

U. S. Nuclear Regulatory Commission Site-Specific SRO Written Examination	
Applicant Information	
Name:	
Date:	Facility / Unit
Region: I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV <input type="checkbox"/>	Reactor Type: W <input type="checkbox"/> CE <input type="checkbox"/> BW <input type="checkbox"/> GE <input type="checkbox"/>
Start Time:	Finish Time:
Instructions	
<p>Use the answer sheets provided to document your answers. Staple this cover sheet on top of the answer sheets. To pass the examination you must achieve a final grade of at least 80 percent overall, with 70 percent or better on the SRO-only items if given in conjunction with the RO exam; SRO-only exams given alone require a final grade of 80 percent to pass. You have 8 hours to complete the combined examination, and 3 hours if you are only taking the SRO portion.</p>	
Applicant Certification	
<p>All work done on this examination is my own. I have neither given nor received aid.</p> <div style="display: flex; justify-content: space-between; align-items: flex-end;"> <div style="width: 20%; border-top: 1px solid black; margin-top: 20px;"></div> <div style="width: 60%; border-top: 1px solid black; margin-top: 20px; text-align: right;"> <p>Applicant's Signature</p> </div> </div>	
Results	
RO/SRO-Only/Total Examination Values Points	_____ / _____ / _____
Applicant's Score Points	_____ / _____ / _____
Applicant's Grade Percent	_____ / _____ / _____

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 1
(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Reactor power = 100%
- 2TA and 2TB lockout

Current conditions:

- Reactor power = 2% decreasing
- Three Group 2 control rods = 100% withdrawn
- The remaining control rods are fully inserted
- The Diverse Scram System (DSS) did NOT actuate

The EOP directs the operator to __ (1) __ AND the reason for this action is to __ (2) __.

Which ONE of the following completes the statement above?

- A.
 1. open 600V CRD breakers
 2. ensure reactor power is within the heat removal capacity of natural circulation
 - B.
 1. open 600V CRD breakers
 2. achieve a shutdown margin of at least 1% $\Delta K/K$
 - C.
 1. Open 2HP-24 and 2HP-25
 2. ensure adequate RCS inventory during the subsequent RCS cooldown
 - D.
 1. Open 2HP-24 and 2HP-25
 2. achieve a shutdown margin of at least 1% $\Delta K/K$
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 2
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- Reactor power = 95% decreasing
- 1RC-1, (Pzr Spray) indicates open
- 1RC-66, (PORV) indicates open
- Pzr level = 255 inches increasing
- RCS Wide Range pressure = 2190 psig decreasing
- 1SA-18/A-1, (Pressurizer Relief Valve Flow) is locked in
- 6 LED lights are illuminated for 1RC-66 on the Pressurizer Relief Valve Flow Monitor

- 1) In accordance with the Immediate Manual Actions of AP/1/A/1700/044, (Abnormal Pressurizer Pressure Control) __ (1) __ is required to be closed at this time.
- 2) This transient could have been caused by the failure of a median selected controlling narrow range RCS pressure signal being supplied from RPS Channel __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. ONLY 1RC-4
2. E
 - B. 1. ONLY 1RC-4
2. C
 - C. 1. 1RC-1, 1RC-3 and 1RC-4
2. E
 - D. 1. 1RC-1, 1RC-3 and 1RC-4
2. C
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 3
(1 point)

Given the following Unit 3 conditions:

- Reactor trips
- Small Break LOCA has occurred
- Rule 2, (Loss of SCM) in progress
- 3A & 3B Steam Generator levels = 78 inches XSUR increasing
- Cooldown rate = 65°F per ½ hour

In accordance with Rule 2...

- 1) SG levels are being increased to __(1)__.
- 2) EFDW flow __(2)__.

Which ONE of the following completes the statements above?

- A.
 1. ensure secondary inventory available for heat transfer if SG feed is lost
 2. should be stopped until cooldown rate is in compliance with Tech Spec limits
 - B.
 1. ensure secondary inventory available for heat transfer if SG feed is lost
 2. will be throttled in an effort to comply with Tech Spec limits but SG levels must continue to increase
 - C.
 1. ensure boiler-condenser heat transfer is established
 2. should be stopped until cooldown rate is in compliance with Tech Spec limits
 - D.
 1. ensure boiler-condenser heat transfer is established
 2. will be throttled in an effort to comply with Tech Spec limits but SG levels must continue to increase
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 4
(1 point)

Given the following Unit 2 conditions:

0800:

- Reactor power = 100%

0802:

- RCS pressure = 1500 psig decreasing
- RB pressure = 2.5 psig increasing

0805:

- RCS pressure = 600 psig decreasing
- RB pressure = 3.5 psig increasing

1) (1) is the earliest time stated that the LPI pumps will have received a start signal from the ES system.

2) When the start signal is received, (2) LPI pumps will start.

Which ONE of the following completes the statements above?

- A. 1. 0802
2. ONLY two
 - B. 1. 0802
2. Three
 - C. 1. 0805
2. ONLY two
 - D. 1. 0805
2. Three
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 5
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- 1HP-120 air line becomes detached from the actuator

1) Pzr level will (1) .

2) In accordance with AP/1/A/1700/014, (Loss of Letdown and/or Makeup) (2) will initially be used to control Pzr level.

Which ONE of the following completes the statements above?

- A. 1. increase
2. 1HP-26
 - B. 1. increase
2. 1HP-122
 - C. 1. decrease
2. 1HP-26
 - D. 1. decrease
2. 1HP-122
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 6
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- 1C LPI pump is in service providing normal decay heat removal

Current conditions:

- Loss of offsite power occurs
- Power is restored via CT-4
- 1A and 1B LPI pumps NOT available

Manual reset of Load Shed is __ (1) __ and starting of 1C LPI pump is allowed after a MINIMUM of __ (2) __ seconds.

Which ONE of the following completes the statement above describing the requirements to start the 1C LPI pump to restore decay heat removal?

- A. 1. NOT required
2. 5
 - B. 1. required
2. 5
 - C. 1. NOT required
2. 10
 - D. 1. required
2. 10
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 7
(1 point)

Given the following Unit 3 conditions:

- Reactor trip has just occurred
- Total RCP seal injection flow = 0 gpm
- Running Component Cooling pump tripped
- Standby Component Cooling pump did NOT start

Which ONE of the following describes the procedure that will be directed FIRST by the CRS and why?

Initiate...

- A. AP/20, (Loss of CC) to restore Component Cooling
 - B. AP/20, (Loss of CC) to ensure letdown is isolated
 - C. AP/25, (SSF EOP) to align an alternate letdown flowpath
 - D. AP/25, (SSF EOP) to align an alternate source of seal injection
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 8
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Time = 0600
- Rule 1, (ATWS / Unanticipated Nuclear Power Production) has been initiated

Current conditions:

- Time = 0603
- RCS pressure is 2455 psig increasing

- 1) In accordance with Rule 1, an operator will be dispatched to open the Unit 3 CRD 600V normal power supply breaker at 3X9 and alternate 600V power supply breaker at (1).
- 2) Based on the current conditions, DSS (2) de-energize Control Rod Groups 1-7.

Which ONE of the following completes the statements above?

- A.
 1. 1X1
 2. will
 - B.
 1. 2X2
 2. will
 - C.
 1. 1X1
 2. will NOT
 - D.
 1. 2X2
 2. will NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 9
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%
- SGTR occurs
- Reactor is tripped
- SGTR tab is entered

Time = 0815:

- RCS temperature = 550°F
- Crew is ready to perform the initial RCS cooldown

- 1) RCS cooldown will be initiated by establishing a SG pressure of __(1)__ psig.
- 2) While performing this cooldown, the cooldown rate is limited __(2)__ .

Which ONE of the following completes the statements above?

- A.
 1. 710 – 720
 2. to 50°F per ½ hr
 - B.
 1. 710 – 720
 2. only by the ability to maintain Pzr level > 100 inches [180" acc]
 - C.
 1. 835 – 845
 2. to 50°F per ½ hr
 - D.
 1. 835 – 845
 2. only by the ability to maintain Pzr level > 100 inches [180" acc]
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 10
(1 point)

Given the following Unit 2 conditions:

- Reactor trip occurs from 100% power
- SLOW transfer of auxiliaries occurs

1) __ (1) __ Feedwater pumps will be supplying the SGs.

2) SG level control setpoint will be __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. Main
2. 25 inches SUR
 - B. 1. Emergency
2. 30 inches XSUR
 - C. 1. Main
2. 50% OR
 - D. 1. Emergency
2. 240 inches XSUR
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 11
(1 point)

Given the following plant conditions:

- Loss of offsite power occurs
- Station Blackout in progress

The Blackout tab directs an __ (1) __ to perform EOP Encl. 5.32, (Load Shed of Inverters During SBO) which will result in the removal of __ (2) __ loads.

Which ONE of the following completes the statement above?

- A. 1. AO
2. essential
 - B. 1. AO
2. vital
 - C. 1. RO
2. essential
 - D. 1. RO
2. vital
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 12
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- OAC Computer Out of Service
- 1KVIC de-energized

Based on the above conditions, which ONE of the following describes the instrumentation used to determine axial imbalance in accordance with OP/1/A/1105/014, (Control Room Instrumentation Operation And Information)?

- A. Incore Detectors
 - B. Outcore Detectors
 - C. Backup Incore Detectors
 - D. Imbalance readout indications in RPS cabinets
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 13
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- 1SA-04/E-6, (125 Volt Ground Trouble) actuates

- 1) 1SA-04/E-6, ARG directs the Operator to __(1)__ to determine if the ground is on the Battery or the Bus.
- 2) 1SA-04/E-6 actuating indicates that the ground __(2)__.

Which ONE of the following completes the statements above?

