

# **2013 ANO-1 NRC RO Final Written Examination Analysis**

The threshold for determination of question analysis was a miss percentage of 50%.

## **#26**

8/14 total candidates missed (57.1%)

Six chose "A", one chose "C", and one chose "D". This question is very challenging but is based on the Technical Specification for cooldown limits, i.e., restore cooldown rate below the limit within 30 minutes. No change to the key was made. The question is technically correct as written, with no construction problems. We will be performing training needs analysis on this question.

## **#50**

10/14 total candidates missed (71.4%)

Three chose "A", five chose "B", and two chose "D". This question is very challenging and requires knowledge of LCO action statements. This question is valid as written. No change to the key was made. The question is technically correct as written, with no construction problems. We will be performing training needs analysis on this question.

## **#60**

9/14 total candidates missed (64.3%)

Four chose "A", two chose "C", and three chose "D". This question is about latching the turbine per procedure and can be difficult if the examinee has not done this recently. This question is valid as written. No change to the key was made. The question is technically correct as written, with no construction problems. We will be performing training needs analysis on this question.

# 2013 ANO-1 NRC SRO Final Written Examination Analysis

The threshold for determination of question analysis was a miss percentage of 50%.

## #85

3/6 total candidates missed (50.0%)

Three chose "B". In accordance with 1202.002, Loss of Subcooling Margin EOP, the examinee should recognize that Subcooling margin is lost and 1202.002 should not be exited. The condition of CET's at 600°F is close to the entry condition of 1202.004 and was probably too tempting a distractor for those that missed this question. This question is valid as written. No change to the key was made. The question is technically correct as written, with no construction problems. We will be performing training needs analysis on this question.

## #86

3/6 total candidates missed (50.0%)

Two chose "A", one chose "B". This question is very challenging with two very plausible distractors, A and B. This question is valid as written. No change to the key was made. The question is technically correct as written, with no construction problems. We will be performing training needs analysis on this question.

## #90

3/6 total candidates missed (50.0%)

Two chose "C", one chose "A". This question is very challenging with the need to know the bases of the Technical Specification, not just the specification alone. The two incorrect answers chosen both included classifying the diesel generator as operable, which is incorrect. This question is valid as written. No change to the key was made. The question is technically correct as written, with no construction problems. We will be performing training needs analysis on this question.

## #97

4/6 total candidates missed (66.7%)

