

H.B. Robinson

ILC-13 NRC Licensing Exam
SRO Written Exam

Final Submittal



U.S. Nuclear Regulatory Commission
Site-Specific SRO Written Examination**Applicant Information**

Name:

Date:

Facility/Unit:

Region: I ☐ II ☐ III ☐ IV ☐Reactor Type: W ☐ CE ☐ BW ☐ GE ☐

Start Time:

Finish Time:

Instructions

Use the answer sheets provided to document your answers. Staple this cover sheet on top of the answer sheets. To pass the examination you must achieve a final grade of at least 80.00 percent overall, with 70.00 percent or better on the SRO-only items if given in conjunction with the RO exam; SRO-only exams given alone require a final grade of 80.00 percent to pass. You have 8 hours to complete the combined examination, and 3 hours if you are only taking the SRO portion.

Applicant Certification

All work done on this examination is my own. I have neither given nor received aid.

Applicant's Signature**Results**

RO/SRO-Only/Total Examination Values _____ / _____ / _____ Points

Applicant's Scores _____ / _____ / _____ Points

Applicant's Grade _____ / _____ / _____ Percent

Name: _____

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Form: 0

Version: 0

1. Given the following plant conditions:

-Plant is at 100% RTP

-RCS pressure is 2280 psig

-PC-444J, PZR PRESSURE, is in Automatic at 65% output

-PCV-455A, PZR SPRAY 444G, controller is in Automatic at 25% output

-PCV-455C, PZR PORV, partially opens

-The OAC takes action and manually closes PCV-455C

-**NO** further operator actions have been taken

-Current RCS pressure is 2150 psig

Which ONE (1) of the following completes the statements below?

PCV-455A, PZR SPRAY 444G, controller output indication currently reads (1).

PC-444J output indication currently reads (2).

A. (1) 25%
(2) 65%

B. (1) 25%
(2) 0

C. (1) 0
(2) 65%

D. (1) 0
(2) 0

2. Given the following plant conditions:

- "A" EDG is OOS

- Reactor power is at 100% RTP

Subsequently:

- A fault on 4Kv bus 2 leads to a reactor trip

- Upon the reactor trip, a small break LOCA occurs

- The crew is in EOP-E-1, LOSS OF REACTOR OR SECONDARY COOLANT

- CETC's read 547°F

- Max. CV pressure reached was 3.4 psig

- RCS Wide Range Pressure reads 1292 psig

Which ONE (1) of the following completes the statements below?

The RCS subcooling is (1) . Based off the indications above, RCP trip criteria for EOP-E-1 Foldout is (2) .

A. (1) 29.6°F
(2) **NOT** met

B. (1) 31°F
(2) met

C. (1) 29.6°F
(2) met

D. (1) 31°F
(2) **NOT** met

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3. Given the following plant conditions:

- A Seismic Event coincident with a Large Break LOCA has occurred
- CV pressure is currently 11 psig
- "B" CV Spray Pump has tripped
- All other ESF components operated properly
- CV Sump level is 380 inches and rising
- CV Radiation levels are <5 r/hr

FRP-J.1, RESPONSE TO HIGH CONTAINMENT PRESSURE

FRP-J.2, RESPONSE TO CONTAINMENT FLOODING

Which ONE (1) of the following completes the statements below?

Based off the indications above, the crew meets entry conditions for ____ (1) ____ . One of the Major Action Categories of this procedure is ____ (2) ____ .

- A. (1) FRP-J.1
(2) Verify Containment Isolation and Heat Removal
- B. (1) FRP-J.1
(2) Check for and Isolate Faulted Steam Generator
- C. (1) FRP-J.2
(2) Determine the radioactivity level of the sump fluid
- D. (1) FRP-J.2
(2) Try to Identify Unexpected Source of Sump Water and Isolate It if Possible

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4. Given the following plant conditions:

-The following conditions are at time 12:30:00:

-The Reactor is at 100% RTP

-All control systems are in normal alignments

-Charging flow has been rising and is currently at 50 gpm

-TI-140, REGEN HX LTDN OUTLET TEMP, is lowering

-VCT level is lowering

-The following conditions are at time 12:45:00:

-RCS Pressure is 2235 psig

-Charging pump discharge pressure is 2100 psig

Which ONE (1) of the following completes the statements below?

The leak is located (1) of the Regenerative Heat Exchanger.

The crew takes action to close HIC-121, Charging Flow, IAW AOP-018, REACTOR COOLANT PUMP ABNORMAL CONDITIONS, Section C, LOSS OF SEAL INJECTION. The purpose of doing this is to (2).

- A. (1) downstream
(2) isolate the charging line leak
- B. (1) downstream
(2) maintain minimum RCP Seal Injection Flow
- C. (1) upstream
(2) isolate the charging line leak
- D. (1) upstream
(2) maintain minimum RCP Seal Injection Flow

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5. Given the following plant conditions:

- The plant is in mid loop operation to repair a S/G primary manway leak
- RCS level is -68 inches and rising very slowly
- RHR pump "A" is in service at 3500 gpm
- The operator notices that RHR flow and pressure are oscillating

Which ONE (1) of the following completes the statement below?

IAW AOP-020, LOSS OF RESIDUAL HEAT REMOVAL (SHUTDOWN COOLING), the crew will reduce RHR flow to _____ in an attempt to stabilize the RHR oscillations.

- A. 3250 gpm
- B. 3000 gpm
- C. 2800 gpm
- D. 1500 gpm

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6. Given the following plant conditions:

-The reactor is at 100% RTP

-PI-444, CH I PRZR PRESS, reads 2310 psig and rising

-PI-455, 456 and 457, PROT CH I (II and III) PRZR PRESS, all read approximately 2210 psig and lowering

Which ONE (1) of the following completes the statements below?

To combat this, the OAC will take PC-444J to MANUAL and (1) its output to energize all PZR heaters.

After PC-444J is adjusted, PI-458, Calibration PZR Pressure, will indicate (2) psig for maximum proportional heater output.

- A. (1) raise
(2) -15
- B. (1) raise
(2) +15
- C. (1) lower
(2) -15
- D. (1) lower
(2) +15

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7. Given the following plant conditions:

- The crew attempted to trip the reactor and it failed to trip
- They are initiating emergency boration of the RCS
- The Boric Acid Pump aligned for blend failed to start

Which ONE (1) of the following completes the statement below?

To initiate emergency boration, the crew will open (1) . The emergency boration can be secured when PR Channels are <5% (2) a Negative IR Startup Rate.

- A. (1) MOV-350
(2) or
- B. (1) MOV-350
(2) and
- C. (1) LCV-115B and close LCV-115C
(2) and
- D. (1) LCV-115B and close LCV-115C
(2) or

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8. Which ONE (1) of the following identifies the reason for securing the RCP's in EOP-E-3, STEAM GENERATOR TUBE RUPTURE?

- A. Minimizes the impact upon core heat removal.
- B. It insures against possible operator misdiagnosis.
- C. Prevents excessive depletion of RCS water inventory.
- D. Prevents the possibility of RCP motor overspeed and catastrophic failure.

9. Given the following plant conditions:

-The reactor is at 50% RTP

-A small steam line leak has been reported

-The CRS implements Attachment 10.4, CONTROL BAND AND TRIP LIMIT GUIDANCE, from OMM-022, EMERGENCY OPERATING PROCEDURES USER'S GUIDE

-APP-006-A2, S/G A STM>FW FLOW is in alarm

IAW Attachment 10.4, at what NR S/G level is the crew required to manually trip the reactor?

A. 16%

B. 21%

C. 30%

D. 35%

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10. Given the following plant conditions:

-The reactor is at 100% RTP

-A large Feedwater Line Break occurs at the piping connection to S/G "A" inside the CV

Which ONE (1) of the following completes the statements below?

Prior to the Reactor trip, RCS Tavg will ____ (1) _____. The reactor will automatically trip on ____ (2) _____.

- A. (1) rise
(2) Low-Low S/G level
- B. (1) lower
(2) Low-Low S/G level
- C. (1) rise
(2) Low S/G Level with Steam Flow > Feed Flow
- D. (1) lower
(2) Low S/G Level with Steam Flow > Feed Flow

11. Given the following plant conditions:

-The crew has just finished their immediate actions of EPP-1, LOSS OF ALL AC POWER

-Narrow Range S/G levels are all 6%

-Total FW Flow to the S/G's is 500 GPM

Which ONE (1) of the following completes the statements below?

CSFST's ____ (1) ____ being monitored for information only. A red path ____ (2) ____ exist on CSF-3, HEAT SINK.

A. (1) are **NOT**
(2) does **NOT**

B. (1) are
(2) does **NOT**

C. (1) are **NOT**
(2) does

D. (1) are
(2) does

12. Given the following plant conditions:

-A Loss of off-site power occurs

-Fifteen seconds later a Large Break LOCA occurs

Which ONE (1) of the following completes the statements below?

The BOP will expect to see the SWBPs started on the (1) . SWBP suction pressure (2) have to be at least 30 psig for the SWBP's to start.

A. (1) Blackout sequencer
(2) does

B. (1) Blackout sequencer
(2) does **NOT**

C. (1) SI sequencer
(2) does

D. (1) SI sequencer
(2) does **NOT**

13. Given the following plant conditions:

-The reactor is currently at 6% power with the turbine rolling at 1800 rpm IAW
GP-005, POWER OPERATION

-Power is lost to Instrument Bus (IB) #1

Which ONE (1) of the following completes the statements below?

The loss of IB #1 (1) cause a reactor trip. The turbine is (2) .

- A. (1) will
(2) tripped
- B. (1) will **NOT**
(2) tripped
- C. (1) will
(2) **NOT** tripped
- D. (1) will **NOT**
(2) **NOT** tripped

14. Given the following plant conditions:

- Battery chargers A and B are in service
- Battery chargers A-1 and B-1 are in standby
- 12:00 MCC-5 is de-energized
- 13:01 APP-036-D3, BATT A/B LO VOLT, alarm is illuminated
- There are multiple indications of loss of control power to components

Subsequently:

- 13:05:00 MCC-5 is re-energized

Which ONE (1) of the following completes the statements below?

Battery charger(s) (1) will need to be manually restarted. As of 13:05:00 the following day, the batteries (2) be fully charged.

- A. (1) A-1 only
(2) will
- B. (1) A & A-1
(2) will
- C. (1) A & A-1
(2) will **NOT**
- D. (1) A-1 only
(2) will **NOT**

15. Given the following plant conditions:

- The reactor is at 25% RTP
- APP-009-F8, 4KV BUSES LO FREQ, is in alarm
- The crew enters AOP-026, GRID INSTABILITY
- Frequency is now at 58.3Hz

Which ONE (1) of the following completes the statements below?

The crew will (1) trip the reactor. IAW AOP-026 basis document, the purpose of tripping the RCP's is to (2) .