- A.
 1. rotate the Ground Relay Selector Switch
 2. is located on Unit 1 ONLY
 - B.
 1. rotate the Ground Relay Selector Switch
 2. could be on any Unit
 - C.
 1. isolate the Battery from the Bus
 2. is located on Unit 1 ONLY
 - D.
 1. isolate the Battery from the Bus
 2. could be on any Unit
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 14
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 72%
- 1LPSW-6, (UNIT 1 RCP COOLERS SUPPLY) fails closed

- 1) In accordance with AP/1/A/1700/016, (Abnormal Reactor Coolant Pump Operation), the RCP Motor Stator MINIMUM temperature (°F) that would require immediately tripping the RCP is __ (1) __.
- 2) If the RCP immediate trip criteria is met, AP/16 __ (2) __ require the Reactor to be manually tripped prior to securing the RCP.

Which ONE of the following completes the statements above?

- A. 1. 260°F
2. does
 - B. 1. 300°F
2. does
 - C. 1. 260°F
2. does NOT
 - D. 1. 300°F
2. does NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 15
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- Instrument Air pressure = 85 psig decreasing
- AP/1/A/1700/022, (Loss of Instrument Air) has been initiated

- 1) In accordance with AP/22, the highest Instrument Air pressure that would require an immediate manual Reactor trip is __(1)__ psig.
- 2) The reason AP/22 directs tripping the Main FDW pumps immediately after tripping the Reactor is __(2)__.

Which ONE of the following completes the statements above?

- A. 1. 70
2. Controlling FDW valves fail "as is"
 - B. 1. 65
2. Controlling FDW valves fail "as is"
 - C. 1. 70
2. Controlling FDW valves fail closed
 - D. 1. 65
2. Controlling FDW valves fail closed
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 16
(1 point)

Given the following Unit 1 conditions:

Time = 0400:

- Reactor power = 35% stable
- SA-16/C-1, (230 KV Swyd Isolate ES Permit) actuated
- 230 KV Yellow Bus voltage = 224.2 KV increasing

Time = 0401:

- AP/1/A/1700/034, (Degraded Grid) in progress
- 230 KV Yellow Bus voltage = 226.8 KV increasing
- RCS pressure = 1345 psig decreasing
- RB pressure = 2.6 psig increasing

- 1) At Time = 0401, ES Channels (1) have actuated.
- 2) At Time = 0402, Unit 1's MFBs will be energized from (2) .

Which ONE of the following completes the statements above?

- A.
 1. 1 and 2 ONLY
 2. CT-1
 - B.
 1. 1 through 6
 2. CT-1
 - C.
 1. 1 and 2 ONLY
 2. CT-4
 - D.
 1. 1 through 6
 2. CT-4
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 17
(1 point)

Given the following Unit 2 conditions:

- Loss of all sources of Feedwater has occurred
- RCS pressure = 2250 psig increasing
- Pressurizer level = 294 inches increasing
- ALL SCMs = 24°F slowly decreasing

- 1) The lowest RCS pressure that will require Rule 4, (Initiation of HPI Forced Cooling) to be performed is __(1)___ psig.
- 2) The PRIMARY reason for reducing the number of operating RCPs in accordance with Rule 4 is to reduce __(2)___.

Which ONE of the following completes the statements above?

- A. 1. 2300
2. heat input
 - B. 1. 2300
2. inventory loss
 - C. 1. 2255
2. heat input
 - D. 1. 2255
2. inventory loss
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 18
(1 point)

Given the following Unit 3 conditions:

Time = 0800:

- Reactor power = 100%
- TD EFDW pump is operating in RUN for testing
- MS pressure = 885 psig decreasing

Time = 0801:

- MS pressure = 700 psig decreasing

Time = 0802:

- MS pressure = 500 psig decreasing

1) At Time = 0801, 3SA-2/D-8, (AFIS HEADER B INITIATED) will be (1) .

2) At Time = 0802, the TD EFDW pump (2) be operating.

Which ONE of the following completes the statements above?

ASSUME NO OPERATOR ACTION

- A. 1. dark
2. will
 - B. 1. dark
2. will NOT
 - C. 1. lit
2. will
 - D. 1. lit
2. will NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 19
(1 point)

Given the following Unit 1 conditions:

Time = 0400:

- Reactor is tripped
- 1A1 RCP was previously secured due to high vibrations
- EOP SGTR tab initiated due to a SGTR in 1B SG
- RCS pressure = 2155 psig stable
- 1B SG pressure = 1010 psig stable

Time = 0500:

- RCS pressure = 2136 psig stable
- 1B SG pressure = 948 psig stable
- Pzr spray nozzle delta T = 420°F

- 1) At time = 0500, the 1B SG leak rate is __ (1) __ than the leak rate at Time = 0400.
- 2) In accordance with the SGTR tab, Auxiliary Pressurizer Spray __ (2) __ be utilized to decrease SCM.

Which ONE of the following completes the statements above?

- A.
 1. less
 2. can
 - B.
 1. less
 2. can NOT
 - C.
 1. greater
 2. can
 - D.
 1. greater
 2. can NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 20
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- Reactor Building Normal Sump (RBNS) is being pumped

Current conditions:

- Leak develops on discharge of 1A RBNS pump
- 1RIA-15, (HPI Room Corridor), in alarm

1) 1RIA-15 __ (1) __ have a local audible alarm.

2) 1RIA-15 alarm __ (2) __ actuate an interlock.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 21
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- Fire in Unit 1 Cable Room
- AP/1/A/1700/050, (Challenging Plant Fire) has been initiated

Current conditions:

- AP/50 Section 4G, (Unit 1 Control Room Evacuation) directs the OATC to perform Encl 5.5, (OATC Actions for Control Room Evacuation)

1) AP/50 Encl 5.5 will direct the OATC to take __(1)__.

2) The reason the above action is taken is to __(2)__.

Which ONE of the following completes the statements above?

- A.
 1. 1FDW-315 and 1FDW-316 to MANUAL and close
 2. ensure EFDW flow to the SGs can be controlled from the ASD Panel
 - B.
 1. 1FDW-315 and 1FDW-316 to MANUAL and close
 2. prevent spurious operation of 1FDW-315 and 1FDW-316 due to fire damage
 - C.
 1. 1A and 1B TBVs to HAND and control SG pressure from the ADVs
 2. ensure natural circulation develops when the RCPs are secured
 - D.
 1. 1A and 1B TBVs to HAND and control SG pressure from the ADVs
 2. maximize SG inventory prior to losing secondary pumps due to the fire
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 22
(1 point)

Given the following Unit 1 conditions:

- Small Break LOCA has occurred
- ICC tab is in progress
- RCS pressure = 700 psig
- SG pressure = 850 psig
- SG level = 50 inches XSUR increasing

SGs are depressurized _____ in order to establish primary to secondary heat transfer.

Which ONE of the following completes the statement above?

- A. to establish $T_{sat} 40-60^{\circ}\text{F} < \text{CETC}$
 - B. to establish $T_{sat} 90-110^{\circ}\text{F} < \text{CETC}$
 - C. to approximately 500 psig
 - D. completely
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 24
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor startup in progress following a refueling outage
- Reactor power = 50%

Time = 0801:

- Main Turbine trips due to low vacuum
- Reactor trips
- Subsequent Actions tab is in progress

Time = 0802:

- 1A and 1B SG pressure = 885 psig stable
- Main Condenser Vacuum = 9 inches Hg stable

In accordance with the Subsequent Actions tab, SG pressure will be increased to the desired pressure using __(1)__ in order to prevent potential __(2)__.

Which ONE of the following completes the statement above?

- A.
 1. TBVs
 2. ES actuation due to low RCS pressure
 - B.
 1. TBVs
 2. restart due to positive reactivity added by the cooldown
 - C.
 1. ADVs
 2. ES actuation due to low RCS pressure
 - D.
 1. ADVs
 2. restart due to positive reactivity added by the cooldown
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 25
(1 point)

Given the following Unit 3 conditions:

Time = 0800:

- Reactor power = 100%
- 3A HPI pump operating

Time = 0801:

- Chlorine gas is entering the Control Room
- The CRS has implemented AP/3/A/1700/008, (Loss of Control Room)
- No actions were taken prior to evacuating the Control Room
- The Unit 3 Auxiliary Shutdown Panel, (ASP) has been manned

Time = 0810:

- RCS pressure = 2205 psig

- 1) 3HP-24, (3A HPI BWST SUCTION) will be opened __ (1) __.
- 2) AP/8 directs reducing RCS pressure by __ (2) __ from the ASP.

Which ONE of the following completes the statements above?

- A.
 1. at the ASP
 2. opening 3RC-1, (PZR SPRAY)
 - B.
 1. at the ASP
 2. de-energizing Pzr Heaters
 - C.
 1. locally at the valve
 2. opening 3RC-1, (PZR SPRAY)
 - D.
 1. locally at the valve
 2. de-energizing Pzr Heaters
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 26
(1 point)

Given the following Unit 1 conditions:

- LOCA CD tab in progress
- ALL SCMs = 4°F increasing
- RCS pressure is controllable
- Statalarm, 1SA-07/E-6, (ES LPI Bypass Permit) actuated

- 1) The RCS pressure setpoint which will cause Statalarm 1SA-07/E-6 to actuate is ___(1)___ psig.
- 2) In accordance with the LOCA CD tab, LPI ___(2)___ be manually bypassed.

Which ONE of the following completes the statements above?

- A. 1. 865
2. will
 - B. 1. 865
2. will NOT
 - C. 1. 890
2. will
 - D. 1. 890
2. will NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 27
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- TD EFDW pump is OOS

Current conditions:

- Both Main Feedwater pumps trip
- 1A MD EFDW pump fails to start
- 1A SG level = 26 inches XSUR decreasing
- 1B SG level = 28 inches XSUR increasing
- Enclosure 5.9 (Extended EFDW Operation) is in progress
- 1FDW-313 and 1FDW-314, (1A & 1B EFDW LINE DISCH X-CONNs) open

Which ONE of the following describes the MAXIMUM acceptable flowrate (gpm) allowed to each SG at the same time per EOP Rule 7?

	1A SG	1B SG
A.	220 gpm	220 gpm
B.	300 gpm	300 gpm
C.	600 gpm	600 gpm
D.	500 gpm	450 gpm

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 28
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- AP/1/A/1700/016, (Abnormal Reactor Coolant Pump Operation) in progress
- RCP parameters given below:

	1B1 RCP	1B2 RCP
UPPER Cavity Pressure	1426 psig stable	714 psig stable
LOWER Cavity Pressure	2140 psig stable	1070 psig stable

RCP __ (1) __ should be secured as soon as plant conditions allow because __ (2) __.

