

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 1
(1 point)

Given the following Unit 1 conditions:

Time = 1200:

- Reactor power = 100%
- BOTH Main FDW Pumps trip
- PORV opens

Time = 1205:

- Reactor power = 26% slowly lowering
- PORV has failed open

- 1) In accordance with Rule 6 (HPI), the MAXIMUM power level at which HPI can be throttled is (1) .
- 2) The reason power level is used to determine if throttling HPI is appropriate is that it ensures (2) .

Which ONE of the following completes the statements above?

- A.
 1. 5%
 2. maximum Boron addition continues until power is low enough to throttle HPI
 - B.
 1. 1%
 2. maximum Boron addition continues until power is low enough to throttle HPI
 - C.
 1. 5%
 2. sufficient core cooling exists until power level is low enough that HPI Forced cooling would become effective
 - D.
 1. 1%
 2. sufficient core cooling exists until power level is low enough that HPI Forced cooling would become effective
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 2
(1 point)

Given the following on Unit 1:

Initial conditions:

- Reactor power = 100%

Current conditions:

- SBLOCA occurs
- 1A and 1B SGs at the LOSCM setpoint

1) In order for boiler-condenser mode of heat transfer to occur, the RCS primary side water level will be __(1)__ the SG secondary side water level.

2) Based on the attached CETC trend, boiler-condenser heat transfer __(2)__ occurring.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED

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

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 3
(1 point)

Given the following conditions on U1:

- Reactor Power = 73% stable

	1B1 RCP	1B2 RCP
UPPER Cavity Pressure	710 psig stable	1420 psig stable
LOWER Cavity Pressure	1070 psig stable	2140 psig stable

Which ONE of the following describes the next required action(s) in accordance with AP/1/A/1700/016 (Abnormal Reactor Coolant Pump Operation)?

- A. Immediately trip 1B1 RCP
 - B. Immediately trip 1B2 RCP
 - C. Reduce reactor power to $\leq 70\%$ and then trip 1B1 RCP
 - D. Reduce reactor power to $\leq 70\%$ and then trip 1B2 RCP
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 4
(1 point)

Given the following on Unit 2:

Initial conditions:

- Reactor power = 100%

Current conditions:

- Pressurizer level = 195 inches lowering
- LDST level = 78 inches lowering

Which ONE of the following has occurred?

- A. Line break downstream of 2HP-7
 - B. Line break downstream of 2HP-120
 - C. 2HP-14 has failed in the “bleed” position
 - D. Loss of Instrument Air and Auxiliary Instrument Air to 2HP-5
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 5
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- Inadvertent ES channel 6 actuation occurs

Which ONE of the following will occur and why?

- A. The operating CC pump will stop to prevent deadheading the pump
 - B. RCP seal return is isolated to eliminate a containment leakage path
 - C. Letdown will isolate to prevent reaching the letdown high temperature interlock
 - D. LPSW cooling to ALL RCPs is isolated to prevent a subsequent water hammer
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 6
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 90%
- 1B Main Feedwater pump trips

Current conditions:

- Reactor power = 70% lowering
- RCS pressure = 2165 psig slowly lowering
- Pressurizer level = 228 inches slowly lowering
- Pressurizer temperature = 640°F slowly lowering
- Pressurizer heater bank 1 (Group A and K) is ON
- Pressurizer heater banks 2, 3, and 4 are in AUTO and are OFF

The pressurizer is __ (1) __ AND the pressurizer heater bank 2 __ (2) __.

Which ONE of the following completes the statement above?

- A. 1. subcooled
2. should be energized
 - B. 1. subcooled
2. will energize at 2145 psig
 - C. 1. saturated
2. should be energized
 - D. 1. saturated
2. will energize at 2145 psig
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 7
(1 point)

Given the following Unit 3 conditions:

- Rule 1, (ATWS / Unanticipated Nuclear Power Production) has been initiated
- 1) In accordance with Rule 1, an operator will be dispatched to open the Unit 3 CRD 600V normal power supply breaker at 3X9 and alternate 600V power supply breaker at __ (1) __.
 - 2) DSS is interlocked to automatically de-energize Control Rod Groups 1 – 7 at a high RCS Pressure setpoint of __ (2) __ psig.

Which ONE of the following completes the statements above?

- A. 1. 2X2
2. 2450
 - B. 1. 1X1
2. 2450
 - C. 1. 2X2
2. 2500
 - D. 1. 1X1
2. 2500
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 8
(1 point)

Given the following Unit 1 conditions:

- Reactor Power = 29% lowering
- Primary to secondary leakage in 1A SG
- PZR level = 160 inches slowly lowering
- Only 1A HPI Pump operating
- 1HP-120 full open
- 1HP-5 closed

The EOP SGTR tab...

- 1) __ (1) __ direct operators to use 1RIA-59 and 1RIA-60 to determine the SG tube leak rate.
- 2) __ (2) __ direct manually tripping the Reactor at this time.

Which ONE of the following completes the statements above?

- 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

ILT20-1 ONS RO NRC Examination

Question: 9
(1 point)

Given the following Unit 2 conditions:

- Loss of Heat Transfer has occurred
- Unit 2 TDEFWP is now available to feed the Steam Generators
- 2A SG level = 6 inches XSUR slowly lowering
- 2A SG pressure = 500 psig slowly lowering
- 2B SG level = 4 inches XSUR slowly lowering
- 2B SG pressure = 330 psig slowly lowering

In accordance with Rule 7 (Steam Generator Feed Control), the MAXIMUM initial feed rate for the above conditions is __(1)__, in order to prevent __(2)__.

Which ONE of the following completes the statement above?

- A. 1. 100 gpm to EACH SG
 2. water hammer damage to voided feedwater lines
- B. 1. 100 gpm to EACH SG
 2. damage to SG tubes
- C. 1. 1000 gpm per header
 2. an RCS overcooling event
- D. 1. 1000 gpm per header
 2. damage to TDEFDW pump (runout)
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 10
(1 point)

Given the following Unit 1 conditions:

- Station Blackout occurred from 100% power
- SSF has been activated with SSF RC Makeup required
- U1 TDEFDWP is feeding both U1 SGs
 - 1FDW-315 manually throttled to 325 gpm
 - 1FDW-316 manually throttled to 330 gpm
- RCS NR Tc = 550°F slowly lowering
- MS Pressure = 1000 psig slowly lowering
- RCS Pressure = 1940 psig slowly lowering
- 1A SG XSUR level = 205 inches rising
- 1B SG XSUR level = 208 inches rising

In accordance with Rule 7 (SG Feed Control), the reason EFDW Flow should INITIALLY be throttled is to _____.

Which ONE of the following completes the statement above?

- A. maintain RCS NR Tc of 550 - 555°F
 - B. raise RCS Pressure to 1950 – 2250 psig
 - C. raise MS Pressure to approximately 1010 psig
 - D. lower 1A and 1B SG XSUR levels to proper setpoint
-

Oconee Nuclear Station

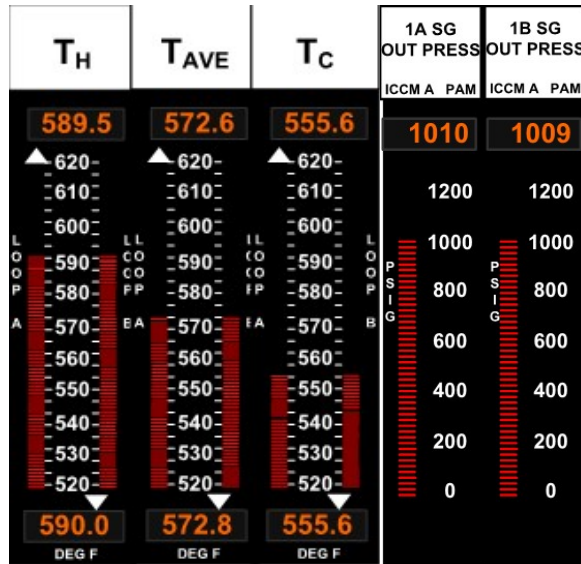
ILT20-1 ONS RO NRC Examination

Question: 11
(1 point)