- A. (1) immediately
(2) prevent the automatic reactor trip from low flow
- B. (1) wait 5 minutes, and then
(2) prevent the automatic reactor trip from low flow
- C. (1) immediately
(2) prevent the automatic RCP trip at 58.2 Hz
- D. (1) wait 5 minutes, and then
(2) prevent the automatic RCP trip at 58.2 Hz

16. Given the following plant conditions:

-The plant is in Mode 3

-The crew has entered EPP-20, LOCA OUTSIDE CONTAINMENT

SI-870 A & B, BIT INJ Valves

RHR-744 A & B, RHR COLD LEG INJ Valves

Which ONE (1) of the following completes the statement below?

In order to isolate a leak in the Cold Leg Injection piping, EPP-20 will have the crew shut (1) and monitor (2) to see if the leak is isolated.

- A. (1) SI-870 A & B
(2) RCS pressure
- B. (1) SI-870 A & B
(2) PZR level
- C. (1) RHR-744 A & B
(2) PZR level
- D. (1) RHR-744 A & B
(2) RCS pressure

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17. Which of the following is the **FIRST** mitigation strategy that FRP-H.1, RESPONSE TO LOSS OF SECONDARY HEAT SINK, directs you to attempt?

- A. Maximize charging flow to cool the RCS
- B. Depressurize the S/G's to raise subcooling
- C. Initiation of RCS Bleed and Feed Heat Removal
- D. Attempt Restoration of Feed Flow To Steam Generators

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18. Given the following plant conditions:

- The crew has implemented EPP-15, Loss of Emergency Coolant Recirculation
- The crew is initiating an RCS cooldown to cold shutdown
- The following table is a plot of the RCS cooldown:

TIME	RCS T _{COLD}	TIME	RCS T _{COLD}
0800	547°F	0945	425°F
0815	530°F	1000	395°F
0830	520°F	1015	382°F
0845	505°F	1030	364°F
0900	498°F	1045	340°F
0915	478°F	1100	320°F
0930	447°F	1115	300°F

Which ONE (1) of the following completes the statements below?

The cooldown rate limit ____ (1) ____ been exceeded. At ____ (2) ____ RWST level, the crew is required to secure all running ECCS pumps taking a suction from the RWST.

- A. (1) has
(2) 27%
- B. (1) has
(2) 9%
- C. (1) has **NOT**
(2) 27%
- D. (1) has **NOT**
(2) 9%

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19. Given the following plant conditions:

- Reactor is at 100% RTP
- "A" & "B" Charging pumps are OOS
- HIC-121, CHARGING FLOW VALVE, controller indicates 100% output
- CVC-297 A/B/C are full open
- Seal Injection flow are all about 6.6 GPM

CVC-297A, RCP "A" SEAL WATER FLOW CONTROL VALVE
CVC-297 B, RCP "B" SEAL WATER FLOW CONTROL VALVE
CVC-297 C, RCP "C" SEAL WATER FLOW CONTROL VALVE
LT-459, CH I PRZR LEVEL
LT-461, CH III PRZR LEVEL

Which ONE (1) of the following completes the statements below?

Based off the conditions above, LT- (1) has failed low. ITS LCO 3.4.17, Chemical and Volume Control System, requirements (2) met.

- A. (1) 461
(2) are **NOT**
- B. (1) 459
(2) are **NOT**
- C. (1) 461
(2) are
- D. (1) 459
(2) are

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20. Given the following plant conditions:

- The plant is in Mode 3 preparing for startup.
- Several alarms are received and multiple controllers & indicators lose power.
- NI-32, Source Range Nuclear Instrument, is deenergized
- The crew has entered AOP-024, LOSS OF INSTRUMENT BUS
- An AO reports that an ILC student doing JPM walkdowns bumped into the supply breaker and the AO heard the breaker trip

Which ONE (1) of the following completes the statement below?

In order to restore power to NI-32, the crew will need to reset and close the supply breaker to Instrument Bus ____ (1) ____ at ____ (2) ____.

- A. (1) 1
(2) Inverter A
- B. (1) 2
(2) Inverter A
- C. (1) 1
(2) MCC-5
- D. (1) 2
(2) MCC-5

21. Given the following plant conditions:

- Power is above P-6
- Power is below P-10
- Power ascension is in progress
- NI-35, INTERMEDIATE RANGE NUCLEAR INSTRUMENT, fails as is
- NI-36, INTERMEDIATE RANGE NUCLEAR INSTRUMENT, fails as is

Which ONE (1) of the following correctly completes the statement below?

The maximum time the crew has to ___ (1) ___ is ___ (2) ___ IAW LCO 3.3.1, REACTOR PROTECTION SYSTEM (RPS) INSTRUMENTATION.

- A. (1) suspend operations involving positive reactivity additions
(2) 15 minutes
- B. (1) suspend operations involving positive reactivity additions
(2) immediately
- C. (1) increase thermal power to >P-10
(2) 15 minutes
- D. (1) increase thermal power to >P-10
(2) immediately

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22. Given the following plant conditions:

-High radiation alarms have just been received from R-20, FUEL HANDLING BUILDING LOWER LEVEL, and R-30, FUEL HANDLING BUILDING LOWER LEVEL HIGH RANGE

-The Inside Auxiliary Operator reports the following:

-WGDT "A" is at 40 psig and is in service

-WGDT "B" is at 20 psig and is in standby

-WGDT "C" is at 80 psig and is on cover gas

-WGDT "D" is at 60 psig with pressure slowly lowering

-AOP-009, ACCIDENTAL GAS RELEASE FROM A WGDT, has been entered

-The crew has started HVE-5A, AUX BLDG CHARCOAL EXH FAN

Which ONE (1) of the following completes the statements below?

The basis for starting HVE-5A IAW AOP-009 is to (1) . WGDT "D" will be placed on cover gas and equalized with WGDT (2) .

A. (1) minimize any radiological release
(2) "A"

B. (1) minimize any radiological release
(2) "B"

C. (1) limit the concentration of explosive gases
(2) "B"

D. (1) limit the concentration of explosive gases
(2) "A"

23. Given the following plant conditions:

-A fire breaks out on the RTGB

-The crew has entered AOP-041, RESPONSE TO FIRE EVENT, and subsequently, DSP-001, ALTERNATE SHUTDOWN DIAGNOSTIC

-The crew has tripped the reactor

CVC-200 A/B/C, LTDN ORIFICE

PCV-455C, PZR PORV

PCV-456, PZR PORV

Which ONE (1) of the following completes the statements below?

Prior to leaving the control room, the OAC will (1). This is performed to (2).

- A. (1) Verify CVC-200 A/B/C closed
(2) prevent spurious operation
- B. (1) Isolate PCV-456 & PCV-455C
(2) prevent spurious operation
- C. (1) Verify CVC-200 A/B/C closed
(2) allow for remote operation of these valves
- D. (1) Isolate PCV-456 & PCV-455C
(2) allow for remote operation of these valves

24. Given the following plant conditions:

- A fire has broke out in the Hagan Room
- It has spread to the Control Room
- The crew is currently in DSP-002, HOT SHUTDOWN USING THE DEDICATED/ALTERNATE SHUTDOWN SYSTEM
- Attachment 1, TURBINE BUILDING OPERATOR ACTIONS, are complete
- The DS Bus is energized

Which ONE (1) of the following completes the statements below?

One of the operators will start "A" CCW pump from (1). MDAFW pumps (2) available.

- A. (1) the Charging Pump room
(2) are
- B. (1) the Charging Pump room
(2) are **NOT**
- C. (1) the Rod Control room
(2) are
- D. (1) the Rod Control room
(2) are **NOT**

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25. The reactor is at 100% RTP. Which of the following would indicate failed fuel?

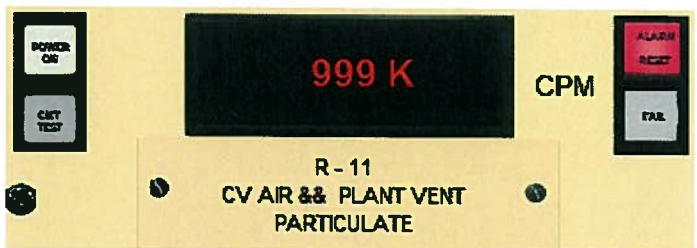
A.



B.



C.



D.



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26. Given the following plant conditions:

- A reactor trip has occurred
- The turbine failed to trip
- The MSIV's have failed to close
- The crew is in FRP-P.1, RESPONSE TO IMMINENT PRESSURIZED THERMAL SHOCK

Which ONE (1) of the following completes the statements below?

IAW FRP-P.1, the crew will maintain (1) . The crew will be required to perform a soak for (2) hour(s).

- A. (1) between 80-90 gpm feed flow to each S/G
(2) 1
- B. (1) between 80-90 gpm feed flow to each S/G
(2) 29
- C. (1) total feed flow > 300 gpm
(2) 1
- D. (1) total feed flow > 300 gpm
(2) 29

27. Given the following plant conditions:

- The crew has experienced a Loss of All A/C Power
- They have transitioned to EPP-6, NATURAL CIRCULATION COOLDOWN WITH STEAM VOID IN VESSEL

Which ONE (1) of the following completes the statements below?

IAW EPP-6, the maximum RCS temperature at which RHR can be placed in service is LESS THAN (1). Per EPP-6, the maximum cooldown rate is LESS THAN (2) in the last 60 minutes.

- A. (1) 350°F
(2) 100°F
- B. (1) 250°F
(2) 100°F
- C. (1) 350°F
(2) 25°F
- D. (1) 250°F
(2) 25°F

28. Given the following plant conditions:

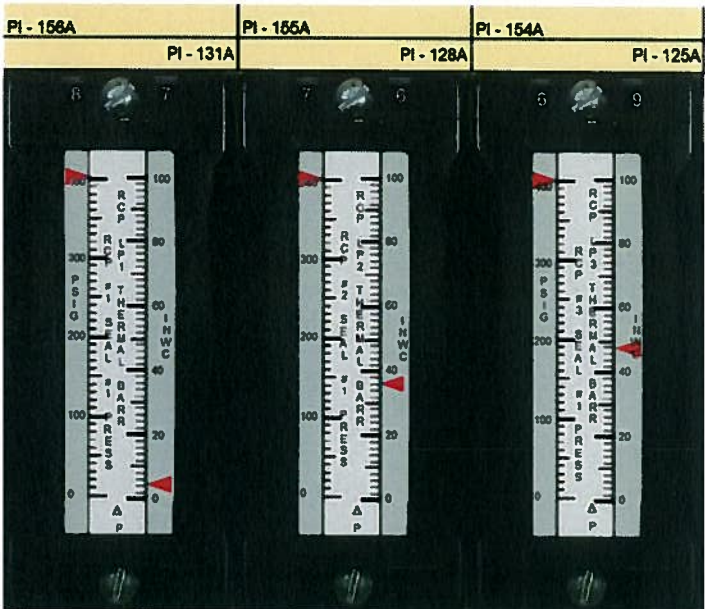
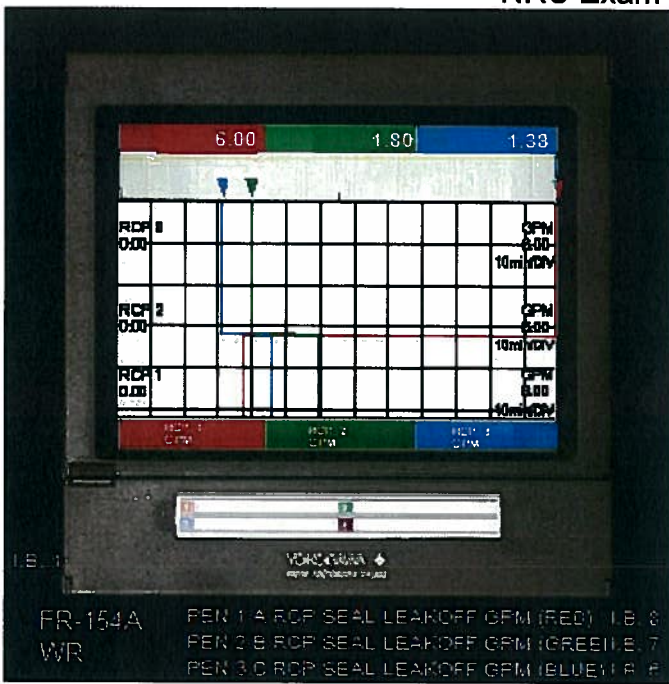
- The Plant is at 100% RTP
- APP-001-D2, RCP #1 SEAL LEAKOFF HI FLOW is in alarm
- RCP #1 Seal Leakoff Flows and Thermal Barrier D/Ps are as indicated
(SEE REFERENCE ON NEXT PAGE)

