

# Oconee Nuclear Station

## *ILT46 ONS SRO 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 SRO 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 SRO NRC Examination

Question: 3  
(1 point)

Given the following Unit 1 conditions:

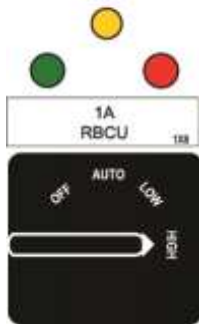
Initial conditions:

- 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 SRO NRC Examination*

Question: 4  
(1 point)

---

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 80%
- 1A Feedwater Flow =  $4.4 \times 10^6$  LB/HR
- 1B Feedwater Flow =  $4.4 \times 10^6$  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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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
- S1<sub>1</sub> (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 S1<sub>2</sub> (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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO NRC Examination*

**Question: 24**  
(1 point)

---

Given the following Unit 2 conditions:

Initial conditions:

- Reactor power = 90%
- Loop 'A' Controlling That 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 SRO 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 Tave > 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO NRC Examination*

**Question: 43**  
(1 point)

---

Given the following Unit 3 conditions:

Initial conditions:

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

Current conditions:

- Main Turbine trips

1) 3MS-112 & 3MS-173 will \_\_\_ (1) \_\_\_.

2) 3MS-77, 78, 80, 81 will \_\_\_ (2) \_\_\_.

Which ONE of the following completes the statements above?

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

# Oconee Nuclear Station

## *ILT46 ONS SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 = Gp 6 @ 64% wd
  - -1% delta K/K = 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 SRO 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 SRO 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 SRO 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  $\Delta P$  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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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
-



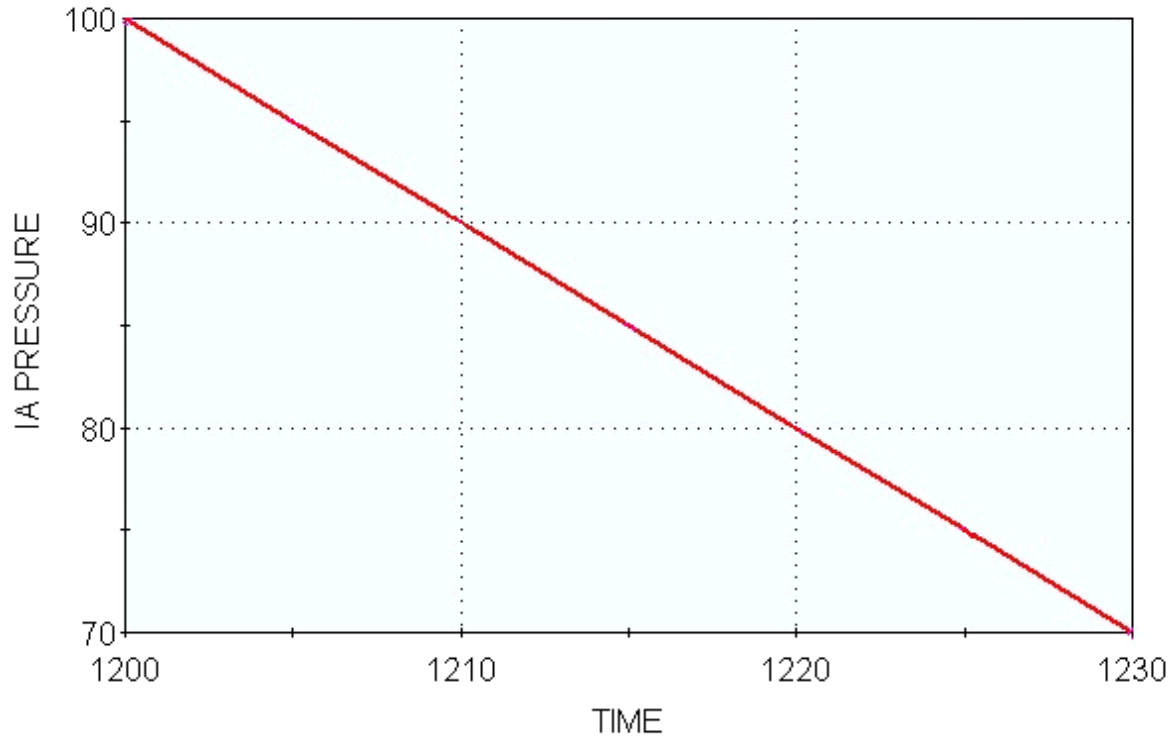
# Oconee Nuclear Station

## *ILT46 ONS SRO 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 SRO 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.