Which ONE of the following completes the statement above?

- A. 1. 1B1
2. a single failed seal can transport debris to other seals and damage them
 - B. 1. 1B1
2. each seal is NOT designed to withstand full DP for an extended period
 - C. 1. 1B2
2. a single failed seal can transport debris to other seals and damage them
 - D. 1. 1B2
2. each seal is NOT designed to withstand full DP for an extended period
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 29
(1 point)

Given the following Unit 1 conditions:

- AP/1/A/1700/002, (Excessive RCS Leakage) is in progress
- RCS Makeup is in progress using EOP Encl 5.5, (Pzr and LDST Level Control)
- 1CS-48, (1A BHUT Recirc) is stuck in its normal position

1) 1CS-48 is operated __(1)__.

2) With 1CS-48 stuck in its current position, makeup flow from 1A Bleed Transfer Pump __(2)__ be adjusted per EOP Encl 5.5.

Which ONE of the following completes the statements above?

- A. 1. locally
2. can
 - B. 1. locally
2. can NOT
 - C. 1. from the Unit 1 Control Room
2. can
 - D. 1. from the Unit 1 Control Room
2. can NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 30
(1 point)

Which ONE of the following consists of ONLY components powered from 2TD?

- A. 2C LPI pump and 2B HPI pump
 - B. 2C LPI pump and 2C HPI pump
 - C. 2B LPI pump and 2B HPI pump
 - D. 2B LPI pump and 2C HPI pump
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 31
(1 point)

Given the following Unit 1 conditions:

- Reactor in MODE 5
- LPI in normal decay removal

- 1) The LPI Pump Minimum Flow recirculation line directs LPI pump discharge flow to the suction of the respective LPI pump __ (1) __.
- 2) In accordance with OP/1/A/1104/004, (Low Pressure Injection System) Limits and Precautions, if operated BELOW the minimum allowed flow rate, the associated LPI pump __ (2) __ required to be stopped immediately.

Which ONE of the following completes the statements above?

- A.
 1. continuously
 2. is
 - B.
 1. continuously
 2. is NOT
 - C.
 1. ONLY when pump flow decreases to 800 gpm
 2. is
 - D.
 1. ONLY when pump flow decreases to 800 gpm
 2. is NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 32
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- ES Channels 1 – 8 actuated
- EOP Enclosure 5.1, (ES Actuation) initiated
- HPI Flow Train A = 520 gpm
- HPI Flow Train B = 468 gpm
- RC Make Up Flow = 160 gpm
- Seal Inlet Header Flow = 32 gpm

In accordance with the EOP, _____ is/are required to be throttled to prevent HPI pump runout.

Which ONE of the following completes the statement above?

- A. 1HP-26 ONLY
 - B. 1HP-27 ONLY
 - C. 1HP-26 and 1HP-27
 - D. NO valve(s)
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 33

(1 point)

Given the following Unit 1 conditions:

- Quench Tank pressure is 25 psig due to 1RC-66, (PORV) leaking by
- Quench Tank pressure is being lowered using Enclosure 4.5, (Lower QT Pressure) of OP/1/A/1104/017, (Quench Tank Operations)
- 1GWD-12, (QUENCH TANK VENT INSIDE RB) is OPEN
- Vent Header pressure is +3 inches H₂O
- GWD-1, (VENT HEADER PRESSURE CONTROL VALVE) is in AUTO

1) In accordance with OP/1/A/1104/017, 1GWD-13 (QUENCH TANK VENT OUTSIDE RB) is __ (1) __ until desired Quench Tank pressure is reached.

2) GWD-1 is initially expected to __ (2) __ in response to the current vent header pressure.

Which ONE of the following completes the statements above?

- A. 1. cycled open and closed
2. open
 - B. 1. cycled open and closed
2. close
 - C. 1. opened fully
2. open
 - D. 1. opened fully
2. close
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 34
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Loss of all Feedwater
- HPI forced cooling initiated
- Quench Tank pressure = 40 psig increasing
- RCS activity indicates no fuel failures present

Current conditions:

- Quench Tank pressure = 3 psig stable

1) Reactor building RIA's count rate __ (1) __ increase.

2) A HIGH alarm on 1RIA-49 will automatically close __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. will
2. 1LWD-1 AND 1LWD-2
 - B. 1. will NOT
2. 1LWD-1 AND 1LWD-2
 - C. 1. will
2. 1LWD-2 ONLY
 - D. 1. will NOT
2. 1LWD-2 ONLY
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 35
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%
- 1SA-9/B-1, (CC CRD RETURN FLOW LOW) in alarm
- 1SA-9/C-1, (CC COMP COOLING RETURN FLOW LOW) in alarm
- AP/1/A/1700/020, (Loss of Component Cooling) is initiated

Time = 0802:

- Letdown temperature = 132°F
- 1 CRD stator temperature = 185°F increasing
- ALL remaining CRD Stator temperatures = 176°F increasing

At Time = 0802:

- 1) Letdown __(1)__ isolated.
- 2) In accordance with AP/20, a manual Reactor trip __(2)__ required.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 36

(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- 1RC-1 failed OPEN
- RCS pressure = 2150 psig decreasing
- AP/1/A/1700/044, (Abnormal Pressurizer Pressure Control) initiated

Current conditions:

- 1RC-3 failed OPEN

- 1) AP/44 will initially direct stopping the __ (1) __ to help mitigate the failure.
- 2) **If NO operator actions are taken**, a Reactor Protection System, (RPS) __ (2) __ Pressure trip will actuate FIRST to insert control rods.

Which ONE of the following completes the statements above?

- A. 1. 1A1 RCP only
2. Low
 - B. 1. 1A1 RCP only
2. Variable Low
 - C. 1. 1A1 and 1A2 RCPs
2. Low
 - D. 1. 1A1 and 1A2 RCPs
2. Variable Low
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 37

(1 point)

Given the following Unit 3 conditions:

Time = 0800:

- Unit startup in progress
- Reactor power = 3%
- 3A Main FDW pump is operating

Time = 0810:

- 3A Main FDW pump trips
- Emergency FDW pumps start
- Reactor power = 3%

- 1) At Time = 0810, the Reactor must be manually tripped because the Reactor Protection System, (RPS) trip due to the Loss of both MFDWPs ____(1)___.
- 2) The purpose of the "Loss of both MFDWPs Anticipatory Reactor Trip" is to preclude a Reactor trip due to high ____(2)___.

Which ONE of the following completes the statements above?

- A.
 1. has failed
 2. RCS pressure from the loss of heat sink
 - B.
 1. has failed
 2. neutron flux from the cold EFDW injection into the SGs
 - C.
 1. is bypassed
 2. RCS pressure from the loss of heat sink
 - D.
 1. is bypassed
 2. neutron flux from the cold EFDW injection into the SGs
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 38
(1 point)

Given the following Unit 1 conditions:

- Main Steam Line Break occurred 20 seconds ago
- Plant response as indicated on attached PT Display

1) Digital ES Channels __ (1) __ should have automatically actuated.

2) Diverse HPI __ (2) __ have automatically actuated.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

- A. 1. 1 through 8
2. will
- B. 1. 1 and 2 ONLY
2. will
- C. 1. 1 through 8
2. will NOT
- D. 1. 1 and 2 ONLY
2. will NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 39
(1 point)

Given the following Unit 2 conditions:

Time = 0000:

- Large Break LOCA occurred
- ES Channels 1-8 actuated
- LOSCM tab in progress

Time = 1200:

- LOCA CD tab in progress
- RB pressure = 2.0 psig
- Reactor Engineering has confirmed Condition One per RP/0/B/1000/018, (Core Damage Assessment)

- 1) Plant conditions at Time = 1200 __ (1) __ allow securing RB Spray.
- 2) When allowed by the LOCA CD tab, the reason for securing RB Spray is that continued operation does not outweigh the __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. will
 2. detrimental effects of corrosion of electrical components from the acidic spray
 - B.
 1. will
 2. reduction in NPSH to the LPI pumps while the RB Spray pumps are operating
 - C.
 1. will NOT
 2. detrimental effects of corrosion of electrical components from the acidic spray
 - D.
 1. will NOT
 2. reduction in NPSH to the LPI pumps while the RB Spray pumps are operating
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 40
(1 point)

Which ONE of the following is the power supply for 1B Reactor Building Cooling Unit, (RBCU)?

- A. 1XS2
 - B. 1XS3
 - C. 1X8
 - D. 1X9
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 41
(1 point)

Given the following Unit 1 conditions:

- The Reactor trips from 100% power due to a Large Break LOCA

__(1)__ is added to the RB Emergency Sump to allow RBS to __(2)__.

Which ONE of the following completes the statement above?

- A.
 1. LiOH, (Lithium Hydroxide)
 2. minimize hydrogen production from the boric acid reaction with Zircoloy
 - B.
 1. LiOH, (Lithium Hydroxide)
 2. aid in keeping Iodine in solution, ultimately reducing offsite dose
 - C.
 1. TSP, (Trisodium Phosphate Dodecahydrate)
 2. minimize hydrogen production from the boric acid reaction with Zircoloy
 - D.
 1. TSP, (Trisodium Phosphate Dodecahydrate)
 2. aid in keeping Iodine in solution, ultimately reducing offsite dose
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 42
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%
- Small Break LOCA occurs
- 1A SG outlet pressure instrument fails LOW
- Rule 2, (Loss of SCM) is in progress

- 1) The RO performing Rule 2 will use the __ (1) __ to reduce 1A SG pressure and maintain it below RCS pressure.
- 2) When Rule 2 is complete, the TD EFDW pump __ (2) __ be operating.

Which ONE of the following completes the statements above?

- A. 1. TBVs
2. will
 - B. 1. TBVs
2. will NOT
 - C. 1. ADVs
2. will
 - D. 1. ADVs
2. will NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 43

(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Reactor power = 100%
- 3MS-112 & 3MS-173, (SSRH 3A/3B Controls) are OPEN in MANUAL
- 3MS-77, 78, 80, 81, (MS to SSRH's) control switches in OPEN

Current conditions:

- Main Turbine trips

1) 3MS-112 & 3MS-173 will __(1)___.