Which ONE (1) of the following completes the statements below?

RCP A ____ (1) ____ seal is failed . To prevent damage to the RCP A Seal Stack, the RCP A SEAL LEAKOFF Valve, CVC-303A should be closed ____ (2) ____ after tripping RCP A.

- A. (1) #1
(2) immediately
- B. (1) #2
(2) immediately
- C. (1) #1
(2) between 3 and 5 minutes
- D. (1) #2
(2) between 3 and 5 minutes

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29. Which ONE (1) of the following completes the statements below?

When Seal Injection is unavailable, CCW flow to the ____ (1) ____ ensures adequate cooling of the Reactor Coolant Pump seals. This cooling flow path remains in service until isolated by a Phase ____ (2) ____ actuation.

- A. (1) Thermal Barrier
(2) "A"
- B. (1) Thermal Barrier
(2) "B"
- C. (1) Seal Water HX
(2) "A"
- D. (1) Seal Water HX
(2) "B"

30. Given the following plant conditions:

- The plant is operating at 100% RTP.
- Seal Injection flow to each RCP is 8.5 gpm
- "C" Charging Pump is currently running in Manual at minimum speed.
- "A" Charging Pump is running in MANUAL at 35% demand during the performance of OP-301-1, Section 8.4.7, Charging Pump Break-In After Maintenance.
- CVC-283C, Charging Pump "A" Discharge Relief, has lifted and has not resealed.

Which ONE (1) of the following identifies the impact on Seal Injection flow(s) AND how this malfunction would be addressed by AOP-018, Reactor Coolant Pump Abnormal Conditions?

Which ONE (1) of the following completes the statement below?

Seal Injection flows will lower to (1) and AOP-018 directs the operators to (2).

- A. (1) ZERO flow
(2) Isolate letdown, secure all Charging Pumps, manually isolate "A" Charging pump.
- B. (1) MINIMUM flow (~ 6 gpm each)
(2) Isolate letdown, secure all Charging Pumps, manually isolate "A" Charging pump.
- C. (1) ZERO flow
(2) Stop "A" Charging Pump and adjust the speed of "C" Charging Pump to restore normal seal injection flows.
- D. (1) MINIMUM flow (~ 6 gpm each)
(2) Stop "A" Charging Pump and adjust the speed of "C" Charging Pump to restore normal seal injection flows.

31. Given the following plant conditions:

- The RCS is on RHR and **SOLID**
- RCS pressure is 340 psig
- PC-145, PRESSURE, in AUTO
- HIC-142, PURIFICATION FLOW, controller setting is at 55% demand

Subsequently, an RCS leak occurs

Which ONE (1) of the following completes the statement below?

PC-145 controller output ____ (1) ____ and PCV-145 throttles ____ (2) ____.

- A. (1) lowers
(2) closed
- B. (1) lowers
(2) open
- C. (1) rises
(2) closed
- D. (1) rises
(2) open

32. Given the following plant conditions:

- The plant is in Mode 5.
- The air supply line to HCV-758, RHR HX OUTLET FLOW TO COLD LEGS, breaks, causing a complete loss of Instrument Air to the valve.

Which ONE (1) of the following completes the statements below?

Based off the conditions above, total RHR flow initially ____ (1) _____. IAW AOP-020, Loss of Residual Heat Removal (Shutdown Cooling), the crew will **MANUALLY** throttle ____ (2) _____.

- A. (1) rises
(2) FCV-605, RHR HX BYPASS closed
- B. (1) rises
(2) RHR-764, HCV-758 BYPASS closed
- C. (1) lowers
(2) FCV-605, RHR HX BYPASS open
- D. (1) lowers
(2) RHR-764, HCV-758 BYPASS open

33. Given the following plant conditions:

-The reactor is at 100% RTP

-A Safety Injection signal is received

SI-870 A/B, BIT INJECTION TANK OUTLETS

RHR-744 A/B, LOOP DISCHARGE TO RCS ISOLATION VALVES

SI-865 A/B/C, SI ACCUMULATOR DISCHARGE VALVES

SI-867 A/B, BIT INJECTION TANK INLETS

Which of the following valves will reposition because of the Safety Injection signal?

A. SI-870 A/B & RHR-744 A/B

B. SI-865 A/B/C & SI-867 A/B

C. SI-870 A/B & SI-865 A/B/C

D. RHR-744 A/B & SI-867 A/B

34. Given the following plant conditions:

-The reactor was at 100% RTP when a LOCA occurs

-A Safety Injection has been initiated and is injecting into the core

Immediately upon the Safety Injection Flow going to the core, the **INNER WALL** of the SI piping that connects to the RCS undergoes (1) stress. If one of the SI pipes that connects to the RCS breaks from this stress, (2) pipe(s) would still be available to supply SI flow to the core.

- A. (1) tensile
(2) one
- B. (1) tensile
(2) two
- C. (1) compressive
(2) one
- D. (1) compressive
(2) two

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35. Given the following plant conditions:

- A bubble is being drawn in the Pressurizer IAW, OP-104, Pressurizer Operations
- RCS pressure is 335 psig
- TI-454, PRZR VAPOR TEMP is 432°F
- LI-462, COLD PRESSURIZER, Level is 80% and slowly lowering
- TI-463, PZR PWR RELIEF LINE TEMP, reads 320°F

A PZR PORV ____ (1) ____ leaking. Confirmatory indications would be ____ (2) ____ pressure, level, or temperature.

- A. (1) is
(2) PRT
- B. (1) is
(2) RCDT
- C. (1) is NOT
(2) PRT
- D. (1) is NOT
(2) RCDT

NRC Exam

36. Given the following plant conditions:

- The reactor is at 100% RTP
- CCW Heat Exchanger outlet temperature is 106°F and rising
- All Service Water Pumps are running
- The highest RCP Motor bearing temperature is 190°F and rising
- Service Water pressure is 46 psig and stable on both headers

AOP-018, REACTOR COOLANT PUMP ABNORMAL CONDITIONS
AOP-014, COMPONENT COOLING WATER SYSTEM MALFUNCTION

Which ONE (1) of the following completes the statements below?

Based off the conditions above, the ____ (1) ____ . The crew is required to ____ (2) ____ .

- A. (1) RCP operating limits have been exceeded
(2) monitor all RCP parameters IAW AOP-018.
- B. (1) RCP operating limits have been exceeded
(2) Lower heat load on CCW system IAW AOP-014.
- C. (1) CCW system cooling capacity is degraded
(2) lower heat load on CCW system IAW AOP-014
- D. (1) CCW system cooling capacity is degraded
(2) monitor all RCP parameters IAW AOP-018.

37. Given the following plant conditions:

-RCS Tavg is 560°F

-LT-459, PRZR LEVEL, has failed high

Which ONE (1) of the following completes the statements below?

Prior to the failure, pressurizer level was ____ (1) ____ . Pressurizer heaters will all turn on when LT-459 reaches ____ (2) ____ .

A. (1) 36.1%
(2) 46.1%

B. (1) 53.3%
(2) 63.3%

C. (1) 53.3%
(2) 58.3%

D. (1) 36.1%
(2) 41.1%

38. Given the following plant conditions:

-The reactor is at 37% RTP

-RCP breaker A trips

Which ONE (1) of the following completes the statement?

Reactor Trip Breakers RTA and RTB ____ (1) ____ lights will be illuminated. The conditions for P-8 ____ (2) ____ satisfied.

- A. (1) red
(2) are
- B. (1) green
(2) are
- C. (1) red
(2) are **NOT**
- D. (1) green
(2) are **NOT**

39. Given the following conditions:

- Plant is at 100% RTP
- All equipment is in normal alignment
- An electrical fault results in a loss of power to Instrument Bus 3

Which ONE (1) of the following describes SI Pump response if an AUTO SI actuation occurs before Instrument Bus 3 is recovered?

- A. SI Pumps A and B start.
- B. SI Pumps B and C start.
- C. Only SI Pump A starts.
- D. Only SI Pump C starts.

40. Given the following plant conditions:

- Tavg is 547°F
- RCS Pressure is 2235 psig
- A loss of offsite power occurs
- One minute later a large break LOCA occurs

Which ONE (1) of the following completes the statement below?

The **FINAL** CV Recirculation fans start ____ (1) ____ seconds after both trains of the ____ (2) ____ sequencers start.

- A. (1) 30
(2) Blackout
- B. (1) 35
(2) Blackout
- C. (1) 30
(2) Safety Injection
- D. (1) 35
(2) Safety Injection

NRC Exam

41. Which ONE (1) of the following combinations of Containment Heat removal equipment will require immediate entry into LCO 3.0.3?

- A. Both HVH trains inoperable.
- B. Three Containment HVH units inoperable.
- C. Two Containment Spray Pumps inoperable.
- D. One Containment Spray Pump and one HVH train inoperable.

NRC Exam

42. Given the following plant conditions:

- A loss of offsite power and a reactor trip has occurred
- Two minutes later APP-007-F5, SD AFW PMP LO DISCH PRESS TRIP alarms and remains locked in
- The pump has been verified to be coasting down locally due to an overspeed trip

Which ONE (1) of the following correctly completes the statements below?

SDAFW Pump Steam Shutoff Valves, V1-8A, V1-8B, and V1-8C should be (1) at this time. The BOP operator is required to (2) closure of SDAFW Pump Discharge Valves, V2-14A, V2-14B, and V2-14C.