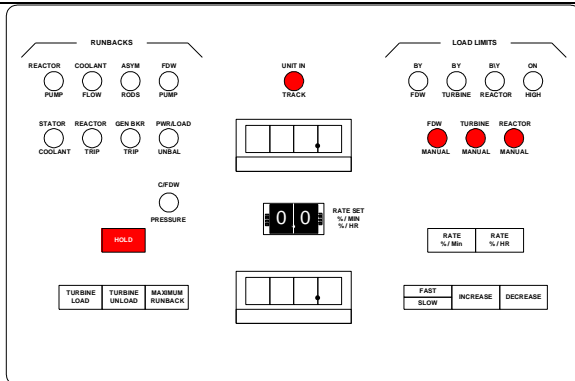
Per SOMP 1-07 (Control Room Oversight) AND OMP 1-24 (Operations Communications Standards), which ONE of the following completes the statements above?

- 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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 SRO 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
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 76**  
(1 point)

---

Given the following Unit 1 conditions:

Initial conditions:

- RCS cooldown in progress
- RCS temperature = 310 °F slowly decreasing

Current conditions:

- Both the 1A and 1B HPI pumps have failed
- AP/14 (Loss of HPI Normal Makeup and/or RCP Seal Injection) in progress
- 1C HPI pump has been aligned to provide RCS makeup

- 1) In accordance with OP/1/A/1104/002 (HPI System), aligning the 1C HPI pump as the RCS Makeup pump \_\_ (1) \_\_ make the 1HP-120 Travel Stop inoperable
- 2) In accordance with the basis of Tech Spec 3.4.12 (LTOP), with ALL LTOP Administrative Controls in place, additional operator actions to mitigate an LTOP event are required within \_\_ (2) \_\_ minutes of the event initiation.

Which ONE of the following completes the statements above?

- A.     1. does  
       2. 10
  - B.     1. does  
       2. 25
  - C.     1. does NOT  
       2. 10
  - D.     1. does NOT  
       2. 25
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 77  
(1 point)

---

Given the following Unit 1 conditions:

- 1A Main FDWP has tripped
- Reactor Power = 76% decreasing
- RCS Pressure = 2215 psig increasing
- 1RC-1 (Pressurizer Spray) indicates Closed

- 1) 1RC-1 \_\_ (1) \_\_ operating as designed.
- 2) In accordance with the basis of Tech Spec 2.0 (Safety Limits), the RCS pressure Safety Limit \_\_ (2) \_\_ take credit for the operation of 1RC-1.

Which ONE of the following completes the statements above?

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

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 78  
(1 point)

---

Given the following Unit 1 conditions:

- Reactor power = 90% decreasing
- SGTR tab in progress
- Pressurizer level = 205 inches slowly increasing

- 1) In accordance with plant procedures, 1HP-26 \_\_ (1) \_\_ be used to maintain Pzr level PRIOR to tripping the Reactor.
- 2) With Pzr level being maintained, the MAXIMUM power level at which the SGTR tab will direct tripping the REACTOR is \_\_ (2) \_\_ %.

Which ONE of the following completes the statements above?

