.
- 2) At Time = 1230, Tech Spec 3.1.1 (Shutdown Margin) requires that the RCS makeup source be either the __ (2) __ or the Concentrated Boric Acid Storage Tank.

Which ONE of the following completes the statements above?

- A.
 1. boration
 2. BWST
 - B.
 1. boration
 2. "A" BHUT
 - C.
 1. dilution
 2. BWST
 - D.
 1. dilution
 2. "A" BHUT
-

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Question: 84
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- ACB-3 closed

Current conditions:

- 2SA-17/A-1 (GEN #1 EMERG. LOCKOUT) actuated
- 1TC, 1TD, and 1TE 4160V switchgear are Locked Out
- Blackout tab in progress
- EOP Enclosure 5.38 (Restoration of Power) has been initiated

- 1) Enclosure 5.38 will ensure that Main Feeder Buses are energized from __ (1) __.
- 2) In accordance with the Blackout tab, once the Main Feeder Buses are energized, the CRS will be directed to __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. CT-5
 2. continue in the Blackout Tab
 - B.
 1. CT-5
 2. transfer back to Subsequent Actions Tab
 - C.
 1. KHU-2
 2. continue in the Blackout Tab
 - D.
 1. KHU-2
 2. transfer back to Subsequent Actions Tab
-

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Question: 85
(1 point)

Given the following Unit 1 conditions:

Time = 1200:

- Notified by Unit 2 that 2SA-18/A-11 (TURBINE BSMT WATER EMERGENCY HIGH LEVEL) in alarm
- Reactor tripped from 100%
- EOP Turbine Building Flood (TBF) tab initiated

Time = 1300:

- Core SCM = 0°F due to heatup

In accordance with the EOP TBF tab...

- 1) At Time = 1200, initiate feeding SGs with Main and Emergency Feedwater while maintaining a MINIMUM Tave of __(1)___°F.
- 2) At Time = 1300, the CRS is required to implement __(2)___.

Which ONE of the following completes the statements above?

- A.
 1. 550
 2. the LOSCM Tab
 - B.
 1. 532
 2. the LOSCM Tab
 - C.
 1. 550
 2. Rule 4 (Initiation of HPI Forced Cooling)
 - D.
 1. 532
 2. Rule 4 (Initiation of HPI Forced Cooling)
-

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ILT48 ONS SRO NRC Examination

Question: 86

(1 point)

Given the following Unit 1 conditions:

Time = 1215

- Unit shutdown in progress
- 1A1 RCP in operation
- Tcold = 220°F slowly decreasing
- RCS pressure = 325 psig slowly decreasing
- LPI Cooler outlet temperature = 110°F stable

Time = 1230

- Tcold = 200°F slowly decreasing
- RCS pressure = 275 psig stable
- LPI Cooler outlet temperature = 110°F stable
- 1A LPI Pump is started

Time = 1240

- Tcold = 197°F stable
- 1A1 RCP secured

Time = 1245

- LPI Cooler outlet temperature = 180°F stable

- 1) The RCS cooldown rate __ (1) __ violate the maximum cooldown rate allowed per Tech Specs.
- 2) When the 1A LPI pump is started at Time = 1230, the temperature transient that results from the difference in LPI Cooler Outlet temperature and Tcold __ (2) __ outside the bounds of the Reactor Vessel stress analysis.

Which ONE of the following completes the statements above?

- A.
 1. does
 2. is
 - B.
 1. does
 2. is NOT
 - C.
 1. does NOT
 2. is
 - D.
 1. does NOT
 2. is NOT
-

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Question: 87

(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- I&E performing Reactor Protective System (RPS) calibration procedure

Current conditions:

- The RCS High Pressure trip setpoint is determined to be 2351 psig in 1A and 1B RPS Channels

- 1) The required actual RPS trip setpoint for RCS High Pressure is __ (1) __ psig.
- 2) In accordance with the bases of Tech Spec 3.3.1 (Reactor Protective System (RPS) Instrumentation), the 1A and 1B RCS High Pressure Trip Functions are __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. 2345
 2. operable
 - B.
 1. 2345
 2. inoperable
 - C.
 1. 2355
 2. operable
 - D.
 1. 2355
 2. inoperable
-

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Question: 88
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- RCS pressure = 2155 psig stable
- RB pressure = 0.1 psig stable
- ES Channel 2 actuation

- 1) AP/42 Enclosure 5.3 (SSF Restoration) __ (1) __ required to be performed.
- 2) In accordance with AD-LS-ALL-0006 (Notification/Reportability Evaluation), a 4 hour ENS notification __ (2) __ required.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

- A.
 1. is
 2. is
 - B.
 1. is NOT
 2. is
 - C.
 1. is
 2. is NOT
 - D.
 1. is NOT
 2. is NOT
-

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Question: 89
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 20%
- Reactor is being shutdown to repair 1A2 RCP (tripped due to high vibration)

Time = 0801:

- 1TA loses power
- Reactor trip occurs
- 1RIA-16 in HIGH alarm
- SGTR tab entered

Time = 0830:

- Power is restored to 1TA

Time = 0845:

- 1A1 RCP restarted per Encl. 5.6 (RCP Restart)
- SCM = 0°F

Time = 0847:

- SCM = 0°F

1) Per the SGTR tab, initial RCS cooldown is performed by reducing SG pressure in ___(1)___ SG(s) to 835 to 845 psig.

