

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 1
(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Time = 1200:00
- Reactor power = 100%
- Both MFDW Pumps tripped
- RCS Pressure is peaking at 2475 psig
- 1RC-66 (PORV) is OPEN

Current conditions:

- Time = 1200:30
- RCS Pressure = 2135 psig decreasing
- 1RC-66 OPEN
- Core SCM = 18°F decreasing

- 1) In accordance with Rule 2 (Loss of SCM), all RCP's must be secured if __ (1) __ SCM(s) reach(s) zero.
- 2) A reason RCP's are secured per the above requirement is to __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. ANY
 2. prevent pump damage that occurs from pumping a steam/water mixture
 - B.
 1. ANY
 2. ensure RCP's are secured before the RCS can evolve to a void fraction of > 70%
 - C.
 1. core ONLY
 2. prevent pump damage that occurs from pumping a steam/water mixture
 - D.
 1. core ONLY
 2. ensure RCP's are secured before the RCS can evolve to a void fraction of > 70%
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 2
(1 point)

Given the following Unit 1 conditions:

- Reactor Power = 100%
- RCS Pressure = 2100 psig decreasing
- RBNS level increasing
- Reactor Building RIA's are in alarm

- 1) In accordance with Rule 2 (Loss of SCM), ANY RCP that remains running two minutes after its operating limit is reached is __ (1) __.
- 2) If ANY RCP cannot be secured by the associated RCP Breaker switch on 1UB2, Rule 2 directs de-energizing __ (2) __ 6900KV bus(es).

Which ONE of the following completes the statements above?

- A.
 1. left running
 2. ONLY the associated
 - B.
 1. left running
 2. BOTH
 - C.
 1. secured ONLY if its amps are stable
 2. ONLY the associated
 - D.
 1. secured ONLY if its amps are stable
 2. BOTH
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 3
(1 point)

Given the following Unit 1 conditions:

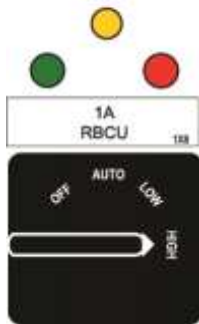
Initial conditions:

- Time = 0400
- Reactor Power = 100%
- RCS pressure 2100 psig rapidly decreasing
- RB Pressure 0.3 psig rapidly increasing
- Multiple RB RIA alarms

Current conditions:

- Time = 0402:30
- RCS pressure = 104 psig slowly decreasing
- RB pressure = 16.2 psig slowly increasing

Which ONE of the following describes the lights that will be ILLUMINATED in the picture below?



- A. Damper RED light and RBCU GREEN light
- B. Damper RED light and RBCU AMBER light
- C. Damper GREEN light and RBCU GREEN light
- D. Damper GREEN light and RBCU RED light

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 4
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 80%
- 1A Feedwater Flow = 4.4×10^6 LB/HR
- 1B Feedwater Flow = 4.4×10^6 LB/HR

Current conditions:

- 1B1 RCP trips

- 1) Reactor power will AUTOMATICALLY be reduced to a MAXIMUM of ___ (1) ___% Core Thermal Power.
- 2) When the MAXIMUM power level is reached, a MFDW flow of ___ (2) ___ 10^6 LB/HR will be established to the 1A Steam Generator.

Which ONE of the following completes the statements above?

- A. 1. 65
2. 5.4
 - B. 1. 74
2. 5.4
 - C. 1. 65
2. 6.1
 - D. 1. 74
2. 6.1
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 5
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Time = 1200
- Reactor power = 100%
- 1HP-31 failed CLOSED
- AP/14 (Loss of Normal HPI Makeup and/or RCP Seal Injection) initiated

Current conditions:

- Time = 1300
- 1HP-31 has been repaired
- Seal injection flow is being re-established to the RCP seals

- 1) In accordance with AP/14, at Time = 1200 all four RCP's __(1)__.
- 2) RCP seal injection flow is re-established slowly to prevent thermal shock and possible damage to the RCP __ (1) __.

Which ONE of the following completes the statements above?

- A. 1. must be secured
2. seals
 - B. 1. must be secured
2. thermal barrier
 - C. 1. can continue to operate
2. seals
 - D. 1. can continue to operate
2. thermal barrier
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 6
(1 point)

Given the following Unit 2 conditions:

- RCS cooldown in progress
- LPI aligned in the Series Mode

1) The reason Series Mode was developed for Unit 2 was to provide __ (1) __.

2) A loss of the __ (2) __ LPI Pumps would result in a total loss of Decay Heat Removal.

- A. 1. a backup to the Switchover mode of LPI
 2. 2A and 2C
- B. 1. a backup to the Switchover mode of LPI
 2. 2B and 2C
- C. 1. additional cooling capacity during 2/0 pump ops
 2. 2A and 2C
- D. 1. additional cooling capacity during 2/0 pump ops
 2. 2B and 2C
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 7
(1 point)

Given the following Unit 3 conditions:

Initial conditions:

- Time = 1200
- Reactor power = 100%
- 3A CC pump trips
- 3B CC pump fails to start

Current conditions:

- Time = 1203
- 3HP-5 has closed
- 3B CC pump has been manually started
- Pressurizer level = 235" increasing

Which ONE of the following states the:

- 1) Letdown temperature setpoint that resulted in 3HP-5 closing?
 - 2) MINIMUM indicated Pressurizer level that will require declaring Tech Spec 3.4.9 (Pressurizer) LCO NOT met in accordance with PT/3/A/0600/001 (Periodic Instrument Surveillance)?
- A. 1. 130°F
 2. 260 inches
- B. 1. 135°F
 2. 260 inches
- C. 1. 130°F
 2. 285 inches
- D. 1. 135°F
 2. 285 inches
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 8
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 90%
- 1B MFDW pump trips

Current conditions:

- Reactor power = 62% stable
- RCS pressure = 2185 psig slowly decreasing
- Pressurizer level = 229 inches slowly decreasing
- Pressurizer temperature = 648°F slowly increasing
- Pressurizer Heater Bank 1 switch is ON
- Pressurizer Heater Bank 2 (Groups B & D) are in AUTO and off
- Pressurizer Heater Banks 3 and 4 are in AUTO and off

1) The pressurizer is ___ (1) ___.