- A.
    1. can
    2. 18
  - B.
    1. can
    2. 5
  - C.
    1. can NOT
    2. 18
  - D.
    1. can NOT
    2. 5
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 79**  
(1 point)

---

Given the following Unit 1 conditions:

Initial conditions:

- Reactor Power = 100%
- 1KVIC power supply is transferred to 1KRB in support of Maintenance on 1DIC inverter

Current conditions:

- 1DIC inverter work is completed and it is ready to be aligned to 1KVIC

- 1) In accordance with the basis of Tech Spec 3.8.6 (Inverters-Operating), 1KVIC Panelboard is \_\_ (1) \_\_ .
  - 2) In accordance with the basis of Tech Spec 3.8.8 (Distribution Systems-Operating), the 1DIC Inverter is \_\_ (2) \_\_ .
- A.     1. operable  
       2. operable
- B.     1. operable  
       2. inoperable
- C.     1. inoperable  
       2. operable
- D.     1. inoperable  
       2. inoperable
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 80  
(1 point)

---

Given the following Unit 1 conditions:

- Reactor power = 100%
- BOP and OATC are only RO's available
- Degrading instrument air pressure results in a manual Reactor Trip in accordance with AP/22 (Loss of Instrument Air)
- During the transient, indications of a Main Steam Line Break (MSLB) were observed
- RCS pressure decreased to 1437 psig and then began to increase

- 1) In accordance with OMP 1-18 (Implementation Standard During Abnormal and Emergency Events) the Procedure Director will direct that AP/22 be performed in parallel with the EOP \_\_ (1) \_\_.
- 2) In accordance with Rule 5 (Main Steam Line Break) HPI can be throttled once Pressurizer level has returned to \_\_ (2) \_\_.

Which ONE of the following completes the statements above?

- A.
    1. immediately after Immediate Manual Actions and Symptoms Check are completed
    2. on scale and increasing
  - B.
    1. immediately after Immediate Manual Actions and Symptoms Check are completed
    2.  $\geq 100$  inches
  - C.
    1. ONLY after Rule 5 (Main Steam Line Break) and EOP Enclosure 5.1 (ES Actuation) have been completed
    2. on scale and increasing
  - D.
    1. ONLY after Rule 5 (Main Steam Line Break) and EOP Enclosure 5.1 (ES Actuation) have been completed
    2.  $\geq 100$  inches
-



# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 81**  
(1 point)

---

Given the following Unit 1 conditions:

- Reactor Power = 45% stable
- AP/34 (Generator Grid Disturbance) in progress
- Generator Output = 350 MWe
- Hydrogen pressure = 60 psig

In accordance with AP/34,

- 1) The MAXIMUM limit on MVARs is approximately \_\_ (1) \_\_.
- 2) If operation in the acceptable region of the Generator Capability Curve cannot be maintained, \_\_ (2) \_\_.

Which ONE of the following completes the statements above?

### **REFERENCE PROVIDED**

- A.
    1. 725
    2. trip the Reactor
  - B.
    1. 725
    2. Open PCB-20 and PCB-21
  - C.
    1. 475
    2. trip the Reactor
  - D.
    1. 475
    2. Open PCB-20 and PCB-21
-

# Oconee Nuclear Station

## ILT46 ONS SRO NRC Examination

Question: 82  
(1 point)

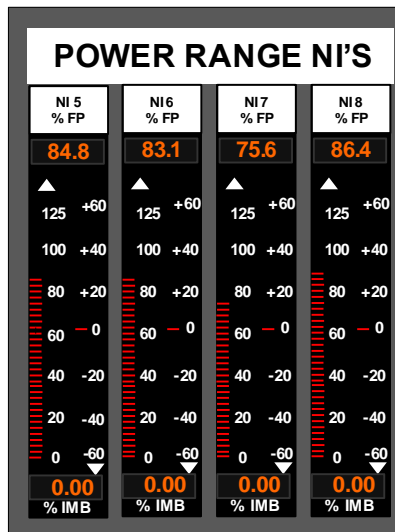
Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 85% stable
- Delta Tc in HAND

Current conditions:

- ICS runback in progress
- Reactor power as indicated below



Which ONE of the following describes:

- 1) the reason for the ICS runback?
  - 2) the consequences of operating the unit under the conditions described above?
- A.
1. Dropped Control Rod
  2. Allowable Thermal Power limits of Tech Spec 3.4.4 (RCS Loops MODES 1 and 2) could be exceeded
- B.
1. Dropped Control Rod
  2. Maximum Linear Heat Rate could be exceeded
- C.
1. RCP trip
  2. Allowable Thermal Power limits of Tech Spec 3.4.4 (RCS Loops MODES 1 and 2) could be exceeded
- D.
1. RCP trip
  2. Minimum Departure from Nucleate Boiling Ratio limits could be exceeded

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 83**  
(1 point)

---

Given the following Unit 1 conditions:

Time = 0400

- Reactor has been tripped due to SGTR in the 1A SG

Time = 0430

- Feedwater to the 1A SG is isolated
- 1A SG level = 273 inches XSUR increasing

Time = 0500

- 1A SG level = 293 inches XSUR increasing

Time = 0530

- 1A SG reaches the Water in Steam Line Level

In accordance with the SGTR tab:

- 1) At 0500, EOP Enclosure 5.22 (SG Blowdown) \_\_ (1) \_\_ be used to reduce 1A SG level.
- 2) At 0530, \_\_ (2) \_\_ steaming the 1A SG.

Which ONE of the following completes the statements above?

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

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 84**  
(1 point)

---

Given the following Unit 1 conditions:

Initial conditions:

- Time = 0400
- Reactor power = 80% stable
- Control Rods Group 7 = 83% withdrawn
- Group 7 Rod 3 will not move and is declared inoperable

Current conditions:

- Time = 0500
- Reactor power = 80% STABLE
- 1SA7 E/9 CR ROD WITHDRAWAL LIMIT comes into alarm
- Group 7 Control Rods are at 40% withdrawn

In accordance with Tech Spec 3.2.1 (Regulating Rod Position Limits)...

- 1) Boration \_\_ (1) \_\_ have to be initiated within 15 minutes.
- 2) If Control Rods are not restored to the acceptable region of the rod curves provided in the COLR, the reactor must be in MODE 3 no later than \_\_ (2) \_\_.

Which ONE of the following completes the statements above?

### **REFERENCE PROVIDED**

- A. 1. does  
2. 1900
  - B. 1. does  
2. 1700
  - C. 1. does NOT  
2. 1900
  - D. 1. does NOT  
2. 1700
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 85  
(1 point)

---

Given the following Unit 1 conditions:

- Reactor power = 100%
- Breaker Status
  - ACB 4 - Closed
  - PCB 8 - Open
  - PCB 9 - Open
- SA-2, C-1 KEOWEE PCB 9 is in alarm
- SA-2, B-1 DACUS BL. KEOWEE TIE PCB 8 is in alarm

- 1) Keowee Hydro Unit-2 \_\_(1)\_\_ be started in AUTOMATIC from the Control Room.
- 2) In accordance with the basis of Tech Spec 3.8.1 (AC Systems-Operating), Keowee Hydro Unit -1 is currently \_\_(2)\_\_.

Which ONE of the following completes the statements above?

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

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 86  
(1 point)

---

Given the following Unit conditions:

- RCS temperature = 240°F slowly decreasing
- RCS pressure = 275 psig slowly decreasing

In accordance with Tech Spec 3.4.12 (LTOP System)...

- 1) Pressurizer level \_\_ (1) \_\_ required to be <220 inches?
- 2) When Pressurizer level does NOT meet the requirements of Tech Spec 3.4.12, \_\_ (2) \_\_ is required?