- A. (1) open
(2) verify automatic
- B. (1) open
(2) perform manual
- C. (1) closed
(2) verify automatic
- D. (1) closed
(2) perform manual

NRC Exam

43. Given the following plant conditions:

- The Plant is at 50% RTP perform post outage power ascension.
- FCV-478, FRV A, develops an air leak at the valve operator and the valve starts to slowly drift in the close direction
- The air leak increases slowly for 5 minutes and then the air line completely separates

EOP-E-0, REACTOR TRIP OR SAFETY INJECTION
AOP-010, MAIN FEEDWATER/CONDENSATE MALFUNCTION

Which ONE (1) of the following completes the statements below?

Prior to the line separation, FCV-478 controller output will ____ (1) _____. After the line separates the crew will ____ (2) ____ IAW AOP-010.

- A. (1) rise
(2) stabilize "A" S/G Level using the FRV Bypass Valve
- B. (1) lower
(2) stabilize "A" S/G Level using the FRV Bypass Valve
- C. (1) rise
(2) trip the Reactor and Go To EOP-E-0
- D. (1) lower
(2) trip the Reactor and Go To EOP-E-0

44. Given the following plant conditions:

- The plant is in Mode 3
- The SDAFW Pump is under clearance
- MDAFW Pump B is running

Subsequently,

- A line break occurs between FCV-1425, MDAFW PUMP B FCV and V2-20B, AFW HDR SECTION valve
- MDAFW Pump B trips on overcurrent due to runout through line break
- The break has been isolated using single valve isolation

Which ONE (1) of the following identifies the S/Gs available to be fed by the remaining AFW Pump?

- A. S/G A ONLY
- B. S/G B ONLY
- C. S/Gs A, B, and C
- D. S/Gs A and B ONLY

45. Given the following plant conditions:

-The Plant is at 100% RTP

-A fault has isolated the Startup Transformer

Which ONE (1) of the following completes the statements below?

This results in a loss of ____ (1) _____. Emergency Diesel Generator ____ (2) ____ starts and loads.

- A. (1) Spent Fuel Pit Cooling Pump A and Rod Drive MG Set B
(2) A
- B. (1) Spent Fuel Pit Cooling Pump A and Rod Drive MG Set B
(2) B
- C. (1) Spent Fuel Pit Cooling Pump B and PZR Heater Back-up Group A
(2) A
- D. (1) Spent Fuel Pit Cooling Pump B and PZR Heater Back-up Group A
(2) B

46. Given the following plant conditions:

- A LOCA and a Loss of Offsite Power have occurred
- Both battery chargers that were in service are tripped

Which ONE (1) of the following completes the statements below?

Given the accident above, "A" and "B" Batteries are designed to last for a **MAXIMUM** of (1). Assuming battery load remains constant, battery current will (2) as terminal voltage lowers.

- A. (1) 1 hour
(2) lower
- B. (1) 1 hour
(2) rise
- C. (1) 30 minutes
(2) lower
- D. (1) 30 minutes
(2) rise

NRC Exam

47. Which ONE (1) of the following completes the statements below?

The purpose of the Emergency Diesels is to provide emergency power in the event of a loss of (1) . The design time to energize the associated bus is within (2) seconds.

- A. (1) offsite power
(2) 10
- B. (1) offsite power
(2) 15
- C. (1) all A/C power
(2) 10
- D. (1) all A/C power
(2) 15

NRC Exam

48. De-energizing which ONE (1) of the following Motor Control Centers will cause a loss of Diesel Air Compressor "A"?

- A. MCC-5
- B. MCC-6
- C. MCC-9
- D. MCC-10

NRC Exam

49. Given the following plant conditions:

- The reactor is at 100% RTP
- The crew is performing a containment vacuum relief
- R-12, CV AIR OR PLANT STACK, NOBLE GAS, alarms

V12-12, CV VAC RELIEF

V12-13, CV VAC RELIEF

APP-036-D7, AREA MONITOR HI RAD

APP-036-D8, PROCESS MONITOR HI RAD

Which ONE(1) of the following completes the statements below?

The crew would expect to see ____ (1) ____ annunciator flashing. They would also see ____ (2) ____ go shut.

- A. (1) APP-036-D7
(2) V12-12 & V12-13 only
- B. (1) APP-036-D8
(2) V12-12 & V12-13 only
- C. (1) APP-036-D7
(2) V12-12, V12-13 & the CV Intake Damper
- D. (1) APP-036-D8
(2) V12-12, V12-13 & the CV Intake Damper

50. Given the following plant conditions:

- The reactor is at 100% RTP
- The following radiation monitor alarms are received:
 - R-15, CONDENSER AIR EJECTOR GAS MONITOR
 - R-19A, S/G "A" RADIATION MONITOR
 - R-24A, S/G "A" LEAKAGE MONITOR
- All other radiation monitors are normal

Which ONE (1) of the following describes the valves that CLOSE in response to these indications?

- A. FCV-1930A, S/G A Blowdown Isolation Valve
V1-31, Blowdown Isolation Valve to Catch Basin
- B. V1-31, Blowdown Isolation Valve to Catch Basin
RCV-10549, Condensate Polisher Discharge to Catch Basin
- C. FCV-1930A, S/G A Blowdown Isolation Valve
FCV-1933B, S/G A Blowdown Sample Isolation Valve
- D. FCV-1933B, S/G A Blowdown Sample Isolation Valve
RCV-10549, Condensate Polisher Discharge to Catch Basin

NRC Exam

51. Given the following plant conditions:

- The reactor is at 100% RTP
- Service Water pumps A & C are running
- Service Water Header pressure is 42 psig and stable as indicated on PI-1616 and PI-1684
- Both CCW Heat Exchangers are in service
- Main Generator Exciter Cooler air discharge temperature is 145°F and rising slowly

TCV-1673, TURBINE LUBE OIL TEMP CONTROL VALVE
TCV-1650, HYDROGEN COOLER TEMP CONTRL VALVE

Which ONE (1) of the following completes the statements below?

IAW OP-903, Service Water System, the maximum allowable Main Generator Exciter Cooler air discharge temperature is ____ (1) ____°F. To restore Main Generator Exciter Cooler air discharge temperature the crew will first ____ (2) ____.

- A. (1) 140
(2) start "D" Service Water pump
- B. (1) 188
(2) start "D" Service Water pump
- C. (1) 140
(2) raise the setpoint for TCV-1673 and TCV-1650
- D. (1) 188
(2) raise the setpoint for TCV-1673 and TCV-1650

NRC Exam

52. Given the following plant conditions:

-MCC-5 de-energizes due to the supply breaker tripping open

-During the transient, a turbine trip occurs and the South Service Water header pressure decreases to 28 psig

V6-16B, SW SOUTH HEADER SUPPLY TO TURBINE BUILDING

V6-16C, SW ISOLATION TO TURBINE BUILDING

Which ONE (1) of the following completes the statement below?

TWO (2) minutes after the turbine trip, V6-16B is ____ (1) ____ and V6-16C is ____ (2) ____ .

A. (1) closed
(2) closed

B. (1) closed
(2) open

C. (1) open
(2) open

D. (1) open
(2) closed

NRC Exam

53. Given the following plant conditions:

- APP-002-F7, INSTR AIR HDR LO PRESS alarms
- PI-1702, INST AIR HEADER PRESS, dropped from 100 psig to 0 psig in less than 10 seconds
- Pressurizer Level is 54% and **STABLE**
- Steam Generator Narrow Range Levels are 52% and **STABLE**
- The reactor is at 100% RTP and **STABLE**

AOP-017, LOSS OF INSTRUMENT AIR
EOP-E-0, REACTOR TRIP OR SAFETY INJECTION

Which ONE (1) of the following completes the statements below?

APP-002-F7 alarm setpoint is ____ (1) ____ psig. The crew is required to ____ (2) ____ .

- A. (1) 60
(2) initiate action to repair the transmitter and monitor Instrument Air pressure locally
- B. (1) 85
(2) initiate action to repair the transmitter and monitor Instrument Air pressure locally
- C. (1) 60
(2) trip the reactor and implement AOP-017 and EOP-E-0 concurrently
- D. (1) 85
(2) trip the reactor and implement AOP-017 and EOP-E-0 concurrently

NRC Exam

54. Which ONE (1) of the following completes the statements below?

Instrument Air Compressor A and B cylinder water jackets are cooled by (1)
Water. Flow is (2) to the cylinder water jackets when the air compressors are
shutdown.

- A. (1) Service
(2) maintained
- B. (1) Component Cooling
(2) maintained
- C. (1) Service
(2) isolated
- D. (1) Component Cooling
(2) isolated

NRC Exam

55. Which ONE (1) of the following completes the statements below?

To ensure the LCO is met for the Personnel Airlock as required by Technical Specification 3.6.2 in MODES ____ (1) ____, the personnel hatch doors are ____ (2) ____ to ensure only one door is open at any time.

- A. (1) 1-4 only
(2) administratively controlled
- B. (1) 1-4, and 6
(2) administratively controlled
- C. (1) 1-4 only
(2) physically interlocked
- D. (1) 1-4, and 6
(2) physically interlocked

56. Given the following plant conditions:

- The reactor was at 100% RTP.
- Subsequently, the reactor was tripped due to a Steam Line leak on the 72 inch Main Steam Header
- All MSIVs are stuck full open.
- All AFW Pumps failed to start
- FRP-H.1, RESPONSE TO LOSS OF SECONDARY HEAT SINK, has been entered
- S/G Wide Range levels are all at 3%
- CETC Temperature indicates 505°F with a subcooling of 115°F
- Safety Injection has been manually initiated

Which ONE (1) of the following completes the statement below?

Safety injection ____ (1) ____ injecting into the core. In order to initiate Bleed and Feed, the crew will **FIRST** try to open ____ (2) ____.

- A. (1) is
(2) all head vents
- B. (1) is **NOT**
(2) all head vents
- C. (1) is
(2) both PZR PORV's
- D. (1) is **NOT**
(2) both PZR PORV's

NRC Exam

57. Given the following plant conditions:

- The crew is lowering power from 100% to 90% RTP IAW OP-105, MANEUVERING THE PLANT WHEN GREATER THAN 25% POWER
- All PZR heaters are energized
- B Charging pump is in manual
- C Charging pump is in AUTO
- LT-460, CH II PRZR LEVEL, fails low

Which ONE (1) of the following completes the statements below?

The PZR Backup heaters are ____ (1) ____ . Because of this failure, C charging pump speed will ____ (2) ____.

- A. (1) off
(2) lower
- B. (1) on
(2) lower
- C. (1) off
(2) rise
- D. (1) on
(2) rise

58. Given the following plant conditions:

- The reactor is at 100% RTP
- The crew has entered AOP-001, MALFUNCTION OF REACTOR CONTROL SYSTEM, for a dropped rod in Control Bank D
- They are at the step to place the Lift Coil Disconnect Switch for the dropped rod to the OFF position

Which ONE (1) of the following completes the statements below?

