Facility Comments and NRC Resolution

Question # 32, 039K1.09

Concerning R-70A/B/C, 1A/1B/1C SG TUBE LEAK DET, on Unit 1:

Which one of the following completes the statements below?

The R-70s are located __(1)__ of the MSIVs.
A minimum reactor power level that the R-70s can accurately estimate a SG leak rate is ___(2)_____.

(1)	(2)
A. upstream	25%
B. downstream	25%
C. upstream	10%
D. downstream	10%

Comment:

A "minimum" could be confusing as the minimum power level that the R-70s indicate in gpd is 20%.

Facility Comment:

This does not change the correct answer. Will evaluate clarity of the stem and change exam bank if necessary.

NRC Resolution:

No change required.

Question # 33, 045K1.19

Which one of the following coincidences will cause an anticipated transient without trip (ATWT) mitigation system actuation circuitry (AMSAC) Main Turbine Trip?

(1) Turbine impulse pressure channels > 40%

AND

(2) SG NR levels < 10% for > 25 seconds.

	(1)	(2)
A.	1 of 2	2 of 3
B.	2 of 2	2 of 3
C.	1 of 2	1 of 3
D.	2 of 2	1 of 3

Comment: Distracter A would also be correct if power is less than 40% for less than 260 seconds.

Facility Comment:

Appendix E applies in this situation. The applicant is creating unstated conditions and applying them to the question. Will evaluate clarity of the stem and change exam bank if necessary.

NRC Resolution:

No change required.

Question # 40, 059G2.2.44

Unit 1 is operating at 33% power and the following conditions exist:

- 1A and 1B Condensate pumps are running.
- 1C Condensate pump is in OFF with a CAUTION TAG that says, "EMERGENCY USE ONLY."
- 1A SGFP is running.

Subsequently, the 1B Condensate pump trips and the following conditions are observed:

KB4, SGFP SUCTION PRESS LOW, comes into alarm and the operating crew observes the following on PR4039, SGFP SUCT PRESS:

Time				
0 sec	10 sec	20 sec	30 sec	40 sec
300 psig	275 psig	265 psig	270 psig	285 psig

At time 20 seconds, the 1C condensate pump was started.

Which one of the following completes the statements below?

At time 30 seconds, the 1A SGFP (1) be tripped.

The operating crew is required to (2).

A. 1) will NOT
2) rapidly reduce Turbine load using AOP-17.1, Rapid Turbine Power Reduction

B. 1) will NOT
2) check SGFP suction pressure stabilizes

C. 1) WILL
2) trip the Reactor and enter EEP-0.0, Reactor Trip or Safety Injection.

D. 1) WILL
2) trip the Main Turbine and enter AOP-3.0, Turbine Trip Below P-9 Setpoint.

Comment: Later in the procedure, if SFGP suction pressure is not stabilized above 300 psig, the procedure directs the reduction in turbine load. It does not disallow the use of AOP-17.1.

Facility Comment:

This does not change the correct answer. ARP-KB4 directs the starting of the standby condensate pump and is an entry condition for AOP-13. AOP-13 is entered at Step 6 and Step 6.1 checks that the SFGP suction pressure stabilizes above 275 psig or directs the operator to perform a rapid load reduction. The check of SFGP suction pressure > 300 psig is well past time 30 seconds in the question statement at Step 6.6. Since the stem indicates that the SGFP suction pressure stabilizes at Step 6.1, a load reduction is NOT required at time 30 seconds. Will evaluate clarity of the stem and change exam bank if necessary.

NRC Resolution:

No change required.

Question # 47, 064K6.07

Unit 1 is operating at 100% power with the following conditions:

- A problem with 1B DG starting air system has occurred.
- The B Air receiver has been tagged out.

Which one of the following completes the statement below?

A MINIMUM of (1) psig must be available in the remaining air receiver to ensure five (5) start attempts are available.

1B DG's required minimum time to reach rated speed and voltage is (2) seconds after receiving an emergency start signal.

	(1)	(2)
A.	200	7
B.	200	12
C.	350	7
D.	350	12

Comment: The 2nd question statement should use the work "maximum" instead of "minimum".

Facility Comment:

This does not change the correct answer. Will evaluate clarity of the stem and change exam bank if necessary.

NRC Resolution:

No change required.

Question # 61, G2.1.5

Both Units are operating at 100% power with the following conditions:

- A non-licensed Fire Protection Administrator who is qualified as a Shift Communicator is on shift.

Which one of the following completes the statements below?

Per EIP-0.0, Emergency Organization, a **minimum** of (1) licensed Plant Operators is required to staff the shift.

The **maximum** number of hours that a Plant Operator may work in any 24 hour period is (2) per NMP-AD-016-003, Scheduling and Calculating Work Hours.

	(1)	(2)
A.	3	12
B.	3	16
C.	4	12
D.	4	16

Comment: Asked if the Fire Protection Administrator (FPA) is designated as the Fire Brigade Leader or is another person designated as the Fire Brigade Leader during the exam. NRC Chief Examiner allowed the licensee to tell all applicants that the PFA is designated as the Shift Communicator for the shift.

Facility Comment:

The stem of the question will be modified to ensure that the FPA is clearly designated as the Shift Communicator for the shift.

NRC Resolution:

No change required.