Time = 1200:

- Unit 1 reactor power = 100%
- EFPD = 400
- Switchyard Isolation occurs

Time = 1217:



- 1) At Time = 1217, steady state natural circulation conditions (1) been established.
- 2) IF steady state natural circulation is established, the RCS loop transit time will be approximately (2) minutes.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED (above)

- A. 1. have
2. 4 - 7
- B. 1. have
2. 8 - 10
- C. 1. have NOT
2. 4 - 7
- D. 1. have NOT
2. 8 - 10

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 12
(1 point)

Given the following on Unit 1:

Initial conditions:

- 1SA-06/A-2 (EL Inverter 1DIC System Trouble) actuates

Current conditions:

- 1SA-13/B-7 (Inverter 1DIC Output Voltage Low) actuated in the Equipment Room

- 1) 1SA-13/B-7 actuated when voltage lowered below a MAXIMUM of __(1)__ volts.
- 2) Manual transfer of the vital loads on 1KVIC to Regulated Power Panelboard (1KRA) will be performed using the __(2)__ on 1DIC Inverter.

Which ONE of the following completes the statements above?

- A.
 1. 72
 2. Manual Bypass Switch
 - B.
 1. 72
 2. Alternate Source to Load Pushbutton
 - C.
 1. 115
 2. Manual Bypass Switch
 - D.
 1. 115
 2. Alternate Source to Load Pushbutton
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 13
(1 point)

Plant conditions:

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

Based on the above conditions, which ONE of the following will automatically supply power to 1DIA panelboard?

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

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 14
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- A and B LPSW pumps operating

Current conditions:

- A LPSW pump trips due to breaker failure
- Standby LPSW pump will NOT start
- AP/1/A/1700/024 (Loss of LPSW) initiated

1) 1LPSW-1121, 1122, 1123, and 1124 will close at a MAXIMUM LPSW header pressure of __ (1) __ psig lowering.

2) The reason the above valves automatically close is to __ (2) __.

Which ONE of the following completes the statements above?

- A.
 - 1. 25
 - 2. prevent LPSW pump run out
 - B.
 - 1. 25
 - 2. prevent water hammers in the LPSW system
 - C.
 - 1. 18
 - 2. prevent LPSW pump run out
 - D.
 - 1. 18
 - 2. prevent water hammers in the LPSW system
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 15
(1 point)

Given the following Unit 1 conditions:

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

- 1) AP/22 directs an immediate manual Reactor trip if instrument air header pressure lowers to a MAXIMUM value of __ (1) __ psig.
- 2) AP/22 directs tripping the Main FDW pumps immediately after tripping the Reactor because the controlling FDW valves fail __ (2) __.

- A. 1. 65
 2. as is
- B. 1. 70
 2. as is
- C. 1. 65
 2. closed
- D. 1. 70
 2. closed
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 16
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- Grid disturbances affecting Voltage and Frequency are occurring
- Channel 1 AVR is ACTIVE
- Operator observes that the AVR 'Ready Light' is OFF

AVR = Auto Voltage Regulator
FCR = Field Current Regulator

- 1) The Ready Light being OFF indicates that __ (1) __ are NOT matched.
- 2) If the generator reaches the Underfrequency Maximum Allowable Time given in AP/1/A/1700/034 (Degraded Grid) the Main Turbine __ (2) __ automatically trip.

Which ONE of the following completes the statements above?

- A.
 1. Channel 1 AVR and Channel 2 AVR
 2. will NOT
 - B.
 1. Channel 1 AVR and Channel 2 AVR
 2. will
 - C.
 1. Channel 1 AVR and Channel 1 FCR
 2. will NOT
 - D.
 1. Channel 1 AVR and Channel 1 FCR
 2. will
-

Oconee Nuclear Station

ILT20-1 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 rising
- 1A SG Pressure = 0 psig
- 1B SG Pressure = 990 psig slowly rising
- Turbine bypass valves in Auto
- Reactor Building pressure = 0.2 psig stable

1) The TDEFWP is __ (1) __.

2) The TDEFWP can be __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. operating
 2. secured with TDEFWP control switch ONLY after AFIS is reset
 - B.
 1. operating
 2. secured with TDEFWP control switch before AFIS is reset
 - C.
 1. NOT operating
 2. started with TDEFWP control switch ONLY after AFIS is reset
 - D.
 1. NOT operating
 2. started with TDEFWP control switch before AFIS is reset
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 18
(1 point)

Given the following Unit 1 conditions:

- Reactor tripped from 100% power
- ALL Control Rods fully inserted
- 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 is __(2)__ °F.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 19
(1 point)

Given the following Unit 1 conditions:

Time = 0800:

- Reactor power = 100%
- 1RIA-59 indicates 180 gpm stable
- CRS enters SGTR tab

Time = 0810:



1) The procedural guidance of AD-OP-ONS-0002 (Oconee Specific Abnormal Operations Guidance) __ (1) __ allow operators to open 1HP-26 for the given conditions at Time = 0800.

2) At Time = 0810, 1HP-24 and 1HP-25 are __ (2) __.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED (above)

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

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 20
(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Reactor power = 100%
- Pzr level Channel 3 is selected
- SASS in MANUAL

Current conditions:

- Pzr level Channel 3 fails to 100 inches
- The CRS has not entered any abnormal procedure
- The RO has not yet referenced any alarm response guide
- The RO requests CRS concurrence to select a valid Pzr level indication

- 1) Prior to any operator action, the operating HPI pump current (amps) will (1) .
- 2) Based on the current conditions, AD-OP-ALL-1000 (Conduct of Operations) (2) allow the RO to select a valid Pzr level indication with ONLY CRS verbal concurrence.

Which ONE of the following completes the statements above?

- A. 1. rise
 2. does NOT

 - B. 1. rise
 2. does

 - C. 1. lower
 2. does NOT

 - D. 1. lower
 2. does
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 21
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

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

Current conditions:

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

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

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

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 22
(1 point)

Given the following on Unit 1:

Initial conditions:

- Reactor power = 100% stable
- Plant issue requires rapid shutdown
- AP/1/A/1700/029 (Rapid Unit Shutdown) initiated

Current conditions:

- CRS directs RO to depress MAXIMUM RUNBACK

1) In accordance with AP/29, __(1)__ Main FDW pump is the preferred pump to be shutdown first.

2) The reason the above Main FDW pump is the preferred pump to be shutdown first is because its high discharge pressure trip setpoint is set __(2)__ than that of the remaining Main FDW pump.

Which ONE of the following completes the statement above?

- A. 1. 1A
 2. higher

 - B. 1. 1A
 2. lower

 - C. 1. 1B
 2. higher

 - D. 1. 1B
 2. lower
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 23
(1 point)

Given the following Unit 1 conditions:

Time = 1200:00:

- Reactor power = 40%
- PCB 20 and PCB 21, Generator Output Breakers OPEN

Time = 1200:15:

- Main Turbine trips

At Time = 1202:00...

1) the SGs (1) be fed from Main feedwater.

2) reactor heat removal (2) be from forced circulation.

Which ONE of the following completes the statements above?

NO OPERATOR ACTIONS ARE TAKEN

- 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

ILT20-1 ONS RO NRC Examination

Question: 24
(1 point)

Given the following on Unit 3 Auxiliary Shutdown Panel:

- 3B HPI pump Remote/Local Selector in LOCAL position
- Unit 3 Turbine Bypass Valves in MANUAL controlling SG pressure

- 1) The 3B HPI pump __(1)__ automatically start on low RCP seal injection flow.
- 2) The Unit 3 TBVs __(2)__ automatically close on a loss of condenser vacuum condition.

