

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 1
(1 point)

Given the following Unit 1 conditions:

- Reactor power =100%
- Statalarm 1SA-18/A-1 (Pressurizer Relief Valve Flow) alarms
- RCS pressure = 2200 psig lowering
- 1RC-66 indicates partially open
- 1RC-4 will NOT close from the control room

- 1) The procedure that will dispatch an operator to open 1DIB Breaker #24 is __ (1) __.
- 2) Opening 1DIB Breaker #24 will fail __ (2) __ closed.

Which ONE of the following completes the statements above?

- A. 1. AP/02 (Excessive RCS Leakage)
 2. 1RC-66
- B. 1. AP/44 (Abnormal Pressurizer Pressure Control)
 2. 1RC-66
- C. 1. AP/02 (Excessive RCS Leakage)
 2. 1RC-4
- D. 1. AP/44 (Abnormal Pressurizer Pressure Control)
 2. 1RC-4
-

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Question: 2
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- RCS pressure = 328 psig lowering
- RB pressure = 5 psig rising

1) __ (1) __ Reactor Building Spray pumps are operating.

2) __ (2) __ LPSW pumps are operating.

Which ONE of the following completes the statements above?

- A. 1. two
 2. three
 - B. 1. zero
 2. three
 - C. 1. two
 2. ONLY two
 - D. 1. zero
 2. ONLY two
-

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Question: 3
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 65%
- 1LPSW-6 (UNIT 1 RCP COOLERS SUPPLY) fails closed

Current conditions:

- AP/16 (Abnormal RCP Operation) in progress
- RCP Temperatures:

	<u>1A1</u>	<u>1A2</u>	<u>1B1</u>	<u>1B2</u>
MTR Upper Guide Bearing Temp (°F)	182	188	197	185
Upper Seal Housing Temp (°F)	174	195	186	184

Which ONE of the following is required per AP/16?

- A. Manually trip the Reactor and stop ALL RCPs
 - B. Manually trip the Reactor and stop RCPs 1A2 & 1B1 ONLY
 - C. Stop RCP 1A2 ONLY and verify FDW re-ratios properly
 - D. Stop RCP 1B1 ONLY and verify FDW re-ratios properly
-

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Question: 4
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- SASS in manual
- ICCM Train B is off-line for maintenance
- PZR Level Select Pushbutton #2 is selected on 1UB1
- 1SA-02/C-3 RC (PZR Level High/Low) Statalarm is in alarm
- 1SA-02/C-4 RC (PZR Level Emergency High/Low) Statalarm is in alarm
- PZR level #2 Dixon meter on 1UB1 is failed high
- Actual PZR level is 215 inches and lowering
- 1HP-120 (RC Volume Control) is in automatic and fully closed

Current conditions:

- AP/1/A/1700/014 (Loss of Normal HPI Makeup AND/OR RCP Seal Injection) has been initiated
- PZR Level is being controlled at 220 inches with 1HP-120 in HAND

- 1) A condition that would allow 1HP-120 to be placed back in AUTO would be selecting PZR Level Select Pushbutton # __ (1) __.
- 2) After the appropriate PZR Level Select Pushbutton is selected, the PZR Emergency High/Low Statalarm will __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. 3
 2. clear
 - B.
 1. 1
 2. clear
 - C.
 1. 3
 2. remain in alarm
 - D.
 1. 1
 2. remain in alarm
-

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Question: 5
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Mode 5
- LPI Cooler outlet = 120°F stable
- Low Range Cooldown pressure = 38 psig stable
- LPI in NORMAL DHR

Current conditions:

- Blackout occurs
- AP/1/A/1700/026 (Loss of Decay Heat Removal) initiated

- 1) AP/26 will direct isolation of the DHR drop line if CETCs approach a MINIMUM of ___(1)___ °F.
- 2) AP/26 ___(2)___ direct performance of EOP Enclosure 5.38 (Restoration of Power).

Which ONE of the following completes the statements above?

- A.
 1. 246
 2. does
 - B.
 1. 246
 2. does NOT
 - C.
 1. 325
 2. does
 - D.
 1. 325
 2. does NOT
-

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Question: 6
(1 point)

Given the following Unit 2 conditions:

- Reactor power = 100%
- 2A CC pump is operating with switch in the ON position
- 2B CC pump is OFF with switch in the AUTO position
- ES Channel 6 inadvertently actuates

1) __ (1) __ will have to be re-opened to restore the CC System to operation.

2) 2B CC pump __ (2) __ automatically start when the above valve is opened.

Which ONE of the following completes the statements above?

- A. 1. 2CC-7
 2. will
 - B. 1. 2CC-8
 2. will
 - C. 1. 2CC-7
 2. will NOT
 - D. 1. 2CC-8
 2. will NOT
-

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Question: 7

(1 point)

Consider the following two scenarios:

1. Reactor trips from 100% power. Pressurizer level lowers off-scale low during the initial cooldown then returns on-scale. Lowest Subcooling margin indication during the transient = 18°F. Pressurizer level is returned to 100 inches, RCS pressure = 2100 psig, and Pressurizer temperature = 635°F.
2. From an initial Reactor power of 100%, ICS MAX Runback is used to lower power to 80% to stop the 1D2 HDP. Pressurizer level remains approximately 220 inches during the runback and when the runback is stopped, RCS pressure = 2100 psig and Pressurizer temperature = 643°F.

If ALL Pressurizer heaters are energized and Pressurizer level is maintained constant, which ONE of the following describes the response of the two scenarios if attempting to raise RCS pressure to 2200 psig and the reason for the response?

- A. Scenario # 2 will reach 2200 psig first since the Pressurizer in Scenario #1 is subcooled.
 - B. Scenario # 1 will reach 2200 psig first since Pressurizer level is lower and therefore less heat is required to raise the temperature of the water.
 - C. Both scenarios would reach 2200 psig at approximately the same time since starting pressure is equal in both scenarios.
 - D. Neither scenario would reach 2200 psig since the spray valve will overcome the RCS pressure rise even with ALL Pressurizer heaters energized.
-

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Question: 8
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- RCS pressure = 2360 psig rising

Current conditions:

- Reactor power = 7% lowering

- 1) With Reactor power lowering, the MINIMUM power level at which Rule 1 (ATWS/UNPP) is required to be performed to address Emergency Boration is ___(1)___ percent.
- 2) The reason this power level is chosen is so the Boron will reduce Reactor power to ___(2)___.

Which ONE of the following completes the statements above?

- A.
 1. 5
 2. below the point of adding heat
 - B.
 1. 5
 2. within the capacity of the EFDW system
 - C.
 1. 1
 2. below the point of adding heat
 - D.
 1. 1
 2. within the capacity of the EFDW system
-

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Question: 9
(1 point)

Given the following Unit 1 conditions:

Time = 1000:

- Reactor trips
- RB pressure = 2.8 psig
- RCS pressure = 2015 psig
- Tcold = 555°F

Time = 1001:

- RB pressure = 9.4 psig
- RCS pressure = 1356 psig
- Tcold = 520°F

- 1) The event causing the indications above is a __ (1) __.
- 2) At Time = 1000, degraded containment conditions __ (2) __ exist.

Which ONE of the following completes the statements above?