2) The EARLIEST time that a transfer to the LOSCM tab is required is ___(2)___.

Which ONE of the following completes the statements above?

- A. 1. one
 2. 0845
 - B. 1. one
 2. 0847
 - C. 1. both
 2. 0845
 - D. 1. both
 2. 0847
-

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Question: 90
(1 point)

- 1) Actuating Unit 1 & 2 Keowee Emergency Start Channel B switch in the Unit 2 Control Room will start __ (1) __ KHU(s).
- 2) The switch in part 1 above __ (2) __ be used to satisfy the Unit 2 Manual Keowee Emergency Start requirements of Tech Spec 3.3.22 (EPSL Manual Keowee Emergency Start Function).

Which ONE of the following completes the statements above?

- A. 1. ONLY one
 2. can
 - B. 1. BOTH
 2. can
 - C. 1. ONLY one
 2. can NOT
 - D. 1. BOTH
 2. can NOT
-

Oconee Nuclear Station

ILT48 ONS SRO NRC Examination

Question: 91
(1 point)

Given the following Unit 3 plant conditions:

- Reactor in MODE 1

In accordance with Tech Specs, to prevent exceeding the RCS Pressure Safety Limit...

- 1) Credit __ (1) __ taken for operation of the PORV.
- 2) Credit is taken for operation of __ (2) __ of the Pressurizer Safety Valves.

Which ONE of the following completes the statements above?

- A.
 1. is
 2. ONLY one
 - B.
 1. is
 2. both
 - C.
 1. is NOT
 2. ONLY one
 - D.
 1. is NOT
 2. both
-

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Question: 92
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- Electrical malfunction results in loss of ALL Control Rod position indications

- 1) In accordance with Tech Spec 3.1.7 (Position Indicator Channels), the MAXIMUM time allowed to declare all Control Rods inoperable is __ (1) __.
- 2) Assuming indications are NOT restored, Tech Spec 3.1.4 (Control Rod Group alignment limits), __ (2) __ require reducing Reactor Power to a MAXIMUM of 60% RTP within 2 hours of declaring all Control Rods inoperable.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

- A.
 1. immediately
 2. does
 - B.
 1. immediately
 2. does NOT
 - C.
 1. one hour
 2. does
 - D.
 1. one hour
 2. does NOT
-

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Question: 93

(1 point)

Given the following Unit 1 conditions:

Time = 1000:

- Mode 6
- LPI aligned in Normal Decay Heat Removal mode
- 1A and 1B SGs in wet layup
- Fuel Transfer Canal flooded
- 1B LPI pump OOS

Time = 1030:

- ALL available LPI pumps tripped and can NOT be restarted

- 1) At Time = 1000, OP/1/A/1104/004 (Low Pressure Injection System) directs operation of the __ (1) __ LPI pump.
- 2) At Time = 1030, AP/26 (Loss of Decay Heat Removal) directs initiation of Enclosure __ (2) __ for heat removal.

Which ONE of the following completes the statements above?

- A.
 1. 1A
 2. 5.18 (SSF Operation for Loss of DHR Events)
 - B.
 1. 1A
 2. 5.7 (DHR Using SF Cooling)
 - C.
 1. 1C
 2. 5.18 (SSF Operation for Loss of DHR Events)
 - D.
 1. 1C
 2. 5.7 (DHR Using SF Cooling)
-

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ILT48 ONS SRO NRC Examination

Question: 94
(1 point)

Given the following Unit 1 conditions:

- 1A SG isolated due to a steam line break
- 1B SG has a tube rupture

- 1) Without additional station management approval, the section of the EOP that would be used to cooldown to LPI would be the section using the __ (1) __ SG.
- 2) Once RCS temperature and pressure allow alignment of LPI, the __ (2) __ mode will be the INITIAL LPI alignment utilized.

Which ONE of the following completes the statements above?

- A.
 1. 1A
 2. normal DHR
 - B.
 1. 1A
 2. High Pressure
 - C.
 1. 1B
 2. normal DHR
 - D.
 1. 1B
 2. High Pressure
-

Oconee Nuclear Station

ILT48 ONS SRO NRC Examination

Question: 95
(1 point)

In accordance with the bases of SLC 16.13.1 (Minimum Station Staffing Requirements)...

- 1) the NRC Communicator __ (1) __ required to be a licensed or previously licensed SRO.
- 2) the NRC Communicator __ (2) __ also be the Off-site Communicator.

Which ONE of the following completes the statements above?