2) 3MS-77, 78, 80, 81 will __(2)___.

Which ONE of the following completes the statements above?

- A. 1. close
2. close
 - B. 1. close
2. remain open
 - C. 1. remain open
2. close
 - D. 1. remain open
2. remain open
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 44
(1 point)

Given the following Unit 3 conditions:

Time = 0400:00:

- Reactor power = 70% stable
- 3A Main FDW pump suction pressure = 236 psig decreasing

Time = 0401:25:

- 3A Main FDW pump suction pressure = 230 psig increasing

At Time = 0401:25, which ONE of the following describes the status of the Main FDW pump(s) and the plant?

- A. Both Main FDW pumps are operating /
Plant runback in progress at 20% per min
 - B. Both Main FDW pumps are operating /
Reactor power is 70% stable
 - C. 3A Main FDW pump has tripped /
Plant runback in progress at 20% per min
 - D. 3A Main FDW pump has tripped /
Reactor power is 65% stable
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 45
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Reactor tripped from 35% power due to 3TA lockout
- 3A Main FDW pump operating

Current conditions:

- 3FDW-35 & 3FDW-44, (3A and 3B Startup FDW Control) in MANUAL
- 3A and 3B SG levels = 38 inches SUR stable

- 1) If 3FDW-35 & 44 are placed in Automatic, the valves will travel in the __ (1) __ direction.
- 2) The Feedwater flow path will utilize the __ (2) __ Feed Ring.

Which ONE of the following completes the statements above?

- A. 1. open
2. Main
 - B. 1. open
2. Auxiliary
 - C. 1. closed
2. Main
 - D. 1. closed
2. Auxiliary
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 46
(1 point)

Given the following Unit 1 conditions:

Time = 0900:

- Reactor power = 100%
- Loss of all FDW occurs
- LOHT tab is entered
- CBP feed is in progress per Rule 3, (Loss of Main or Emergency FDW)

Time = 0930:

- Unit 1 TD EFDW pump is operating
- Total EFDW flow = 360 gpm

- 1) Per the LOHT Tab, the number of operating RCPs will be reduced to __ (1) __.
- 2) EFDW flow must be __ (2) __ to stabilize RCS temperature.

Based on plant conditions at 0930, which ONE of the following completes the statements above?

REFERENCE PROVIDED

- A. 1. one total
2. increased
 - B. 1. one total
2. decreased
 - C. 1. one per loop
2. increased
 - D. 1. one per loop
2. decreased
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 47
(1 point)

The Operators have been directed to synchronize KHU-2 to the grid in accordance with OP/0/A/1106/019, (Keowee Hydro at Oconee).

The operators note the following indications:

- Grid Frequency = 60.1 Hz
- Keowee Frequency = 59.7 Hz
- Keowee Line Voltage = 13.9 KV
- Keowee 2 Output Voltage = 15.0 kV

- 1) The synchroscope will be turning in the __ (1) __ direction.
- 2) Placing the UNIT 2 AUTO VOLTAGE ADJUSTER switch in the RAISE position will cause the __ (2) __ to rise.

Based on plant conditions, which ONE of the following completes the statements above?

- A.
 1. Clockwise
 2. KEOWEE 2 LINE VOLTS
 - B.
 1. Clockwise
 2. KEOWEE 2 OUTPUT VOLTS
 - C.
 1. Counterclockwise
 2. KEOWEE 2 LINE VOLTS
 - D.
 1. Counterclockwise
 2. KEOWEE 2 OUTPUT VOLTS
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 48

(1 point)

Given the following plant conditions:

- The Standby Buses are being powered from the 100 kV line
- The SL Breakers Auto/Manual Selector switches are in AUTO
- The TRIP INTERLOCK DEFEAT SWITCH is in the LEE position

Which ONE of the following describes the MINIMUM condition(s) that will cause the SL Breakers to open?

- A. Undervoltage on EITHER Standby Bus 1 or Standby Bus 2.
 - B. Undervoltage on BOTH Standby Bus 1 and Standby Bus 2.
 - C. The 1st level 100KV Degraded Voltage Relay has been satisfied for 9 seconds AND the 2nd level 100KV Degraded Voltage Relay is now satisfied.
 - D. The 1st level 100KV Degraded Voltage Relay is now satisfied AND the 2nd level 100KV Degraded Voltage Relay has been satisfied for 9 seconds.
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 49
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- 1DCA Bus Voltage = 125 VDC
- 1DCB Bus Voltage = 126 VDC
- 2DCA Bus Voltage = 127 VDC
- 2DCB Bus Voltage = 127 VDC

Current conditions:

- 1XS1 incoming feeder breaker trips

Based on the current conditions, which ONE of the following is correct regarding the DC power systems?

ASSUME NO OPERATOR ACTIONS

- A. 1DCA will be powered from the standby charger
 - B. 1DCB loads will be powered from Battery 1CB
 - C. 1KX Inverter will be powered from 1DCB
 - D. 1DIC Inverter will be powered from 1DCB
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 50

(1 point)

Given the following Unit 1 conditions:

- 1A HWP breaker in the "TEST" position

- 1) The 1A HWP breaker __(1)__ be closed remotely using the Control Room switch.
- 2) If the 1A HWP breaker DC control power fuses are removed, 1A HWP breaker __(2)__ be closed locally using the pistol grip switch located on the front of the breaker cubicle.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 51
(1 point)

Given the following Unit 2 conditions:

Time = 1200:

- Reactor in MODE 5
- LPI aligned to normal Decay Heat Removal mode
- 2RIA-35, (LPSW Disch.) is isolated for repair

Time = 1300:

- 2A LPI cooler develops a large leak

Time = 1500:

- Actions to isolate the 2A LPI cooler are initiated
- RCS temperature slowly increasing

1) At Time = 1330, there __ (1) __ an RIA alarm indicating the LPI cooler leak.

2) Entry into MODE 4 will occur when RCS temperature exceeds a MINIMUM of __ (2) __ °F.

Which ONE of the following completes the statements above?

- A. 1. is
2. 200
 - B. 1. is
2. 250
 - C. 1. is NOT
2. 200
 - D. 1. is NOT
2. 250
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 52
(1 point)

Given the following Unit 1 conditions:

Time = 1200:

- Reactor power = 35%
- 1A Steam Generator Tube Leak = 2.1 gpd
- RCS activity = 0.25 $\mu\text{Ci/ml}$ DEI increasing

Time = 1400:

- Reactor power = 35%
- 1A Steam Generator Tube Leak = 2.1 gpd
- RCS activity = 0.65 $\mu\text{Ci/ml}$ DEI increasing

- 1) Between Time = 1200 and 1400, 1RIA-16 indication will ____(1)___.
- 2) At Time = 1400, in accordance with AP/31, (Primary to Secondary Leakage) 1RIA-59 ____(2)___ be used to calculate SG tube leak size.

Which ONE of the following completes the statements above?

- A.
 1. stay the same
 2. will
 - B.
 1. stay the same
 2. will NOT
 - C.
 1. increase
 2. will
 - D.
 1. increase
 2. will NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 53

(1 point)

Given the following Unit 1 conditions:

- "A" LPSW pump trips
- Standby LPSW pump fails to start

Which ONE of the following will begin to increase in temperature?

ASSUME NO OPERATOR ACTION

- A. Letdown
 - B. Spent Fuel Pool
 - C. Main Feedwater Pump oil temperature
 - D. Primary Instrument Air Compressor discharge air temperature
-

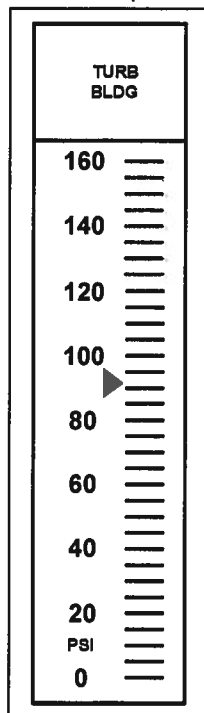
Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 54
(1 point)

Given the following plant conditions:

- IA pressure is decreasing
- Current IA pressure is as follows:



Based on the above conditions, which ONE of the following describes the air compressors that will be operating?

The Primary IA Compressor AND...

- A. Diesel Air Compressors ONLY
 - B. Diesel Air Compressors AND AIA Compressors ONLY
 - C. AIA Compressors AND Backup IA Compressors ONLY
 - D. Backup IA Compressors ONLY
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 55
(1 point)

Given the following Unit 2 conditions:

Time = 0400:

- Reactor power = 100%

Time = 0410:

- RCS pressure = 1500 psig decreasing
- RB pressure = 3.3 psig increasing

- 1) Reactor Building __ (1) __ will have automatically closed.
- 2) In accordance with EOP Enclosure 5.1, (ES Actuation) a previously closed containment isolation valve will be opened by FIRST placing the associated __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. non-essential isolation valves ONLY
2. ES Channel in MANUAL
 - B. 1. non-essential isolation valves ONLY
2. voter in OVERRIDE
 - C. 1. non-essential and essential isolation valves
2. ES Channel in MANUAL
 - D. 1. non-essential and essential isolation valves
2. voter in OVERRIDE
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 56

(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Mode 6
- Reactor Vessel head removed
- 2LT-5A, (Rx Vessel Level 2A) = 28 inches stable
- 2LT-5B, (Rx Vessel Level 2B) = 28 inches stable

Current conditions:

- 2LT-5A REFERENCE LEG is damaged resulting in complete drain down of the reference leg

1) 2LT-5A indication will __(1)___.

2) 2LT-5B indication will __(2)___.

Which ONE of the following completes the statements above?

- A. 1. decrease
2. decrease
 - B. 1. increase
2. increase
 - C. 1. decrease
2. remain the same
 - D. 1. increase
2. remain the same
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 57
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%
- NR RCS pressure Channel B has failed HIGH

Time = 0801:

- NR RCS pressure Channel E fails HIGH

1) 1RC-66, (PORV) __ (1) __ fail open.

