

ANO Unit 1
NRC RO Written Exam Analysis
Administered: 8/16/02

Q#	QID
19	151 80% (4/5) 4 chose B, correct answer is A This question appeared on both RO & SRO exams with an overall miss percentage of 71%. For each cross zoned system there is a Switch Module with an Inhibit switch and next to it is a Manual Actuation switch, both have positions "Normal" and "Operate". Those that chose B were confusing the switch position terminology with the Manual Actuation switch. No deficiencies found in either training or question construction.
34	233 60% (3/5) 1 chose A, 2 chose D, correct answer is C Technical Specifications does state to perform an NI calibration every seven days but it also states to perform an NI calibration within 24 hours whenever power is changed by >10%. No deficiencies found in either training or question construction.
50	416 80% (4/5) 4 chose B, correct answer is C This question appeared on both RO & SRO exams with an overall miss percentage of 71%. This was a difficult question due to the requirement to recall the interlocks perfectly as all of the incorrect choices have combinations of correct and incorrect data. No deficiencies found in either training or question construction.
60	427 60% (3/5) 1 chose A, 2 chose C, correct answer is D This question appeared on both RO & SRO exams with an overall miss percentage of 43%. This is a situation with a loss of all FW, the correct strategy is to restore feedwater with a last resort to initiate HPI cooling. This question is difficult since it requires the candidate to recall EOP strategies which are many steps into the EOP No deficiencies found in either training or question construction.
77	463 60% (3/5) 1 chose A, 1 chose B, 1 chose D, correct answer is C The variety of misses provides no clear indication of a problem with the question. The question conditions provide clear indication of a stuck open Pressurizer code safety. No deficiencies found in either training or question construction.
79	468 60% (3/5) 2 chose C, 1 chose D, correct answer is A This question appeared on both RO & SRO exams with an overall miss percentage of 43%. This was a difficult question requiring knowledge of load shed feature of SU Transformer #2 as well as DC control power scheme for breaker operations. No deficiencies found in either training or question construction.

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Q# QID

93 232 60% (3/5) 3 chose D, correct answer is A
Those choosing D were simply mistaken in recalling the power level at which turnover is allowed during startup. No deficiencies found in either training or question construction.

* As a good practice, all of the missed questions will be reviewed with the candidates in the week following the exam.

ANO Unit 1
NRC SRO Written Exam Analysis
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Q#	QID	
19	151	50% (1/2) 1 chose C, correct answer is A This question appeared on both RO & SRO exams with an overall miss percentage of 71%. For each cross zoned system there is a Switch Module with an Inhibit switch and next to it is a Manual Actuation switch, both have positions "Normal" and "Operate". No deficiencies found in either training or question construction.
33	229	50% (1/2) 1 chose B, correct answer is C This question appeared on both RO & SRO exams and the only person that missed this question was an SRO candidate. The overall miss percentage was 14%. No deficiencies found in either training or question construction.
48	379	50% (1/2) 1 chose A, correct answer is B This question appeared on both RO & SRO exams and the only person that missed this question was an SRO candidate. The overall miss percentage was 14%. No deficiencies found in either training or question construction.
50	416	50% (1/2) 1 chose B, correct answer is C This question appeared on both RO & SRO exams with an overall miss percentage of 71%. This was a difficult question due to the requirement to recall the interlocks perfectly as all of the incorrect choices have combinations of correct and incorrect data. No deficiencies found in either training or question construction.
59	426	50% (1/2) 1 chose A, correct answer is C This question appeared on both RO & SRO exams with an overall miss percentage of 29%. The candidate that chose A did not recall the limit for the BWST is 23 ft. and not 23.5 ft. as given in choice A. No deficiencies found in either training or question construction.
68	440	50% (1/2) 1 chose A, correct answer is D This question appeared on both RO & SRO exams with an overall miss percentage of 29%. This is a straight forward knowledge question. No deficiencies found in either training or question construction.
72	447	100% (2/2) 2 chose C, correct answer is B This question appeared on both RO & SRO exams with an overall miss percentage of 57%. The candidates that missed this question either did not recall the requirements or confused the old Technical Specifications requirement of a EDG Starting Air Compressor with the new Technical Specifications that do not require the compressors. No deficiencies found in either training or question construction.