2) The pressurizer saturation circuit ___ (2) ___ responding as expected.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 9
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- BOTH MFDW pumps trip

Current conditions:

- Reactor power = 57% slowly decreasing

- 1) In accordance with Rule 1 (ATWS), the CRD breakers are opened __ (1) __ aligning HPI injection from the BWST.
- 2) The direction given to the operator opening the CRD breaker is to __ (2) __ Arc Flash PPE.

Which ONE of the following completes the statements above?

- A. 1. prior to
2. wear
 - B. 1. prior to
2. NOT wear
 - C. 1. after
2. wear
 - D. 1. after
2. NOT wear
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 10
(1 point)

Given the following Unit 1 conditions:

- Loss of Heat Transfer has occurred
- Unit 1 TDEFWP is now available to feed the Steam Generators
- 1A SG level = 8" slowly decreasing
- 1A SG pressure = 412 psig slowly decreasing
- 1B SG level = 5" slowly decreasing
- 1B SG pressure = 385 psig slowly decreasing

In accordance with Rule 7 (Steam Generator Feed Control), the MAXIMUM initial feed rate allowed to EACH Steam Generators is limited to __ (1) __ gpm in order to prevent __ (2) __.

Which ONE of the following completes the statement above?

- A. 1. 100
2. damage to the Steam Generators
 - B. 1. 100
2. an RCS overcooling event
 - C. 1. 50
2. damage to the Steam Generators
 - D. 1. 50
2. an RCS overcooling event
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 11
(1 point)

Oconee plant conditions:

- Station blackout has occurred
- The EOP Blackout tab has been in progress for three hours
- 1CA voltage = 104 VDC

Which ONE of the following describes why the Blackout tab directs the crew to FAIL 1CC-8 (CC RETURN PENT (54) OUTSIDE BLOCK) closed?

- A. 1CC-8 will fail open if IA pressure decreases to < 35 psig.
 - B. Prevents auto restart of CC pumps once AC power is restored.
 - C. Prevents cooler damage from an open flowpath to coolers when flow is restored.
 - D. 1CC-8 will fail open when DC power is lost to the solenoid.
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 12
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor trip from 100% power due to a loss of offsite power (Switchyard Isolation)
- CT-1 lockout

Current conditions:

- AP/11 (Recovery from Loss of Power) initiated
- S1₁ (STBY BUS 1 to MFB1) Breaker will NOT close
- LOAD SHED COMPLETE is NOT lit on the ES Component Status Panel

In accordance with AP/11, electrical loads are secured to _____.

Which ONE of the following completes the statement above?

- A. prevent exceeding CT-4 Overload Limits
 - B. prevent exceeding CT-5 Overload Limits
 - C. ensure S1₂ (STBY BUS 2 to MFB2) Breaker is operated within limits
 - D. ensure adequate voltage to ES equipment during a subsequent LOCA
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 13
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Large Break LOCA occurred 1 hour ago
- RCS Pressure = 30 psig
- 1A & 1B LPI Pumps are running

Current conditions:

- 1KVIA is de-energized
- 1SA-18/A-3 RVLIS/ICCM/RG1.97 Train A Trouble actuated

Which ONE of the following describes:

- 1) the impact on the LPI system instrumentation?
- 2) what alternate indication can be used to determine the status of the LPI pumps?

- A.
 1. LPI HDR 1A INJ FLOW (gpm) is blank
 2. 1A LPI Pump amps and breaker indicating lights
 - B.
 1. LPI HDR 1A INJ FLOW (gpm) is blank
 2. 1A LPI HDR flow computer point (OAC)
 - C.
 1. LPI HDR 1B INJ FLOW (gpm) is blank
 2. 1B LPI Pump amps and breaker indicating lights
 - D.
 1. LPI HDR 1B INJ FLOW (gpm) is blank
 2. 1B LPI HDR flow computer point (OAC)
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 14
(1 point)

Given the following plant conditions:

- KHU-1 generating to grid
- 1DA input breaker (K1-DA-1A, Batt #1 Ckt Bkr) fails OPEN
- 2SA-17/A3 (Unit 1 Alarm Lockout) actuates

1) KHU #1 __ (1) __ trip.

2) The reason DC power is used for Keowee control power is that it will be available for a MINIMUM of approximately __ (2) __ hour(s) following a loss of ALL AC power.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 15
(1 point)

Given the following Unit 1 conditions:

- Reactor Power = 100%
- AP/22 (Loss of Instrument Air) in progress

- 1) The MINIMUM condition(s) that will result in a loss of control of 1HP-31 is a loss of ___(1)___.
- 2) Once the above condition(s) are met, the operator sent to operate 1HP-31 manually will INITIALLY be required to throttle 1HP-31 in the ___(2)___ direction.

Which ONE of the following completes the statements above?

- A.
 1. IA pressure ONLY
 2. closed
 - B.
 1. IA pressure ONLY
 2. open
 - C.
 1. IA AND AIA pressure
 2. closed
 - D.
 1. IA AND AIA pressure
 2. open
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 16
(1 point)

Given the following Unit 1 conditions:

- A loss of ALL sources of Steam Generator feed has occurred
- HPI Forced Cooling in progress
- RCS pressure = 2210 psig slowly decreasing
- Pzr Level = 380 inches increasing
- Core SCM = 56°F increasing

In accordance with Rule 6 (HPI), HPI flow ___(1)___ be throttled because ___(2)___.

Which ONE of the following completes the statement above?