- A.
 1. LOCA
 2. do
 - B.
 1. LOCA
 2. do NOT
 - C.
 1. Steam line break
 2. do
 - D.
 1. Steam line break
 2. do NOT
-

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Question: 10
(1 point)

Given the following Unit 2 conditions:

- Reactor trip from 100% power
- 2FDW-33 (2A SU FDW Block) FAILS closed

The expected Steam Generator level 20 minutes after the trip for...

1) 2A SG is __ (1) __.

2) 2B SG is __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. 12 inches SUR
 2. 25 inches SUR
 - B. 1. 25 inches SUR
 2. 25 inches SUR
 - C. 1. 30 inches XSUR
 2. 30 inches XSUR
 - D. 1. 12 inches XSUR
 2. 30 inches SUR
-

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Question: 11
(1 point)

Given the following Unit 1 conditions:

- Blackout tab in progress
- SSF RCMU pump operating
- Unit 1 TD EFDW pump maintaining SG levels at setpoint
- Management has determined that a Natural Circulation cooldown is required

In accordance with the Blackout tab...

- 1) PSW power __(1)__ be aligned to HPI.
- 2) The MAXIMUM cooldown rate allowed is __(2)__ °F per half hour.

Which ONE of the following completes the statements above?

- A. 1. will
 2. 25
 - B. 1. will NOT
 2. 25
 - C. 1. will
 2. 50
 - D. 1. will NOT
 2. 50
-

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Question: 12
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- Loss of offsite power occurs

Current conditions:

- Main Feeder Buses remain de-energized

1) 1MS-112 (SSRH Control) position is __ (1) __.

2) 1MS-77 (MS to MSRH) __ (2) __ be operated from its control room switch.

Which ONE of the following completes the statements above?

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

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Question: 13
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- A loss of both MFDW pumps occurs from 100% power
- Rule 3 (Loss of Main or Emergency FDW) is in progress
- 1FDW-315 and 1FDW-316 are maintaining SG levels at 30 inches XSUR

Current conditions:

- 1KVIC is de-energized

Assuming NO additional operator actions, which ONE of the following will be directed by the EOP and why?

- A. Take manual control of 1FDW-315 since its Moore controller will automatically swap to its alternate power supply
 - B. Take manual control of 1FDW-316 since its Moore controller will automatically swap to its alternate power supply
 - C. Feed the 1A SG through 1FDW-35 (1A STARTUP FDW CONTROL) since 1FDW-315 will fail open
 - D. Feed the 1B SG through 1FDW-44 (1B STARTUP FDW CONTROL) since 1FDW-316 will fail open
-

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Question: 14
(1 point)

Given the following plant conditions:

- 1CA Battery Charger fails - output voltage = 0 VDC
- 1CA Battery voltage = 124 VDC
- 1DCB Bus voltage = 123 VDC
- Unit 2 DCA/DCB Bus voltage = 126 VDC
- Unit 3 DCA/DCB Bus voltage = 127 VDC

Which ONE of the following will be supplying power to 1DIA panelboard?

- A. 1DCB Bus
 - B. 1CA Battery
 - C. Unit 2 DC Bus
 - D. Unit 3 DC Bus
-

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Question: 15
(1 point)

Given the following plant conditions:

Initial conditions:

- Unit 1 at 100% power
- Unit 2 in Mode 5 with LPI in Normal DHR
- 'A' LPSW pump trips
- Standby LPSW pump fails to start

Current conditions:

- AP/1/A/1700/024 (Loss of LPSW) initiated
- LPSW to Unit 2 LPI Coolers is being reduced IAW Enclosure 5.2 (LPSW System Loads)

- 1) The Dixon flow gauges for LPSW flow to Unit 2 LPI Coolers __ (1) __ supplied by Post Accident Monitoring (PAM) instruments.
- 2) As LPSW pressure lowers, LPSW to RBCUs will automatically isolate at a MAXIMUM LPSW header pressure of __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. are
 2. 18
 - B. 1. are NOT
 2. 18
 - C. 1. are
 2. 25
 - D. 1. are NOT
 2. 25
-

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Question: 16
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- IA Header pressure = 25 psig lowering
- Aux IA Header pressure = 100 psig stable
- Letdown temperature = 131°F stable

1HP-5 is __(1)__ because __(2)__.

Which ONE of the following completes the statement above?

- A. 1. open
 2. it is backed up by Aux IA
 - B. 1. open
 2. it is backed up by Nitrogen
 - C. 1. closed
 2. IA Header pressure is low
 - D. 1. closed
 2. it closed on high Letdown temperature
-

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Question: 17
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 80%
- AP/1/A/1700/034 (Degraded Grid) has been entered
- Generator output voltage = 18.4 KV lowering

- 1) As voltage lowers, pump motor current will __(1)__.
- 2) Switchyard Isolation circuitry ensures RCPs are de-energized by providing a trip signal to the __(2)__.

Which ONE of the following completes the statements above?

- A.
 1. rise
 2. individual 6.9KV RCP breakers
 - B.
 1. rise
 2. 1TA and 1TB SU 6.9KV FDR breakers
 - C.
 1. lower
 2. individual 6.9KV RCP breakers
 - D.
 1. lower
 2. 1TA and 1TB SU 6.9KV FDR breakers
-

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Question: 18
(1 point)

Given the following Unit 1 conditions:

Time = 1200:

- Reactor trips from 100% power due to a 1A Main Steam Line Break
- BOTH 1A and 1B SG pressures rapidly lowering
- Core SCM = 0°F

Time = 1204:

- Tcold reaches lowest value of 416°F

Time = 1215:

- Tcold = 498°F stable
- Core SCM = 78°F stable
- Rule 2 (Loss of SCM) is complete

- 1) __ (1) __ was the EOP tab that was required to be entered first from Subsequent Actions.
- 2) Rule 8 (Pressurized Thermal Shock) __ (2) __ required to be invoked.

Which ONE of the following completes the statements above?

- A.
 1. Loss of SCM
 2. is NOT
 - B.
 1. Loss of SCM
 2. is
 - C.
 1. Excessive Heat Transfer
 2. is NOT
 - D.
 1. Excessive Heat Transfer
 2. is
-

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Question: 19
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 90%
- Controlling Tave fails LOW
- Plant Transient Response is performed
- Appropriate ICS stations are placed in MANUAL

1) Prior to placing ICS in manual, feedwater flow will __(1)__ due to the failure.

2) Control rods are moved to __(2)__.

Which ONE of the following completes the statements above?