Which ONE of the following completes the statements above?

- 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

ILT20-1 ONS RO NRC Examination

Question: 25
(1 point)

Given the following Unit 1 conditions:

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

1) The RCS pressure setpoint that caused Statalarm 1SA-07/E-6 to actuate is (1) psig.

2) In accordance with the LOCA CD tab, conditions are met such that operators (2) be directed to manually bypass LPI.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 26
(1 point)

Given the following Unit 1 conditions:

Time = 1200:

- Reactor power = 100%
- 1TA and 1TB lockout occurs

Time = 1300:

- Tcold = 550°F stable
- EOP Forced Cooldown (FCD) tab in progress
- Natural Circulation (NC) cooldown is initiated

- 1) At Time = 1300, the EOP FCD tab will direct the crew to establish and maintain a cooldown rate of less than a MAXIMUM of __ (1) __.
- 2) A NOTE in the EOP FCD tab states that RCS pressure will NOT be reduced until the RCS is cooled to establish \geq __ (2) __ SCM.

Which ONE of the following completes the statements above?

- A.
 1. 50°F/hr
 2. 150°F
 - B.
 1. 50°F/hr
 2. 200°F
 - C.
 1. 25°F/hr
 2. 150°F
 - D.
 1. 25°F/hr
 2. 200°F
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 27
(1 point)

Given the following Unit 1 conditions:

Time = 0400:

- Reactor power = 100%
- PSW inoperable

Time = 0430:

- ALL CBPs trip
- ALL Emergency FDW pumps fail to start in auto or manual
- Rule 3 in progress
- LOHT tab in progress
- RCS pressure = 2258 psig rising
- Pzr level = 381 inches rising
- 1A1 and 1B2 RCPs operating

1) At Time = 0430, Rule 4 (Initiation of HPI Forced Cooling) __ (1) __ required to be initiated.

2) **IF** Rule 4 is initiated, it __ (2) __ direct the crew to secure all but one RCP..

Which ONE of the following completes the statements above?

- A. 1. is
 2. will

 - B. 1. is
 2. will NOT

 - C. 1. is NOT
 2. will

 - D. 1. is NOT
 2. will NOT
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 28
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 68%
- 1A1 RCP secured per AP/1/A/1700/016 Section 4D (Loss of RCP Seal Return)

- 1) The EARLIEST time that AP/16 Section 4D directs closing the 1A1 RCP motor cooler inlet and outlet valves, 1LPSW-7&8, is __ (1) __ after 1A1 RCP shutdown.
- 2) Individual valve position indication __ (2) __ available for 1LPSW-7&8 on the control board.

Which ONE of the following completes the statements above?

- A.
 1. 3 hours
 2. is
 - B.
 1. 3 hours
 2. is NOT
 - C.
 1. 30 minutes
 2. is
 - D.
 1. 30 minutes
 2. is NOT
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 29
(1 point)

Given the following Unit 2 conditions:

Time = 0800:

- Rx Power = 90% and stable

Time = 1100:

- A group 2 rod drops fully into the core
- AP/2/A/1700/001 (Unit Runback) initiated

- 1) At Time = 0800, available Shutdown Margin (SDM) will LOWER if letdown temperature (1) by 5°F.
- 2) At Time = 1100, the BOP determines that the regulating rods are positioned in the Unacceptable Region of the COLR. Per TS 3.2.1 (Regulating Rod Position Limits), the required action is to initiate boration to restore SDM to within the limits specified in the COLR within (2).

Which ONE of the following completes the statements above?

- A.
 1. rises
 2. 15 minutes
 - B.
 1. rises
 2. 1 hour
 - C.
 1. lowers
 2. 15 minutes
 - D.
 1. lowers
 2. 1 hour
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 30
(1 point)

Given the following Unit 1 conditions:

- LOCA CD tab in progress
- Cooldown and de-pressurization in progress
- Core SCM = 6°F stable
- ECCS suction swap to the RBES is complete
- LPI pump rooms are accessible

In accordance with the LOCA CD tab...

- 1) During the cooldown, LPI __ (1) __ required to be aligned in a split flow arrangement with one train supplying HPI pump suction and the other train providing decay heat removal.
- 2) IF LPI is aligned in the split flow arrangement described above, the LPI train supplying the HPI pumps will take suction from the __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. is
 2. RBES
 - B.
 1. is
 2. DHR drop line
 - C.
 1. is NOT
 2. RBES
 - D.
 1. is NOT
 2. DHR drop line
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 31
(1 point)

Given the following Unit 2 conditions:

- RCS cooldown in progress
- 2A LPI cooler isolated due to cooler leak

- 1) The LPI Decay Heat Removal mode that will be used for the INITIAL transition to LPI cooling is __ (1) __.
- 2) The HIGHEST RCS pressure that will allow aligning LPI in the NORMAL Decay Heat Removal mode is __ (2) __ psig.

Which ONE of the following completes the statements above?

- A.
 1. High Pressure
 2. 115
 - B.
 1. High Pressure
 2. 220
 - C.
 1. Switchover
 2. 115
 - D.
 1. Switchover
 2. 220
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 32
(1 point)

Which ONE of the following is the power supply for 3CF-2 (3B CFT Outlet)?

- A. 3XC
 - B. 3XL
 - C. 3XN
 - D. 3XP
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 33
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- Leak through 1RC-66 (PORV) = 0.6 gpm

Pzr level will (1) and initially Quench Tank (2) will rise.

Which ONE of the following completes the statement above?

- A. 1. rise
 2. level

 - B. 1. rise
 2. pressure

 - C. 1. remain constant
 2. level

 - D. 1. remain constant
 2. pressure
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 34
(1 point)

Which ONE of the following will result in the Standby Component Cooling pump receiving an automatic start signal?

- A. CRD Outlet HDR Flow lowers to 136 gpm
 - B. Component Cooling Total Flow lowers to 568 gpm
 - C. Component Cooling Pump Discharge Pressure lowers to 95 psig
 - D. Main Feeder Bus 1 (MFB1) locks out and de-energizes due to overcurrent
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 35
(1 point)

Given the following Unit 1 conditions:

- Recovery from HPI Forced Cooling in progress
- Pzr level = 400 inches stable
- Lowest SCM = 33°F

When the PORV is closed....

- 1) a one degree rise in temperature can raise RCS pressure a MAXIMUM of approximately (1) psig.
- 2) EOP Encl. 5.40 (Recovery From HPI Forced Cooling) will direct the crew to initially control HPI by (2).

Which ONE of the following completes the statements above?

- A.
 1. 100
 2. lowering HPI flow to provide only for RCS leakage and seal injection
 - B.
 1. 100
 2. maintaining HPI flow approximately constant to maintain stable RCS temperature
 - C.
 1. 50
 2. lowering HPI flow to provide only for RCS leakage and seal injection
 - D.
 1. 50
 2. maintaining HPI flow approximately constant to maintain stable RCS temperature
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 36
(1 point)

Given the following Unit 2 conditions:

Time = 0800:

- Reactor power = 100%

Time = 0805:

- FDW transient occurs
- Controlling RCS Narrow Range pressure signal peaked at 2210 psig

1) At Time = 0805, 2RC-1 __ (1) __ open.

2) The Controlling RCS Narrow Range pressure signal to 2RC-1 is determined by __ (2) __ RCS pressure.

Which ONE of the following completes the statements above?

- A. 1. is
 2. 2.MAX

 - B. 1. is
 2. median select

 - C. 1. is NOT
 2. 2.MAX

 - D. 1. is NOT
 2. median select
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 37
(1 point)

Given the following on Unit 1:

Initial conditions:

- Reactor power = 100%
- BOTH Main Feedwater Pumps trip

Current conditions:

- Reactor power = 57% slowly lowering

- 1) The correct sequence of activities directed by Rule 1 (ATWS) is to __ (1) __.
- 2) The direction given to the operator opening the CRD breakers is to __ (2) __ Arc Flash PPE.