### **REFERENCE PROVIDED**

- A.
    1. is
    2. shutting down to MODE 5 in accordance with LCO 3.0.3
  - B.
    1. is
    2. establishing a dedicated LTOP operator within 4 hours
  - C.
    1. is NOT
    2. shutting down to MODE 5 in accordance with LCO 3.0.3
  - D.
    1. is NOT
    2. establishing a dedicated LTOP operator within 4 hours
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 87**  
(1 point)

---

Given the following Unit 1 conditions:

Time = 0600

- Reactor power = 90%
- RPS Channel B High RB pressure fails HIGH
- RPS Channel B is Placed in Manual Bypass

Time = 0800

- RPS Channel C High RB pressure fails LOW

Time = 0815

- RPS Channel C placed in TRIP

Time = 0830

- RPS Channel A High RB pressure fails LOW

- 1) An automatic Reactor trip   (1)   occurred.
- 2) TS 3.3.1 (RPS Instrumentation) requires that all CRD trip breakers be open no later than   (2)  .

Which ONE of the following completes the statements above?

### **REFERENCE PROVIDED**

- A.
    1. has
    2. 1430
  - B.
    1. has
    2. 2030
  - C.
    1. has NOT
    2. 1430
  - D.
    1. has NOT
    2. 2030
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 88**  
(1 point)

---

Given the following Unit 1 conditions:

- Reactor Power = 100%
- While performing SR 3.3.5.2, Manual ES Setpoint Verification, SPOC determines that Reactor Building Pressure High “as found” setpoints to be as follows:  
A = 3.53 psig  
B = 4.04 psig  
C = 4.09 psig

- 1) The Actual Setpoint for ES RB Pressure High is \_\_ (1) \_\_ psig.
- 2) ALL Tech Spec 3.3.5 (ESPS Input Instrumentation) Conditions that must be entered are Condition(s) \_\_ (2) \_\_.

Which ONE of the following completes the statement above?

### **REFERENCE PROVIDED**

- A.
    1. 3.0
    2. A and B
  - B.
    1. 3.0
    2. A ONLY
  - C.
    1. 3.5
    2. A and B
  - D.
    1. 3.5
    2. A ONLY
-



# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 89  
(1 point)

---

Given the following Unit 1 conditions:

- Startup in progress
- Reactor in MODE 3
- 1A RBS pump inoperable

- 1) Tech Spec 3.6.5 (Reactor Building Spray and Cooling Systems) LCO \_\_ (1) \_\_ met.
- 2) When Tech Spec 3.6.5 LCO is NOT met, Unit 1 entry into MODE 2 \_\_ (2) \_\_ allowed.

Which ONE of the following completes the above statement?

- 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 SRO NRC Examination*

**Question: 90**  
(1 point)

---

Given the following Unit 1 conditions:

Time = 0700

- Reactor power = 75% stable
- 1A RBCU INOPERABLE

Time = 0800

- 1SA/9 A-6 REACTOR BUILDING NORMAL SUMP LEVEL HIGH/LOW in alarm
- 1C RBCU flow indications
  - $\Delta$  Flow = 270 gpm
  - Inlet Flow = 560 gpm

Time = 0810

- 1LPSW-22 (1C RBCU INLET) and 1LPSW-24 (RBCU 1C OUTLET) are closed
- RB Sump level has stopped increasing

- 1) At 0800, 1SA/9 D-9 RBCU C COOLER RUPTURE \_\_ (1) \_\_ be in alarm.
- 2) At 0810, Containment is \_\_ (2) \_\_ in accordance with Tech Spec 3.6.1 (Containment).

Which ONE of the following completes the statements above?

- A. 1. should  
2. OPERABLE
  - B. 1. should  
2. INOPERABLE
  - C. 1. should NOT  
2. OPERABLE
  - D. 1. should NOT  
2. INOPERABLE
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 91**  
(1 point)

---

Given the following Unit 1 conditions:

Time = 1200:

- Reactor startup in progress
- Reactor power = 6E-3% stable on all WR NI's
- 1NI-1 and 1NI-3 Source Range Channels are unavailable

Time = 1205:

- 1NI-2 Source Range power supply fails

1) 1NI-1 and 1NI-3 are located in RPS channels A and \_\_ (1) \_\_ respectively.

2) At Time = 1205, Tech Specs \_\_ (2) \_\_ allow the power increase to continue to greater than 5% power.

Which ONE of the following completes the statements above?