- A. 1. lower
 2. the pre-transient rod height
 - B. 1. lower
 2. match current feedwater demand
 - C. 1. rise
 2. the pre-transient rod height
 - D. 1. rise
 2. match current feedwater demand
-

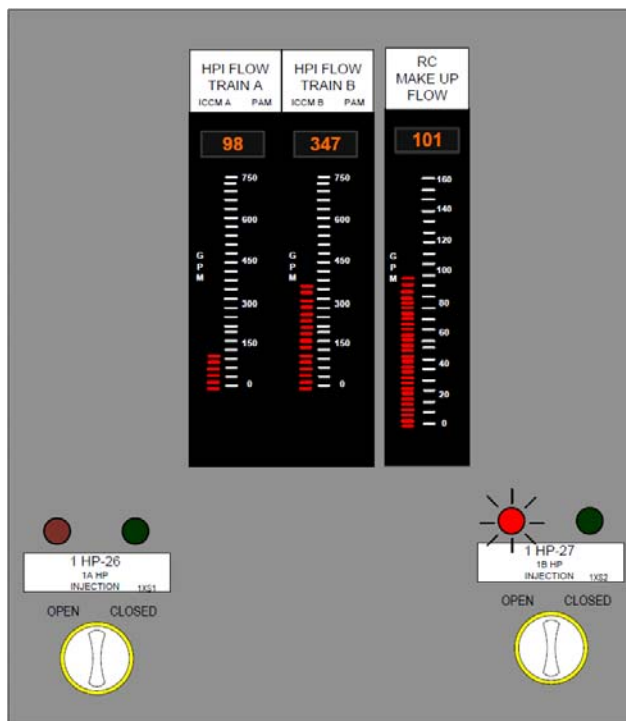
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Question: 20
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 40% slowly lowering
- Rule 1 (ATWS/UNPP) in progress
- 1HP-24 and 1HP-25 are OPEN
- 1A and 1C HPI pumps operating
- When 1HP-26 switch was rotated to the OPEN position, both of its position indicator lights went dark
- HPI flow and valve indications are as indicated below



Which ONE of the following actions is directed next in accordance with Rule 1?

- A. Open 1HP-410
 - B. Open 1HP-409
 - C. Start the 1B HPI pump
 - D. Dispatch operator to open CRD breakers
-

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Question: 21
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Reactor power = 100%
- OAC is out of service

Current conditions:

- Power Range channel 3NI-5 begins to drift low and is removed from service for calibration

Which ONE of the following describes the instrumentation used to determine Quadrant Power Tilt in accordance with OP/3/A/1105/014 (Control Room Instrumentation Operation and Information)?

- A. Incore Detectors
 - B. Backup Incore Detectors
 - C. The three operable PR NI channels
 - D. Quadrant power tilt cannot be determined
-

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Question: 22
(1 point)

Given the following Unit 1 conditions:

- Fire in the turbine building
- Reactor has been manually tripped
- All Main and Emergency feedwater is unavailable
- SSF-ASW aligned per AP/0/A/1700/025 (SSF Operating Procedure)

- 1) The MAXIMUM RCS pressure maintained with SSF-ASW in accordance with AP/25 is __ (1) __ psig.
- 2) The reason for the maximum RCS pressure is to __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. 2355
 2. minimize RCS inventory loss via the PORV and Safety Relief valves
 - B.
 1. 2355
 2. maximize Delta P across RCP seals to raise RCMUP seal injection
 - C.
 1. 2250
 2. minimize RCS inventory loss via the PORV and Safety Relief valves
 - D.
 1. 2250
 2. maximize Delta P across RCP seals to raise RCMUP seal injection
-

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Question: 23
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%
- Auxiliary Steam header is being supplied by Unit 2
- LOCA occurs

Time = 0804:

- Transition to the ICC tab is made
- The step to reduce SG pressure is initiated
- Unit 1 TDEFDW pump is the ONLY EFDW pump operating

In accordance with the Inadequate Core Cooling (ICC) tab...

- 1) SGs (1) be fully depressurized.
- 2) The MAXIMUM allowable EFDW flow rate is (2) gpm.

Which ONE of the following completes the statements above?

- A. 1. will
 2. 950
 - B. 1. will
 2. 1000
 - C. 1. will NOT
 2. 950
 - D. 1. will NOT
 2. 1000
-

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Question: 24
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%

Which ONE of the following will result in an AUTOMATIC trip of the Main Turbine?

- A. Condenser vacuum = 22 inches Hg
 - B. Oil Fire occurs in Front Standard of Turbine-Generator
 - C. 84 psig hydraulic oil pressure on BOTH Main Feedwater pumps
 - D. 740 psig discharge pressure on BOTH Main Feedwater pumps
-

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Question: 25
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor in MODE 6
- LPI aligned in NORMAL Mode
- Refueling in progress
- 1B LPI pump tagged out

Current conditions:

- PZR level begins lowering

- 1) In accordance with OP/1/A/1104/004 (LPI System), the __ (1) __ LPI pump will be in operation.
- 2) In accordance with AP/1/A/1700/026 (Loss of Decay Heat Removal), Refueling SRO permission __ (2) __ required in order to secure ALL LPI pumps in an effort to identify the leak location.

Which ONE of the following completes the statements above?

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

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Question: 26
(1 point)

Given the following Unit 1 conditions:

- A Small Break LOCA has occurred
- LOCA CD tab in progress
- 1A LPI pump operating in the Piggyback alignment

Which ONE of the following describes the:

- 1) operational limitations on the operating LPI pump provided by the LOCA CD tab?
- 2) pump(s) being protected by the above limitation?

- A.
 1. Maximized to < 2900 gpm
 2. LPI
 - B.
 1. Maximized to < 2900 gpm
 2. HPI
 - C.
 1. Maximized to < 3100 gpm
 2. LPI
 - D.
 1. Maximized to < 3100 gpm
 2. HPI
-

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Question: 27
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- Small Break LOCA occurs

Current conditions:

- EOP Enclosure 5.12 (ECCS Suction Swap to RBES) in progress
- HPI piggyback aligned to RBES
- 1B LPI pump operating
- 1LP-15 failed closed
- 1LP-16 open

- 1) The MAXIMUM allowable total HPI flow is __ (1) __ gpm.
- 2) The basis for the above HPI flow limit is __ (2) __ concerns.

Which ONE of the following completes the statements above?

- A. 1. 750
 2. NPSH
 - B. 1. 750
 2. runout
 - C. 1. 950
 2. NPSH
 - D. 1. 950
 2. runout
-

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Question: 28
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100% stable
- 1A1 RCP trips

- 1) The plant will automatically run back at __ (1) __ percent per minute.
- 2) The PZR spray line __ (2) __ on the discharge of 1A1 RCP.

Which ONE of the following completes the statements above?

- A. 1. 20
 2. is
 - B. 1. 20
 2. is NOT
 - C. 1. 25
 2. is
 - D. 1. 25
 2. is NOT
-

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Question: 29
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- 1A2 RCP upper seal completely fails
- AP/1/A/1700/016 (Abnormal Reactor Coolant Pump Operation) initiated

- 1) Seal return flow will __(1)__.
- 2) EOP Enclosure 5.5 (Pzr and LDST Level Control) __(2)__ be initiated without SRO concurrence.

Which ONE of the following completes the statements above?

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

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Question: 30
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- BOTH Main Feedwater pumps trip
- Reactor power = 60% lowering
- Letdown is maximized in accordance with UNPP (Unanticipated Nuclear Power Production) tab of the EOP

- 1) The reason letdown is maximized is to __ (1) __.
- 2) The UNPP tab __ (2) __ direct starting the standby CC pump prior to maximizing Letdown flow.

Which ONE of the following completes the statements above?