2) The Reactor __ (2) __ receive a "High RCS Pressure" trip signal.

Based on the plant conditions at Time = 0801, complete the above statements.

ASSUME NO OPERATOR ACTIONS

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 58
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- TBVs are in HAND
- ICS HAND power is lost

1) ICS HAND power is supplied by inverter __ (1) __.

2) The TBVs __ (2) __ be controlled in HAND.

Which ONE of the following completes the statements above?

- A. 1. 1KI
2. can
 - B. 1. 1KI
2. can NOT
 - C. 1. 1KU
2. can
 - D. 1. 1KU
2. can NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 59
(1 point)

Given the following Unit 3 conditions:

- Reactor power = 8%
- Power is being increased in accordance OP/3/A/1102/001, (Controlling Procedure for Unit Startup)
- CTPD SET is adjusted to 12%

As power is increased to 12%, the MAXIMUM rate at which power can be increased is limited to __ (1) __ per minute and SG levels will __ (2) __.

Which ONE of the following completes the statement above?

- A. 1. 1%
2. remain at 25 inches
 - B. 1. 1%
2. increase above 25 inches
 - C. 1. 3%
2. remain at 25 inches
 - D. 1. 3%
2. increase above 25 inches
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 60
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Reactor power = 25% stable

Current conditions:

- Main Turbine trips

The Reactor __ (1) __ trip and the TBVs will control at __ (2) __.

Which ONE of the following completes the statement above?

- A. 1. will
2. setpoint
 - B. 1. will
2. setpoint plus 125 psig
 - C. 1. will NOT
2. setpoint
 - D. 1. will NOT
2. setpoint plus 125 psig
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 61

(1 point)

Given the following Unit 1 conditions:

- Reactor power = 50% stable
- 1A SG develops a tube leak
- 1RIA-40 is operable
- CSAE Off-Gas Blower is OFF

1) In accordance with AP/1/A/1700/031, (Primary to Secondary Leakage) OAC point O1P1599, (Est Total Pri to Sec Leakrate), __ (1) __ be used to determine leak rate.

2) 1RIA-40 reads out in __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. will
2. cpm
 - B. 1. will
2. gpd
 - C. 1. will NOT
2. cpm
 - D. 1. will NOT
2. gpd
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 62
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 30% stable
- ICS is in MANUAL
- 1B Condensate Booster Pump (CBP) trips
- C/FDW PRESSURE Runback Light is lit
- AP/1/A/1700/001, (Unit Runback) is entered
- A manual power reduction is initiated

- 1) The Standby CBP will NOT start if it's __(1)__ pressure is 10 psig (assuming all other permissives are met).
- 2) Per guidance contained in AP/1, if the C/FDW PRESSURE Runback Light does NOT clear, the manual power reduction will be stopped at __(2)__ power.

Which ONE of the following completes the statements above?

- A. 1. suction
2. 15%
 - B. 1. suction
2. 20%
 - C. 1. auxiliary oil
2. 15%
 - D. 1. auxiliary oil
2. 20%
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 63
(1 point)

Given the following Unit 1 conditions:

- 1A GWD tank release in progress
- 1RIA-37, (Waste Gas Effluent Monitor) HIGH alarm actuates
- 1SA-8/B-9, (Process Monitor Radiation High) actuates

- 1) 1RIA-37 HIGH alarm will close 1A GWD tank __ (1) __.
- 2) Once the GWD tank release is completed, __ (2) __ will be used to purge the RIA.

Which ONE of the following completes the statements above?

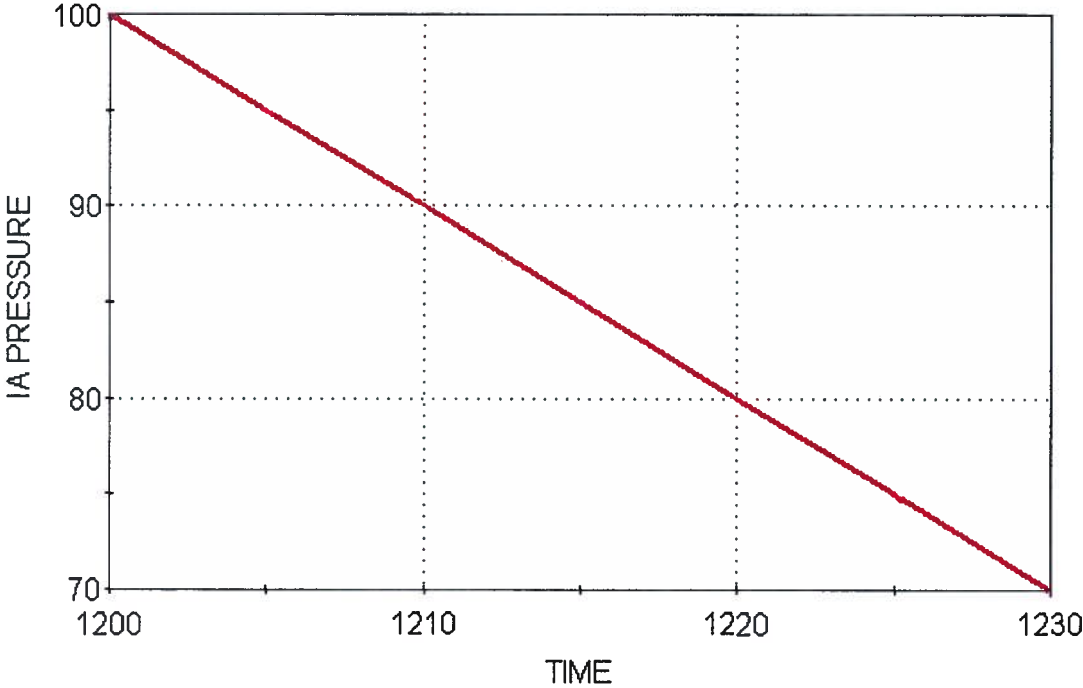
1. inlet AND outlet valves
2. Nitrogen
 1. inlet AND outlet valves
2. Instrument Air
 1. outlet valves ONLY
2. Nitrogen
 1. outlet valves ONLY
2. Instrument Air
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 64
(1 point)

IA PRESSURE



Based on the graph above, which ONE of the following describes the EARLIEST time at which SA-141, (SA to IA Controller) will automatically open?

- A. 1207
- B. 1210
- C. 1212
- D. 1215

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 65

(1 point)

Given the following Unit 2 conditions:

- A fire door is blocked open and can NOT be closed
- The closest operable fire detectors are 16 ft on either side of the door
- SLC 16.9.5, (Fire Barriers) Condition A, (Required Fire Barrier Inoperable) is required

- 1) In accordance with SLC 16.9.5, a(n) __ (1) __ fire watch must be established.
- 2) In accordance with OMP 2-1, (Duties And Responsibilities of On-Shift Operations Personnel) fire impairment compensatory measures are approved by the __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. continuous
 2. Work Control Center SRO
 - B.
 1. continuous
 2. Control Room Supervisor
 - C.
 1. hourly
 2. Work Control Center SRO
 - D.
 1. hourly
 2. Control Room Supervisor
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 66
(1 point)

Given the following Unit 2 conditions:

- Reactor power = 100%
- The BOP determines that the Steam Packing Exhauster is OFF

In accordance with SOMP 1-07, (Control Room Oversight) and OMP 1-24, (Operations Communications Standards) the...

- 1) BOP will communicate this to the crew using a crew __(1)___.
- 2) above communication __(2)___ required to be 3-way.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 67
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%

Time = 0801:

- Reactor power = 101% increasing
- Plant Transient Response is performed

Time = 0801:30

- Reactor power = 104% increasing
- The OATC manually trips the Reactor

- 1) The Reactor was tripped due to __ (1) __ the RPS trip setpoint.
- 2) SRO concurrence __ (2) __ required prior to tripping the Reactor.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 68
(1 point)

Given the following Unit 2 conditions:

- Reactor in Mode 6
- Refueling in progress
- RB purge release in progress
- A Fuel Assembly is dropped in the Unit 1 & 2 Spent Fuel Pool
- 1RIA-6, (SFP Area Monitor) in alarm
- AP/1/A/1700/009, (Spent Fuel Damage) is entered

In accordance with AP/9, the control room RO...

- 1) __ (1) __ stop Unit 2 RB Purge Fan.
- 2) will dispatch an operator to start __ (2) __ Spent Fuel Filtered Exhaust Fan(s).

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 69
(1 point)

Boron precipitation is primarily a concern for a __ (1) __ leg rupture and failure to initiate the Boron Dilution flow path when required would challenge the ability to __ (2) __.

- A.
 - 1. hot
 - 2. prevent boron stratification in the cold leg to ensure a restart event does not occur when the cold leg volume enters the core.
 - B.
 - 1. hot
 - 2. ensure boron does not concentrate in the core and block the long term core cooling flow path
 - C.
 - 1. cold
 - 2. prevent boron stratification in the cold leg to ensure a restart event does not occur when the cold leg volume enters the core.
 - D.
 - 1. cold
 - 2. ensure boron does not concentrate in the core and block the long term core cooling flow path
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 70
(1 point)

Given the following Unit 3 conditions:

- Reactor in MODE 4
- Placing LPI in service for cooldown

- 1) 3LP-11 and 3LP-13, (3A/3B LPI Cooler Inlet) are __ (1) __ valves.
- 2) __ (2) __ are throttled to control RCS temperature in accordance with OP/3/A/1102/010, (Controlling Procedure for Unit Shutdown).

Which ONE of the following completes the statements above?

- A.
 1. manual
 2. 3LPSW-251 and 3LPSW-252, (3A/3B LPI Cooler Outlet Control)
 - B.
 1. manual
 2. 3LP-92 and 3LP-93, (3A/3B LPI Clr Byp Controller)
 - C.
 1. electric
 2. 3LPSW-251 and 3LPSW-252, (3A/3B LPI Cooler Outlet Control)
 - D.
 1. electric
 2. 3LP-92 and 3LP-93, (3A/3B LPI Clr Byp Controller)
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 71

(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- 1PA Battery is inoperable

In accordance with SLC 16.8.3, (Power Battery Parameters)...