The operator performing this step will go to the ____ (1) ____ . This is done to allow operators to ____ (2) ____ .

- A. (1) Rod Control Room
(2) withdraw the dropped rod
- B. (1) back of the RTGB
(2) withdraw the dropped rod
- C. (1) Rod Control Room
(2) control flux during the downpower
- D. (1) back of the RTGB
(2) control flux during the downpower

NRC Exam

59. Given the following plant conditions:

-The crew is in FRP-C.1, RESPONSE TO INADEQUATE CORE COOLING

Which ONE (1) of the following completes the statements below?

From the ICCM Panel, the crew will monitor (1) IAW FRP-C.1. The minimum temperature at which core damage has occurred with RCP's running is (2) .

- A. (1) RTD's
(2) 1200°F
- B. (1) RTD's
(2) 2300°F
- C. (1) CETC's
(2) 1200°F
- D. (1) CETC's
(2) 2300°F

NRC Exam

60. Which ONE (1) of the following is the power supply for HVE-4, CV AIR IODINE REMOVAL EXHAUST FAN?

- A. MCC-5
- B. MCC-6
- C. MCC-9
- D. MCC-10

NRC Exam

61. Given the following plant conditions:

- One AO is in containment verifying a valve's position
- R-11, CV AIR & Plant Vent Particulate, alarms
- The crew has entered AOP-005, RADIATION MONITORING SYSTEM

Which ONE (1) of the following completes the statement below?

The OAC will place the VLC switch to the ____ (1) ____ position and will then Hold the CV EVACUATION HORN for ____ (2) ____ seconds IAW AOP-005.

- A. (1) OVERRIDE
(2) 5
- B. (1) OVERRIDE
(2) 15
- C. (1) EMERG
(2) 5
- D. (1) EMERG
(2) 15

62. Given the following plant conditions:

- The reactor is at 100% RTP
- APP-036-B6, SPENT FUEL PIT LO LEVEL, alarm comes in
- AO reports that APP-036-B6 is a valid alarm

Which ONE (1) of the following completes the statements below?

APP-036-B6 alarm setpoint is ____ (1) ____ . The crew will fill the Spent Fuel Pit level using water from the ____ (2) ____ .

- A. (1) 35ft
(2) RWST
- B. (1) 36ft, 2.5 inches
(2) RWST
- C. (1) 35ft
(2) Demineralized Water System
- D. (1) 36ft, 2.5 inches
(2) Demineralized Water System

NRC Exam

63. Given the following plant conditions:

- The reactor is at 100% RTP
- The OAO reports a steam leak near the Main Steam Isolation Valves
- The following indications are noted in the Control Room:
 - T_{avg} is lowering
 - Steam flow and feed flow have risen
 - Power Limit Warning alarm on ERFIS has been received
 - Reactor power is 100.3% and slowly rising

Which ONE (1) of the following completes the statements below?

The time in core life that will result in the smallest reactivity excursion is (1). The Reactor is required to be operated at less than or equal to (2) MW thermal IAW OMM-001-2, SHIFT ROUTINES AND OPERATING PRACTICES.

- A. (1) BOL
(2) 2300
- B. (1) BOL
(2) 2339
- C. (1) EOL
(2) 2300
- D. (1) EOL
(2) 2339

NRC Exam

64. Given the following plant conditions:

-The plant is performing a power ascension and is at 8% RTP

Which ONE (1) of the following completes the statements below?

The REACTOR TRIP BLOCK P-7 status light will ~~illuminate~~ ^{EXTINGUISHED} when (1) Power Range NI's read above 10%. One of the Reactor Trips that this enables is (2) .

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- A. (1) 2/4
(2) PZR High Level
- B. (1) 3/4
(2) PZR High Level
- C. (1) 2/4
(2) PZR High Pressure
- D. (1) 3/4
(2) PZR High Pressure

NRC Exam

65. Which of the following discharge to the Reactor Coolant Drain Tank?

- A. Charging pump seals
- B. RCV-609, CC SURGE TANK VENT
- C. CVC-203 A/B, LETDOWN RELIEF VALVES
- D. CVC-389, EXCESS LETDOWN DIVERSION

NRC Exam

66. Which ONE (1) of the following completes the statements below?

IAW OPS-NGGC-1000, FLEET CONDUCT OF OPERATIONS, a plant announcement will be made for the starting of ____ (1) ____ motors. The announcement will include ____ (2) ____ .

- A. (1) all
(2) only the applicable motor
- B. (1) only large
(2) only the applicable motor
- C. (1) all
(2) the applicable motor and its switchgear
- D. (1) only large
(2) the applicable motor and its switchgear

67. Given the following plant conditions:

- The plant is in MODE 6 for refueling operations
- Core alterations are in progress

Which ONE (1) of the following completes the statements below?

IAW LCO 3.9.2, NUCLEAR INSTRUMENTATION, (1) source range neutron flux monitor(s) shall be OPERABLE. NI-51 and NI-52, (2) capable of providing audible indication inside CV.

- A. (1) one
(2) are
- B. (1) two
(2) are
- C. (1) one
(2) are **NOT**
- D. (1) two
(2) are **NOT**

NRC Exam

68. Which ONE (1) of the following completes the statements below?

SI Accumulator Pressure is checked during ____ (1) _____. A deviation of greater than ____ (2) ____ of full scale during a channel check is used as the OOS limit.

- A. (1) OST-020, SHIFTLY SURVEILLANCES
(2) 7.5%
- B. (1) OST-020, SHIFTLY SURVEILLANCES
(2) 5%
- C. (1) OST-021, DAILY SURVEILLANCES
(2) 5%
- D. (1) OST-021, DAILY SURVEILLANCES
(2) 7.5%

NRC Exam

69. Which ONE (1) of the following people can be selected to be an Infrequently Performed Test or Evolution (IPTE) Manager IAW OPS-NGGC-1315, CONDUCT OF INFREQUENTLY PERFORMED TESTS OR EVOLUTIONS?

- A. Lead Test Performer
- B. A Control Room Supervisor
- C. The on-duty Shift Manager
- D. The Manager, Shift Operations

NRC Exam

70. Inside Work Control, the following conditions were found:

- Removable surface contamination is 1500 dpm/cm²
- Radiation levels are 3 mrem/hr at 30cm

Which ONE (1) of the following identifies the minimum postings for the Work Control area?

- A. Radiation area only
- B. Contamination area only
- C. no postings necessary
- D. A contamination and radiation area

NRC Exam

71. Which ONE (1) of the following radiation monitors is located in the Auxiliary Building hallway above the Station Air receiver?

- A. R-18 (Waste Disposal System liquid effluent)
- B. R-17 (Component Cooling Water)
- C. R-16 (Containment Fan Coolers)
- D. R-9 (Letdown line area)

NRC Exam

72. Given the following conditions:

- An RNP Mechanic, previously employed by VC Summer, has been assigned to repack a valve
- The mechanic's current yearly dose from VC Summer was 1 Rem TEDE
- The mechanic has received no dose from RNP
- Projected dose rate in the area is 500 mR/hr

What is the **MAXIMUM** time that the mechanic can work on the valve before reaching the Annual Administrative Dose Limit IAW DOS-NGGC-0004, ADMINISTRATIVE DOSE LIMITS?

- A. 1 hour
- B. 2 hours
- C. 4 hours
- D. 8 hours

NRC Exam

73. The RO has determined that for the safety of the reactor and the plant, a reactor trip and initiation of Safety Injection(SI) is necessary. He has announced it to the CRS, however, it has been several seconds and the CRS has not responded.

Which ONE (1) of the following completes the statement below?

The RO should ____ (1) ____ then ____ (2) ____ IAW OPS-NGGC-1000, FLEET CONDUCT OF OPERATIONS.

- A. (1) wait for confirmation from the CRS
(2) trip the reactor and initiate SI
- B. (1) wait for confirmation from the CRS
(2) initiate SI
- C. (1) trip the reactor, verify it is tripped
(2) initiate SI
- D. (1) trip the reactor and initiate SI
(2) perform immediate action steps

NRC Exam

74. Given the following plant conditions:

-A **SMALL** fire is reported near the "A" and "B" Auxiliary boilers

Which ONE (1) of the following completes the statement below?

IAW OMM-003, FIRE PROTECTION PRE-PLANS/UNIT NO. 2, the fire brigade must attack this fire with ____ (1) ____ and the fire brigade is required to protect the ____ (2) ____.

- A. (1) a portable fire extinguisher or hose stream
(2) Primary Air Compressor
- B. (1) a portable fire extinguisher or hose stream
(2) Steam Driven AFW pump
- C. (1) hose stream only
(2) Primary Air Compressor
- D. (1) hose stream only
(2) Steam Driven AFW pump

NRC Exam

75. The Plant is at 100% RTP when the following events occur:

2115 - Power is lost to all Control Room annunciators

2120 - An Unusual Event is declared

2125 - The Emergency Notification form is complete and the SM directs you to make the state and county notifications

2130 - A reactor trip occurs and the SM declares an Alert

2135 - The SM completes a new Emergency Notification form and directs you to make the state and county notifications

Which ONE (1) of the following indicates the latest time the state and counties must **FIRST** be notified?

A. 2130

B. 2135

C. 2140

D. 2145

76. Given the following plant conditions:

- Plant is at 100% RTP
- PCV-455C, PZR PORV, indicates open
- PT-444, CH I PRZR PRESS, is 2100 psig and lowering
- PT-445, CH II PRZR PRESS, is 2100 psig and lowering
- The OAC manually shuts PCV-455C
- I&C determines that the PCV-455C can't be controlled automatically

AOP-019, MALFUNCTION OF RCS PRESSURE CONTROL
AOP-025, RTGB INSTRUMENT FAILURE

Which ONE (1) of the following completes the statements below?

The crew has entered ____ (1) ____ . IAW ITS, PCV-455C ____ (2) ____ OPERABLE.

- A. (1) AOP-019
(2) is **NOT**
- B. (1) AOP-025
(2) is **NOT**
- C. (1) AOP-019
(2) is
- D. (1) AOP-025
(2) is

77. Given the following plant conditions:

- The plant is at 98% RTP
- AOP-010 is entered due a leak in FW Heater 4B
- OPS Manager has chosen to repair the leak on line

AOP-010, MAIN FEEDWATER/CONDENSATE MALFUNCTION
OP-407, HEATER DRAINS AND VENTS

Which ONE (1) of the following completes the statements below?

The CRS will direct the OAO to use (1) for the specific steps to remove the required FW Heaters from service. The crew (2) have to reduce power for this evolution.

- A. (1) OP-407
 (2) will **NOT**
- B. (1) AOP-010
 (2) will **NOT**
- C. (1) OP-407
 (2) will
- D. (1) AOP-010
 (2) will

78. Given the following plant conditions:

- A Station Blackout has occurred from 100% RTP
- The crew is performing actions of EPP-1, LOSS OF ALL AC POWER
- Immediate actions are complete
- "A" Charging pump is running
- Offsite power is available to re-energize the SUT
- APP-009-B5, MAIN TRANSF PHASE TRIP, alarm is in

OP-603, ELECTRICAL DISTRIBUTION
OP-603-3, RESETTING HIGH IMPEDANCE FAULT TRIPS
86P, GENERATOR LOCKOUT RELAY, PRIMARY
86BU, GENERATOR LOCKOUT RELAY, BACKUP

Which ONE (1) of the following completes the statement below?