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

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 92  
(1 point)

---

Given the following Unit 3 conditions:

- Reactor in MODE 6
- Core offload in progress
- Main Fuel Bridge is withdrawing a fuel assembly

- 1) A loss of the \_\_ (1) \_\_ interlock would increase the risk of fuel assembly damage during withdrawal.
- 2) In accordance with MP/0/A/1500/009 (Reactor Bridge Operation), \_\_ (2) \_\_ must authorize bypassing the above interlock.

Which ONE of the following completes the statement above?

- A.
    1. Fuel Overload (TS-1)
    2. BOTH the Fuel Handling Supervisor AND the Refueling SRO
  - B.
    1. Fuel Overload (TS-1)
    2. EITHER the Fuel Handling Supervisor OR the Refueling SRO
  - C.
    1. Fuel Hoist Up/Down (TS-2)
    2. BOTH the Fuel Handling Supervisor AND the Refueling SRO
  - D.
    1. Fuel Hoist Up/Down (TS-2)
    2. EITHER the Fuel Handling Supervisor OR the Refueling SRO
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 93**  
(1 point)

---

Given the following Unit 1 conditions:

- Loss of all feedwater has occurred
- The Loss Of Heat Transfer (LOHT) tab is in progress
- The RO is lining up to feed the SGs with the Condensate Booster Pumps (CBP)
- The RO has just selected OFF for both channels on AFIS headers A and B.

- 1) The next procedural step in Rule 3 is to open the \_\_ (1) \_\_ block and control valves to allow CBP flow when Steam Generator pressure is decreased.
- 2) Once Condensate Booster Pump feed has been established in accordance with Rule 3, the procedure director will \_\_ (2) \_\_ the LOHT tab.

Which ONE of the following completes the statements above?

- A.
    1. Main
    2. wait until EFDW has been made available before continuing in
  - B.
    1. Main
    2. continue in
  - C.
    1. Startup
    2. wait until EFDW has been made available before continuing in
  - D.
    1. Startup
    2. continue in
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 94**  
(1 point)

---

Given the following Unit 1 conditions:

- Maintenance is being performed on Unit 1 condensate system
- The clearance for the section of piping connected to the component is such that the piping can be vented but not drained.

In accordance with SOMP 2-1 (Safety Tagging And Configuration Control)...

- 1) An SRO with an "Inactive" license \_\_ (1) \_\_ allowed to sign the WOTA Ready for Work.
- 2) Zero Energy Comments \_\_ (2) \_\_ have to be entered into ST-2 prior to setting the WOTA Ready for Work.

Which ONE of the following completes the statements above?

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

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 95  
(1 point)

---

Given the following Unit 1 conditions:

- SGTR tab in progress
- RCS temperature = 530°F stable
- 1A SG isolated
- 3 RCP's operating
- HPI pump suction aligned to BWST
- Group 3 Rod 2 100% withdrawn

- 1) \_\_\_ (1) \_\_\_ tab of the EOP will be utilized to cooldown to LPI.
- 2) In accordance with the EOP tab above, the lowest RCS temperature allowed prior to performing a Shutdown Margin verification is \_\_\_(2)\_\_\_ °F.

Which ONE of the following completes the statements above?

- A. 1. SGTR  
2. 240
  - B. 1. SGTR  
2. 450
  - C. 1. FCD  
2. 240
  - D. 1. FCD  
2. 450
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 96  
(1 point)

---

- 1) When Tech Spec 3.2.1 (Regulating Rods Position Limits) requires RCS Boration, the basis of the spec allows the SRO to direct boration using \_\_ (1) \_\_.
- 2) The consequences of being in the Unacceptable region of the rod curve is that \_\_ (2) \_\_.

Which ONE of the following completes the statements above?