- 1) the MAXIMUM Completion time allowed to declare the Unit 1 TD EFDW pump inoperable is __ (1) __.
- 2) cross connecting buses __ (2) __ is required.

Which ONE of the following completes the statements above?

- A.
 1. immediately
 2. 1PA and 1PB
 - B.
 1. immediately
 2. 1PA, 2PA and 3PA
 - C.
 1. within one hour
 2. 1PA and 1PB
 - D.
 1. within one hour
 2. 1PA, 2PA and 3PA
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 72
(1 point)

Given the following Unit 3 conditions:

- SGTR tab in progress
- RCS temperature = 548°F stable

Which ONE of the following describes an action taken, in accordance with the SGTR tab, to limit the activity released to the environment?

- A. The CSAE drains are rerouted to the CST
 - B. The Turbine Building Sump pump breakers are opened
 - C. The affected SG is isolated prior to initiating RCS cooldown
 - D. The Auxiliary Steam systems for all three units are separated
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 73

(1 point)

An RWP that you are preparing to work under states the following:

- The highest dose rate in the area is 325 mR/hr (at 30 cm)
- Radiography will be conducted in an area next to where you are working sometime during the shift

- 1) An area with the above dose rate should be designated as a __ (1) __.
- 2) The radiography boundary is required to be constructed with __ (2) __ at each radiation sign.

Which ONE of the following completes the statements above?

- A.
 1. Radiation Area
 2. red stop signs ONLY
 - B.
 1. Radiation Area
 2. flashing lights AND red stop signs
 - C.
 1. High Radiation Area
 2. red stop signs ONLY
 - D.
 1. High Radiation Area
 2. flashing lights AND red stop signs
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 74
(1 point)

The following are Log entries from the Emergency Coordinator (EC/SM) Log following an event at Oconee Unit 2.

1112 – EC/SM declared a General Emergency based on RIA-57 readings.

1117 – EC/SM provided the following offsite protective recommendations to the Offsite Communicator:

- Evacuation of Pickens A0, A1, B1, C1, and Oconee A0, D1, E1, F1
- Shelter of Pickens A2, B2, C2, and Oconee D2, E2, F2.

1120 – EC/SM signed message form to provide offsite recommendations.

1122 – EC/SM began turnover to TSC.

1125 – Present time of day.

Based on the above conditions, which ONE of the following describes how many minutes the Offsite Communicator has to initiate the notifications to State and Counties from the present time?

- A. 2
 - B. 7
 - C. 10
 - D. 15
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 75
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Time = 0400
- Reactor power = 100%

Current conditions:

- Time = 0415
- 1SA-02/D-4, (RC PRESS EMERG LOW) actuated
- RCS pressure = 520 psig decreasing
- RB pressure = 2.5 psig increasing
- ONLY ES Channels 1 and 2 actuated

- 1) The HIGHER pressure that will result in a RCS Low Pressure reactor trip is (1) .
- 2) At Time = 0415, and in accordance with EOP Enclosure 5.1, (ES Actuation) (2) trip push buttons must be depressed.

Which ONE of the following completes the statements above?

- A.
 1. 1810 psig
 2. ES Channels 3 through 6
 - B.
 1. 1810 psig
 2. ONLY ES Channels 3 and 4
 - C.
 1. 1850 psig
 2. ES Channels 3 through 6
 - D.
 1. 1850 psig
 2. ONLY ES Channels 3 and 4
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 76
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 50%
- Unit 1 is supplying the AS header
- 1RC-66, (PORV) fails open
- 1RC-4, (PORV BLOCK) fails to close

Time = 0810:

- LOSCM tab is in progress
- HPI flow could only be established in the 1A header
- MD EFDW pumps FAIL to start
- TD EFDWP is supplying feedwater to both SGs
- Rapid SG depressurization has begun

1) Both SGs should be depressurized __(1)___.

2) IF the RCS cooldown results in an increase in neutron flux, the CRS will __(2)___.

Which ONE of the following completes the statements above?

- A. 1. to a minimum of ~ 250 psig
2. GO TO the UNPP tab
 - B. 1. to a minimum of ~ 250 psig
2. remain in the LOSCM
 - C. 1. completely
2. GO TO the UNPP tab
 - D. 1. completely
2. remain in the LOSCM
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 77
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%
- 1A1 RCP MTR UPR GUIDE BRG TEMP = 175°F increasing
- AP/16, (Abnormal Reactor Coolant Pump Operation) is entered

Time = 0810:

- Reactor power = 68%
- 1A1 RCP is tripped due to high bearing temperature
- ΔT_c controller fails to re-ratio feedwater

- 1) The MINIMUM RCP Motor Bearing temperature that meets trip criteria stated in AP/16 Enclosure 5.1, (RCP Immediate Trip Criteria) is (1) .
- 2) The SRO will direct actions required due to the failed ΔT_c controller by (2) .

Which ONE of the following completes the statements above?

- A.
 1. 190°F
 2. remaining in AP/16
 - B.
 1. 190°F
 2. initiating AP/28, (ICS Instrument Failures)
 - C.
 1. 225°F
 2. remaining in AP/16
 - D.
 1. 225°F
 2. initiating AP/28, (ICS Instrument Failures)
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 78
(1 point)

Given the following Unit 1 conditions:

- MODE 5
- LPI aligned in normal DHR mode
- Low Range Cooldown Pressure = 5 psig
- RCS inventory is decreasing
- AP/1/A/1700/026, (Loss of Decay Heat Removal) is in progress

1) Alarm(s) __ (1) __ is/are the MINIMUM condition(s) that would indicate a TOTAL loss of LPI flow.

2) In accordance with AP/26, makeup to the RCS will be initiated by __ (2) __.

Which ONE of the following completes the statements above?

NOTE: 1SA-3/C8 = LP Injection Loop A Flow High/Low
1SA-3/C9 = LP Injection Loop B Flow High/Low

- A. 1. 1SA-3/C8 ONLY actuated with Train A LPI flow = 0 gpm
2. EOP Enclosure 5.5, (Pzr and LDST Level Control)
 - B. 1. 1SA-3/C8 ONLY actuated with Train A LPI flow = 0 gpm
2. actions contained in AP/26
 - C. 1. 1SA-3/C8 AND 1SA-3/C9 actuated with Train A AND Train B LPI flow = 0 gpm
2. EOP Enclosure 5.5, (Pzr and LDST Level Control)
 - D. 1. 1SA-3/C8 AND 1SA-3/C9 actuated with Train A AND Train B LPI flow = 0 gpm
2. actions contained in AP/26
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 79
(1 point)

Given the following Unit 1 conditions:

- Reactor trips from 100% power
- Switchyard Isolation occurs

- 1) Feedwater flow to the SGs will be indicated on __(1)__.
- 2) The SRO will direct an RO to perform __(2)__ due to the loss of power event.

Which ONE of the following completes the statements above?

- A.
 1. TOTAL EFDW FLOW
 2. EOP Enclosure 5.38, (Restoration of Power)
 - B.
 1. TOTAL EFDW FLOW
 2. AP/1/A/1700/011, (Recovery From Loss of Power)
 - C.
 1. FDW SU FLOW
 2. EOP Enclosure 5.38, (Restoration of Power)
 - D.
 1. FDW SU FLOW
 2. AP/1/A/1700/011, (Recovery From Loss of Power)
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 80
(1 point)

Given the following plant conditions:

Time = 1100:

- All three Oconee Units at 100% power
- 3KVIB panelboard de-energized

Time = 1200:

- 3DIC panelboard is de-energized

- 1) Tech Spec LCO 3.8.8, (Distribution Systems-Operating) is NOT met for __(1)__.
- 2) The bases for the different completion times for inoperable Vital Instrument and Control panelboards in Tech Spec 3.8.8 Condition F is that KVIA AND KVIB have shorter completion times due to __(2)__.

Which ONE of the following completes the statements above?

- A.
 1. Unit 3 ONLY
 2. being the source of power for the ES Voters
 - B.
 1. Unit 3 ONLY
 2. providing power for SK and SL breakers protective relaying
 - C.
 1. Units 1, 2, AND 3
 2. being the source of power for the ES Voters
 - D.
 1. Units 1, 2, AND 3
 2. providing power for SK and SL breakers protective relaying
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 81
(1 point)

Given the following Unit 1 conditions:

Time = 0400:

- Reactor power = 100%
- 2SA-18/A-11, (TURBINE BSMT WATER LEVEL EMERGENCY HIGH) actuated
- AP/1/A/1700/010, (Turbine Building flood) initiated

Time = 0430:

- ALL CBPs, Main, and Emergency FDW pumps have tripped
- Protected Service Water (PSW) is NOT available

- 1) At Time = 0430, the SRO will __(1)__.
- 2) The next method that will be used to remove decay heat is __(2)__ in accordance with the procedure identified above.

Which ONE of the following completes the statements above?

- A.
 1. remain in TBF tab
 2. feeding with the SSF ASW pump
 - B.
 1. remain in TBF tab
 2. initiation of HPI Forced Cooling
 - C.
 1. transfer to the LOHT tab
 2. feeding with the SSF ASW pump
 - D.
 1. transfer to the LOHT tab
 2. initiation of HPI Forced Cooling
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 82
(1 point)

Given the following Unit 1 conditions:

- Reactor in Mode 3
- 1HP-120 fails open
- INDICATED LDST level remains stable
- 1A HPI pumps amps fluctuating
- AP/14, (Loss of Normal HPI Makeup and /or RCP Seal Injection) is entered
- All HPIPs are secured
- Encl 5.1, (SSF RC Makeup) is in progress

- 1) AP/14 directs you to initiate a MAXIMUM RCS heatup of __ (1) __ in order to maintain Pzr level \geq 100 inches while establishing an RCS makeup source.
- 2) AP/14 __ (2) __ direct performance of Encl 5.2, (Emergency Alignment of 1C HPI Pump For Normal Makeup) prior to starting the 1C HPI pump.

Which ONE of the following completes the statements above?