- A.
 1. offset RCS expansion caused by heatup and emergency boration
 2. will
 - B.
 1. offset RCS expansion caused by heatup and emergency boration
 2. will NOT
 - C.
 1. raise flow through the purification IXs due to the possibility of failed fuel
 2. will
 - D.
 1. raise flow through the purification IXs due to the possibility of failed fuel
 2. will NOT
-

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Question: 31
(1 point)

Given the following Unit 2 conditions:

- Reactor in MODE 5
- LPI in normal decay removal

In accordance with OP/2/A/1104/004 (Low Pressure Injection System)...

- 1) The MINIMUM allowable flow per LPI pump for unrestricted operation is __ (1) __ gpm.
- 2) If operated below the minimum flow rate the associated LPI pump __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. 800
 2. can remain running
 - B.
 1. 800
 2. must be stopped immediately
 - C.
 1. 170
 2. can remain running
 - D.
 1. 170
 2. must be stopped immediately
-

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Question: 32
(1 point)

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

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

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Question: 33
(1 point)

Given the following Unit 3 conditions:

Time = 0400:

- Reactor trip from 100% power due to a LOCA

Time = 0430:

- RCS pressure = 45 psig slowly lowering
- 3LP-17 failed CLOSED

- 1) The actual RCS pressure setpoint that will cause the LPI pumps to start in the ES mode is __(1)__ psig.
- 2) At Time = 0430, LPI flow __(2)__ enter the core through BOTH LPI/CFT nozzles.

Which ONE of the following completes the statements above?

- A.
 1. 500
 2. will
 - B.
 1. 550
 2. will
 - C.
 1. 500
 2. will NOT
 - D.
 1. 550
 2. will NOT
-

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Question: 34
(1 point)

Which ONE of the following is the power supply for 1CF-1 (1A CFT Outlet)?

- A. 1XA
 - B. 1XC
 - C. 1XL
 - D. 1XO
-

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Question: 35
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- 1RC-66 (PORV) begins leaking past its seat
- Pressurizer temperature = 648°F
- Quench tank pressure = 15 psig

- 1) Initially Quench Tank pressure will __(1)__.
2) The expected tailpipe temperature downstream of 1RC-66 will be __(2)°F.

Which ONE of the following completes the statements above?

- A. 1. rise
 2. 212
- B. 1. rise
 2. 250
- C. 1. remain approximately the same
 2. 212
- D. 1. remain approximately the same
 2. 250
-

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ILT 18-1 ONS RO NRC Examination

Question: 36
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- CC Surge Tank level is lowering at a constant rate
- CC pump discharge pressure and flow are cycling

In accordance with AP/1/A/1700/020 (Loss of Component Cooling)...

- 1) Letdown __ (1) __ be isolated.
- 2) The Reactor will be shutdown utilizing __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. will
 2. manual Reactor trip
 - B. 1. will
 2. AP/1/A/1700/029 (Rapid Unit Shutdown)
 - C. 1. will NOT
 2. manual Reactor trip
 - D. 1. will NOT
 2. AP/1/A/1700/029 (Rapid Unit Shutdown)
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 37
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- RCS pressure = 2078 psig lowering
- Pressurizer level = 248 inches rising
- 1SA-18/A-1 (Pressurizer Relief Valve Flow) actuated
- ALL 1RC-66 flow monitor red lights are illuminated

1) **If NO operator actions are taken**, a Reactor Protection System (RPS) __ (1) __ Pressure trip will actuate FIRST to insert control rods.

2) AP/1/A/1700/044 (Abnormal Pressurizer Pressure Control) Immediate Manual Actions will direct the operator to __ (2) __.

- A. 1. Low
 2. close 1RC-4
- B. 1. Variable Low
 2. close 1RC-4
- C. 1. Low
 2. manually trip the Reactor
- D. 1. Variable Low
 2. manually trip the Reactor
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 38
(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Reactor power = 100%
- Switchyard Isolation occurs

Current Conditions:

- Natural Circulation established
- RCS pressure = 2155 psig
- Tcold = 550°F stable
- Pressurizer level = 220 inches stable
- Pressurizer temperature = 628°F

1) The Pressurizer is __ (1) __.

2) Pressurizer Heater Bank #2 (Groups B & D) heaters are __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. subcooled
 2. energized
 - B. 1. saturated
 2. energized
 - C. 1. subcooled
 2. NOT energized
 - D. 1. saturated
 2. NOT energized
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 39
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 75%
- Main Feedwater transient is in progress

Which ONE of the following combinations of Statalarms from 1SA-1 could indicate an AUTOMATIC reactor trip has occurred due to LOW RCS PRESSURE?

A.

CRD TRIP BKR A TRIP	CRD TRIP BKR B TRIP	CRD TRIP BKR C TRIP	CRD TRIP BKR D TRIP	CRD ELECTRONIC TRIP E	CRD ELECTRONIC TRIP F
---------------------------	---------------------------	---------------------------	---------------------------	-----------------------------	-----------------------------

B.

CRD TRIP BKR A TRIP	CRD TRIP BKR B TRIP	CRD TRIP BKR C TRIP	CRD TRIP BKR D TRIP	CRD ELECTRONIC TRIP E	CRD ELECTRONIC TRIP F
---------------------------	---------------------------	---------------------------	---------------------------	-----------------------------	-----------------------------

C.

CRD TRIP BKR A TRIP	CRD TRIP BKR B TRIP	CRD TRIP BKR C TRIP	CRD TRIP BKR D TRIP	CRD ELECTRONIC TRIP E	CRD ELECTRONIC TRIP F
---------------------------	---------------------------	---------------------------	---------------------------	-----------------------------	-----------------------------

D.

CRD TRIP BKR A TRIP	CRD TRIP BKR B TRIP	CRD TRIP BKR C TRIP	CRD TRIP BKR D TRIP	CRD ELECTRONIC TRIP E	CRD ELECTRONIC TRIP F
---------------------------	---------------------------	---------------------------	---------------------------	-----------------------------	-----------------------------

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 40
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- 1A RPS channel in MANUAL BYPASS for testing

- 1) Tech Spec 3.3.1 (RPS Instrumentation) action statements __ (1) __ required to be performed.
- 2) One Manual Bypass key is available for use on each __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. are
 2. unit
 - B.
 1. are
 2. channel
 - C.
 1. are NOT
 2. unit
 - D.
 1. are NOT
 2. channel
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 41
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- Large Break LOCA occurs
- 1XS4 MCC de-energized
- 1A RBS pump will NOT start

1) The RBS system __(1)__ be able to perform its Safety Function.

2) One of the purposes of the RBS system during a Large Break LOCA is to __(2)__.

Which ONE of the following completes the statements above?