IAW EPP-1, the CRS will direct the use of OP-____(1)____ to restore power. APP-009-B5 is an indication that the ____ (2) ____ lockout needs to be reset.

- A. (1) 603
(2) 86P
- B. (1) 603-3
(2) 86P
- C. (1) 603
(2) 86 BU
- D. (1) 603-3
(2) 86 BU

79. Given the following plant conditions:

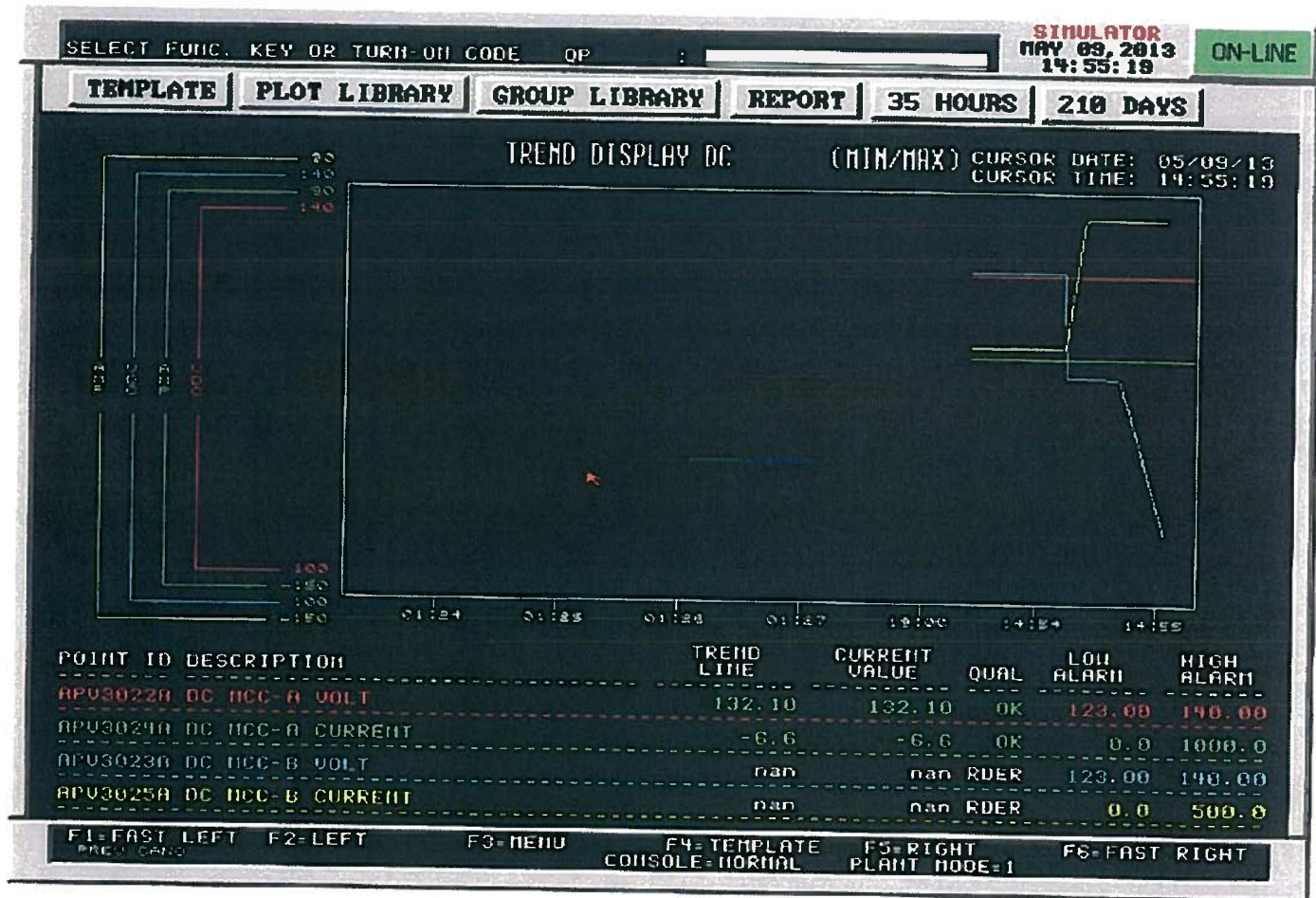
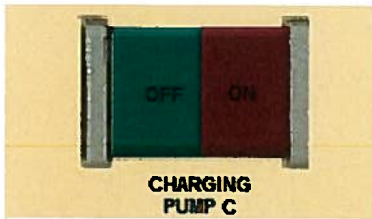
- The reactor is at 100% RTP
- "B" Charging pump is running in Manual
- "C" Charging pump is running in AUTO
- A reactor trip occurs
- The following indications are seen:
-See next page for references

Which ONE (1) of the following completes the statements below?

Based off the indications above, "C" Charging pump is (1) . The crew will transition from EOP-E-0 to (2) to EPP-27.

- A. (1) running
 (2) EOP-ES-0.1
- B. (1) tripped
 (2) EOP-ES-0.1
- C. (1) running
 (2) EPP-7
- D. (1) tripped
 (2) EPP-7

NRC Exam



80. Given the following plant conditions:

- Plant is at 40% RTP
- The Load Dispatcher reports that grid voltage is degrading
- 12:00:00 on 1/1/13, 480V Bus E2 voltage was reduced to 400V
- 12:00:20 on 1/1/13, there were no changes to the electrical lineup
- 12:30:00 on 1/1/13, grid voltage was restored

Which ONE (1) of the following completes the statements below?

The "B" EDG is designed to start under this condition when (1) degraded voltage relays sense their setpoint. If "B" EDG cannot be restored to service, the latest time the plant can be in MODE 3 is (2) IAW applicable LCO.

(REFERENCE PROVIDED)

- A. (1) 1/2
(2) 18:00:20 on 1/7/13
- B. (1) 1/2
(2) 18:00:20 on 1/8/13
- C. (1) 2/3
(2) 18:00:20 on 1/7/13
- D. (1) 2/3
(2) 18:00:20 on 1/8/13

81. Given the following plant conditions:

-The crew is implementing FRP-H.1, RESPONSE TO LOSS OF SECONDARY HEAT SINK

-CST is intact, level is 15% and lowering

OP-402, AUXILIARY FEEDWATER SYSTEM

FRP-H.1, ATTACHMENT 2, SERVICE WATER BACKUP TO MDAFW PUMPS

Which ONE (1) of the following completes the statements below?

The correct order in which the crew will attempt to restore Feed Flow to S/G's is AFW, (1) . If the CST level reaches 10%, the CRS will direct the use of (2) to align Service Water as a backup to the AFW pumps.

A. (1) Main Feedwater, Condensate
(2) OP-402

B. (1) Main Feedwater, Condensate
(2) ATTACHMENT 2

C. (1) Condensate, Main Feedwater
(2) OP-402

D. (1) Condensate, Main Feedwater
(2) ATTACHMENT 2

82. Given the following plant conditions:

- Unit 2 is raising power from 50% to 100% RTP
- Reactor power is currently at 55% RTP at EOL
- Control Bank D rods are at 171 steps
- 30 minutes ago, a 200 gallon dilution to the RCS was performed
- The OAC pulls rods and releases the switch, Tavg and Reactor power steadily rise
- APP-005-E4, DELTA FLUX ALARM, is in
- VCT level has remained stable at 25% for the last 15 minutes

Which ONE (1) of the following completes the statements below?

Based on the above conditions, the accident the crew is dealing with is a (1) accident. The basis for the LCO actions to address the Delta Flux Alarm is to (2).

- A. (1) uncontrolled rod withdraw
(2) limit the amount of axial power distribution
- B. (1) dilution
(2) limit the amount of axial power distribution
- C. (1) uncontrolled rod withdraw
(2) limit the gross radial power distribution
- D. (1) dilution
(2) limit the gross radial power distribution

83. Given the following plant conditions:

- The plant is in MODE 1
- A CV Purge is in progress
- R-14C, PLANT STACK, NOBLE GAS, is OOS
- R-12, CV AIR OR PLANT STACK, NOBLE GAS, fails high

Which ONE (1) of the following completes the statements below?

The running CV PURGE EXHAUST UNIT, HVE-1A or HVE-1B will ____ (1) ____ . IAW the ODCM, OFF-SITE DOSE CALCULATION MANUAL, effluent releases ____ (2) ____ continue.

(REFERENCES PROVIDED)

- A. (1) trip
(2) can
- B. (1) trip
(2) can **NOT**
- C. (1) **NOT** trip
(2) can
- D. (1) **NOT** trip
(2) can **NOT**

84. Given the following plant conditions:

-The reactor is at 100% RTP

-The BOP reports R-9 is trending up and currently reads 0.6 R/hr

OP-920, RADIATION MONITORING SYSTEM
OMM-014, RADIATION MONITOR SETPOINTS

Which ONE(1) of the following completes the statements below?

The BOP will verify R-9 setpoint IAW (1) . There (2) an EAL declaration that needs to be entered.

(REFERENCE PROVIDED)

A. (1) OMM-014
(2) is **NOT**

B. (1) OMM-014
(2) is

C. (1) OP-920
(2) is **NOT**

D. (1) OP-920
(2) is

85. Given the following plant conditions:

- A Large Break LOCA has occurred
- Neither CV Spray pump started
- CV Pressure has reached 40.5 psig

FRP-P.1, RESPONSE TO IMMINENT PRESSURIZED THERMAL SHOCK
FRP-J.1, RESPONSE TO HIGH CONTAINMENT PRESSURE

Which ONE (1) of the following completes the statements below?

The crew will use (1) to mitigate this event. Containment design pressure (2) been exceeded.

- A. (1) FRP-P.1
(2) has **NOT**
- B. (1) FRP-J.1
(2) has **NOT**
- C. (1) FRP-P.1
(2) has
- D. (1) FRP-J.1
(2) has

86. Given the following plant conditions:

Initial Conditions:

- APP-006-D4, S/G A STM LINE HI FLOW, alarm is in
- APP-006-E4, S/G B STM LINE HI FLOW, alarm is in
- APP-006-F4, S/G C STM LINE HI FLOW, alarm is in
- Steam line pressure is 600 psig

Subsequently:

- The crew has transitioned to EPP-16
- AFW flow has been throttled to each S/G
- S/G conditions are now as follows:

- A-40% WR level, Pressure is 355 PSIG and rising
- B-35% WR level, Pressure is 300 PSIG and lowering
- C-35% WR level, Pressure is 290 PSIG and lowering

EOP-E-2, FAULTED STEAM GENERATOR ISOLATION
EPP-16, UNCONTROLLED DEPRESSURIZATION OF ALL STEAM GENERATORS

Which ONE (1) of the following completes the statements below?