Which ONE of the following completes the statements above?

- A.
 1. dispatch an operator to open the CRD breakers THEN align HPI injection from the BWST
 2. wear
 - B.
 1. dispatch an operator to open the CRD breakers THEN align HPI injection from the BWST
 2. NOT wear
 - C.
 1. align HPI injection from the BWST THEN dispatch an operator to open the CRD breakers
 2. wear
 - D.
 1. align HPI injection from the BWST THEN dispatch an operator to open the CRD breakers
 2. NOT wear
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 38
(1 point)

Given the following Unit 3 conditions:

- Reactor power = 100%
- ES Analog Channel "C" WR RCS pressure signal fails LOW
- No FAULTED signals are present

ES Channels __(1)__ are all **now** in a __(2)__ logic for automatic actuation.

Which ONE of the following completes the statement above?

- A. 1) 1 – 4 ONLY
 2) 2 out of 2
- B. 1) 1 - 6
 2) 2 out of 2
- C. 1) 1 – 4 ONLY
 2) 1 out of 2
- D. 1) 1 - 6
 2) 1 out of 2
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 39
(1 point)

Given the following Unit 3 conditions:

Time = 0800:

- Reactor Power = 100%
- RBCUs 3B and 3C running in LOW Speed
- Reactor Building average temperature = 120°F stable
- 3LPSW-18, 21, 24 have been FULL OPEN for the last 2 hours for testing

Time = 0830:

- Inadvertent ES Channel 5 actuation

- 1) With no operator action, once stabilized, RB pressure will be (1) RB pressure at Time = 0800.
- 2) LCO TS 3.6.4 (Containment Pressure) states that Containment pressure shall be $\leq +$ (2) psig.

Which ONE of the following completes the statements below?

- A.
 1. lower than
 2. 2.45
 - B.
 1. lower than
 2. 1.2
 - C.
 1. approximately the same as
 2. 2.45
 - D.
 1. approximately the same as
 2. 1.2
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 40
(1 point)

Given the following Unit 1 conditions:

- The Reactor trips from 100% power due to a LBLOCA

1) EOP Encl. 5.1 (ES Actuation) directs initiation of Encl. 5.12 (ECCS Suction Swap to RBES) at a MAXIMUM level of __(1)__ feet in the BWST.

2) TSP (Trisodium Phosphate Dodecahydrate) is added to the RB Emergency Sump to allow RBS to __(2)__.

Which ONE of the following completes the statements above?

- A. 1. 15
 2. aid in keeping Iodine in solution, ultimately reducing offsite dose
- B. 1. 15
 2. minimize hydrogen production from Radiolysis
- C. 1. 19
 2. aid in keeping Iodine in solution, ultimately reducing offsite dose
- D. 1. 19
 2. minimize hydrogen production from Radiolysis
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 41
(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

With no operator actions...

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. remain open
 2. remain open

 - B. 1. remain open
 2. close

 - C. 1. close
 2. remain open

 - D. 1. close
 2. close
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 42
(1 point)

Given the following Unit 3 conditions:

Time = 04:00:00:

- Reactor power = 70% stable
- 3A Main FDW Pump suction pressure = 236 psig lowering

Time = 04:01:25:

- 3A Main FDW Pump suction pressure = 230 psig lowering

With no operator actions, at Time = 04:01:25...

1) 3A Main FDW pump __ (1) __ tripped.

2) U3 Reactor power is __ (2) __.

- A. 1. has
 2. stable at 65%
- B. 1. has
 2. lowering at 20% per minute
- C. 1. has NOT
 2. stable at 70%
- D. 1. has NOT
 2. lowering at 20% per minute
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 43
(1 point)

Given the following on Unit 2:

Initial conditions:

- Reactor power = 100%

Current conditions:

- Both MFDW pumps trip
- Rule 3 in progress
- 2A EFDW flow = 95 gpm stable
- 2FDW-315 will NOT control in auto or manual

In accordance with EOP Encl. 5.27 (Alternate Methods for Controlling EFDW Flow)...

1) the first method to control 2A SG level will use __(1)___.

2) the U2 TDEFDW Pump __(2)___ required to be placed in PULL TO LOCK.

Which ONE of the following completes the statements above?

- A. 1. 2FDW-315 local operation
 2. is

 - B. 1. 2FDW-315 local operation
 2. is NOT

 - C. 1. 2FDW-35 from Control Room
 2. is

 - D. 1. 2FDW-35 from Control Room
 2. is NOT
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 44
(1 point)

Given the following Unit 1 conditions:

Time = 0400:

- Reactor power = 100%
- TDEFDW Pump OOS
- Switchyard Isolation occurs

Time = 0403:

- 1A and 1B MDEFDW Pumps operating
- Power is lost to the Moore Controller HAND/AUTO Station for 1FDW-316

1B SG level will stabilize at _____.

Which ONE of the following completes the statement above?

NO OPERATOR ACTIONS ARE TAKEN

- A. 30 inches XSUR
 - B. 240 inches XSUR
 - C. dryout conditions
 - D. water in the steam lines
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 45
(1 point)

Given the following Unit 2 conditions:

- Reactor power = 100%
- 2TD Switchgear de-energizes

Which ONE of the following remains available?

- A. 2C RBCU
 - B. 2B LPI pump
 - C. 2B HPI pump
 - D. 2A MD EFDW pump
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 46
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 22% power
- CT-1 Amps = 2000
- Central Switchyard is energizing the STBY Buses
- PCB 17 (OCONEE WH. STARTUP TRANS. CT1 TIE) is open for maintenance

Current conditions:

- Yellow Bus lockout occurs

Power to Unit 1 Main Feeder Buses will be supplied from _____ Transformer.

Which ONE of the following completes the statement above?

- A. 1T
 - B. CT-4
 - C. CT-5
 - D. CT-1
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 47
(1 point)

Given the following Unit 1 conditions:

- Reactor in MODE 3
- 1KX Essential inverter DC Input breaker trips

Power to 1KX Panelboard will be restored with the _____.

Which ONE of the following completes the statement above?

- A. ASCO Switch
 - B. Auctioneering Diodes
 - C. Static Transfer Switch
 - D. Inverter Bypass Switches
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 48
(1 point)

Given the following plant conditions:

Time = 0800:00:

- KHU 1 generating to the grid
- KHU emergency start signal received

Time = 0800:10:

- KHU 1 speed = 183 rpm rising

Time = 0800:35:

- KHU 1 speed = 181 rpm lowering

1) At Time = 0800:35, **KHU 1** __ (1) __ Emergency Locked out (ELO).

2) **KHU 2** __ (2) __ shutdown when the KHU emergency start signal is RESET.

Which ONE of the following completes the statements above?

- A. 1. has
 2. will

 - B. 1. has
 2. will NOT

 - C. 1. has NOT
 2. will

 - D. 1. has NOT
 2. will NOT
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 49
(1 point)

Given the following on Unit 1:

Initial conditions:

- Reactor power = 100%
- 1A GWD tank release in progress
- 1RIA-38 OOS

Current conditions:

- Loss of power to 1RIA-37 RM-80 skid

1) 1GWD-4 (A GWD TANK DISCHARGE) will __(1)___.

2) Unit 1's Waste Gas Decay Tank discharge flow rate (scfm) is monitored on __(2)___.

Which ONE of the following completes the statements above?

- A. 1. remain open
2. 1VB1 (side board)
 - B. 1. remain open
2. 1AB3 (back board)
 - C. 1. automatically close
2. 1VB1 (side board)
 - D. 1. automatically close
2. 1AB3 (back board)
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 50
(1 point)

- 1) The automatic runback of LPSW flow to the LPI system is based upon an interlock using __(1)__.
- 2) The automatic runback described above will lower LPSW flow to the LPI Cooler(s) to a MAXIMUM of __(2)__ gpm.