Question # 79, 008AG2.2.22

Unit 1 is in Mode 2 at 3% power when the following occurs:

- PCV-444B, PRZR PORV, fails open.
- The OATC performs actions of AOP-100, Instrumentation Malfunction.
- PCV-444B, PRZR PORV, handswitch RED light remains lit.
- The OATC closes MOV-8000B, PRZR PORV ISO.
- RCS pressure is rising.

Which one of the following completes the statements below per Tech Spec 3.4.11, Pressurizer Power Operated Relief Valves (PORVs)?

PRZR PORV ISO, MOV-8000B is required to be closed with power __(1)__.
Entry into Mode 1 __(2)__ allowed by Tech Specs.

	(1)	(2)
A.	removed	is NOT
B.	maintained	is NOT
C.	removed	IS
D.	maintained	IS

Comment: A mode change is allowed after a risk assessment is performed.

Facility Comment:

Appendix E applies, a risk evaluation is not discussed in the stem, this would require an assumption not given.

NRC Resolution:

No change required.

Question # 83, 051AG2.1.7

Unit 1 is at 28% power with the following conditions:

At 1000:

- PR-4029, CONDENSER PRESSURE, indicates as follows:
  - PT0501 is 1.7 psia and slowly rising.
  - PT0502 is 1.7 psia and slowly rising.
- KK1, TURB COND VAC LO, is in alarm.
- HP Gland steam supply pressure is 3.5 psig.
- Main Turbine LP Gland pressures are as follows:
  - #3 LP Gland pressure is 2.0 psig.
  - #4 LP Gland pressure is 4.8 psig.
  - #5 LP Gland pressure is 2.5 psig.
  - #6 LP Gland pressure is 0.5 psig.

At 1015:

- PR-4029, CONDENSER PRESSURE, indicates as follows:
  - PT0501 is 2.1 psia and slowly rising.
  - PT0502 is 2.1 psia and slowly rising.
- KK2, TURB COND VAC LO-LO, is in alarm.

Which one of the following completes the statements below per AOP-8.0?

The action required at 1000 to stabilize Condenser pressure is to __(1)__.
The action required at 1015 is to __(2)__.

Procedure titles are as follows:

AOP-3.0, Turbine Trip Below P-9 Setpoint
AOP-8.0, Partial Loss of Condenser Vacuum

A. 1) bypass the #6 Gland Seal Regulator
   2) perform AOP-3.0 in parallel with AOP-8.0

B. 1) bypass the #6 Gland Seal Regulator
   2) perform AOP-3.0 ONLY

C. 1) throttle closed V528, SPILLOVER VALVE BYPASS
   2) perform AOP-3.0 in parallel with AOP-8.0

D. 1) throttle closed V528, SPILLOVER VALVE BYPASS
   2) perform AOP-3.0 ONLY

Comment: Actions in AOP-8.9 will not be performed due to AOP-3 being the priority procedure.

Facility Comment:

Both AOP-8.0 and AOP-3.0 are still in effect at the stated time of the question.

NRC Resolution:

No change required.

Question # 85, 055EG2.2.12

Unit 1 is in Mode 3 with the following conditions:

- A Grid disturbance caused a loss of all offsite power.
- During the event, the 1-2A DG started and then tripped.
- Operating DG status is as follows:
  - 1C DG is supplying Unit 1.
  - 1B DG is supplying Unit 1.
  - 2B DG is supplying Unit 2.
- ACC reports that the following lines have been **restored**:
  - Webb 230 KV line
  - Snowdoun 500KV line
- #1 Auto Bank Transformer is **out of service**.

Which one of the following completes the statements below for an evaluation of **Unit 1** Tech Specs for the **current conditions**?

Perform REQUIRED ACTION of Tech Spec 3.8.1, AC Sources - Operating, (1) .
A 25% extension of the COMPLETION TIME (2) allowed for the initial performance of SR 3.8.1.1 (STP-27.1, A.C. Source Verification).

Reference Provided

	(1)	(2)
A.	CONDITION A	IS
B.	CONDITION B	IS
C.	CONDITION A	is NOT
D.	CONDITION B	is NOT

Comment: There is not enough information to determine the status of offsite power operability.

Facility Comment:

Appendix E applies as the stem clearly states that offsite power is available and there is no information provided that would cause the applicant to question the operability of offsite power.

NRC Resolution:

No change required.

Question # 88, 064G2.2.44

Unit 1 is at 100% power when the following occurs:

- WE1, 1F, 1H, OR 1K 4KV BUS BKR AUTO TRIP, is in alarm.
- WE3, 1H 4KV BUS UV OR LOSS OF DC, is in alarm.
- The following indications are noted on the handswitch for 4160V Breaker DF-13-1, SUPPLY TO 1H 4160V BUS:
  - The amber light is lit.
  - The green light is lit.
- The AC PWR AVAIL lights for 1F 4160V bus are illuminated.
- The AC PWR AVAIL lights for 1H 4160V bus are NOT illuminated.

Which one of the following completes the statements below?

The 1C DG _(1)_ autostart due to the DF-13-1 malfunction.
For Unit 1, a REQUIRED ACTION statement of Tech Spec 3.8.1, AC Sources - Operating, _(2)_ required to be implemented.

	(1)	(2)
A.	WILL	is NOT
B.	WILL	IS
C.	will NOT	is NOT
D.	will NOT	IS

Comment: Applicant states the LCO 3.8.9 should be entered and not LCO 3.8.1.

Facility Comment:

LCO 3.8.1 and 3.8.9 are required to be entered. The question asks whether or not a required action statement of LCO 3.8.1 is required to be implemented.

NRC Resolution:

No change required.