Based off the initial conditions above, the plant ____ (1) ____ received an automatic SI signal. The crew will ____ (2) ____ .

- A. (1) has **NOT**
(2) remain in EPP-16
- B. (1) has
(2) remain on in EPP-16
- C. (1) has
(2) transition to EOP-E-2
- D. (1) has **NOT**
(2) transition to EOP-E-2

87. Given the following plant conditions:

- The plant is in MODE 3
- The crew is currently in EPP-28, LOSS OF ULTIMATE HEAT SINK, for a loss of the intake structure
- CST Level is 8%
- Deepwell Pump D is the only available water supply to MDAFW Pump A

OP-402, AUXILIARY FEEDWATER SYSTEM
ATTACHMENT 6, DEEPWELL COOLING

Which ONE(1) of the following completes the statements below?

IAW EPP-28, total AFW flow to the S/G's is limited to ____ (1) ____ gpm. The crew will use ____ (2) ____ to align Deepwell Pump D.

- A. (1) 195
(2) ATTACHMENT 6 of EPP-28
- B. (1) 140
(2) ATTACHMENT 6 of EPP-28
- C. (1) 195
(2) OP-402
- D. (1) 140
(2) OP-402

88. Given the following plant conditions:

- The plant is in MODE 4
- Battery Charger A is in service
- APP-036-F10, BATT RM A/B HI/LO TEMP, alarms
- It is determined that Battery A's representative cells have an average electrolyte temperature of 65°F

3.8.4, DC SOURCES-OPERATING

3.8.5, DC SOURCES-SHUTDOWN

3.8.6, BATTERY CELL PARAMETERS

Which ONE (1) of the following completes the statements below?

Per APP-036-F10, the SRO will direct the OAO to verify the ____ (1) ____ is operating.
The SRO is required to enter LCO(s) ____ (2) ____ .

- A. (1) alternate heater
(2) 3.8.5 only
- B. (1) air conditioning
(2) 3.8.5 only
- C. (1) alternate heater
(2) 3.8.4 and 3.8.6
- D. (1) air conditioning
(2) 3.8.4 and 3.8.6

89. Given the following plant conditions:

- A plane crashed into the Intake Structure
- The plant was manually tripped
- The SUT tripped
- The CRS has entered EPP-28, EPP-28, LOSS OF ULTIMATE HEAT SINK

ATTACHMENT 6, DEEPWELL COOLING

ATTACHMENT 7, ESTABLISHING CCW COOLING

Which ONE (1) of the following completes the statements below?

The maximum time the crew has to restore cooling to an EDG to preclude adverse effects is ____ (1) ____ minutes. In order to provide cooling to at least one EDG, the CRS will direct ATTACHMENT ____ (2) ____ to be performed.

A. (1) 60
(2) 6

B. (1) 60
(2) 7

C. (1) 40
(2) 6

D. (1) 40
(2) 7

90. Given the following plant conditions:

- A main steam line break inside CV results in a Safety Injection and CV Spray actuation
- EOP-E-0, REACTOR TRIP OR SAFETY INJECTION, has been implemented
- CV pressure is currently 14 psig
- CC-735, THERM BAR OUT ISO, is open

SUPPLEMENT A, SAFETY INJECTION COMPONENT ALIGNMENT
SUPPLEMENT B, PHASE B AND CV SPRAY COMPONENT ALIGNMENT

Which ONE (1) of the following completes the statement below?

Based on current plant conditions, CC-735 (1) in the correct position and the CRS may direct the use of (2) to verify it's position.

- A. (1) is
(2) SUPPLEMENT A
- B. (1) is **NOT**
(2) SUPPLEMENT A
- C. (1) is
(2) SUPPLEMENT B
- D. (1) is **NOT**
(2) SUPPLEMENT B

NRC Exam

91. Given the following plant conditions:

- APP-004-E4, CV HI PRESS SFGRD/TRIP, flashes and is confirmed valid
- The reactor is at 100% RTP
- CET's are 1225°F and rising

FRP-S.1, RESPONSE TO NUCLEAR POWER GENERATION/ATWS
FRP-C.1, RESPONSE TO INADEQUATE CORE COOLING
SACRM-1, SEVERE ACCIDENT CONTROL ROOM MANAGEMENT INITIAL
RESPONSE

Which ONE (1) of the following completes the statements below?

IAW FRP-S.1, the crew unsuccessfully tried tripping the reactor by opening the
____(1)____. The CRS is required to transition to ____ (2) ____.

- A. (1) Generator A & B Circuit Breakers
(2) SACRM-1
- B. (1) Generator A & B Circuit Breakers
(2) FRP-C.1
- C. (1) feeder breaker to 480V busses 2B and 3
(2) SACRM-1
- D. (1) feeder breaker to 480V busses 2B and 3
(2) FRP-C.1

92. Given the following plant conditions:

- An approved radioactive liquid waste release is in progress
- Subsequently, R-18, LIQUID EFFLUENT WASTE DISPOSAL, is reading above its alarm setpoint
- The release is still in progress

Which ONE(1) of the following completes the statements below?

R-18 reading above the alarm setpoint ____ (1) ____ have terminated the release. Per the ODCM, the release may continue provided ____ (2) ____ .

(REFERENCES PROVIDED)

- A. (1) should
(2) two independent samples are analyzed and two facility staff independently verify the release rate calculations and discharge line valving
- B. (1) should **NOT**
(2) two independent samples are analyzed and two facility staff independently verify the release rate calculations and discharge line valving
- C. (1) should
(2) the flow rate is estimated at least once per 4 hours during actual releases
- D. (1) should **NOT**
(2) the flow rate is estimated at least once per 4 hours during actual releases

93. Given the following plant conditions:

- The crew has started a gaseous waste release from WGDT C
- ATTACHMENT 10.3, GASEOUS WASTE RELEASE PERMIT-WASTE GAS DECAY TANK, is complete (**SEE REFERENCE ON NEXT PAGE**)
- During the release, R-14C, PLANT STACK, NOBLE GAS, read 12K cpm

Which ONE(1) of the following completes the statements below?

The ___(1)___ had to approve the release before it could begin. Based off of ATTACHMENT 10.3, R-14C ___(2)___ alarm during the release.

- A. (1) E&C Supervisor
(2) did **NOT**
- B. (1) E&C Supervisor
(2) did
- C. (1) SM
(2) did **NOT**
- D. (1) SM
(2) did

ATTACHMENT 10.3

Page 1 of 2

GASEOUS WASTE RELEASE PERMIT - WASTE GAS DECAY TANK

RELEASE NUMBER: 13-0136 SSN: 12345 DATE: Today

This revision is the latest revision available as verified by:

Mike Anderson MA [Signature] Today
 Name (Print) Initial Signature Date

PART I: PRE-RELEASE INFORMATION (E&C)				
A / B / <u>C</u> / D Waste Gas Decay Tank (Circle Appropriate Letter)		Estimated Release Start <u>Today</u> <u>1000</u> Date Time		
		Estimated Release Stop <u>Today</u> <u>1037</u> Date Time		
Monitor	Setpoint	Basis (Circle One)	CV Purge (Circle One) (NCR 410785)	
R-14C	<u>1.00 E +6</u> CPM	EC <u>Activity</u>	In Service	Not In Service

Maximum WGD Flow Rate: 100 CFM

PART II: RADIATION MONITOR INFORMATION (OPS and E&C)		
READING	R-14C ²	
PRIOR ¹ (Channel Check)	<u>BB</u>	CPM
SOURCE CHECK ²	E&C INI. <u>AD</u>	
SETPOINT VERF. AT ³	<u>1.01 E +4</u>	CPM
UPDATE STATUS BOARD ⁴	OPS INI. <u>BB</u>	
DURING RELEASE	<u>12 K</u>	CPM
AFTER RELEASE	<u>20.9</u>	CPM
SETPOINT RETURNED TO ^{3,5}	<u>N/A</u>	CPM
STATUS BOARD UPDATED ⁴	OPS INI. <u>BB</u>	

NRC Exam

94. Which ONE (1) of the following completes the statement below?

☐ The CRS is responsible for conducting a(n) _____ every 45 – 60 minutes during long lasting events.

A. Crew Update

B. Alignment Brief

C. Crew Shift Brief

D. Plant Status Brief

NRC Exam

95. Given the following plant conditions:

- The letdown line has been removed from service and cleared for maintenance to install several new vent valves.
- An approved test procedure has been provided with the work order package to perform the line hydrostatic test following installation.
- A clearance boundary change must be implemented to initiate the system hydrostatic test.

Which ONE (1) of the following completes the statements below?

IAW OPS-NGGC-1301, Equipment Clearance, each boundary change shall be authorized by (1). The (2) will provide concurrence for Maintenance personnel to introduce fluids into the clearance boundary for the system hydrostatic test.

- A. (1) an SRO
(2) WCC SRO
- B. (1) the CRS only
(2) CRS
- C. (1) an SRO
(2) CRS
- D. (1) the CRS only
(2) WCC SRO

96. Given the following plant conditions:

- Two trains of RHR are **OPERABLE**
- RCS is at 135°F and has been drained to -30 inches standpipe level for RCP seal replacement
- Maintenance has requested that both CV Personnel Hatch doors be opened to allow cables and hoses to be routed through the doors to support maintenance activities

Which ONE (1) of the following completes the statements below?

IAW OMM-033, IMPLEMENTATION OF CV CLOSURE, CV Personnel Hatch doors can be opened provided CV closure can be implemented within (1) hours. The hoses and cables can be routed through the hatch provided (2) for removal.

- A. (1) 0.5
 (2) the hoses and cables have quick disconnects
- B. (1) 4
 (2) the hoses and cables have quick disconnects
- C. (1) 0.5
 (2) dedicated personnel are stationed inside the CV with tools needed
- D. (1) 4
 (2) dedicated personnel are stationed inside the CV with tools needed

NRC Exam

97. Given the following plant conditions:

- A Site Area Emergency has been declared due to a LOCA outside containment
- All Emergency Response Organization facilities are staffed and functional
- The TSC has determined that the leak can be isolated
- Expected exposure to isolate the leak is > 5 Rem TEDE
- An operator has been briefed and is awaiting approval for entry into the Auxiliary Building to isolate the leak

Which ONE (1) of the following completes the statement below?