Which ONE of the following completes the statements above?

- A.
 1. LPSW flow to a single LPI cooler
 2. 3000
 - B.
 1. LPSW flow to a single LPI cooler
 2. 5200
 - C.
 1. total LPSW flow to both LPI coolers
 2. 3000
 - D.
 1. total LPSW flow to both LPI coolers
 2. 5200
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 51
(1 point)

Which ONE of the following states all of the switchgear that can supply power to C LPSW pump?

- A. 1TC ONLY
 - B. 2TC ONLY
 - C. 1TD ONLY
 - D. 1TD or 2TD
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 52
(1 point)

Given the following Unit 3 conditions:

Time = 0800:

- 3CC-8 fails closed due to loss of Instrument Air (IA)
- AP/3/A/1700/020 (Loss of Component Cooling) initiated

Time = 0803:

- AO manually opened 3CC-8 (CC Return Outside Block)

Time = 0900:

- IA restored to 3CC-8
- AO has taken NO further action

1) At Time = 0803, both Unit 3 CC pumps (1) operating.

2) At Time = 0900, 3CC-8 (2) be operated from the Control Room.

Which ONE of the following completes the statements above?

- A. 1. are
 2. can

 - B. 1. are
 2. can NOT

 - C. 1. are NOT
 2. can

 - D. 1. are NOT
 2. can NOT
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 53
(1 point)

Given the following plant conditions:

Time = 0400:

- Backup IA Compressors in STBY1
- Primary IA Compressor tripped

Time = 0405:

- Instrument Air pressure = 91 psig lowering

At Time = 0405...

1) Auxiliary IA Compressors are __(1)__.

2) Backup IA Compressors are __(2)__.

Which ONE of the following completes the statements above?

ASSUME NO OPERATOR ACTIONS

- A. 1. OFF
 2. operating

 - B. 1. OFF
 2. OFF

 - C. 1. operating
 2. operating

 - D. 1. operating
 2. OFF
-

Oconee Nuclear Station

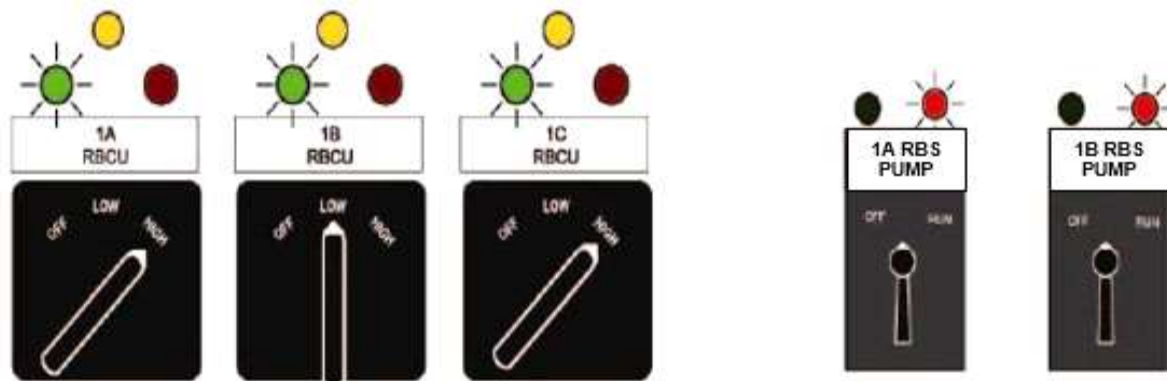
ILT20-1 ONS RO NRC Examination

Question: 54
(1 point)

Given the following Unit 1 conditions:
Time = 1300:

- Reactor power = 100%
- LBLOCA occurs
- RCS Pressure 40 psig and lowering
- RB Pressure 20 psig and rising

Time = 1302:30:



At Time = 1302:30:

- 1) 1A, 1B, 1C RBCUs __ (1) __.
- 2) 1A and 1B RBS pumps __ (2) __.

Which ONE of the following completes the statement above?

REFERENCE PROVIDED (above)

1. are operating correctly
2. should NOT be operating
1. should ALL be operating in LOW speed
2. should NOT be operating
1. are operating correctly
2. are operating correctly
1. should ALL be operating in LOW speed
2. are operating correctly

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 55
(1 point)

Given the following on Unit 2:

Initial conditions:

- Reactor power = 100%

Current conditions:

- RCS pressure = 1500 psig lowering
- RB pressure = 3.3 psig lowering

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

Which ONE of the following completes the statements above?

- A. 1. are
 2. voter in OVERRIDE
 - B. 1. are
 2. ES Channel in MANUAL
 - C. 1. are NOT
 2. voter in OVERRIDE
 - D. 1. are NOT
 2. ES Channel in MANUAL
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 56
(1 point)

Given the following Unit 1 conditions:

- OP/1/A/1105/019 (Control Rod Drive System) initiated
- Enclosure 4.15 (Recovery Of Dropped/Misaligned Safety Or Regulating Control Rod With Diamond in Automatic) in progress
- Step 2.4 states: IF affected rod is fully inserted, and Auto Latch and PI Alignment desired, perform the following:
2.4.1 Select LATCH AUTO.

- 1) When LATCH AUTO is performed, RPI __ (1) __ automatically reset to match API.
- 2) During this control rod recovery, the __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. will
 2. Controlling CRD Group will maintain Rx power constant
 - B.
 1. will
 2. Reactor Operator will be required to insert the regulating rods to stop the rise in power
 - C.
 1. will NOT
 2. Controlling CRD Group will maintain Rx power constant
 - D.
 1. will NOT
 2. Reactor Operator will be required to insert the regulating rods to stop the rise in power
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 57
(1 point)

Given the following on Unit 1:

Initial conditions:

- Reactor power = 80% stable
- Diamond and FDW Masters in HAND
- CRS directs OATC to maintain Delta Tc 0°F +/- 2°F

Current conditions:

- 1B1 RCP trips
- Crew performs Plant Transient Response
- AP/1/A/1700/001 (Unit Runback) initiated
- Delta Tc = +2.2°F and becoming more positive

- 1) The operator will be required to manually re-ratio feedwater such that feed to the ___(1)___ SG is raised.
- 2) In accordance with AP/01, the crew will be required to initiate a power reduction to a MAXIMUM of ___(2)___ %.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 58
(1 point)

Given the following on Unit 1:

Initial conditions:

- Reactor power = 100%
- SBLOCA occurs

Current conditions:

- LOCA CD tab in progress
- RCS pressure = 805 psig stable
- RCS temperature = 530°F
- RB pressure = 3.1 psig rising
- Pzr level = 25 inches rising

- 1) Indicated Pzr level rising __(1)__ due to bubble formation in the reactor vessel head.
- 2) In accordance with the LOCA CD tab, 1RC-159/1RC-160 are required to be opened when the Rx vessel head level lowers to a MAXIMUM of __(2)__ inches.

Which ONE of the following completes the statements above?

- A.
 1. is
 2. 154
 - B.
 1. is
 2. 180
 - C.
 1. is NOT
 2. 154
 - D.
 1. is NOT
 2. 180
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 59
(1 point)

Given the following Unit 2 conditions:

- Reactor power = 80%
- 0% light for Group 4 Rod 3 is lit
- AP/2/A/1700/001 (Unit Runback) initiated

- 1) The "GROUP IN LIMIT" light for Control Rod Group 4 will be __(1)__.
- 2) In accordance with AP/01, the operator __(2)__ change the rate of power reduction during the runback.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 60
(1 point)

The power supply for 1NI-2 Wide Range detector is _____.

- A. KVIA
 - B. KVIB
 - C. KVIC
 - D. KVID
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 61
(1 point)

RB Purge isolation valves 3PR-1, 3PR-2, 3PR-3, 3PR-4, 3PR-5, and 3PR-6 will ALL receive automatic close signals as a result of _____.