- A.
 1. is
 2. can
 - B.
 1. is
 2. can NOT
 - C.
 1. is NOT
 2. can
 - D.
 1. is NOT
 2. can NOT
-

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ILT48 ONS SRO NRC Examination

Question: 96
(1 point)

In accordance with OP/0/A/1108/001 (Curves and General Information) Encl. 4.17 (Evaluation for Removal of Statalarms/Control Room Indications), which ONE of the following is the MINIMUM level of approval required to remove a Statalarm from service located on 1VB1?

- A. AO Supervisor
 - B. Control Room Supervisor
 - C. Work Control Center SRO
 - D. Shift Manager
-

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ILT48 ONS SRO NRC Examination

Question: 97

(1 point)

Given the following Unit 3 conditions:

- Fuel offload in progress
- A fuel cask has been dropped in the spent fuel pool causing fuel damage
- 3RIA-6 (Spent Fuel Pool Area Monitor) reaches the High Alarm setpoint

1) 3RIA-6 ____(1)___ sound a local alarm.

2) The HIGHEST classification for this event is an ____(2)___.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

DO NOT USE EMERGENCY COORDINATOR JUDGEMENT

- A. 1. does
 2. Unusual Event

 - B. 1. does
 2. Alert

 - C. 1. does NOT
 2. Unusual Event

 - D. 1. does NOT
 2. Alert
-

Oconee Nuclear Station

ILT48 ONS SRO NRC Examination

Question: 98
(1 point)

Given the following plant conditions:

Time = 0400

- Reactor power = 100%
- 1A GWD tank release in progress at 1/3 Station Limit

Time = 0415

- 3B GWD tank release initiated at 1/3 Station Limit

Time = 0430

- Loss of power to RM-80 skid of 1RIA-37 (Waste Gas Effluent Monitor)
- 1SA-8/B-9 (Process Monitor Radiation High) actuated
- 1SA-8/B-10 (Process Monitor Fault) actuated

1) At Time = 0415, the HIGHEST level of approval required by OP/3/A/1104/018 (GWD System) for the 3B GWD tank release is the __ (1) __.

2) At Time = 0430, GWD-4 __ (2) __ AUTOMATICALLY closed.

Which ONE of the following completes the statements above?

- A. 1. Unit 3 CRS
 2. has NOT
 - B. 1. Unit 3 CRS
 2. has
 - C. 1. SM
 2. has NOT
 - D. 1. SM
 2. has
-

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Question: 99
(1 point)

Given the following Unit 1 conditions:

Time = 0000

- Reactor power = 75%
- All three seals on the 1B1 RCP fail

Time = 0015

- SCM = 0°F stable

Time = 0019

- 1A1 RCP remains operating
- LOSCM tab in progress
- Rapid depressurization of BOTH steam generators is in progress

- 1) The reason the 1A1 RCP is NOT secured at Time = 0019 is to __ (1) __.
- 2) The MINIMUM condition(s) that will allow the section of the LOSCM tab to be performed that reinstates the requirement to adhere to Tech Spec cooldown rate limits is once __ (2) __ is/are greater than 0 degrees F.

Which ONE of the following completes the statements above?

- A.
 1. prevent core uncover that could result from phase separation if the RCP were secured
 2. ALL subcooling margins
 - B.
 1. provide forced circulation which enhances heat removal even with a two phase mixture
 2. ALL subcooling margins
 - C.
 1. prevent core uncover that could result from phase separation if the RCP were secured
 2. ANY subcooling margin
 - D.
 1. provide forced circulation which enhances heat removal even with a two phase mixture
 2. ANY subcooling margin
-

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Question: 100

(1 point)

- 1) In accordance with RP/0/A/1000/002 (Control Room Emergency Coordinator Procedure) implementation of the OSAG __ (1) __ require the use of 10CFR50.54(x) and (y) provisions.
- 2) If implemented, 10CFR50.54(x) will require the MINIMUM level of approval to be __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. does
 2. a licensed SRO
 - B.
 1. does
 2. the Emergency Coordinator
 - C.
 1. does NOT
 2. a licensed SRO
 - D.
 1. does NOT
 2. the Emergency Coordinator
-

Examination KEY for: ILT48 ONS SRO NRC Examin

<i>Question Number</i>	<i>Answer</i>
76	A
77	B
78	A
79	C
80	D
81	C
82	A
83	C
84	C
85	D
86	B
87	A
88	D
89	D
90	D
91	D
92	A
93	B
94	D
95	A
96	B
97	B
98	D
99	A
100	A

OCONEE 2015-302 SRO Written Exam References

1. Question 80 and Question 97: RP/0/A/1000/001, "Emergency Classification," rev 4 (entire procedure)
2. Question 88: AD-LS-ALL-0006, "Notification/Reportability Evaluation," rev 0 (entire procedure)
3. Question 92: Technical Specifications LCO 3.1.4, "CONTROL ROD Group alignment Limits," p. 3.1.4-1 to 3.1.4-4