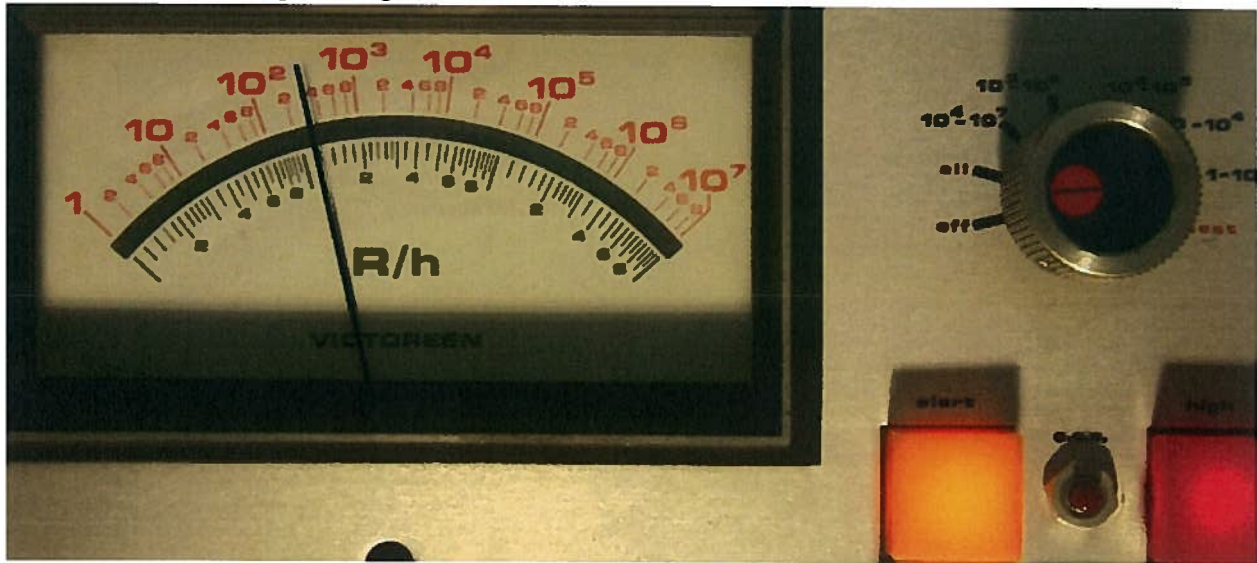
Authorization of the exposure ____ (1) ____ be delegated to the Radiological Control Director. If authorized, the operator is allowed to receive up to ____ (2) ____ REM for this entry.

- A. (1) can
(2) 10
- B. (1) can
(2) 25
- C. (1) can NOT
(2) 10
- D. (1) can NOT
(2) 25

NRC Exam

98. Given the following plant conditions:

- A Large Break LOCA has occurred
- Containment pressure is 32 psig and rising
- HVV-1 and HVV-2 have tripped
- Containment Sump level is rising
- R-32A, CV High Range, has the current indication:



Which ONE (1) of the following completes the statement below?

Based on the information provided a (1) must be declared due to (2).

(References Provided)

- A. (1) Site Area Emergency
(2) Loss of the Reactor Coolant AND Fuel Cladding Barriers
- B. (1) General Emergency
(2) Loss of the Reactor Coolant, Fuel Cladding AND Containment Barriers
- C. (1) Site Area Emergency
(2) Loss of the Reactor Coolant Barrier AND a Potential Loss of the Containment Barrier
- D. (1) General Emergency
(2) Loss of the Reactor Coolant AND Fuel Cladding Barrier AND Potential Loss of the Containment Barrier

NRC Exam

99. Given the following plant conditions:

-The crew is in EPP-28, LOSS OF ULTIMATE HEAT SINK, for a total loss of the intake structure

-Subsequently a loss of all AC power occurs

Which ONE (1) of the following completes the statement below?

The CRS ____ (1) ____ transition to EPP-1, LOSS OF ALL AC POWER, because ____ (2) ____ .

- A. (1) will **NOT**
(2) EPP-28 contains actions to deal with a loss of all AC power
- B. (1) will
(2) EPP-1 contains actions to deal with a loss of all AC power
- C. (1) will
(2) EPP-1 has priority over all other EPP procedures
- D. (1) will **NOT**
(2) EPP-28 has priority over all other EPP procedures

NRC Exam

100. Given the following plant conditions:

- Today at 0100 LCO 3.4.13, RCS OPERATIONAL LEAKAGE, was entered due to an 8 gpm leak from a crack on the spray line penetration weld at the PZR
- The crew commenced a shutdown at 0200
- The plant reached MODE 3 at 0800

Which ONE (1) of the following completes the statement below?

Notifications must be made to the NRC by ____ (1) ____ and ____ (2) ____.

(REFERENCES PROVIDED)

- A. (1) 0300
(2) 0800
- B. (1) 0600
(2) 0800
- C. (1) 0300
(2) 1200
- D. (1) 0600
(2) 1200

You have completed the test!

Table of Contents for Provided References

- LCO 3.8.1, AC Sources-Operating
- LCO 3.4.13, RCS Operational LEAKAGE
- ODCM Table 2.6-1, Radioactive Liquid Effluent Monitoring Instrumentation
- ODCM Section 3.10, Radioactive Gaseous Effluent Monitoring Instrumentation
- AP-30, NRC Reporting Requirements, Attachments 11.1, IMMEDIATE(One Hour) Notifications to the NRC, 11.2, FOUR Hour Notifications to the NRC, 11.3, EIGHT Hour Notifications to the NRC
- EAL Hot Conditions Board

ANSWER KEY REPORT
for NRC Exam Test Form: 0

Answers

	ID	Points	Type	0
1	008 AK2.03 1	1.00	MCS	D
2	009 EK1.02 1	1.00	MCS	D
3	011 EG2.4.21 1	1.00	MCS	D
4	022 AK3.07 1	1.00	MCS	A
5	025 AK2.02 1	1.00	MCS	D
6	027 AA1.02 1	1.00	MCS	C
7	029 EA1.02 1	1.00	MCS	C
8	038 EK3.08 1	1.00	MCS	B
9	040 AA2.02 1	1.00	MCS	D
10	054 AK1.01 1	1.00	MCS	A
11	055 EG 2.4.21 1	1.00	MCS	B
12	056 AA1.15 1	1.00	MCS	D
13	057 AA2.19 1	1.00	MCS	A
14	058 AK1.01 1	1.00	MCS	A
15	077 AK3.02 1	1.00	MCS	C
16	WE/04 EK2.1 1	1.00	MCS	D
17	WE/05 G2.4.6 1	1.00	MCS	D
18	WE/11 EA2.2 1	1.00	MCS	B
19	028 AA2.03 1	1.00	MCS	B
20	032 AA1.01 1	1.00	MCS	B
21	033 AG2.2.22 1	1.00	MCS	B
22	060 AK3.02 1	1.00	MCS	B
23	067 AK1.02 1	1.00	MCS	B
24	068 AG2.2.37 1	1.00	MCS	B
25	076 AA1.04 1	1.00	MCS	A
26	W/E08 EK1.2 1	1.00	MCS	A
27	W/E10 EK2.2 1	1.00	MCS	A
28	003 A1.09 1	1.00	MCS	C
29	003 K4.04 1	1.00	MCS	B
30	004 K3.08 1	1.00	MCS	A
31	004 K6.26 1	1.00	MCS	C
32	005 A2.04 1	1.00	MCS	D
33	006 A4.02 2	1.00	MCS	A
34	006 K5.10 1	1.00	MCS	B
35	007 K5.02 1	1.00	MCS	A
36	008 A2.03 1	1.00	MCS	C
37	010 K1.08 2	1.00	MCS	D
38	012 A3.04 1	1.00	MCS	C
39	013 K2.01 1	1.00	MCS	C
40	022 A3.01 1	1.00	MCS	D
41	026 G2.2.42 1	1.00	MCS	C
42	039 A4.04 1	1.00	MCS	D
43	059 A2.12 1	1.00	MCS	C
44	061 K6.02 1	1.00	MCS	D
45	062 K3.01 1	1.00	MCS	B
46	063 A1.01 2	1.00	MCS	B

ANSWER KEY REPORT
for NRC Exam Test Form: 0

Answers

	ID	Points	Type	0
47	064 G2.1.27 1	1.00	MCS	A
48	064 K2.01 1	1.00	MCS	A
49	073 A4.01 1	1.00	MCS	D
50	073 K4.01 1	1.00	MCS	C
51	076 A1.02 1	1.00	MCS	B
52	076 K2.01 1	1.00	MCS	D
53	078 G2.4.50 1	1.00	MCS	B
54	078 K1.04 1	1.00	MCS	C
55	103 K4.04 1	1.00	MCS	C
56	002 A2.04 1	1.00	MCS	D
57	011 K6.03 1	1.00	MCS	A
58	014 G2.1.30 2	1.00	MCS	D
59	017 A1.01 1	1.00	MCS	C
60	027 K2.01 1	1.00	MCS	B
61	029 A4.04 1	1.00	MCS	D
62	033 K4.01 1	1.00	MCS	D
63	035 K5.01 1	1.00	MCS	B
64	015 A3.02 1	1.00	MCS	A
65	068 K1.07 2	1.00	MCS	D
66	G2.1.14 1	1.00	MCS	D
67	G2.1.40 1	1.00	MCS	D
68	G2.2.12 1	1.00	MCS	B
69	G 2.2.7 1	1.00	MCS	D
70	G2.3.14 1	1.00	MCS	B
71	G2.3.15 1	1.00	MCS	C
72	G 2.3.4 1	1.00	MCS	C
73	G2.4.12 1	1.00	MCS	C
74	G 2.4.26 2	1.00	MCS	B
75	G2.4.39 1	1.00	MCS	B
76	008 AG2.1.7 SRO 1	1.00	MCS	C
77	054 AG2.4.35 SRO 1	1.00	MCS	C
78	055 EA2.06 SRO 1	1.00	MCS	A
79	058 AG2.1.19 SRO 1	1.00	MCS	A
80	077 AA2.07 SRO 1	1.00	MCS	D
81	W/E 05 EA2.2 SRO 1	1.00	MCS	A
82	001 AA2.05 SRO 2	1.00	MCS	A
83	060 AG2.2.40 SRO 1	1.00	MCS	B
84	061 AA2.02 SRO 1	1.00	MCS	B
85	W/E14 EG2.2.38 SRO 1	1.00	MCS	B
86	012 G2.1.20 SRO 1	1.00	MCS	C
87	061 G2.4.20 SRO 1	1.00	MCS	C
88	063 A2.02 SRO 1	1.00	MCS	C
89	076 A2.01 SRO 1	1.00	MCS	C
90	103 A2.03 SRO 2	1.00	MCS	D
91	001 A2.13 SRO 1	1.00	MCS	A
92	068 A2.04 SRO 1	1.00	MCS	A

ANSWER KEY REPORT
for NRC Exam Test Form: 0

Answers

	ID	Points	Type	0
93	071 G2.4.46 SRO 1	1.00	MCS	D
94	G2.1.38 SRO 1	1.00	MCS	D
95	G2.2.13 SRO 1	1.00	MCS	C
96	G2.2.18 SRO 1	1.00	MCS	A
97	G2.3.13 SRO 1	1.00	MCS	C
98	G2.3.5 SRO 1	1.00	MCS	A
99	G2.4.23 SRO 1	1.00	MCS	A
100	G2.4.30 SRO 1	1.00	MCS	B
SECTION 1 (100 items)		100.00		