

## Applicant Written Exam Comments/Clarifications

Question #7: RO

“What does isolated mean? Is the relief valve shut?”

Response: Repeated question stem to candidate, “loss of inventory isolated”.

Question #36: SRO

“Was BB LT-461 for PZR Level the selected as the controlling channel?”

Response to candidate: Use information provided.

Question #40: RO

Answer B implies the fans secured and then restarted in slow?

Response to Candidate: Use the information provided.

Question #47: RO

“Is PZR Level at program for 557 degrees and all controllers in auto?”

Response to candidate: Use information provided.

Question #53: RO

“Does answer D include the normal charging pump?”

For answer C, asked about chilled water to NCP, stated the NCP itself is not cooled by chilled water, only the room cooler.

Response to candidate: For answer D, restated the answer emphasizing ALL charging pumps. For the question on answer C, the candidate is in error. The NCP itself is cooled by the chilled water system. Response to candidate was to use the information provided.

Question #58: SRO

Are the answers “Indicated” level or “actual level”?

Response to all candidates: Wrote on white board” Question 58 is for actual levels.”

Question #86: SRO

“Are Emergency Action Level charts provided?”

Response to candidate: “No.”

Question #98: SRO

Needs to know if the person received less than 1000 mrem dose at Callaway since they have a different administrative limit than Wolf Creek.

Response to candidate: Use the information provided.

## NRC EXAM HIGH PERCENTAGE MISSED QUESTION ANALYSIS

### Question #6

Five students missed this question. All five individuals selected answer C. "The Operator performing Auxiliary Building Actions will locally control Centrifugal Charging Pump Discharge Flow Control Valve, BG FCV-121".

Answer "C" is incorrect. In OFN RP-017, Pressurizer level is maintained by throttling the BIT outlet valve, and is performed by the person assigned to the Turbine Building attachment. Answer "C" would only be correct for a situation in which OFN RP-013, "CONTROL ROOM NOT HABITABLE" was being used.

Response: No change. Question is valid as written. Remediation will be conducted during the exam review with all applicants to correct the error in knowledge. Corrective Action Document PIR # 2004-1279.

### Question #8

The question asks what action is needed "first" from OFN EG-004, "CCW SYSTEM MALFUNCTION" while attempting to identify and isolate the leak?

WCGS normally operates with only one CCW train in service; Step 1 RNO column will start a CCW pump in the idle train. Then, Step 3 RNO will place Emergency Make-up in service. Attempts to identify leak location are continued, and if the leak has not been located/identified, the operator is directed to shift the Service Loop to the alternate train (if the leak is in the loop supplying the Service Loop).

The question requires the examinee to determine which action(s) are to be performed "first". Answer A (key correct answer) says "Align ESW makeup to the CCW surge tank, then direct personnel to locate the leak". These actions would be taken at Step 3. RNO, and then Step 4 RNO. Answer "B" says "Start a CCW pump in the alternate train, then shift service loop to that train". These actions would be taken at Step 1 RNO, and Step 5 RNO.

Response: Based on review of the stem and use of the word "first", it is determined that answer B is correct and since answer A does not start a pump it is incorrect. Answer Key, exam question and candidates grades were all changed to reflect "B" as the correct answer.

Question #15:

The question asks "Why does the swap-over from the CST to ESW occur?" Answer A "The CST level corresponding to the LSP signal is inadequate to maintain Auxiliary Feedwater Pump suction head. This answer should be considered correct if one assumes that the suction head will not be maintained for long after reaching this setpoint. Answer D, "The CST is not seismically qualified and ESW system is seismically qualified" is the KEY answer. This is a correct statement, and describes why ESW was chosen as the alternate supply to AFW.

Response: No change. Question is valid as written. Remediation will be conducted during the exam review with all applicants to correct the error in knowledge. Corrective Action Document PIR # 2004-1279.

Question #34:

The question gave a list of PRT conditions after a plant transient in which it could be assumed that a PORV was opened. Answer "A" is the only answer in which all normal values of PRT temperature, pressure, and level all increased, and is the only correct answer.

Response: No change. Question is valid as written. Remediation will be conducted during the exam review with all applicants to correct the error in knowledge. Corrective Action Document PIR # 2004-1279.