- A. 3RIA-45 HIGH alarm
 - B. 3RIA-46 HIGH alarm
 - C. actuation of ES channels 1 and 2
 - D. actuation of ES channels 5 and 6
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 62
(1 point)

Given the following Unit 1 conditions:

- Reactor in MODE 6
- Fuel Transfer Canal is full
- B Spent Fuel Cooling Pump aligned to Refueling Cooling Mode in accordance with OP/1/A/1102/015 (Filling and Draining FTC)

The B Spent Fuel Cooling Pump...

- 1) suction will be from the __ (1) __.
- 2) discharge will be to the __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. Decay Heat Drop Line
 2. Spent Fuel Pool
 - B.
 1. Decay Heat Drop Line
 2. Core Flood Nozzles
 - C.
 1. Spent Fuel Transfer Tube
 2. Spent Fuel Pool
 - D.
 1. Spent Fuel Transfer Tube
 2. Core Flood Nozzles
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 63
(1 point)

Given the following on Unit 1:

Initial conditions:

- Reactor power = 100%

Current conditions:

- Condenser vacuum = 21 inches Hg stable
- 1TA and 1TB de-energized

With no operator actions, SG levels will be automatically controlled at _____.

Which ONE of the following completes the statement above?

- A. 25 inches SUR
 - B. 30 inches XSUR
 - C. 50% OR
 - D. 95% OR
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 64
(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- Reactor trip
- "Trip Confirm" signal NOT generated by the Diamond

1) The Turbine Load Status Flag is __ (1) __.

2) The Turbine Bypass valves will control at __ (2) __.

- A. 1. false
 2. setpoint
- B. 1. false
 2. setpoint + 125 psig
- C. 1. true
 2. setpoint
- D. 1. true
 2. setpoint + 125 psig
-

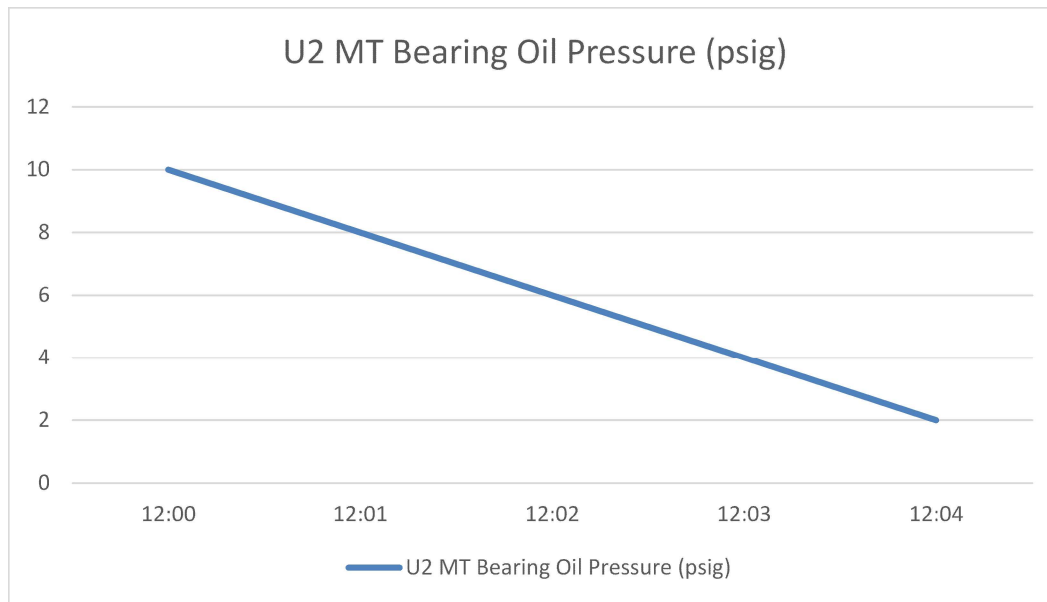
Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 65
(1 point)

Given the following Unit 2 conditions:

- Reactor shutdown from 100% in progress
- Main Turbine bearing oil leak occurs
- Reactor power = 28% stable



- 1) Based on the graph above, the EARLIEST time the Main Turbine will automatically trip is (1).
- 2) After the Main Turbine has tripped, ICS will maintain Tave at approximately (2) degrees F.

Which ONE of the following completes the statements above?

REFERENCE PROVIDED (above)

- A. 1. 12:01
2. 579
- B. 1. 12:01
2. 555
- C. 1. 12:03
2. 579
- D. 1. 12:03
2. 555

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 66
(1 point)

In accordance with OP/1/A/1102/020 Encl. 4.4, Section 4 (Off-Going Plant Status Checklist)...

- 1) The EARLIEST time Section 4 (Off-Going Plant Status Checklist) is allowed to be completed is within the last __ (1) __ of shift.
- 2) if "False" is indicated for any status check performed, ensure specific condition is recorded on (in) the __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. hour
 2. Turnover Sheet
 - B.
 1. hour
 2. Narrative Log
 - C.
 1. 30 minutes
 2. Turnover Sheet
 - D.
 1. 30 minutes
 2. Narrative Log
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 67
(1 point)

Given the following on Unit 1.

Initial conditions:

- Mode 6
- Defueling in progress
- 1RIA-6 (Spent Fuel Pool Area Monitor) = 4 mr/hr stable

Current conditions:

- 1RIA-6 monitor power supply fuse blows
- 1RIA-6 local reading = 0 mr/hr
- 1RIA-6 View Node indication is magenta

In accordance with OP/1/A/1502/007 (Operations Defueling/Refueling Responsibilities), Fuel Handling activities in the SFP can _____.

Which ONE of the following completes the statement above?

- A. continue provided 1RIA-41 (SFP Gas) is operable
 - B. continue because only the SFP Bridge area monitor is required
 - C. NOT continue until a replacement portable area radiation monitor with alarm capability is in use
 - D. NOT continue until SFP boron concentration re-sampled and SFP level re-verified and both parameters are within requirements
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 68
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- Blackout in progress
- An RO has initiated AP/0/A/1700/025 (Standby Shutdown Facility Emergency Operating Procedure)
- Breaker transfer in the SSF is complete

- 1) In accordance with AP/25, the SSF RO __ (1) __ required to initiate feed with the SSF Aux Service Water pump.
- 2) If required, 1RC-4 will be closed by __ (2) __.

Which ONE of the following completes the statements above?

- A.
 1. is NOT
 2. directing the RO in the SSF control room
 - B.
 1. is NOT
 2. using the switch in the Unit 1 control room
 - C.
 1. is
 2. directing the RO in the SSF control room
 - D.
 1. is
 2. using the switch in the Unit 1 control room
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 69
(1 point)

When establishing the Alternate Post-LOCA Boron Dilution flow alignment, the appropriate LOCA CD tab would direct opening...

- 1) valve LP-105 on __(1)__.
- 2) valve LP-19 on __(2)__.

Which ONE of the following completes the statements above?

- A.
 1. Unit 1 ONLY
 2. Unit 1 ONLY
 - B.
 1. Units 2 and 3 ONLY
 2. Unit 1 ONLY
 - C.
 1. Unit 1 ONLY
 2. Units 2 and 3 ONLY
 - D.
 1. Units 2 and 3 ONLY
 2. Units 2 and 3 ONLY
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 70
(1 point)

Given the following Unit 1 conditions:

Initial conditions:

- Reactor power = 100%
- 1SA-15/A-2 (SU Source Volt Monitor Logic Test) actuated

Current conditions:

- I&E determines the alarm actuated due to a defective alarm relay
- Repairs will take 3 – 4 days
- The CRS directs you to remove the nuisance alarm from service

In accordance with OP/0/A/1108/001 Encl. 4.17 (Evaluation for Removal of Statalarms/Control Room Indications)...