- A. 1. will
 2. entrain Iodine thus reducing offsite dose
- B. 1. will
 2. minimize Hydrogen production due to Zirc water reaction
- C. 1. will NOT
 2. entrain Iodine thus reducing offsite dose
- D. 1. will NOT
 2. minimize Hydrogen production due to Zirc water reaction
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 42
(1 point)

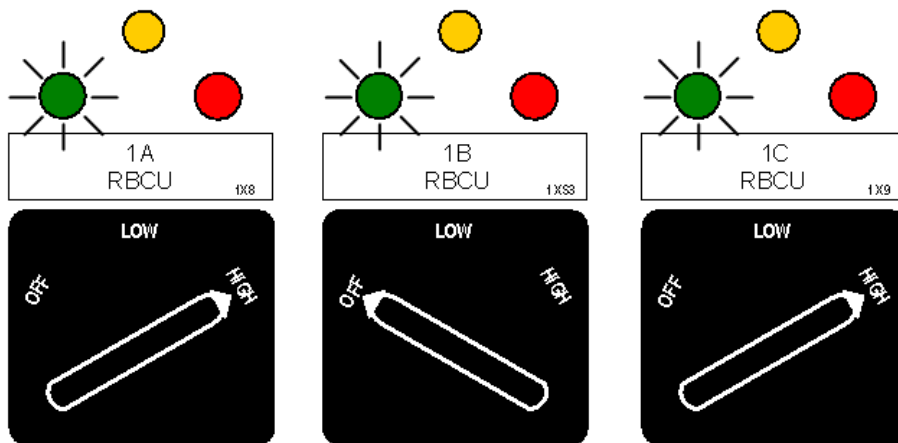
Given the following Unit 1 conditions:

Time = 0800:

- Large Break LOCA occurs
- ES channels 1-8 actuate

Time = 0802:

- Component status is pictured below:



- 1) At Time = 0802, the Reactor Building Cooling Units (1) functioning as designed.
- 2) 1LPSW-18 will receive a signal to open from ES Channel (2).

Which ONE of the following completes the statements above?

1. are
2. 3
1. are
2. 5
1. are NOT
2. 3
1. are NOT
2. 5

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 43
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- Reactor Building average temperature = 120°F stable
- RBCU status is as follows:
 - 1A RBCU = High Speed
 - 1B RBCU = High Speed
 - 1C RBCU = High Speed

Current conditions:

- 1A, 1B, and 1C RBCU fans being tested in ES position

- 1) Reactor Building pressure will ____(1)___.
- 2) TS 3.6.4 (Containment Pressure) limit for Reactor Building high pressure is less than or equal to ____(2)___ psig.

Which ONE of the following completes the statements above?

- A.
 1. stay the same
 2. + 1.2
 - B.
 1. stay the same
 2. + 2.45
 - C.
 1. rise
 2. + 1.2
 - D.
 1. rise
 2. + 2.45
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 44
(1 point)

Which ONE of the following consists of ONLY components powered from the 1TD ES power string?

- A. 1A RBS pump and 1B RBCU
 - B. 1A RBS pump and 1C RBCU
 - C. 1B RBS pump and 1B RBCU
 - D. 1B RBS pump and 1C RBCU
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 45
(1 point)

Given the following Unit 2 conditions:

- Reactor trip from 100% power
- Controlling 2A Steam Generator Outlet Pressure fails HIGH

1) 2A TBVs will fully open ____(1)___.

2) 2B TBVs will fully open ____(2)___.

Which ONE of the following completes the statements above?

- A. 1. and remain fully open
 2. and remain fully open
 - B. 1. and remain fully open
 2. then return to throttled position
 - C. 1. then return to throttled position
 2. and remain fully open
 - D. 1. then return to throttled position
 2. then return to throttled position
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 46
(1 point)

Given the following Unit 3 conditions:

Time = 1200:

- Reactor power = 100%
- 3A MD EFDWP switch in "AUTO 1" for testing
- 3B MD EFDWP switch in "AUTO 2"

Time = 1201:

- BOTH Main Feedwater pumps trip
- 3MS-87 (MS to TD EFDWP Control) fails closed

At Time = 1202, which ONE of the following describes ALL Emergency Feedwater Pumps operating?

NO OPERATOR ACTIONS ARE TAKEN

- A. 3A MD EFDWP only
 - B. 3B MD EFDWP only
 - C. TD EFDWP and 3A MD EFDWP
 - D. TD EFDWP and 3B MD EFDWP
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 47
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor tripped due to loss of Main FDW pumps
- 1A and 1B MD EFDW pumps are operating

Current conditions:

- 1FDW-315 failed closed due to controller malfunction

1) Minimum flow provided by __ (1) __ protects the 1A MD EFDW pump from damage due to dead-heading.

2) The 1A MD EFDW pump recirculation flow path will be to the __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. recirculation orifices
 2. Hotwell
 - B. 1. recirculation orifices
 2. Upper Surge Tank
 - C. 1. an automatic recirculation control valve
 2. Hotwell
 - D. 1. an automatic recirculation control valve
 2. Upper Surge Tank
-

Oconee Nuclear Station

ILT 18-1 ONS RO 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 CENTRAL position

Which ONE of the following will cause the SL Breakers to open?

- A. Lockout of CT-4 Transformer
 - B. Undervoltage on EITHER Standby Bus 1 or Standby Bus 2
 - C. The 1st level 100KV Degraded Voltage Relay has been satisfied ONLY
 - D. The 1st level 100KV Degraded Voltage Relay has been satisfied for 9 seconds AND the 2nd level 100KV Degraded Voltage Relay is now satisfied
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 49
(1 point)

Given the following Unit 2 conditions:

- 2A HPI pump breaker in TEST position
- Control power fuses installed

- 1) The primary breaker connection __ (1) __ connected to the bus.
- 2) The breaker can be operated __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. is
 2. locally ONLY
 - B. 1. is
 2. locally OR remotely
 - C. 1. is NOT
 2. locally ONLY
 - D. 1. is NOT
 2. locally OR remotely
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 50
(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 is located on __(2)___.

Which ONE of the following completes the statements above?

1. isolate the battery from the Bus
2. any Unit
 1. isolate the battery from the Bus
2. Unit 1 ONLY
 1. rotate the Ground Relay Selector Switch
2. any Unit
 1. rotate the Ground Relay Selector Switch
2. Unit 1 ONLY
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 51
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Reactor power = 40%
- Loop B FDW valve ΔP selected to 3B2

Current conditions:

- 3B2 Loop B FDW valve ΔP fails LOW

1) Feedwater flow will initially __(1)___.

2) AP/3/A/1700/028 (ICS Instrument Failures) will ensure BOTH __(2)___ are in HAND to stabilize the plant.

Which ONE of the following completes the statements above?

- A. 1. rise
 2. FDW Masters
 - B. 1. rise
 2. Main FDW Pumps
 - C. 1. lower
 2. FDW Masters
 - D. 1. lower
 2. Main FDW Pumps
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 52
(1 point)

Given the following plant conditions:

Time = 1200

- Spent Fuel Pool level = 0.1 foot stable

Time = 1215

- AP/1-2/A/1700/035 (Loss of SFP Cooling and/or Level) in progress
- Spent Fuel Pool level = (–) 3.4 feet lowering
- 1RIA-6 (Spent Fuel Pool Area Monitor) in HIGH alarm
- 1RIA-41 (Spent Fuel Pool Building Gas) in HIGH alarm

Time = 1216

- An AO is being dispatched to the SFP area to investigate the cause
- The AO's dose for this year is 525 mrem
- The AO has NOT received a dose extension for this year

Which ONE of the following is the MAXIMUM TEDE dose (mrem) allowed for the AO while performing the assigned task?

- A. 1,475
 - B. 4,475
 - C. 5,000
 - D. 10,000
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 53
(1 point)

During normal operation of the CC system...