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NRC SRO Written Exam Analysis
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- | Q# | QID |
|----|--|
| 74 | 466 50% (1/2) 1 chose D, correct answer is B
This was a difficult question. No deficiencies found in either training or question construction. |
| 77 | 463 50% (1/2) 1 chose B, correct answer is C
This question appeared on both RO & SRO exams with an overall miss percentage of 57%. The variety of misses provides no clear indication of a problem with the question. The question conditions provide clear indication of a stuck open Pressurizer code safety. No deficiencies found in either training or question construction. |
| 83 | 52 50% (1/2) 1 chose D, correct answer is B
This question appeared on both RO & SRO exams and the only person that missed this question was an SRO candidate. The overall miss percentage was 14%. No deficiencies found in either training or question construction. |
| * | As a good practice, all of the missed questions will be reviewed with the candidates in the week following the exam. |

ANO - Unit 1
2001 RO/SRO License Exam Analysis

QID #	RO	A	B	C	D	% MISS
102	1	A				0.00%
104	2				D	0.00%
425	3	A				0.00%
247	4				D	0.00%
389	5	A				0.00%
121	6				D	0.00%
444	7		1	C		20.00%
443	8	A				0.00%
245	9				D	0.00%
14	10				D	0.00%
15	11			C		0.00%
27	12			C		0.00%
63	13		1	1	D	40.00%
35	14			C		0.00%
77	15		B			0.00%
85	16			C		0.00%
113	17	A				0.00%
137	18			C		0.00%
151	19	A	4			80.00%
161	20				D	0.00%
170	21				D	0.00%
174	22	A				0.00%
184	23			C		0.00%
186	24		B			0.00%
187	25				D	0.00%
189	26	A				0.00%
191	27			C		0.00%
194	28	A				0.00%
200	29			C		0.00%
210	30				D	0.00%
222	31	A				0.00%
224	32				D	0.00%
229	33			C		0.00%
233	34	1		C	2	60.00%
234	35				D	0.00%
244	36				D	0.00%
255	37			C		0.00%
261	38				D	0.00%
264	39				D	0.00%
285	40		B			0.00%
299	41	A				0.00%
311	42			C		0.00%
337	43	A				0.00%
363	44			C		0.00%
364	45			C		0.00%
365	46		B			0.00%
372	47			C		0.00%

QID #	SRO	A	B	C	D	% MISS	Both
102	1	A				0.00%	0.00%
104	2				D	0.00%	0.00%
407	3		B			0.00%	
247	4				D	0.00%	0.00%
411	5		B			0.00%	
121	6				D	0.00%	0.00%
367	7			C		0.00%	
443	8	A				0.00%	0.00%
129	9				D	0.00%	
14	10				D	0.00%	0.00%
15	11			C		0.00%	0.00%
32	12			C		0.00%	
63	13				D	0.00%	28.57%
35	14			C		0.00%	0.00%
77	15		B			0.00%	0.00%
85	16			C		0.00%	0.00%
113	17	A				0.00%	0.00%
137	18			C		0.00%	0.00%
151	19	A		1		50.00%	71.43%
161	20				D	0.00%	0.00%
467	21				D	0.00%	
174	22	A				0.00%	0.00%
184	23			C		0.00%	0.00%
186	24		B			0.00%	0.00%
187	25				D	0.00%	0.00%
189	26	A				0.00%	0.00%
368	27			C		0.00%	
117	28	A				0.00%	
200	29			C		0.00%	0.00%
210	30				D	0.00%	0.00%
222	31	A				0.00%	0.00%
224	32				D	0.00%	0.00%
229	33		1	C		50.00%	14.29%
278	34			C		0.00%	0.00%
234	35				D	0.00%	0.00%
244	36				D	0.00%	0.00%
331	37			C		0.00%	
182	38		B			0.00%	
264	39				D	0.00%	0.00%
285	40		B			0.00%	0.00%
169	41	A				0.00%	
342	42			C		0.00%	
337	43	A				0.00%	0.00%
363	44			C		0.00%	0.00%
364	45			C		0.00%	0.00%
365	46		B			0.00%	0.00%
372	47			C		0.00%	0.00%

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2001 RO/SRO License Exam Analysis