- 1) Statalarm 1SA-15/A-2 is required to be added to the __ (1) __ section of the Unit Turnover Sheet.
- 2) A CBWO or __ (2) __ label is required to be placed on the statalarm window.

Which ONE of the following completes the statements above?

- A.
 1. Out of Normal Alarms
 2. T/O Sheet
 - B.
 1. Out of Normal Alarms
 2. OOS/I&E
 - C.
 1. Equipment Deficiencies
 2. T/O Sheet
 - D.
 1. Equipment Deficiencies
 2. OOS/I&E
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 71
(1 point)

- 1) In accordance with AD-OP-ALL-0112 (Operations Log Keeping and Chart Recorders), completion of Infrequently Performed Test or Evolution (IPTE) briefs and activities __ (1) __ required to be recorded in the Narrative Log.
- 2) In accordance with AD-OP-ALL-0106 (Conduct of Infrequently Performed Tests or Evolutions) (IPTE), lowered RCS inventory __ (2) __ considered an Infrequently Performed Test or Evolution.

Which ONE of the following completes the statements above?

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

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 72
(1 point)

An RWP that you are preparing to work under states the highest dose rate in a particular area (at 30 cm) is 325 mR/hr. As you travel to the work site, a flashing blue light is noted in the entry path to the area.

- 1) The RWP will designate the area as a __ (1) __.
 - 2) The flashing blue light __ (2) __ indicate a radiography boundary.
- A.
 1. High Radiation Area
 2. does
 - B.
 1. Radiation Area
 2. does
 - C.
 1. High Radiation Area
 2. does NOT
 - D.
 1. Radiation Area
 2. does NOT
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 73
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%

Which ONE of the following would require entry into the EOP?

- A. Reactor power rises to 102%
 - B. One CRDM stator temperature rises to 185°F
 - C. Reactor Coolant System pressure rises to 2360 psig
 - D. Reactor Coolant System leakage in the RB of 55 gpm
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 74
(1 point)

Given the following Unit 1 conditions:

- Reactor power = 100%
- 1SA-3/B6 (FIRE ALARM) actuated
- Fire Alarm panel indication
 - point 0202071 (Unit 1 pipe trench room 348 North End) actuated
 - point 0202072 (Unit 1 pipe trench room 348 East Side) actuated
- AP/0/A/1700/043 (Fire Brigade Response Procedure) is in progress

1) MERT will be dispatched to the area __ (1) __.

2) In accordance with AP/0/A/1700/043, if water is to be used for extinguishing the fire, a transformer mulsifyre is activated or a fire hydrant is opened to __ (2) __.

Which ONE of the following completes the statements above?

- A.
 - 1. ONLY after the fire is confirmed
 - 2. ensure HPSW pump minimum flow requirements are met
 - B.
 - 1. ONLY after the fire is confirmed
 - 2. mitigate the pressure surge from any water hammer event that occurs upon HPSW pump start
 - C.
 - 1. at the same time as the fire brigade
 - 2. ensure HPSW pump minimum flow requirements are met
 - D.
 - 1. at the same time as the fire brigade
 - 2. mitigate the pressure surge from any water hammer event that occurs upon HPSW pump start
-

Oconee Nuclear Station

ILT20-1 ONS RO NRC Examination

Question: 75
(1 point)

Given the following Unit 2 conditions:

Initial conditions:

- Reactor power = 100%

Current conditions:

- Control Room being evacuated due to chemical spill
- The CRS has implemented AP/2/A/1700/008 (Loss of Control Room)

In accordance with AP/08,...

1) The RO is dispatched to the __ (1) __.

2) RCS pressure will be controlled utilizing Pzr heater Bank 2 Groups __ (2) __.

Which ONE of the following completes the statements above?

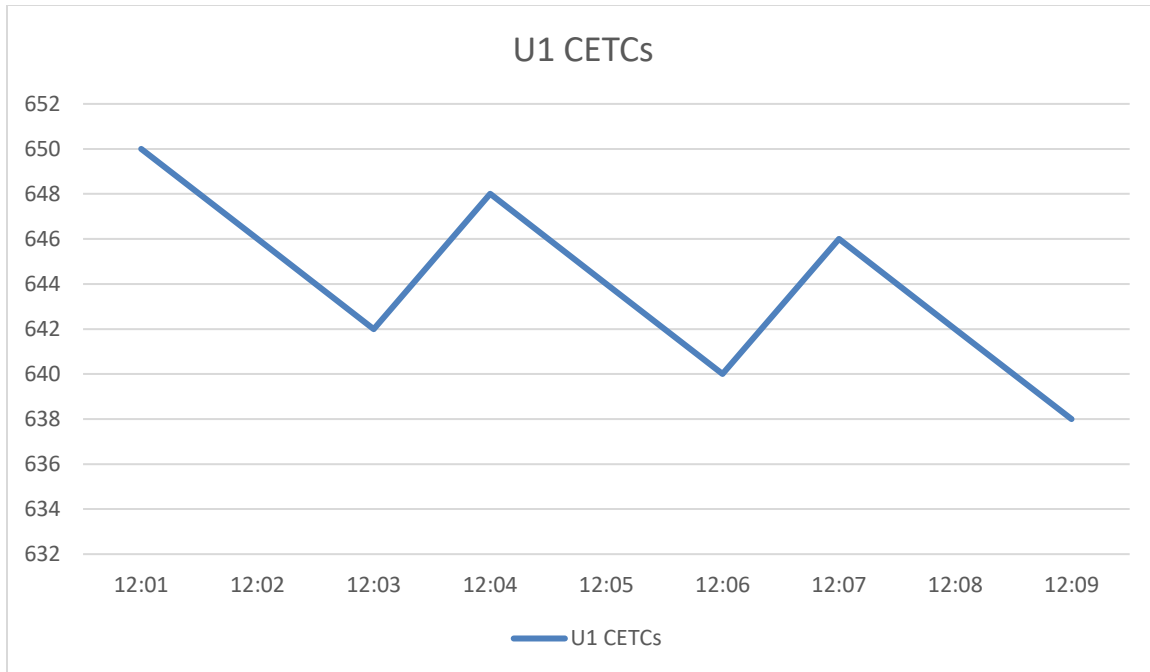
- A. 1. Standby Shutdown Facility
 2. B and C