- A.
    1. 1A BHUT
    2. required shutdown margin may not exist
  - B.
    1. 1A BHUT
    2. Quadrant Power Tilt limits may be exceeded
  - C.
    1. BWST
    2. required shutdown margin may not exist
  - D.
    1. BWST
    2. Quadrant Power Tilt limits may be exceeded
-



# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 97**  
(1 point)

---

Given the following Unit 1 conditions:

Initial conditions:

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

Current conditions:

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

The Refueling SRO will determine that Fuel Handling activities in the Reactor Building may \_\_\_\_\_ in accordance with OP/1/A/1502/007 (Operations Defueling/Refueling Responsibilities)?

Which ONE of the following completes the statement above?

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

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

Question: 98  
(1 point)

---

Given the following plant conditions:

- Shift is preparing for ONE (1) GWR release of the 1A GWD tank at the 1/3 Station Limit
- The release will be through the P/A/C filter
- 1A GWD tank holdup time is 41 days

Which ONE of the following describes the:

- 1) MINIMUM level of authority for approval in accordance with OP/1-2/A/1104/018 (GWD System)?
  - 2) SLC bases for limiting the Curie content of the Gaseous Waste Disposal (GWD) Tanks?
- 
- A.
    1. OSM
    2. limits Whole Body exposure of individual at the nearest exclusion boundary to  $\leq 0.5$  Rem in the event of a GWD tank rupture.
  - B.
    1. OSM
    2. limits Whole Body exposure of individual at the nearest exclusion boundary to  $\leq 100$  mrem during a planned GWD tank release.
  - C.
    1. SRO
    2. limits Whole Body exposure of individual at the nearest exclusion boundary to  $\leq 0.5$  Rem in the event of a GWD tank rupture.
  - D.
    1. SRO
    2. limits Whole Body exposure of individual at the nearest exclusion boundary to  $\leq 100$  mrem during a planned GWD tank release.
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 99**  
(1 point)

---

Given the following Unit 1 conditions:

Initial conditions:

- SGTR on the 1A SG
- SGTR tab is in progress
- TBVs are not available
- RCS Temperature = 530°F stable

Current conditions:

- 1A SG is approaching overfill

- 1) When directing the local operation of the ADV on the 1A SG to prevent overfill, the TS limit for cooldown rate \_\_ (1) \_\_ be exceeded.
- 2) If while steaming the affected SG, SCM decreases to 0 °F, the SGTR tab directs the crew to GO TO \_\_ (2) \_\_ tab.

Which ONE of the following completes the statements above?

- A.
    1. can
    2. Loss Of Subcooling Margin (LOSCM)
  - B.
    1. can
    2. LOCA Cooldown
  - C.
    1. can NOT
    2. LOSCM
  - D.
    1. can NOT
    2. LOCA Cooldown
-

# Oconee Nuclear Station

## *ILT46 ONS SRO NRC Examination*

**Question: 100**  
(1 point)

---

Given the following Unit 1 conditions:

Time = 1200

- Unit shutting down due to a 30 gpm tube leak in "1A" SG

Time = 1203

- Unit trips due to a loss of Main Feedwater
- Emergency Feedwater is NOT available

Time = 1207

- NEO reports one Main Steam Relief Valve on the 1B SG stuck open
- Unit 2 TDEFWP aligned and feeding Unit 1 Steam Generators
- "1A" SG tube leak = 200 gpm stable

- 1) The conditions present at 1200 \_\_ (1) \_\_ require an emergency classification within 15 minutes.
- 2) At time = 1207 the emergency classification is \_\_ (2) \_\_.

**Assume no additional failures occur AND that Emergency Coordinator Judgment is NOT used as a reason for classification.**

Which ONE of the following completes the statements above?

### **REFERENCE PROVIDED**

- A.
    1. would
    2. ALERT
  - B.
    1. would
    2. SITE AREA EMERGENCY
  - C.
    1. would NOT
    2. ALERT
  - D.
    1. would NOT
    2. SITE AREA EMERGENCY
-

## *Examination KEY for: ILT46 ONS SRO NRC Examin*

<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 SRO NRC Examin*

<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 SRO NRC Examin*

<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

## *Examination KEY for: ILT46 ONS SRO NRC Examin*

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