- A. 1. may NOT
2. RCS pressure is decreasing
 - B. 1. may NOT
2. CETCs are increasing
 - C. 1. may
2. Pzr Level is increasing
 - D. 1. may
2. CETCs are decreasing
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 17
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- 1A Main Steam Line Break occurs

Current conditions:

- Reactor has tripped
- RCS Tave = 544°F slowly increasing
- 1A SG Pressure = 0 psig
- 1B SG Pressure = 990 psig slowly increasing
- Turbine bypass valves in Auto
- Reactor Building pressure = 0.2 psig stable

Which ONE of the following describes:

- 1) the status of the TDEFWP?
 - 2) how subsequent operation of the TDEFWP would be performed?
- A. 1. Operating
 2. Can be secured with TDEFWP control switch before AFIS is reset
- B. 1. Operating
 2. Can be secured with TDEFWP control switch ONLY after AFIS is reset
- C. 1. NOT operating
 2. Can be started with TDEFWP control switch before AFIS is reset
- D. 1. NOT operating
 2. Can be started with TDEFWP control switch ONLY after AFIS is reset
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 18
(1 point)

Given the following Unit 1 conditions:

- Reactor tripped from 100% power
- 1MS-10 (Main Steam Relief Valve) is stuck open
- Main Steam pressure is being reduced in an attempt to reseal 1MS-10

In accordance with Subsequent Actions of the EOP,

- 1) Main Steam pressure will be reduced in __ (1) __ psig increments.
- 2) the MINIMUM RCS temperature allowed while reseating a MSR/V without running a shutdown margin calculation is __ (2) __ °F.

Which ONE of the following completes the statements above?

- A. 1. 10
 2. 532
 - B. 1. 20
 2. 532
 - C. 1. 10
 2. 525
 - D. 1. 20
 2. 525
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 19
(1 point)

Given the following Unit 1 conditions:

- Reactor Power = 98% decreasing
- Control Rod 4 in Group 6 = 0% withdrawn

- 1) ICS will automatically reduce Reactor power to __(1)__% Core Thermal Power.
- 2) The basis for decreasing reactor power to the above level is to ensure __(2)__.

Which ONE of the following completes the statements above?

- A.
 1. 65
 2. Local Linear Heat Rate limits are not exceeded
 - B.
 1. 65
 2. adequate margin in preparation for resetting RPS trip set points
 - C.
 1. 55
 2. Local Linear Heat Rate limits are not exceeded
 - D.
 1. 55
 2. adequate margin in preparation for resetting RPS trip set points
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 20
(1 point)

Given the following Unit 1 conditions:

- Reactor in MODE 5
- 1DIC inverter DC Input breaker trips

Source Range 1NI-2 will be restored __ (1) __.

Which ONE of the following completes the statement above?

- A. manually by placing the Manual bypass switch to the Inverter Output position
 - B. manually by placing the Manual bypass switch to the AC Line position
 - C. automatically by way of the ASCO transfer switch
 - D. automatically by way of the Static Transfer Switch
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 21
(1 point)

Which ONE of the following is the condenser vacuum (inches Hg) SETPOINT stated in AP/27 (loss of condenser vacuum) that will require manually tripping the Reactor when in MODE 1?

- A. 25
 - B. 22
 - C. 21.75
 - D. 19
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 22
(1 point)

1RIA-3, (Refueling Canal Wall Area Monitor),...

- 1) HIGH alarm __ (1) __ cause a Reactor Building Evacuation alarm.
- 2) is NOT in HIGH alarm during Power Operations because the __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. will
 2. setpoint is raised to provide for indication of RCS leakage
 - B.
 1. will
 2. detector is removed from the Reactor Building
 - C.
 1. will NOT
 2. setpoint is raised to provide for indication of RCS leakage
 - D.
 1. will NOT
 2. detector is removed from the Reactor Building
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 23
(1 point)

Given the following plant conditions:

- An Active Fire is taking place in Unit 2 Equipment Room
- The SRO dispatches you to the Unit 1 Equipment Room to determine Control Room Ventilation and Fire Damper positions

- 1) Control Room Ventilation system damper positions __ (1) __ be determined by observing the linkage pointing to either the "OPEN" or "CLOSED" tag.
- 2) Observing that all damper blades are aligned in either the open or closed position __ (2) __ the ONLY way to determine Fire Damper positions between Unit 1 and Unit 2 Equipment Rooms.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 24
(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Reactor power = 90%
- Loop 'A' Controlling Thot fails HIGH
- 2SA2/B4 (RC AVERAGE TEMP HIGH/LOW) actuated

Current conditions:

- The Diamond and BOTH FDW Masters taken to HAND

Which ONE of the following describes the INITIAL action taken by an RO, and the reason for the action, in accordance with OMP 1-18 (Implementation Standard During Abnormal And Emergency Events)?

- A. Decrease Feedwater to stabilize reactor power
 - B. Decrease Feedwater to stabilize RCS pressure
 - C. Insert control rods to stabilize RCS pressure
 - D. Insert control rods to stabilize reactor power
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 25
(1 point)

Given the following Unit 2 conditions:

- Reactor power = 100%
- 2SA-18/A-11, TURBINE BSMT WATER EMERGENCY HIGH LEVEL, is in alarm
- Turbine Building flooding is confirmed

In accordance with the Turbine Building Flood tab of the EOP...

- 1) Emergency Feedwater pumps ___(1)___ required to be utilized to fill the Steam Generators in addition to the Main Feedwater pumps.
- 2) While maximizing feed to the SGs, the MAXIMUM feed rate limits of Rule 7 (SG Feed Control) ___(2)___ apply while maintaining $T_{ave} > 532$ °F.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 26
(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 decreasing
- 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 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

 - B. 1. Loss of SCM
 2. is NOT

 - C. 1. Excessive Heat Transfer
 2. is

 - D. 1. Excessive Heat Transfer
 2. is NOT
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 27
(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Main Steam Line Break occurred on the 2A SG outside of containment
- The Excessive Heat Transfer tab of the EOP was completed
- The crew transitioned to the Forced Cooldown (FCD) Tab

Current conditions:

- ALL RCPs are OFF
- The decision has been made to perform a natural circulation cooldown

- 1) In accordance with Rule 7 (SG Feed Control), level in the 2B SG is required to be maintained at __(1)__ while performing the cooldown.
- 2) In accordance with the FCD tab, the first action taken to collapse a bubble formed in the Reactor Vessel head during the cooldown is to __(2)__.

Which ONE of the following completes the statements above?

- A.
 1. 240" XSUR
 2. open the head vents
 - B.
 1. 240" XSUR
 2. increase RCS pressure
 - C.
 1. 270" XSUR
 2. open the head vents
 - D.
 1. 270" XSUR
 2. increase RCS pressure
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 28
(1 point)

Given the following Unit 1 conditions:

Time = 1200

- Reactor power = 60% stable
- Delta Tc ICS station in HAND
- 1A1 RCP trips

At Time = 1230, 1A Steam Generator Level will be __ (1) __ at Time = 1200 because __ (2) __.