QID #	RO	A	B	C	D	% MISS
379	48		B			0.00%
414	49	A				0.00%
416	50		4	C		80.00%
415	51				D	0.00%
417	52	1		C		20.00%
418	53	1		C		20.00%
419	54	1			D	20.00%
421	55	A			1	20.00%
420	56		B			0.00%
422	57	A				0.00%
424	58	A				0.00%
426	59	1		C		20.00%
427	60	1		2	D	60.00%
429	61				D	0.00%
431	62		B			0.00%
434	63			C		0.00%
435	64		B			0.00%
436	65		B			0.00%
439	66		1		D	20.00%
437	67	2	B			40.00%
440	68		1		D	20.00%
441	69	1	B		1	40.00%
442	70	A				0.00%
446	71				D	0.00%
447	72	1	B	1		40.00%
448	73	A	1	1		40.00%
450	74			C		0.00%
451	75	A				0.00%
462	76			C		0.00%
463	77	1	1	C	1	60.00%
464	78		B			0.00%
468	79	A		2	1	60.00%
2	80		B			0.00%
20	81	A				0.00%
46	82		1	C		20.00%
52	83		B			0.00%
95	84	A				0.00%
73	85			C		0.00%
108	86	A		2		40.00%
122	87	A				0.00%
126	88		1	C		20.00%
164	89	A				0.00%
167	90		B			0.00%
197	91			C		0.00%
205	92		B			0.00%
232	93	A			3	60.00%
344	94			1	D	20.00%
423	95			C		0.00%
428	96		B			0.00%

QID #	SRO	A	B	C	D	% MISS	Both
379	48	1	B			50.00%	14.29%
414	49	A				0.00%	0.00%
416	50		1	C		50.00%	71.43%
415	51				D	0.00%	0.00%
417	52			C		0.00%	14.29%
418	53			C		0.00%	14.29%
419	54				D	0.00%	14.29%
421	55	A				0.00%	14.29%
420	56		B			0.00%	0.00%
422	57	A				0.00%	0.00%
424	58	A				0.00%	0.00%
426	59	1		C		50.00%	28.57%
427	60				D	0.00%	42.86%
429	61				D	0.00%	0.00%
431	62		B			0.00%	0.00%
434	63			C		0.00%	0.00%
435	64		B			0.00%	0.00%
62	65		B			0.00%	
439	66				D	0.00%	14.29%
465	67		B			0.00%	
440	68	1			D	50.00%	28.57%
441	69		B			0.00%	28.57%
442	70	A				0.00%	0.00%
460	71			C		0.00%	
447	72		B	2		100.00%	57.14%
448	73	A				0.00%	28.57%
466	74		B		1	50.00%	
452	75	A				0.00%	
462	76			C		0.00%	0.00%
463	77		1	C		50.00%	57.14%
464	78		B			0.00%	0.00%
468	79	A				0.00%	42.86%
2	80		B			0.00%	0.00%
20	81	A				0.00%	0.00%
454	82			C		0.00%	
52	83		B		1	50.00%	14.29%
95	84	A				0.00%	0.00%
458	85		B			0.00%	
108	86	A				0.00%	28.57%
122	87	A				0.00%	0.00%
459	88		B			0.00%	
164	89	A				0.00%	0.00%
167	90		B			0.00%	0.00%
197	91			C		0.00%	0.00%
455	92		B			0.00%	
354	93	A				0.00%	
344	94				D	0.00%	14.29%
423	95			C		0.00%	0.00%
457	96		B			0.00%	

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2001 RO/SRO License Exam Analysis

QID #	RO	A	B	C	D	% MISS
430	97				D	0.00%
433	98				D	0.00%
445	99	A				0.00%
449	100				D	0.00%

	<u>Tot A's</u>	<u>Tot B's</u>	<u>Tot C's</u>	<u>Tot D's</u>
100	27	18	29	26

QID #	SRO	A	B	C	D	% MISS	Both
430	97				D	0.00%	0.00%
347	98				D	0.00%	
445	99	A				0.00%	0.00%
449	100				D	0.00%	0.00%

	<u>Tot A's</u>	<u>Tot B's</u>	<u>Tot C's</u>	<u>Tot D's</u>
100	25	24	27	24