- A.
 1. 5°F
 2. does
 - B.
 1. 5°F
 2. does NOT
 - C.
 1. 10°F
 2. does
 - D.
 1. 10°F
 2. does NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 83
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 80% stable
- 1RIA-40 Alert and High Alarm actuated
- AP/31, (Primary To Secondary Leakage) is initiated
- 1RIA-59 = 20 gpm increasing
- 1RIA-60 = 0.4 gpm increasing

Time = 0805:

- 1RIA-59 = 30 gpm increasing
- 1RIA-60 = 0.6 gpm increasing
- SGTR tab is entered
- Maximum Runback is initiated

Time = 0809:

- Reactor power = 15%
- Auxiliaries have been transferred

- 1) The increased indication on 1RIA-60 is ONLY due to radiation __ (1) __.
- 2) At Time = 0809, the SRO will direct a trip of the __ (2) __, then continue in the SGTR tab.

Which ONE of the following completes the statements above?

- A.
 1. from the 1B steam header due to cross contamination
 2. Main Turbine ONLY
 - B.
 1. from the 1B steam header due to cross contamination
 2. Main Turbine AND Reactor
 - C.
 1. from the 1A SG header reaching 1RIA-60 due to the close proximity of the steam lines
 2. Main Turbine ONLY
 - D.
 1. from the 1A SG header reaching 1RIA-60 due to the close proximity of the steam lines
 2. Main Turbine AND Reactor
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 84
(1 point)

Given the following Unit 3 conditions:

Time = 0800:

- Unit shutdown in progress due to SGTL = 12 gpm in 3A SG
- Reactor power = 95% decreasing
- 3RC-67, (Pzr Safety Valve) fails Open

Time = 0801:

- MANUAL Reactor Trip initiated

Time = 0803:

- ALL SCMs = 0°F
- ES Channels 1 and 2 actuated

Time = 0812:

- ALL SCMs = 20°F increasing
- RB pressure = 2 psig increasing

- 1) The current Emergency Plan Classification would be a/an (1) .
- 2) The MAXIMUM time allowed to notify the NRC per RP/0/A/1000/002, (Control Room Emergency Coordinator Procedure) is (2) .

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

- A.
 1. Alert
 2. 15 minutes
 - B.
 1. Alert
 2. 1 hour
 - C.
 1. Unusual Event
 2. 15 minutes
 - D.
 1. Unusual Event
 2. 1 hour
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 85
(1 point)

Given the following Unit 1 conditions:

Time = 0600:

- Reactor tripped
- AFIS header B initiated
- 1A SG pressure = 800 psig slowly decreasing
- ES 1 & 2 actuated
- RB pressure = 2 psig increasing
- Core SCM = 0°F
- Rule 2, (Loss of SCM) is in progress

Time = 0608:

- Core SCM = 15°F
- Rule 5, (Main Steam Line Break) is complete
- EHT Tab has been initiated
- Tcold = 460°F stable
- HPI has been throttled with 1HP-120 fully open and 1HP-26 throttled open to maintain PZR level stable at 105 inches

1) Rule 8, (PTS) __ (1) __ required to be initiated.

2) In accordance with the EHT Tab, the __ (2) __ Tab will be initiated.

Which ONE of the following completes the statements above?

- A. 1. is
2. FCD
 - B. 1. is
2. LOCA CD
 - C. 1. is NOT
2. FCD
 - D. 1. is NOT
2. LOCA CD
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 86
(1 point)

Given the following Unit 1 conditions:

Time = 0400

- Reactor power = 100%

Time = 0405

- Loss of ALL Main and Emergency Feedwater
- 1A HPI pump trips and will NOT restart
- RCS temperature is increasing
- LOHT tab in progress

Time = 0425

- Core SCM = 0°F due to the RCS heatup

The Control Room SRO will __(1)__ and will direct __(2)__.

Which ONE of the following completes the statement above?

- A.
 1. transfer to the LOSCM tab
 2. initiating Rule 2, (Loss of SCM)
 - B.
 1. transfer to the LOSCM tab
 2. initiating depressurization of both SGs
 - C.
 1. remain in the LOHT tab
 2. initiating Rule 4, (Initiation of HPI Forced Cooling)
 - D.
 1. remain in the LOHT tab
 2. an operator to perform Encl 5.34, (Aligning SSF-ASW for SG Feed)
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 87
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%
- Pzr safety valve is leaking by
- 1SA-6/B-7, (CS QUENCH TANK PRESSURE HIGH) is in alarm
- 1SA-6/C-7, (CS QUENCH TANK TEMPERATURE HIGH) is in alarm
- OP/1/A/1104/017, (Quench Tank Operation) is used to address QT parameters
 - Enclosure 4.3, (QT Recirc)
 - Enclosure 4.4, (Lower QT Pressure)

- 1) In accordance with OP/1/A/1104/017, Enclosure __ (1) __ will be performed FIRST.
- 2) IF performing Enclosure 4.3, (QT Recirc) and QT level decreases to 82 inches, the __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. 4.3
 2. procedure directs you to stop the Quench Tank Drain Pump
 - B.
 1. 4.3
 2. Quench Tank Drain Pump will automatically trip
 - C.
 1. 4.4
 2. procedure directs you to stop the Quench Tank Drain Pump
 - D.
 1. 4.4
 2. Quench Tank Drain Pump will automatically trip
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 88
(1 point)

Given the following Unit 2 conditions:

- Reactor power = 100%
- While performing SR 3.3.5.2, (Manual ES Setpoint Verification) FIN24 determines that Reactor Building Pressure High "as found" setpoints are as follows:
A = 3.53 psig
B = 4.04 psig
C = 4.09 psig

- 1) The ACTUAL Setpoint for ES RB Pressure High is (1) psig.
- 2) The CRS (2) required to enter Tech Spec 3.3.5, (ESPS Input Instrumentation) CONDITION B.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

- A. 1. 3.0
2. is
 - B. 1. 3.0
2. is NOT
 - C. 1. 3.5
2. is
 - D. 1. 3.5
2. is NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 89
(1 point)

Given the following Unit 2 conditions:

Time = 0800:

- Reactor power = 100%
- OAC ALARM, (2MS-93 Backup Nitrogen Press 1 LO-LO) is in alarm
- 2MS-93, (TD EFDWP STEAM SUPPLY TRIP VALVE) in-service Nitrogen bottle pressure = 300 psig decreasing

Time = 0830:

- Air/Nitrogen pressure to 2MS-93 = 0 psig
- TD EFDWP receives a start signal
- TD EFDWP DC auxiliary oil pump fails to start
- An operator is dispatched to locally start the TD EFDWP using EOP Encl 5.26, (Manual Start of TDEFDWP)

1) At Time = 0800, the LCO for TS 3.3.13, (Automatic Feedwater Isolation System (AFIS)) Digital Channels __ (1) __ being met.

2) At Time = 0830, Unit 2 TD EFDWP will be started LOCALLY using __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. is
2. 2MS-94, (TD EFDWP STOP VALVE)
 - B. 1. is
2. 2MS-95, (TD EFDWP GOVERNOR VALVE)
 - C. 1. is NOT
2. 2MS-94, (TD EFDWP STOP VALVE)
 - D. 1. is NOT
2. 2MS-95, (TD EFDWP GOVERNOR VALVE)
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 90
(1 point)

Given the following Unit 1 conditions:

Time = 0400:

- Reactor power = 100%
- Station blackout occurs

Time = 0405:

- 1DCA and 1DCB, (Control Battery Buses) are de-energized
- SM and STA discuss the DC Bus issue and develop a plan to restore them

Time = 0410:

- Power restored to both Main Feeder Buses from KHU-1 and CT-1
- CT-5 is energized

Time = 0430:

- 1DCA energized

- 1) In accordance with OMP 1-18, (Implementation Standard During Abnormal and Emergency Events) the __ (1) __ will conduct the Focus Brief on restoration of the battery charger.
- 2) In accordance with RP/0/A/1000/001, (Emergency Classification) the HIGHEST emergency classification (if any) for the above sequence of events is __ (2) __.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

- A. 1. SM ONLY
2. Unusual Event
 - B. 1. SM ONLY
2. Site Area Emergency
 - C. 1. SM or the CRS
2. Unusual Event
 - D. 1. SM or the CRS
2. Site Area Emergency
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 91

(1 point)

Given the following Unit 3 conditions:

- Reactor power = 100%
- 3DIA supply breaker to CRD breaker shunt trip device in RPS channel "A" tripped OPEN

- 1) In accordance with TS 3.3.1, (RPS Instrumentation), the 3A RPS channel is ___(1)___.
- 2) ___(2)___ required to be performed.

Which ONE of the following completes the statements above?

- A.
 1. OPERABLE
 2. TS 3.3.4, (Control Rod Drive Trip Devices) action statements are
 - B.
 1. OPERABLE
 2. TS 3.3.4, (Control Rod Drive Trip Devices) action statements are NOT
 - C.
 1. NOT OPERABLE
 2. TS 3.3.1, (RPS Instrumentation) action statements are
 - D.
 1. NOT OPERABLE
 2. TS 3.3.1, (RPS Instrumentation) action statements are NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 92
(1 point)

Given the following Unit 3 conditions:

Time = 0400:

- Reactor power = 100%

Time = 0415:

- HPI X-OVER LOOP "A" flow instrument loses power

1) At Time = 0400, if ES Channels 1 – 8 actuated, the HPI X-OVER LOOP "A" flow instrument __ (1) __ indicate flow.

2) At Time = 0415, TS 3.5.2, (HPI) CONDITION "A" __ (2) __ required to be entered.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 93
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Reactor in Mode 3
- Large Break LOCA occurs

Current conditions:

- EOP ICC tab in progress
- CETCs = 754°F increasing
- ALL RCP oil pot levels normal
- CC Total Flow = 550 gpm stable
- RCP Seal Injection flow = 40 gpm stable
- The TSC concurs with starting RCP(s)

- 1) The CETC readings on the ICCM/RVLIS display will be in __ (1) __ video.
- 2) The ICC tab __ (2) __ direct you to perform Encl 5.14, (Jumper Contacts for Bypassing RCP Motor Starting Interlocks) in order to start RCP(s).