All four chose "A". This question is very challenging with the "A" distracter containing part of the correct answer but with an incorrect basis for the specification. This question is valid as written. No change to the key was made. The question is technically correct as written, with no construction problems. We will be performing training needs analysis on this question.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	
1	2013 NRC Initial License Exam - Written Exam Analysis and Grading																Fraction	A	B	C	D
2																Incorrect	0.285714	4	0	0	0
3	1		A		A		A	A								0	0	0	0	0	
4	2															0	0	0	0	0	
5	3															0.071429	1	0	0	0	
6	4								A	A						0.071429	1	0	0	0	
7	5															0	0	0	0	0	
8	6									C						0.142857	0	0	0	0	
9	7					B										0.071429	0	1	0	0	
10	8															0	0	0	0	0	
11	9															0	0	0	0	0	
12	10															0	0	0	0	0	
13	11															0	0	0	0	0	
14	12						B								D	0.142857	0	1	0	1	
15	13															0	0	0	0	0	
16	14															0	0	0	0	0	
17	15															0	0	0	0	0	
18	16															0	0	0	0	0	
19	17															0	0	0	0	0	
20	18															0.142857	0	0	0	0	
21	19							D	D	D						0.142857	0	0	0	2	
22	20															0	0	0	0	0	
23	21															0	0	0	0	0	
24	22															0	0	0	0	0	
25	23															0.071429	0	0	1	0	
26	24								C							0	0	0	0	0	
27	25															0.214286	0	0	3	0	
28	26		A							D						0.571429	6	0	1	1	
29	27								A							0	0	0	0	0	
30	28	D														0	0	0	0	2	
31	29						D									0.142857	0	0	0	0	
32	30															0	0	0	0	0	
33	31															0.071429	0	0	1	0	
34	32															0	0	0	0	0	
35	33							D		D					D	0	0	0	0	3	
36	34															0.214286	0	0	0	0	
37	35															0	0	0	0	0	
38	36							D		D					A	0.428571	1	0	0	5	
39	37															0	0	0	0	0	
40	38									A						0.071429	1	0	0	0	
41	39															0	0	0	0	0	
42	40															0	0	0	0	0	
43	41									B						0.071429	0	1	0	0	
44	42															0	0	0	0	0	
45	43															0.428571	1	0	5	0	
46	44									B						0.214286	0	2	1	0	
47	45															0.214286	0	0	3	0	
48	46															0.142857	0	1	1	0	
49	47															0	0	0	0	0	
50	48															0	0	0	0	0	
51	49															0	0	0	0	0	
52	50	A			A	B	B		B						B	0.714286	3	5	0	2	
53	51															0	0	0	0	0	
54	52							D								0.071429	0	0	0	1	
55	53															0	0	0	0	0	
56	54															0	0	0	0	0	
57	55															0	0	0	0	0	
58	56															0	0	0	0	0	
59	57															0	0	0	0	0	
60	58					B										0.285714	0	0	4	0	
61	59															0.071429	0	1	0	0	
62	60	D					A								B	0.142857	0	2	0	0	
63	61	A						D		A					A	0.642857	4	0	2	3	
64	62		D							B						0.285714	2	2	0	0	
																0.214286	0	0	0	3	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T		
1	2013 NRC Initial License Exam - Written Exam Analysis and Grading																Fraction					
2																	Incorrect	A	B	C	D	
65	63															0	0	0	0	0		
66	64															0.285714	1	0	0	3		
67	65															0.071429	0	0	0	0		
68	66	D						B								0.428571	0	2	0	4		
69	67			D												0	0	0	0	0		
70	68															0.142857	2	0	0	0		
71	69															0.214286	0	0	3	0		
72	70	C														0	0	0	0	0		
73	71															0	0	0	0	0		
74	72															0.071429	0	0	1	0		
75	73	C														0	0	0	0	0		
76	74															0	0	0	0	0		
77	75															0	0	0	0	0		
78	76															0	0	0	0	0		
79	77															0.166667	0	0	1	0		
80	78															0	0	0	0	0		
81	79															0	0	0	0	0		
82	80															0	0	0	0	0		
83	81															0	0	0	0	0		
84	82															0.166667	0	1	0	0		
85	83															0	0	0	0	0		
86	84															0	0	0	0	0		
87	85															0	0	0	0	0		
88	86															0.5	0	3	0	0		
89	87															0	0	1	0	0		
90	88															0	0	0	0	0		
91	89															0.166667	0	1	0	0		
92	90															0	0	0	2	0		
93	91															0.5	0	0	0	0		
94	92															0	0	0	0	0		
95	93															0	0	0	0	0		
96	94															0	0	0	0	0		
97	95															0	0	0	0	0		
98	96															0.166667	1	0	0	0		
99	97															0	0	0	0	0		
100	98															0.666667	4	0	0	0		
101	99															0.333333	0	0	1	1		
102	100															0	0	0	0	0		
103	101															0	0	0	0	0		
104	102															0	0	0	0	0		
105	103	O-A miss	7	10	4	6	5	7	11	7	13	10	17	13	9	7	0	0	0	0		
106	104	RO	90.67%	86.67%	94.67%	92.00%	93.33%	90.67%	85.33%	90.67%	85.33%	86.67%	88.00%	93.33%	90.67%	7	0	0	0	0		
107	105									RO miss	11	7	10	9	5	7	0	0	0	0		
108	106									SRO Only	85.33%	90.67%	86.67%	88.00%	93.33%	90.67%	0	0	0	0		
109	107									SRO O-A	87.00%	90.00%	83.00%	87.00%	93.00%	91.00%	4	0	0	0		
	108									SRO miss	2	3	7	4	2	2	0	0	0	0		
	109									SRO Only	92.00%	88.00%	72.00%	84.00%	92.00%	92.00%	0	0	0	0		