 - B. 1. Standby Shutdown Facility
 2. B and D

 - C. 1. Unit 2 Auxiliary Shutdown Panel
 2. B and C

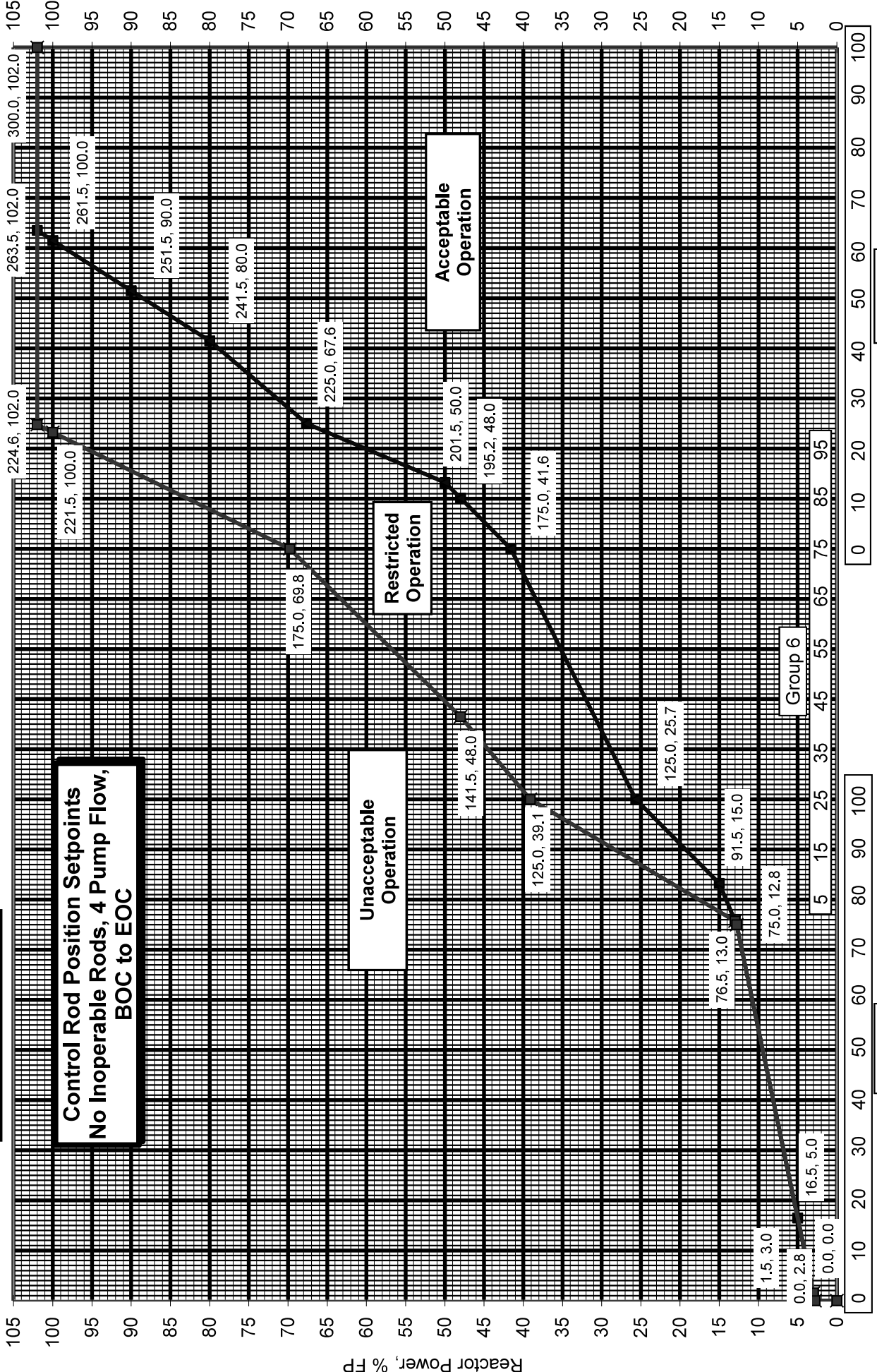
 - D. 1. Unit 2 Auxiliary Shutdown Panel
 2. B and D
-

Question 2



Referred to by TS 3.2.1

Oconee 1 Cycle 31

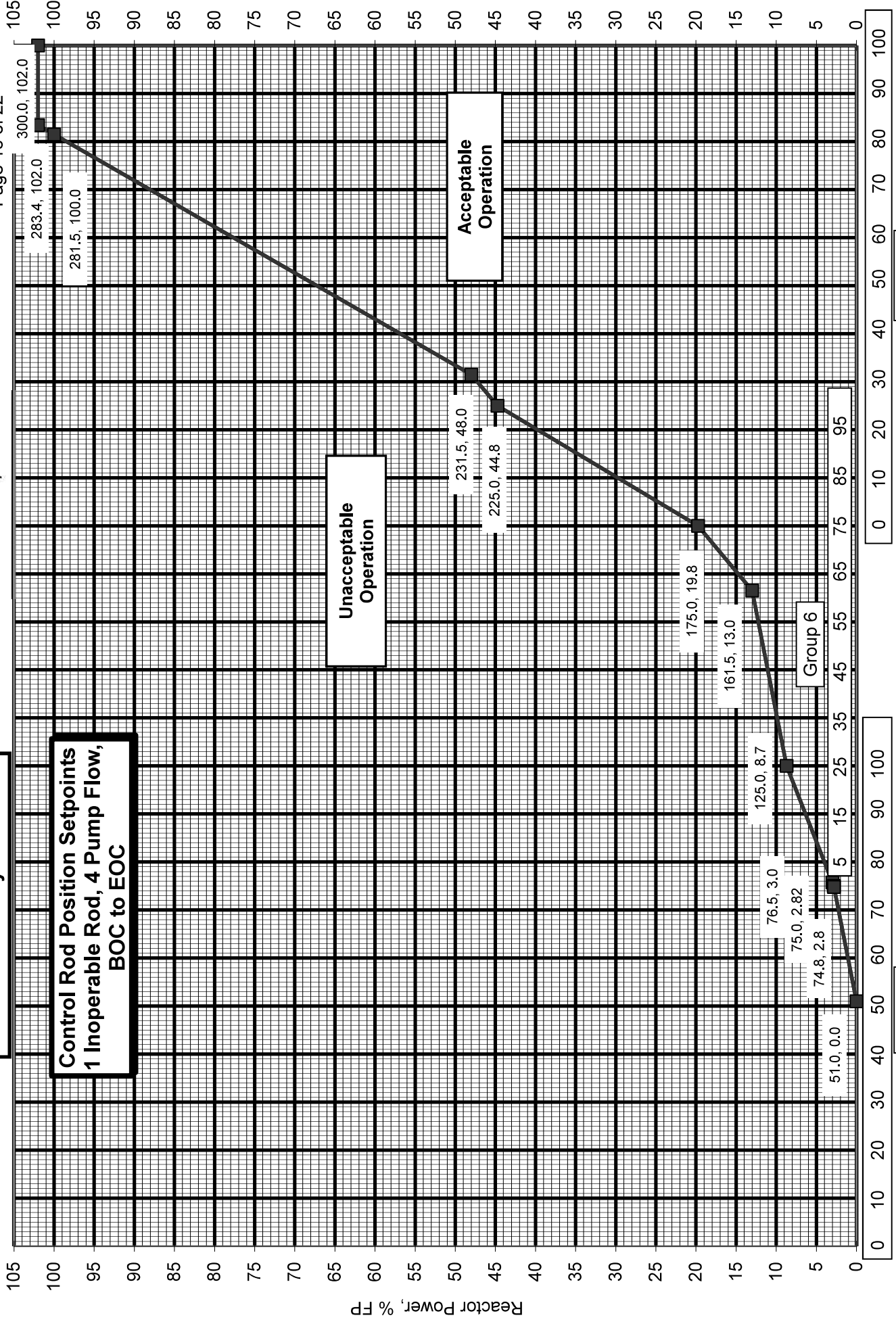


Control Rod Position, % WD

Referred to by TS 3.2.1

Oconee 1 Cycle 31

**Control Rod Position Setpoints
1 Inoperable Rod, 4 Pump Flow,
BOC to EOC**



Control Rod Position, % WD

Group 7

Group 5

Group 6

Examination KEY
ILT20-1 ONS RO NRC Examination

<i>Q</i>	<i>A</i>	<i>Q</i>	<i>A</i>	<i>Q</i>	<i>A</i>	<i>Q</i>	<i>A</i>
1	B	26	A	51	B		
2	C	27	A	52	B		
3	D	28	B	53	A		
4	B	29	C	54	C		
5	A	30	A	55	B		
6	A	31	C	56	A		
7	A	32	D	57	C		
8	D	33	C	58	A		
9	B	34	B	59	A		
10	B	35	A	60	C		
11	A	36	B	61	C		
12	C	37	D	62	A		
13	B	38	C	63	C		
14	D	39	D	64	A		
15	A	40	C	65	B		
16	D	41	C	66	A		
17	D	42	D	67	C		
18	C	43	C	68	A		
19	B	44	B	69	C		
20	B	45	C	70	A		
21	A	46	C	71	B		
22	D	47	C	72	A		
23	C	48	B	73	C		
24	D	49	C	74	C		
25	C	50	B	75	D		