Which ONE of the following completes the statements above?

- A. 1. normal
2. does
 - B. 1. normal
2. does NOT
 - C. 1. reverse
2. does
 - D. 1. reverse
2. does NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 94
(1 point)

Given the following plant conditions:

- Makeup to the Unit 1&2 SFP from 2A BHUT is desired

- 1) ___(1)___ is responsible for ensuring marked up prints are available in accordance with OMP 1-02, (Rules Of Practice).
- 2) A set of the marked up prints are required to be available in the ___(2)___.

Which ONE of the following completes the statements above?

- A.
 1. WCC SRO
 2. WCC AND the Control Room
 - B.
 1. Control Room SRO
 2. WCC AND the Control Room
 - C.
 1. WCC SRO
 2. WCC ONLY
 - D.
 1. Control Room SRO
 2. Control Room ONLY
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 95
(1 point)

In accordance with AD-EG-ALL-1132, (Preparation and Control of Design Change Engineering Changes):

- 1) An on-line temporary design change is required to have a plan that specifies removal of the change within __ (1) __ from installation.
- 2) The Operational Control Group (Operations) __ (2) __ responsible for maintaining a log of installed changes.

Which ONE of the following completes the statements above?

- A.
 1. thirty days
 2. is
 - B.
 1. thirty days
 2. is NOT
 - C.
 1. one year
 2. is
 - D.
 1. one year
 2. is NOT
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 96
(1 point)

Given the following Unit 1 conditions:

Time = 1200:

- Reactor power = 100%
- 1A HPI pump operating
- 1B HPI pump in AUTO

Time = 1202:

- A seal supply filter problem results in total Reactor Coolant Pump seal injection flow = 25 gpm

- 1) At Time = 1202, the 1B HPI pump is __ (1) __.
- 2) The low seal injection flow Auto Start of the 1B HPI pump __ (2) __ required to be operable for the 1B HPI pump to be OPERABLE in accordance with Tech Spec 3.5.2, (HPI) Bases.

Which ONE of the following completes the statements above?

ASSUME NO OPERATOR ACTIONS

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 97
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Mode 6
- Defueling in progress
- 1RIA-3, (Fuel Transfer Canal Monitor) = 4 mr/hr stable
- Main Fuel Bridge Area Monitor = 6 mr/hr stable

Current conditions:

- 1RIA-3 local reading = 0 mr/hr
- 1RIA-3 View Node indication is magenta

The Re-fueling SRO will determine that Fuel Handling activities in the Reactor Building may _____ in accordance with OP/1/A/1502/007, (Operations Defueling/Refueling Responsibilities).

Which ONE of the following completes the statement above?

- A. NOT continue until a portable area monitor with local alarm capability is in place
 - B. continue because only the Main Fuel Bridge Area Monitor is required
 - C. NOT continue until continuous RP coverage is present on the Main Fuel Bridge
 - D. continue provided 1RIA-49, (RB Normal Gas) is operable
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 98
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%
- An RCS leak develops
- AP/1/A/1700/002, (Excessive RCS Leakage) is initiated

Time = 0805:

- Reactor is tripped per guidance contained in AP/2
- RCS leakage is determined to be 170 gpm increasing

- 1) When in effect, the Emergency Coordinator __ (1) __ approve exceeding Emergency Dose Limits, (EDLs).
- 2) At time = 0805, EDLs __ (2) __ in effect.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 99
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- Turbine Building Flood in progress
- AP/1/A/1700/010, (Turbine Building Flood) initiated

- 1) The CRS will direct manually tripping the Reactor in accordance with __ (1) __.
- 2) Once the Reactor is tripped, the CRS will direct feeding the Steam Generators in accordance with __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. AP/10
 2. Rule 7
 - B.
 1. AP/10
 2. Turbine Building Flood tab
 - C.
 1. the EOP
 2. Rule 7
 - D.
 1. the EOP
 2. Turbine Building Flood tab
-

Oconee Nuclear Station

ILT 16-1 ONS SRO NRC Examination

Question: 100
(1 point)

Given the following Unit 3 conditions:

Time = 0400:

- The Emergency Plan has been entered due to Large Break LOCA

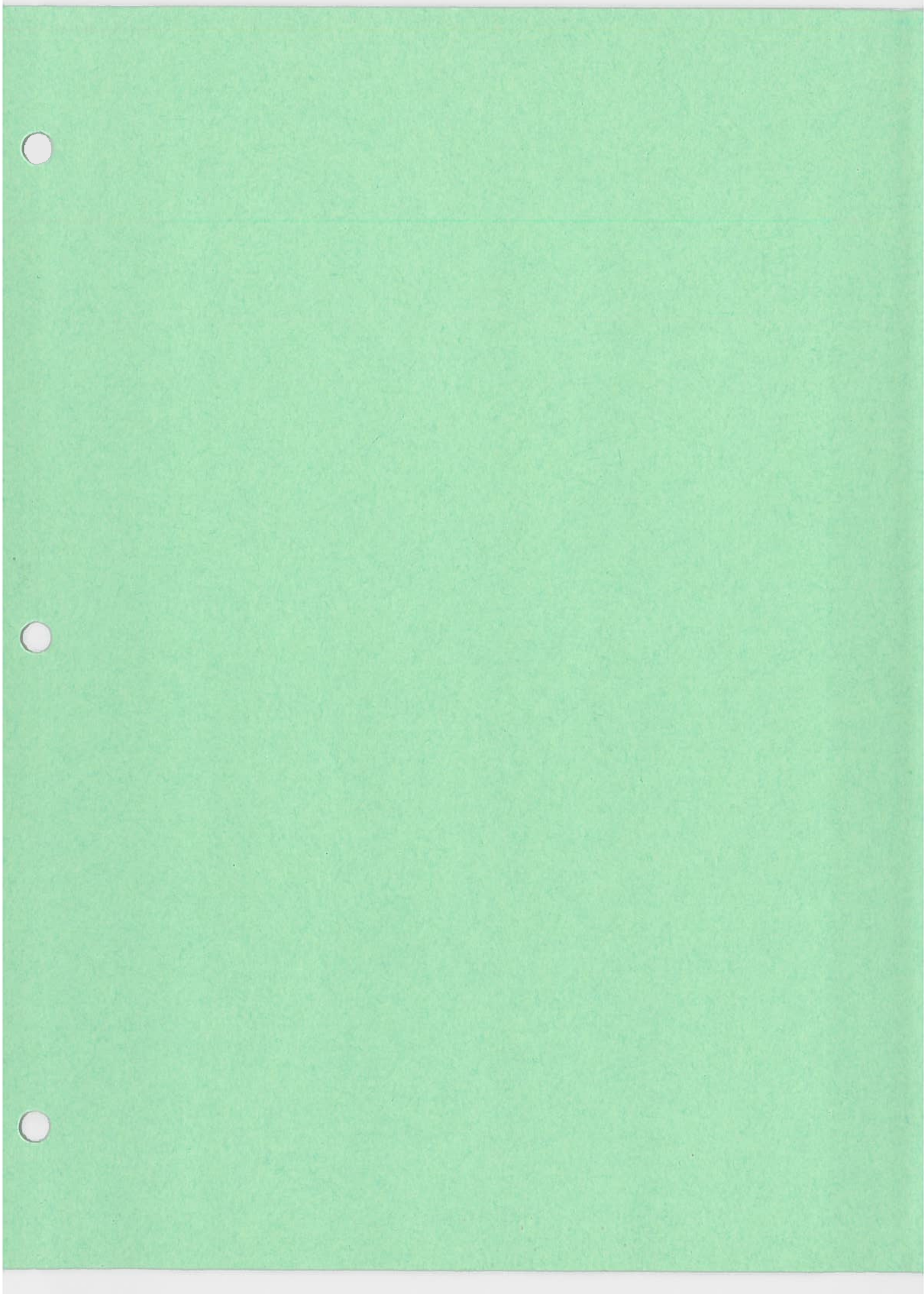
Time = 0455:

- The TSC is activated and turnover is complete

- 1) At Time = 0400, the NRC Communicator is required to be __ (1) __ in accordance with RP/0/A/1000/002, (Control Room Emergency Coordinator Procedure).
- 2) The LOWEST classification which ALWAYS requires a protective action recommendation on the initial notification is a __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. a licensed SRO ONLY
 2. Site Area Emergency
 - B.
 1. a licensed SRO ONLY
 2. General Emergency
 - C.
 1. any qualified on shift person
 2. Site Area Emergency
 - D.
 1. any qualified on shift person
 2. General Emergency
-



Examination KEY for: ILT 16-1 ONS SRO NRC Exa

<i>Question Number</i>	<i>Answer</i>
1	D
2	A
3	D
4	C
5	C
6	A
7	D
8	B
9	D
10	B
11	A
12	C
13	D
14	B
15	B
16	C
17	A
18	A
19	D
20	B
21	B
22	D
23	D
24	A
25	D

Examination KEY for: ILT 16-1 ONS SRO NRC Exa

<i>Question Number</i>	<i>Answer</i>
26	A
27	B
28	A
29	B
30	D
31	B
32	D
33	B
34	C
35	D
36	D
37	A
38	C
39	A
40	B
41	D
42	B
43	B
44	A
45	C
46	C
47	D
48	B
49	C
50	B

Examination KEY for: ILT 16-1 ONS SRO NRC Exa

<i>Question Number</i>	<i>Answer</i>
51	A
52	D
53	A
54	D
55	C
56	D
57	B
58	C
59	A
60	C
61	C
62	A
63	D
64	D
65	A
66	B
67	B
68	A
69	D
70	B
71	B
72	B
73	D
74	A
75	B

Examination KEY for: ILT 16-1 ONS SRO NRC Exa

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

ILT 16-1 NRC SRO Written Exam References

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Q. 38 - OAC P/T Display

Q. 46 - EOP Rule 7 Flow vs Decay Heat

Q. 84 - RP/0/A/1000/001

Q. 88 - Tech Spec 3.3.5

Q. 90 - RP/0/A/1000/001

Q. 92 - Tech Spec 3.5.2