

**2004 EXAM PERFORMANCE ANALYSIS**

50% or more of the License Candidates missed the following questions:

Exam Question #9 missed by 5 of 10  
Topic: Knowledge of the purpose and function of major system components and controls  
Knowledge deficiency

Exam Question #10 missed by 5 of 10  
Topic: Knowledge of radiation exposure limits and contamination control, including permissible levels in excess of those authorized  
Knowledge deficiency

Exam Question #11 missed by 5 of 10  
Topic: SWS pumps (IPE/PRA)  
Knowledge Deficiency

Exam Question #16 missed by 7 of 10  
Topic: Knowledge of facility ALARA program  
Knowledge Deficiency

Exam Question #18 missed by 5 of 10  
Topic: Automatic load sequencer: blackout  
Knowledge Deficiency

Exam Question #29 missed by 5 of 10  
Topic: MFW line break depressurizes the S/G (similar to a steam line break)  
Knowledge Deficiency

Exam Question #61 missed by 5 of 10  
Topic: Indication of normal, natural, and interrupted circulation of RCS  
Knowledge Deficiency

Exam Question #72 missed by 5 of 10  
Topic: AFW System  
Knowledge Deficiency

Exam Question #73 missed by 8 of 10  
Topic: Ability to analyze the affect of maintenance activities on LCO status  
Knowledge Deficiency

Exam Question #75 missed by 7 of 10

Topic: Biological effects of various types of radiation, exposure levels that are acceptable for personnel in a nuclear power plant; units used for radiation intensity measurements and for radiation  
Knowledge Deficiency

Exam Question #78 missed by 4 of 6

Topic: Knowledge of refueling administrative requirements  
Knowledge Deficiency

Exam Question #90 missed by 4 of 6

Topic: Knowledge of the process for making changes in procedures as described in the safety analysis report  
Knowledge Deficiency

Exam Question #94 missed by 4 of 6

Topic: Knowledge of limiting conditions for operations and safety limits  
Knowledge Deficiency

Exam Question #98 missed by 3 of 6

Topic: Facility conditions and selection of appropriate procedures during abnormal and emergency operations  
Knowledge Deficiency

Each of the above questions was evaluated and determined to be valid.

The topics missed were evaluated to determine if any knowledge deficiencies were in common areas. One common knowledge weakness was identified. A course enhancement (6580) was written to place more emphasis on Health Physics topics.

A course enhancement (#6581) was written to evaluate any possible knowledge deficiencies applicable to Licensed Operator Continuing Training.

The knowledge deficiencies were remediated with the License Candidate following the examination.

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FEBRUARY 2004 NRC RO/SRO WRITTEN EXAM

2004 ILE WRITTEN EXAM QUESTION STATISTICS

1. Missed by 1 of 10 applicants.
3. Missed by 2 of 10 applicants.
5. Missed by 3 of 10 applicants.
6. Missed by 3 of 10 applicants.
8. Missed by 1 of 10 applicants.
- ~~9.~~ **Missed by 5 of 10 applicants. All chose C**
- 10. Missed by 5 of 10 applicants. All chose B**
- 11. Missed by 5 of 10 applicants. 1B, 4C**
12. Missed by 1 of 10 applicants.
14. Missed by 1 of 10 applicants.
- 16. Missed by 7 of 10 applicants. 3B, 3C, 1D**
17. Missed by 1 of 10 applicants.
- 18. Missed by 5 of 10 applicants. 2C, 3D**
23. Missed by 1 of 10 applicants.
24. Missed by 2 of 10 applicants.
25. Missed by 2 of 10 applicants.
- 29. Missed by 5 of 10 applicants. 1A, 4B**
33. Missed by 1 of 10 applicants.
34. Missed by 1 of 10 applicants.
35. Missed by 1 of 10 applicants.
36. Missed by 3 of 10 applicants.
37. Missed by 1 of 10 applicants.
38. Missed by 1 of 10 applicants.
39. Missed by 2 of 10 applicants.
42. Missed by 1 of 10 applicants.
46. Missed by 1 of 10 applicants.
48. Missed by 1 of 10 applicants.
50. Missed by 3 of 10 applicants.
54. Missed by 1 of 10 applicants.
55. Missed by 1 of 10 applicants.
57. Missed by 1 of 10 applicants.
58. Missed by 3 of 10 applicants.
59. Missed by 1 of 10 applicants.
- 61. Missed by 5 of 10 applicants. All chose A**
62. Missed by 1 of 10 applicants.
64. Missed by 3 of 10 applicants.
66. Missed by 2 of 10 applicants.
67. Missed by 1 of 10 applicants.
- 72. Missed by 5 of 10 applicants. 3A, 1C, 1D**
- 73. Missed by 8 of 10 applicants. 7B, 1C**
74. Missed by 2 of 10 applicants.
- 75. Missed by 7 of 10 applicants. All chose B**
76. Missed by 2 of 6 applicants.
77. Missed by 1 of 6 applicants.
- 78. Missed by 4 of 6 applicants. 2B, 2C**
79. Missed by 1 of 6 applicants.
- 90. Missed by 4 of 6 applicants. 3B, 1D**
92. Missed by 2 of 6 applicants.
93. Missed by 1 of 6 applicants.
- 94. Missed by 4 of 6 applicants. All chose C**
95. Missed by 1 of 6 applicants.
- 98. Missed by 3 of 6 applicants. All chose B**
100. Missed by 1 of 6 applicants.

2004 ILE WRITTEN EXAM  
QUESTIONS ASKED DURING EXAM

0832 GREEN #68

Q. Is there a loss of all DC power?

A. There is a loss of DC control power to NB01.

0840 CRISCIONE #6

Q. Can I assume that this is on the way down?

A. Level is just above mid loop.

0849 GRUER #54

Q. Is the 'A' response the same thing as slack cable?

A. Yes.

1040 HOLLAND #73

Q. For answer 'B' is the SI pump inoperable?

A. The only thing affecting it is the support system.

Q. For answer 'C' is the CCP in PTL past the end of shift?

A. No.

1136 FARROW #92

Q. In response 'A' are the Chemistry Tech and the EO the same person for both parts of the response?

A. Yes.