- 1) CC flow through each letdown cooler is maintained at __ (1) __ gpm.
- 2) If letdown flow were raised, CC outlet temperature on the in-service CC cooler would be maintained by __ (2) __ operation of the associated LPSW valve.

Which ONE of the following completes the statements above?

- A. 1. 200 gpm
 2. manual
 - B. 1. 400 gpm
 2. manual
 - C. 1. 200 gpm
 2. automatic
 - D. 1. 400 gpm
 2. automatic
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 54
(1 point)

Given the following Unit 1 conditions:

- Instrument Air pressure = 100 psig lowering

- 1) The SETPOINT to start a Backup Instrument Air Compressor in "STD-BY 1" is __ (1) __ psig.
- 2) The MINIMUM discharge temperature which will result in the automatic shutdown of a running Backup Instrument Air Compressor in accordance with the Limits and Precautions of OP/0/A/1106/027 (Instrument Air System) is __ (2) __°F.

Which ONE of the following completes the statements above?

- A.
 1. 90
 2. 380
 - B.
 1. 90
 2. 425
 - C.
 1. 93
 2. 380
 - D.
 1. 93
 2. 425
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 55
(1 point)

Given the following Unit 1 conditions:

Time = 0805

- Reactor in MODE 6
- Fuel offload is in progress
- Reactor Building Normal Sump (RBNS) is being pumped
- A fuel assembly is dropped

Time = 0809

- A High Radiation Annunciator in the Control Room alarms
- The Reactor Building Normal Sump has failed to isolate
- AP/1/A/1700/009 (Spent Fuel Damage) is initiated

- 1) 1RIA __ (1) __ in HIGH alarm should have caused the RBNS isolation.
- 2) If the RB Normal sump isolation valves are the last open penetrations to be closed and are closed at 0830, the criteria for isolating open penetrations per AP/09 __ (2) __ been met.

Which ONE of the following completes the statements above?

- A.
 1. 4 (Reactor Building Entrance)
 2. has
 - B.
 1. 49 (RB Gas)
 2. has
 - C.
 1. 4 (Reactor Building Entrance)
 2. has NOT
 - D.
 1. 49 (RB Gas)
 2. has NOT
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 56

(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Time = 0800
- Unit startup is in progress
- RCS temperature = 532°F stable
- RCS pressure = 2155 psig stable
- TBVs are in AUTO
- The OATC is preparing to reset the CRD breakers to pull Group 1 control rods to 50% in accordance with OP/1/A/1105/019 (Control Rod Drive System) Encl 4.1 (Resetting CRD Breakers)

Current conditions:

- Time = 0805
- Statalarm 1SA-02/B-12 (ICS Hand Power Failure) actuates

- 1) At Time = 0800, if the CRD breakers are reset with the TBVs in AUTO, Steam Generator pressure will __(1)__.
- 2) At Time = 0805, the TBVs are operable in __(2)__.

Which ONE of the following completes the statements above?

- A.
 1. lower
 2. AUTO only
 - B.
 1. lower
 2. AUTO or HAND
 - C.
 1. remain the same
 2. AUTO only
 - D.
 1. remain the same
 2. AUTO or HAND
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 57
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Mode 6
- Reactor Vessel head is removed
- 3LT-5A (Rx Vessel Level 3A) = 28 inches stable
- 3LT-5B (Rx Vessel Level 3B) = 28 inches stable

Current conditions:

- 3LT-5A ΔP cell diaphragm ruptures

1) 3LT-5A indication will __(1)___.

2) 3LT-5A and 3LT-5B level transmitters __(2)___ use the same cold leg tap.

Which ONE of the following completes the statements above?

- A. 1. lower
 2. do
 - B. 1. lower
 2. do NOT
 - C. 1. rise
 2. do
 - D. 1. rise
 2. do NOT
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 58
(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Mode 2
- 2NI-3 Source Range detector inoperable

Current conditions

- 2NI-2 Source Range detector gamma compensation circuit fails LOW
- 2NI-2 Source Range detector is declared inoperable

- 1) 2NI-2 will indicate __(1)__ than actual power.
- 2) Required Actions of TS 3.3.9 (Source Range Neutron Flux) __(2)__ required to be performed.

Which ONE of the following completes the statements above?

- A. 1. lower
 2. are
 - B. 1. lower
 2. are NOT
 - C. 1. higher
 2. are
 - D. 1. higher
 2. are NOT
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 59
(1 point)

1) __ (1) __ HPI pump is powered from 3TC Switchgear.

2) __ (2) __ HPI pump is powered from 3TD Switchgear.

Which ONE of the following completes the statements above?

A. 1. 3A

2. 3B

B. 1. 3A

2. 3C

C. 1. 3B

2. 3A

D. 1. 3B

2. 3C

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 60
(1 point)

Given the following Unit 2 conditions:

- Unit is in MODE 6
- Fuel Transfer Canal is full
- RB Equipment Hatch is closed
- 2SF-1 and 2SF-2 are open
- RB Purge is in operation

1) __ (1) __ will trip the Main Purge Fan.

2) If the RB Main Purge fan trips, Fuel Transfer Canal level will __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. 2PR-3 traveling closed
 2. lower
 - B. 1. Suction piping vacuum = 14 inches H₂O
 2. lower
 - C. 1. 2PR-3 traveling closed
 2. rise
 - D. 1. Suction piping vacuum = 14 inches H₂O
 2. rise
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 61
(1 point)

Given the following Unit 3 conditions:

Time = 0800:

- Unit 3 SFP level = (–) 0.1 feet lowering
- Unit 3 CRS enters AP/3/A/1700/035 (Loss of SFP Cooling and/or Level)

Time = 0805:

- Unit 3 CRS directs the BOP to continue actions in AP/35
- Unit 3 SFP level = (–) 0.2 feet lowering

Time = 0810:

- 3A and 3B Main FDW pumps trip
- Unit 3 SFP level = (–) 0.3 feet lowering

1) At Time = 0810, the BOP will __ (1) __.

2) AP/35 directs starting __ (2) __ Spent Fuel Filtered Exhaust Fan(s).

Which ONE of the following completes the statements above?

- A. 1. continue AP/35 actions
 2. ONLY one
 - B. 1. continue AP/35 actions
 2. both
 - C. 1. perform Rule 3 (Loss of Main or Emergency FDW)
 2. ONLY one
 - D. 1. perform Rule 3 (Loss of Main or Emergency FDW)
 2. both
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 62
(1 point)

Given the following Unit 1 conditions:

Time = 1200:00

- Reactor power = 80% stable
- 1A and 1B CBPs are operating

Time = 1201:00

- 1A CBP trips
- Feedwater Pump suction pressure = 225 psig slowly lowering

Time = 1203:00

- Feedwater Pump suction pressure = 220 slowly rising

1) The runback rate (%/min) that ICS will use at Time = 1201:00 is __ (1) __.

2) The procedure that will be directed by the CRS at Time = 1203:00 is __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. 15
 2. EOP
 - B. 1. 15
 2. AP/1/A/1700/001 (Unit Runback)
 - C. 1. 20
 2. EOP
 - D. 1. 20
 2. AP/1/A/1700/001 (Unit Runback)
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 63
(1 point)

Given the following Unit 1 conditions:

- MODE 5
- RB Purge in progress
- RB airborne activity rising

- 1) 1SA-8/D-9 (RM Reactor BLDG Purge Disch RAD Inhibit) will FIRST actuate when 1RIA-45 reaches the __ (1) __ setpoint.
- 2) When 1SA-8/D-9 actuates, 1PR- __ (2) __ will close.