Which ONE of the following completes the statement above?

ASSUME NO OPERATOR ACTIONS

- A. 1. lower than
 2. ICS will runback power to 55%
- B. 1. lower than
 2. Feedwater flows will re-ratio based on the RCS loop flow mismatch
- C. 1. approximately the same as
 2. Feedwater re-ratio is blocked with delta Tc in HAND
- D. 1. approximately the same as
 2. the re-ratio will make 1A SG level increase but the power reduction will then reduce it to approximately its original value
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 29
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- 1A1 RCP start in progress
- AC oil lift pump is started

Current conditions:

- Oil lift pump low discharge pressure does NOT clear

- 1) The AC oil lift pump ___ (1) ___.
- 2) The bypass position on the RCP start/stop switch ___ (2) ___ bypass ALL RCP starting interlocks.

Which ONE of the following completes the statements above?

- A.
 1. must be manually stopped
 2. will NOT
 - B.
 1. must be manually stopped
 2. will
 - C.
 1. will automatically stop after a time delay
 2. will NOT
 - D.
 1. will automatically stop after a time delay
 2. will
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 30
(1 point)

Given the following Unit 3 conditions:

- Reactor Power = 100%
- 3A Purification IX was taken out of service 6 months ago
- 3A Purification IX was just placed back in service without being saturated to current RCS boron concentration

- 1) Group 7 control rods will be __ (1) __ .
- 2) Available shutdown margin (SDM) will be __ (2) __ .

Which ONE of the following completes the statements above?

- A.
 1. inserting
 2. increasing
 - B.
 1. inserting
 2. decreasing
 - C.
 1. withdrawing
 2. increasing
 - D.
 1. withdrawing
 2. decreasing
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 31
(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

ILT46 ONS RO NRC Examination

Question: 32
(1 point)

Given the following Unit 3 conditions:

- Reactor power = 100%
- "3A" Core Flood Tank
 - Pressure = 587 psig stable
 - Level = 12.87 ft stable
- "3B" Core Flood Tank
 - Pressure = 629 psig stable
 - Level = 13.36 ft stable

Which ONE of the following describes the potential adverse effects and its cause that could occur during a large break LOCA?

- A. 3A CFT will discharge an inadequate volume of water into the core due to the CFT level.
 - B. 3A CFT will discharge an inadequate volume of water into the core due to the CFT pressure.
 - C. 3B CFT will discharge too much inventory during the blow down phase and not cover the hotspot during re-flood due to CFT level.
 - D. 3B CFT will discharge too much inventory during the blow down phase and not cover the hotspot during re-flood due to CFT pressure.
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 33
(1 point)

Given the following Unit 1 conditions:

- Large Break LOCA has occurred

In accordance with EOP Encl. 5.12, which ONE of the following describes:

- 1) the range of BWST levels (ft) where LPI pump suction would be aligned to both the RB Emergency Sump and the BWST simultaneously?
 - 2) the action(s) that would be required if 1LP-22 failed to close when isolating the BWST?
- A.
1. 15 – 9
 2. stop the 1B LPI pump AND 1B RBS pump
- B.
1. 15 – 9
 2. Maximize total LPI flow < 3100 gpm
- C.
1. 9 – 6
 2. stop the 1B LPI pump AND 1B RBS pump
- D.
1. 9 – 6
 2. Maximize total LPI flow < 3100 gpm
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 34
(1 point)

Given the following Unit 1 conditions:

- Reactor in MODE 1
- Quench Tank is being pumped to 1A BHUT using the Quench Tank Pump AND the Component Drain Pump

- 1) In accordance with OP/1/A/1104/017 (Quench Tank Operations), Quench Tank Level shall be maintained at a MAXIMUM of __(1)__ inches.
- 2) The __(2)__ will automatically trip once Quench Tank level reaches 80 inches

Which ONE of the following completes the statements above?

- A.
 1. 90
 2. Quench Tank Pump ONLY
 - B.
 1. 90
 2. Quench Tank Pump AND Component Drain Pump
 - C.
 1. 100
 2. Quench Tank Pump ONLY
 - D.
 1. 100
 2. Quench Tank Pump AND Component Drain Pump
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 35
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- 1A and 1B Letdown Coolers in service
- Letdown flow = 78 gpm

Current conditions:

- 1A Letdown Cooler is removed from service by the RO in the Control Room

- 1) CC flow to the 1B Letdown Cooler will ___ (1) ___.
- 2) In accordance with OP/1/A/1104/002 (HPI System), once the 1A Letdown Cooler is isolated the MAXIMUM letdown flow is ___(2)___ gpm.

Which ONE of the following completes the statements above?

- A. 1. stay the same
2. 88
 - B. 1. stay the same
2. 125
 - C. 1. increase
2. 88
 - D. 1. increase
2. 125
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 36
(1 point)

Which ONE of the following sets of components are BOTH cooled by the Component Cooling system.

- A. RCP Seal Return Coolers AND Quench Tank Coolers
 - B. RCP Seal Return Coolers AND RCP Motor Coolers
 - C. RCP Seal Coolers AND Quench Tank Coolers
 - D. RCP Seal Coolers AND RCP Motor Coolers
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 37
(1 point)

Given the following Unit 3 conditions:

- Time = 1200
- Reactor power = 100%
- Channel A AND Channel B narrow range RCS pressure fail HIGH

- 1) At Time = 1200 an AUTOMATIC reactor trip __ (1) __ occur.
- 2) At Time = 1205 an AUTOMATIC ES actuation __ (2) __ have occurred.

Which ONE of the following completes the statements above?

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

ILT46 ONS RO NRC Examination

Question: 38
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- 1B1 Reactor coolant pump trips

Which ONE of the following RPS trips will prevent exceeding the Departure from Nucleate Boiling Ratio (DNBR) safety limit?