Question #42:

The question asks what to do if CSAS has not actuated, and is required, when performing attachment F of EMG E-0. The procedure step RNO requires that the RCPs be stopped, and then CSAS be manually actuated. Answer "A", "Immediately actuate CSAS and CISB" is not correct since the RNO steps are numbered steps, and must be performed in order.

Response: No change. Question is valid as written. Remediation will be conducted during the exam review with all applicants to correct the error in knowledge. Corrective Action Document PIR # 2004-1279.

Question #63:

The question asks which of the following will prevent an RCS overpressure event, assuming that all systems work as designed. Most of the students that missed this question chose "A", Pressurizer Power Operated Relief Valves". The PORVs are designed to minimize/prevent an RCS overpressure event, but would not normally operate following a reactor trip from 100% power with all systems/equipment operating normally.

Response: No change. Question is valid as written. Remediation will be conducted during the exam review with all applicants to correct the error in knowledge. Corrective Action Document PIR # 2004-1279.

Question #67:

The question asks about continuous actions in the EMG network. In the EMG network, continuous actions remain applicable until superceded. This was answer "A", and was chosen by 4 of 8 applicants. However, there is an exception to this, and that is when a RED or ORANGE path FR procedure is being performed, all continuous actions are no longer applicable since mitigation strategy has not been successful. Answer D is the only correct answer for the conditions given.

Response: No change. Question is valid as written. Remediation will be conducted during the exam review with all applicants to correct the error in knowledge. Corrective Action Document PIR # 2004-1279.

Question #89 (SRO)

The question asks what actions to take related to increased activity levels in the RCS following a transient.

Answer "C" states that the 100/E-Bar gross activity limit has been exceeded, maximize cleanup flow as directed by Chemistry in accordance with OFN BB-006. Given information in the question includes a calculated value of 100/E-Bar of 250  $\mu\text{Ci/gm}$ , and DEI value of 97  $\mu\text{Ci/gm}$ , and Gross coolant activity of 45  $\mu\text{Ci/gm}$ . The 100/E-Bar limit has not been exceeded.

Response: No change. Question is valid as written. Remediation will be conducted during the exam review with all applicants to correct the error in knowledge. Corrective Action Document PIR # 2004-1279.

Question #97

The question asks the basis for rod bank overlap. The answer selected by 67% of the examinees included providing adequate shutdown margin. Rod bank overlap does not provide shutdown margin. The question is good as written.

Response: No change. Question is valid as written. Remediation will be conducted during the exam review with all applicants to correct the error in knowledge. Corrective Action Document PIR # 2004-1279.

Question #99:

The question asks what actions must be taken if a radioactive gas release is delayed after the permit is issued. The answer selected by 67% of the examinees is that the Release permit has expired. That is not correct. The procedure simply requires that another sample be drawn prior to the release.

Response: No change. Question is valid as written. Remediation will be conducted during the exam review with all applicants to correct the error in knowledge. Corrective Action Document PIR # 2004-1279.

Exam Analysis for Questions Missed by 50% of Applicants.  
 For 1 – 75, 4 or more  
 For questions 76 – 100, 2 or more.

1.	26.	51. C.C	76.
2. B	27.	52. A.A	77.
3.	28. B.A.A	53. C.C	78.
4. B	29.	54.	79. A
5. B	30.	55.	80. A
6. C.C.C.C.C	31.	56. A	81.
7. B	32.	57.	82.
8. B.B.B.B.B.B.B	33.	58.	83.
9. D.B	34. C.D.D.D.C	59. C.C.D	84.
10.	35.	60. A	85.
11. B.D	36.	61. B	86. A
12. A	37. C	62. C	87.
13.	38. B	63. A.A.A.C.A	88.
14. A	39.	64. B.B	89. A.D
15. A.A.A.A.A.A.A	40.	65.	90. D
16. B	41.	66.	91.
17. C.C.C	42. A.A.A.A.A.A	67. A.A.A.A	92.
18. D.C	43.	68. A	93.
19. B	44.	69. B	94.
20.	45.	70. B.B.B	95.
21. C	46.	71.	96.
22.	47. D	72.	97. C.C
23.	48.	73.	98.
24.	49.	74. C.C	99. B.B
25.	50. B	75. D	100.