Which ONE of the following completes the statement above?

1. ALERT
2. 1 through 6
 1. ALERT
2. 2 through 5 ONLY
 1. HIGH
2. 1 through 6
 1. HIGH
2. 2 through 5 ONLY
-

Oconee Nuclear Station

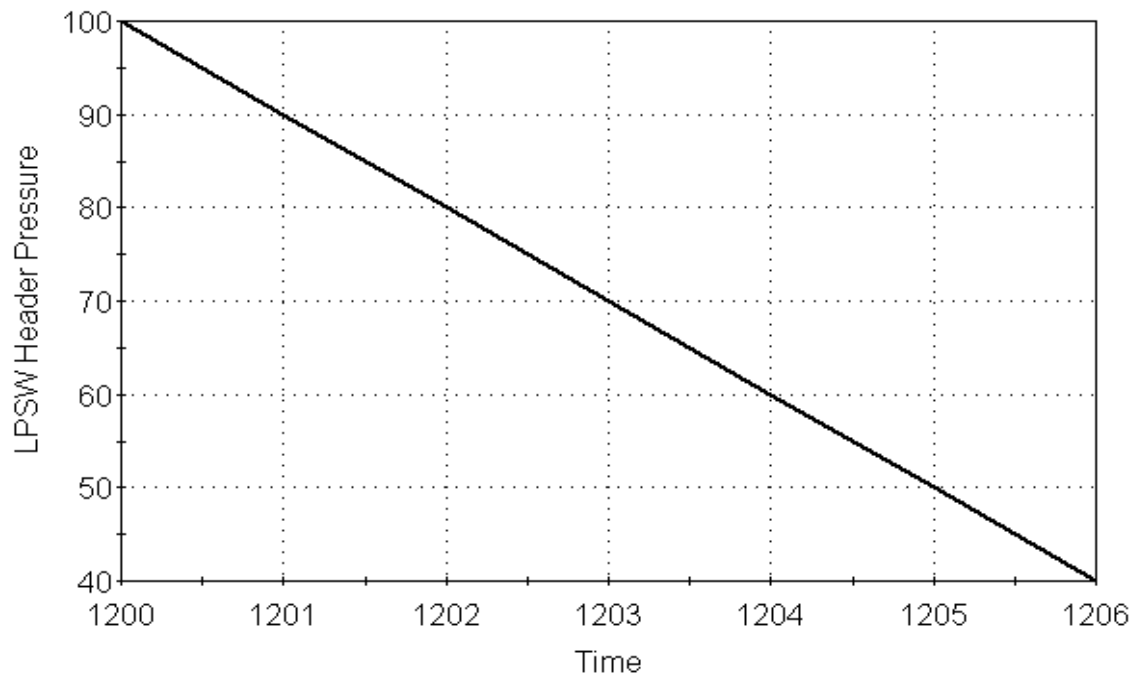
ILT 18-1 ONS RO NRC Examination

Question: 64
(1 point)

Given the following Unit 3 conditions:

- 3A LPSW pump operating
- 3B LPSW pump in AUTO
- Unit 3 LPSW system transient occurs

LPSW Header Pressure vs Time



The EARLIEST time that LPSW header pressure will start the timer for the Standby LPSW pump auto start circuit is _____.

Which ONE of the following completes the statement above?

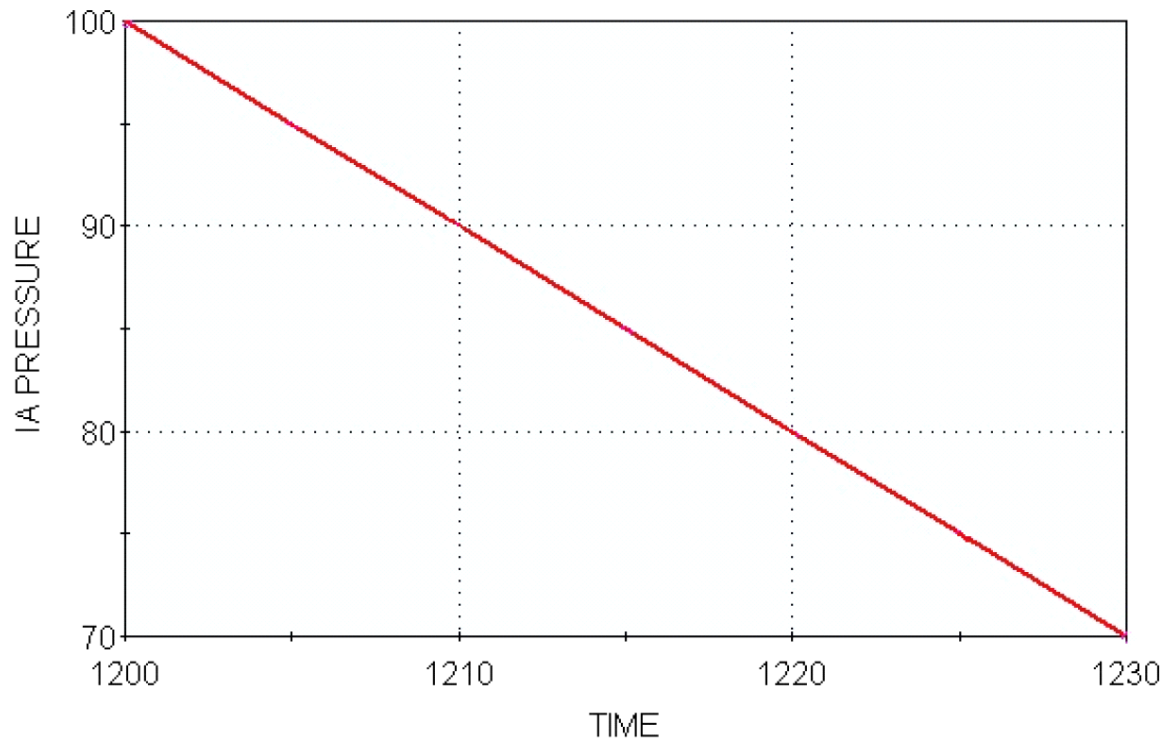
- A. 1205
- B. 1204
- C. 1203
- D. 1201

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 65
(1 point)

IA Pressure vs. Time



Based on the graph above, which ONE of the following describes the EARLIEST time at which Service Air System will automatically supply the Instrument Air System?

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

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 66
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- A newly licensed RO is working under the direction of an RO with an active license

Current conditions:

- The newly licensed RO has just completed a plant tour with an SRO that has an active license

In accordance with NSD-512 (Maintenance of RO/SRO NRC Licenses)...

- 1) A newly Licensed RO must complete a MINIMUM of __(1)__ under the direction of an Active Licensed RO before independently performing Licensed RO duties.
- 2) The MAXIMUM time for plant tours that can be credited toward the activation time stated above is __(2)__ hours.

Which ONE of the following completes the statements above?