- A. High flux
 - B. Flux/Pump
 - C. Flux/Flow/Imbalance
 - D. High RCS Temperature
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 39
(1 point)

Given the following Unit 1 conditions:

- Reactor Power = 100%
- 1KVIB panelboard is de-energized

- 1) The __ (1) __ Voters will NOT actuate their associated safeguards equipment
- 2) Engineered Safeguards System Instrument Channels are in a __ (2) __ out of two trip condition.

- A.
 1. ODD
 2. one
 - B.
 1. ODD
 2. two
 - C.
 1. EVEN
 2. one
 - D.
 1. EVEN
 2. two
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 40
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- 1A Main Steam Line Break inside containment occurs
- Reactor Building Pressure peaks at 22.4 psig

- 1) The ___(1)___ LPSW pumps have received an ES signal to start.
- 2) Regarding the 1A RBCU, ___(2)___ has/have received an ES signal to OPEN.

Which ONE of the following completes the statements above?

- A.
 1. "A" and "B" ONLY
 2. 1LPSW-18 ONLY
 - B.
 1. "A" and "B" ONLY
 2. 1LPSW-18 AND 1LPSW-16
 - C.
 1. "A", "B", AND "C"
 2. 1LPSW-18 ONLY
 - D.
 1. "A", "B", AND "C"
 2. 1LPSW-18 AND 1LPSW-16
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 41
(1 point)

Given the following Unit 1 conditions:

- Reactor in MODE 1

- 1) The LOWER Reactor Building Pressure that will result in an automatic start of the Reactor Building Spray pumps is __ (1) __ psig.
- 2) The BWST to LPI and RBS pump suction valves (1LP-21 and 1LP-22) __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. 4.2
 2. are normally OPEN
 - B.
 1. 4.2
 2. automatically OPEN on ECCS actuation
 - C.
 1. 11.5
 2. are normally OPEN
 - D.
 1. 11.5
 2. automatically OPEN on ECCS actuation
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 42
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- 1TC locked out
- 1BS-2 breaker is open and will not close

Current conditions:

- ES 1 – 8 actuates due to a Large Break LOCA

When the Reactor Building Spray system is placed in the recirculation mode:

- 1) Its purpose is to ___ (1) ___.
- 2) The RBS system ___ (2) ___ be able to perform its safety function.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT46 ONS RO 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

ILT46 ONS RO NRC Examination

Question: 44
(1 point)

Given the following Unit 1 conditions

Initial conditions:

- Reactor power = 70% stable

Current conditions:

- 1HPE-6 (Heater 1A1 Bleed Inlet) closed

Which ONE of the following predicts the:

- 1) impact of the malfunction on Feedwater flow assuming no operator action?
- 2) procedure which will be used to reopen 1HPE-6?

- A. 1. higher
 2. OP/1/A/1106/23 (High and Low Pressure Extraction)
- B. 1. higher
 2. OP/1/A/1106/002 (Condensate and FDW system)
- C. 1. lower
 2. OP/1/A/1106/23 (High and Low Pressure Extraction)
- D. 1. lower
 2. OP/1/A/1106/002 (Condensate and FDW system)
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 45
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- Condenser vacuum = 18.5 inches Hg stable
- 1TA and 1TB de-energized

SG levels will be automatically controlled at _____.

Which ONE of the following completes the statement above?

- A. 25 inches Startup Range
 - B. 30 inches XSUR
 - C. 50% Operating Range
 - D. 240 inches XSUR
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 46
(1 point)

Which ONE of the following utilizes the 1TE ES Power String as its source of electrical power?

- A. C LPSW pump
 - B. 1C RBCU
 - C. 1B MDEFWP
 - D. 1B RBS pump
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 47
(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 conditions will cause the SL Breakers to open?

- A. An undervoltage condition occurs on Standby Bus 1 ONLY.
 - B. An undervoltage condition would have to occur 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 satisfied now AND the 2nd level 100KV Degraded Voltage Relay has been satisfied for 9 seconds.
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 48
(1 point)

Given the following Unit 1 conditions:

Initial 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 TDEFDW pump inoperable is __ (1) __.
- 2) Cross connecting __ (2) __ buses 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

ILT46 ONS RO NRC Examination

Question: 49
(1 point)

Given the following Unit 1 conditions:

Time = 1200

- Reactor power = 100%
- ACB-4 Closed
- LOCA LOOP occurs

Time = 1205

- Keowee Hydro Unit (KHU)-2 Emergency Lockout occurs

Which ONE of the following describes how ECCS systems are being powered at Time = 1210?

- A. KHU-1 through the Overhead power path
 - B. KHU-1 through the underground power path
 - C. CT-5 powered from Lee combustion turbine
 - D. CT-5 powered from Central Switchyard
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 50
(1 point)

Which ONE of the following describes the operation of the Unit Vent Radiation Monitors RIA-45 and RIA-46 when the switchover acceptance range setpoint is reached?

RIA-45 will read ___(1)___ and RIA-46 will provide ___(2)___.

- A. 1. offscale high
 2. only alarm and unit vent radiation level indication

 - B. 1. offscale high
 2. the same interlock functions that RIA-45 performs

 - C. 1. ZERO
 2. only alarm and unit vent radiation level indication

 - D. 1. ZERO
 2. the same interlock functions that RIA-45 performs
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 51
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- A and B LPSW pumps are turned OFF and cannot be restarted
- 1AP/24 (Loss of LPSW) initiated

- 1) The LOWEST CRD temperature that will require a Reactor trip is (1) °F in accordance with 1AP/20 (Loss of Component Cooling).
- 2) RCW system temperatures would be expected to (2) .

Which ONE of the following completest the statements above?

- A.
 1. 140
 2. increase
 - B.
 1. 140
 2. remain unchanged
 - C.
 1. 180
 2. increase
 - D.
 1. 180
 2. remain unchanged
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 52
(1 point)

Given the following Unit 1 conditions:

- Reactor Power = 100%
- Instrument Air pressure = 63 psig slowly decreasing

Immediate Manual Actions of the EOP will be performed after AP/22 (Loss of Instrument Air) directs tripping the _____.

Which ONE of the following completes the statement above?