- A. 1. 40 hours
 2. 8
 - B. 1. 40 hours
 2. 10
 - C. 1. five 12 hour shifts
 2. 8
 - D. 1. five 12 hour shifts
 2. 10
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 67
(1 point)

Given the following Unit 1 conditions:

- Reactor in MODE 6
- RB Purge in progress
- Defueling in progress
- SF Cooling aligned in refueling mode

In accordance with MP/0/A/1500/009 (Defueling/Refueling Procedure), which ONE of the following would require immediate suspension of fuel handling?

- A. 1RIA-49 fails LOW
 - B. "B" SFP Cooling pump trips
 - C. Spent Fuel Pool level is (–) 1.7 feet lowering
 - D. It is discovered that the Emergency air lock doors are open and a temporary cover plate has been installed
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 68
(1 point)

Given the following Unit 3 conditions:

An Estimated Critical Position (ECP) is calculated for Unit 3 in accordance with PT/3/A/1103/015 (Reactivity Balance Procedure) with the following conditions:

- 400 EFPD
- RCS temperature = 535°F
- RCS boron concentration = 200 ppm
- Xenon/Samarium concentration = $(-)$ 1.47% $\Delta k/k$
- Estimated Critical Position (ECP) is calculated to be CRD Group 7 at 30% withdrawn

- 1) __ (1) __ will result in an ECP of CRD Group 7 greater than 30% withdrawn.
- 2) In accordance with the OP/3/A/1102/001 (Controlling Procedure for Unit Startup), if criticality is NOT achieved within $\pm 0.75\%$ $\Delta k/k$ of the ECP then __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. 190 ppm RCS boron concentration
 2. fully insert ALL safety and regulating rod groups
- B. 1. 190 ppm RCS boron concentration
 2. insert ALL control rod groups to group 1 at 50% ONLY
- C. 1. 537°F RCS temperature
 2. fully insert ALL safety and regulating rod groups
- D. 1. 537°F RCS temperature
 2. insert ALL control rod groups to group 1 at 50% ONLY
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 69
(1 point)

Given the following Unit 2 conditions:

- Shutdown for refueling outage
- Condensate system is shutdown

In accordance with OMP 1-02 (Rules of Practice) and AD-EG-ALL-1132 (Preparation and Control of Design Change Engineering Changes):

- 1) Temporary hoses and fittings attached to the Condensate system for the purpose of draining __ (1) __ required to follow the Temporary Design Change process.
- 2) Operations __ (2) __ responsible for maintaining a log of Temporary Design Changes installed in the plant.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 70
(1 point)

Given the following Unit 2 conditions:

- Unit in MODE 3
- Unit shutdown in progress
- Containment declared NOT operable

1) The Tech Spec Completion Time provided to restore containment to OPERABLE in accordance with Tech Spec 3.6.1 (Containment) is __ (1) __.

2) the HIGHER RCS temperature that would result in being in MODE 4 is __ (2) __°F.

- A. 1. one hour
 2. 195
- B. 1. immediately
 2. 195
- C. 1. one hour
 2. 245
- D. 1. immediately
 2. 245
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 71
(1 point)

Given the following Unit 3 conditions:

- Unit is in MODE 4
- Placing LPI in service for cooldown

- 1) 3LP-11 and 3LP-13 (3A/3B LPI Cooler Inlet) are __(1)__ operated valves.
- 2) The LPI Decay Heat Removal Mode that will be procedurally aligned for LPI cooling is __(2)___.

Which ONE of the following completes the statements above?

- A.
 1. manual
 2. High Pressure
 - B.
 1. motor
 2. High Pressure
 - C.
 1. manual
 2. Normal Decay Removal
 - D.
 1. motor
 2. Normal Decay Removal
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 72
(1 point)

Given the following Unit 1 conditions:

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

Which ONE of the following describes the:

- 1) automatic actions that will occur?
 - 2) procedure that contains actions that must be performed prior to re-initiating the release?
- A. 1. Closes the GWD tank outlet valves, stops the Waste Gas Exhauster,
 AND trips running GWD compressors
 2. OP/1-2/A/1104/018 (GWD System) ONLY
- B. 1. Closes the GWD tank outlet valves and stops the Waste Gas Exhauster,
 but does NOT trip the running GWD compressors
 2. OP/1-2/A/1104/018 (GWD System) ONLY
- C. 1. Closes the GWD tank outlet valves, stops the Waste Gas Exhauster,
 AND trips running GWD compressors
 2. AP/18 (Abnormal Release of Radioactivity) and OP/1-2/A/1104/018 (GWD
 System)
- D. 1. Closes the GWD tank outlet valves and stops the Waste Gas Exhauster,
 but does NOT trip the running GWD compressors
 2. AP/18 (Abnormal Release of Radioactivity) and OP/1-2/A/1104/018 (GWD
 System)
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 73
(1 point)

When the Switchover Acceptance Range Setpoint is reached, 1RIA-49 will read ___(1)___ and 1RIA-49A will provide ___(2)___.

Which ONE of the following completes the statement above?

- A. 1. zero
 2. only alarm and RB radiation level indication
 - B. 1. zero
 2. the same interlock functions that RIA-49 performs
 - C. 1. offscale high
 2. only alarm and RB radiation level indication
 - D. 1. offscale high
 2. the same interlock functions that RIA-49 performs
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 74
(1 point)

Given the following Unit 1 conditions:

Time = 0400

- Reactor power = 100%

Time = 0405

- 1TA lockout occurs
- Reactor power = 90% lowering
- ONLY one RO is currently in the Unit 1 horseshoe area

1) At Time = 0405, the RO will be directed to perform __(1)___.

2) When initiated, Rule 1 __(2)___ direct tripping the Main Turbine.

Which ONE of the following completes the statements above?

- A. 1. Rule 1
 2. will
 - B. 1. Rule 1
 2. will NOT
 - C. 1. Immediate Manual Actions
 2. will
 - D. 1. Immediate Manual Actions
 2. will NOT
-

Oconee Nuclear Station

ILT 18-1 ONS RO NRC Examination

Question: 75
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- A Fire has been identified in the Reactor Building
- AP/0/A/1700/043 (Fire Brigade Response Procedure) is in progress

In accordance with AP/43...

- 1) a "Challenging Fire" is defined as __ (1) __.
- 2) a method used to dispatch the full Fire Brigade is __ (2) __.

Which ONE of the following completes the statements above?

- A. 1. a fire in the plant that is NOT extinguished within 15 minutes of Control Room notification
 2. using the plant paging system
- B. 1. a fire in the plant that is NOT extinguished within 15 minutes of Control Room notification
 2. having Security dispatch fire brigade
- C. 1. a fire that is burning cables (bundles/ trays which have the potential to affect additional equipment)
 2. using the plant paging system
- D. 1. a fire that is burning cables (bundles/ trays which have the potential to affect additional equipment)
 2. having Security dispatch fire brigade
-

Oconee written exam given on June 20, 2018

No REFERENCES were provided to the RO applicants for the NRC Written Exam

Examination KEY for: ILT 18-1 ONS RO NRC Exami

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

Examination KEY for: ILT 18-1 ONS RO NRC Exami

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

Examination KEY for: ILT 18-1 ONS RO NRC Exami

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