- A. Reactor ONLY
 - B. Reactor and Main Turbine ONLY
 - C. Reactor and Main Feedwater Pumps ONLY
 - D. Reactor, Main Turbine, AND the Main Feedwater Pumps
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 53
(1 point)

Given the following Unit 1 conditions:

- Reactor trip from 100% due to loss of all Main Feedwater
- 1FDW-316 pneumatic supply line has ruptured and the valve cannot be operated from Control Room
- Enclosure 5.27 (Alternate Methods of Feeding the Steam Generator) in progress
- SRO notified that the startup path to the 1B SG CANNOT be used

Which ONE of the following describes how RCS temperature will be controlled?

- A. Using ONLY the 1A SG
 - B. Use 1A SG AND manually throttle 1FDW-316
 - C. Use 1A SG AND feed 1B SG with Alternate Units EFDW
 - D. Align TDEFWP to 1B SG and use 1MS-94 spindle to throttle TDEFWP speed to control flow to 1B SG
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 54
(1 point)

Given the following Unit 1 conditions:

Time = 1200

- Reactor in MODE 5
- RCS Loops dropped
- Pressurizer level = 340" stable
- RB Cavity washdown in progress
- RB Purge in progress
- Reactor Building Sump is being pumped

Time = 1205

- Pressurizer level 322 inches decreasing
- 1RIA-49 (Reactor Building High Gas) in HIGH alarm

- 1) The Containment Evacuation alarm ___(1)___ AUTOMATICALLY actuate as a result of the 1RIA-49 HIGH alarm.
- 2) ___(2)___ is the procedure that will be entered FIRST.

Which ONE of the following completes the statements above?

- A.
 1. will
 2. AP/26 (Loss of Decay Heat Removal)
 - B.
 1. will
 2. AP/2 (Excessive RCS Leakage)
 - C.
 1. will NOT
 2. AP/26 (Loss of Decay Heat Removal)
 - D.
 1. will NOT
 2. AP/2 (Excessive RCS Leakage)
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 55
(1 point)

Given the following Unit 1 conditions:

- Reactor in MODE 5
- RB Main Purge in operation

Which ONE of the following will cause the RB Main Purge Fan to trip OFF?

- A. Suction pressure = 5 inches of water vacuum
 - B. 1RIA-45, UNIT VENT GAS NORM, reaches its ALERT setpoint
 - C. Statalarm 1SA9/B-3, RBV PURGE INLET TEMPERATURE LOW, alarms
 - D. 1PR-3 (RB PURGE CONTROL) green CLOSED light is lit and red OPEN light is off on 1VB2
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 56
(1 point)

Given the following Unit 1 conditions:

- Startup in progress
- Estimated Critical Rod Position (ECP) calculation as follows:
 - ECP = Gp 7 @ 12% withdrawn (wd)
 - $-0.75\% \Delta K/K = \text{Gp 6 @ 64\% wd}$
 - $-1\% \Delta K/K = \text{Gp 6 @ 55\% wd}$
- Safety Rod withdrawal is about to begin

In accordance with AD-OP-ALL-0203 (Reactivity Management), which ONE of the following describes the EARLIEST condition where criticality should be expected?

Withdrawing Control Rods and _____.

- A. Group 1 > 0% wd
 - B. Group 6 \geq 55% wd
 - C. Group 6 \geq 64% wd
 - D. Group 7 \geq 12% wd
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 57
(1 point)

Given the following Unit 1 conditions:

- Reactor has tripped from 100%
- ALL Condensate, Feedwater, AND Emergency Feedwater pumps are unavailable
- BOTH 1A and 1B SG's are dry
- RCS temperature = 584°F slowly increasing
- RCS pressure = 2044 psig slowly increasing

- 1) Assuming NO operator actions, RCS __ (1) __ will stop increasing FIRST.
- 2) The EOP will direct using __ (2) __ to remove core decay heat.

Which ONE of the following completes the statements above?

- A.
 1. pressure
 2. HPI Forced Cooling
 - B.
 1. pressure
 2. SSF ASW
 - C.
 1. temperature
 1. HPI Forced Cooling
 - D.
 1. temperature
 2. SSF ASW
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 58
(1 point)

Given the following Unit 1 conditions:

Initial Conditions:

- Reactor Power = 100%
- 1B RPS channel in Manual Bypass due to failed RB pressure transmitter

Current Conditions:

- 1NI-7 fails HIGH

The 1C RPS channel:

- 1) __ (1) __ AUTOMATICALLY trip.
- 2) __ (2) __ be placed in Manual Bypass in accordance with OP/1/A/1105/014 (Control Room Instrumentation).

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 59
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 90% stable
- 1A and 1B Main FDW Control valves are in HAND
- Controlling Feedwater valve ΔP fails LOW

1) Steam Generator levels __ (1) __ increase.

2) IF the conditions above result in a Reactor trip, the FDW Control Valve ICS Hand/Auto stations will __ (2) __ .

Which ONE of the following completes the statements above?

ASSUME NO OPERATOR ACTIONS

- A. 1. will
2. remain in HAND
 - B. 1. will
2. revert to AUTO
 - C. 1. will NOT
2. remain in HAND
 - D. 1. will NOT
2. revert to AUTO
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 60
(1 point)

Unit 2 initial conditions:

- Reactor in MODE 6
- Fuel Transfer Canal slightly above 21.34' mark on canal wall
- RB Hatch closed
- RB Purge is operating
- 2SF-1 AND 2SF-2 are open

Current conditions:

- RB Purge trips

Which ONE of the following predicts the response of actual Fuel Transfer Canal level?

Fuel Transfer Canal level will...

- A. decrease then remain constant
 - B. initially decrease then return to previous level
 - C. increase then remain constant
 - D. initially increase then return to previous level
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 61
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- Turbine Bypass Valves (TBV's) in HAND

Current Conditions

- 1KU is de-energized

- 1) The TBV's are __(1)___.
- 2) The TBV's __(2)__ manually operable from the Control Room.

Which ONE of the following completes the statements above ?

- A. 1. closed
 2. are
 - B. 1. 50% open
 2. are
 - C. 1. closed
 2. are NOT
 - D. 1. 50% open
 2. are NOT
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 62
(1 point)

Given the following Unit 1 conditions:

0359:45

- Reactor power = 70% stable
- 1B CBP trips

0400:00

- Main FDW Pump suction pressure = 235 psig decreasing

0401:00

- Main FDW Pump suction pressure = 230 psig decreasing

0401:30

- Main FDW Pump suction pressure = 225 psig stable

Based on the above conditions, complete the following statements:

- 1) Of the times listed above, 1C-61 (Cond Cooler Bypass Control) will first open at ___ (1) ___.
- 2) At 0401:35, the entry conditions for the EOP ___ (2) ___ met.

Which ONE of the following completes the statements above?

- A. 1. 0400:00
 2. are
 - B. 1. 0400:00
 2. are NOT
 - C. 1. 0401:30
 2. are
 - D. 1. 0401:30
 2. are NOT
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 63
(1 point)

Given the following Unit 1 conditions:

- 1A GWD tank release in progress
- 1RIA-37 HIGH alarm actuates
- 1SA-8/B9 (Process Monitor Radiation High) actuates

Which ONE of the following describes the:

- 1) impact on the Gaseous Waste Disposal (GWD) system?
 - 2) procedure that contains actions that must be performed prior to re-initiating the release?
- A. 1. Closes 1A GWD tank inlet AND outlet valves
 2. OP/1-2/A/1104/018 (GWD System) ONLY
- B. 1. Closes 1A GWD tank inlet AND outlet valves
 2. AP/18 (Abnormal Release of Radioactivity) and OP/1-2/A/1104/018 (GWD System) ONLY
- C. 1. Closes 1A GWD tank outlet valves ONLY
 2. OP/1-2/A/1104/018 (GWD System) ONLY
- D. 1. Closes 1A GWD tank outlet valves ONLY
 2. AP/18 (Abnormal Release of Radioactivity) and OP/1-2/A/1104/018 (GWD System) ONLY
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 64
(1 point)

Given the following Unit 1 conditions:

- PT/0/A/0230/001, Radiation Monitor Check completed on Unit 1
- 1RIA-57 = .75 R/HR

Which ONE of the following is an indication of a satisfactory source check?

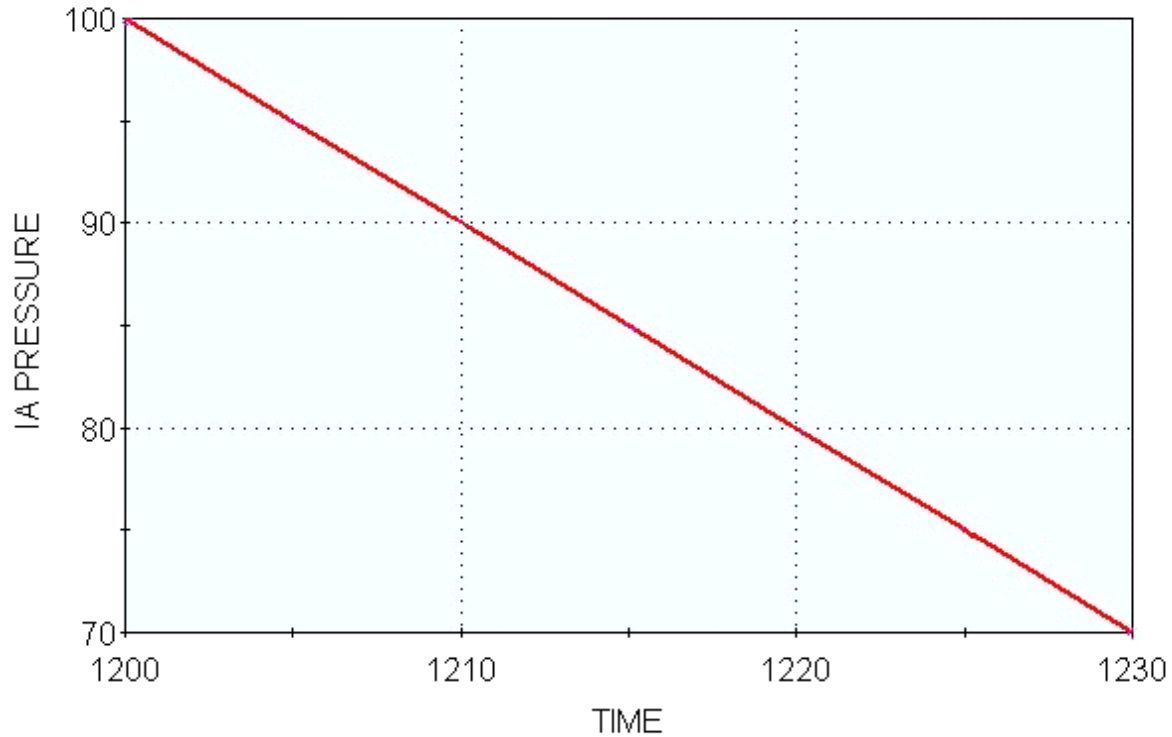
- A. Alert Alarm Actuation ONLY
 - B. Alert AND High Alarm Actuation
 - C. Area Monitor Fault Alarm Actuation
 - D. Indication remains at .75 R/HR with no alarms
-

Oconee Nuclear Station

ILT46 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 SA-141 (SA to IA Controller) will automatically open?

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

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 66
(1 point)

Given the following Unit 1 conditions:

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

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

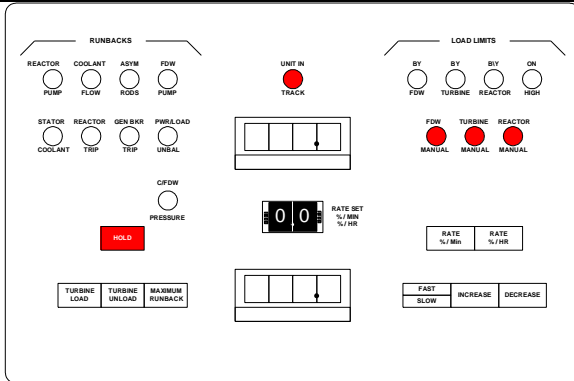
Per SOMP 1-07 (Control Room Oversight) AND OMP 1-24 (Operations Communications Standards), which ONE of the following completes the statements above?

- 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

ILT46 ONS RO NRC Examination

Question: 67
(1 point)



Note: Drawing not representative of actual plant conditions.

Given the following Unit 1 conditions:
Initial conditions:

- Time = 0400
- Reactor power = 100% decreasing
- Control Rod Group 1 Rod 3 = 0% withdrawn

Current conditions:

- Time = 0430
- Reactor power = 68% decreasing
- 1B1 RCP trips

- 1) At 0400, the power to which the ICS is running the plant back is displayed in the ___ (1) ___ window. (refer to the drawing above)
- 2) After the RCP trips, the unit ___ (2) ___ automatically stabilize at the required reactor power for plant conditions.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 68
(1 point)

Given the following plant conditions:

- Unit 1 Reactor power = 100%
- Unit 2 Reactor in MODE 3

In accordance with OMP 2-1 Attachment D (SSF Staffing Requirements), which ONE of the following:

- 1) states restrictions on the RO designated to man the SSF when NO SSF event is in progress?
 - 2) describes the minimum actions required for one of the designated SSF RO's to take a short trip to the station canteen?
- A.
1. MUST remain in the Horseshoe area of the Control Room
 2. The RO must be relieved by another licensed operator that is NOT part of the minimum staffing before leaving the designated area
- B.
1. MUST remain in the Horseshoe area of the Control Room
 2. A method of communication must be established to enable notification of the requirement to activate the SSF before leaving the designated area
- C.
1. Can be anywhere inside the Control Room CAD doors
 2. The RO must be relieved by other licensed operator that is NOT part of the minimum staffing before leaving the designated area
- D.
1. Can be anywhere inside the Control Room CAD doors
 2. A method of communication must be established to enable notification of the requirement to activate the SSF before leaving the designated area
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 69
(1 point)

Given the following Unit 1 conditions:

- Startup in progress
- The OATC Reactor Operator manipulating Control Rods is training an individual on OJT from License Class
- 1SA-03/E-7 (TO Bearing Header Pressure Low) actuates

In accordance with AD-OP-ALL-0203 (Reactivity Management):

- 1) stopping control rod withdrawal ___ (1) ___ required.
- 2) the OATC ___ (2) ___ allowed to peer-check the withdrawal of control rods being done by the trainee.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 70
(1 point)

In accordance with OMP 1-02 (Rules of Practice), which ONE of the following describes:

- 1) a condition which would allow Independent Verification of a single valve to be waived?
 - 2) the minimum level of approval required?
-
- A.
 1. Dose received will be = 14 mr for a single check
 2. Control Room Supervisor
 - B.
 1. Valve located in a room where the area dose rate = 878 mr/hr
 2. Control Room Supervisor
 - C.
 1. Dose received will be = 14 mr for a single check
 2. Shift Manager
 - D.
 1. Valve located in a room where the area dose rate = 878 mr/hr
 2. Shift Manager
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 71
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- RCS Pressure = 2150 psig stable
- Pressurizer Temperature = 628°F stable

Which ONE of the following describes the:

- 1) INITIAL plant response to energizing ALL Pressurizer heaters?
 - 2) RCS pressure setpoint (psig) that will result in 1RC-1 opening?
- A. 1. RCS Pressure will increase
 2. 2155
- B. 1. Pressurizer temperature will increase
 2. 2155
- C. 1. RCS Pressure will increase
 2. 2205
- D. 1. Pressurizer temperature will increase
 2. 2205
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 72
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor in MODE 6
- RB Purge in progress

Current conditions:

- IRIA-47 (RB Particulate) in HIGH alarm
- AP/18, Abnormal Release of Radioactivity is initiated

- 1) RB Purge __ (1) __ automatically terminate.
 - 2) AP/18 __ (2) __ direct the evacuation of personnel from the RB
- A. 1. will
 2. does
- B. 1. will
 2. does NOT
- C. 1. will NOT
 2. does
- D. 1. will NOT
 2. does NOT
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 73
(1 point)

Given the following Unit 3 conditions:

- 3A GWD gas tank release in progress
- Release is at 2/3 Station Limit

- 1) 1RIA-45 High and Alert setpoints will be set at ___ (1) ___ the normal 1/3 Station Limit as listed in PT/0/A/230/001 (Radiation Monitor Check).
- 2) If 1RIA-45 High alarm setpoint is reached, the 3A GWD gas tank release ___(2)___ AUTOMATICALLY terminate.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 74
(1 point)

Given the following Plant conditions:

- Unit 1 = 100%
- Unit 2 has an event in progress that requires SSF ASW activation

- 1) In accordance with OMP 2-1 (Duties and Responsibilities of On-Shift Operations Personnel), the __ (1) __ BOP will be dispatched to perform AP/25 (SSF Activation).
- 2) Prior to leaving the Control Room for the SSF, AP/25 directs tripping __ (2) __ RCP(s).

Which ONE of the following completes the statements above?

- A.
 1. Unit 1
 2. ALL
 - B.
 1. Unit 1
 2. all but ONE
 - C.
 1. Unit 2
 2. ALL
 - D.
 1. Unit 2
 2. all but ONE
-

Oconee Nuclear Station

ILT46 ONS RO NRC Examination

Question: 75
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor in MODE 6
- LPI aligned in NORMAL Mode
- RCS level = 75" on LT-5 stable
- 1B LPI Pump tagged out

Current conditions:

- RCS level = 72" on LT-5 decreasing

- 1) In accordance with OP/1/A/1104/004 (LPI System), the ___(1)___ LPI pump will be in operation?
 - 2) In accordance with AP/26 (Loss of Decay Heat Removal), which ONE of the following describes the reason ALL LPI pumps are initially secured?
 - A.
 1. 1C
 2. prevent pump damage due to loss of suction
 - B.
 1. 1A
 2. prevent pump damage due to loss of suction
 - C.
 1. 1C
 2. determine if leak source is on the discharge of the LPI pumps
 - D.
 1. 1A
 2. determine if leak source is on the discharge of the LPI pumps
-

Examination KEY for: ILT46 ONS RO NRC Examina

<i>Question Number</i>	<i>Answer</i>
----------------------------	---------------

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

Examination KEY for: ILT46 ONS RO NRC Examina

<i>Question Number</i>	<i>Answer</i>
----------------------------	---------------

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

Examination KEY for: ILT46 ONS RO NRC Examina

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