

2004 NRC RO/SRO Written Examination Analysis

#9 RO and SRO QID #496

- 5/9 missed (55.6%), 3 chose “D”, one each chose “A” and “B”
- This question that evaluates electrical theory knowledge. This is covered in Generic Fundamentals training. The question is satisfactory as written and no programmatic training deficiencies were identified. This question will be reviewed with the candidates during post-examination activities.

#59 RO and SRO QID #525

- 8/9 missed (88.9%), 5 chose “A”, 3 chose “D”
- This question concerns an interlock on an infrequently operated system (Reactor Building Purge) and two of the distracters are very close to the correct response. The distracter “A” will achieve the desired result, no over-pressurization of the Reactor Building upon Purge initiation. This is one plausible reason why this incorrect choice was the most popular. Distracter “D” is also very close to the correct answer. The question is technically correct as written. The interlock is adequately covered in existing training materials and procedural guidance. This question will be reviewed with the candidates during post-examination activities.

#71 RO and SRO QID#532

- 5/9 missed (55.6%), 2 chose “C”, one each chose “A” and “D”
- The distribution of incorrect answers does not reveal any question construction problems. The question is satisfactory as written. Turbine bypass valve failure and EHC controls are adequately covered in existing training materials. This question will be reviewed with the candidates during post-examination activities.

#73 RO and SRO QID#534

- 5/9 missed (55.6%), all chose “A”
- This question required rather specific knowledge of SW crosstie valve power supplies. The question is technically correct as written. The reversed layout of the control panels does not lend itself easily to long term recall, i.e., odd numbered components are normally powered from the red train, but not in this case. Electrical Distribution is adequately covered in existing training materials. This question will be reviewed with the candidates during post-examination activities.

#77 SRO only QID#491

- 2/4 missed (50%), one chose “A” and one chose “D”
- This question tests knowledge of conditions under which HPI may be secured in accordance with Emergency Operating Procedures (EOPs). This knowledge is adequately covered in existing EOP training materials and included in simulator training for SROs. The small sample size and varied distribution of incorrect answers provides no evidence of question construction problems. The question is technically correct as written. This question will be reviewed with the candidates during post-examination activities.

2004 NRC SRO Written Examination Analysis

(continued)

#91 SRO only QID#487

- 2/4 missed (50%), one chose "A" and one chose "D"
- This question tests knowledge of administrative responsibilities for post-maintenance testing. Administrative responsibilities are adequately covered in the initial SRO training program. The small sample size and varied distribution of incorrect answers provides no evidence of question construction problems. The question is technically correct as written. This question will be reviewed with the candidates during post-examination activities.

ANO - Unit 1

2004 RO/SRO License Exam Analysis

QID #	RO	A	B	C	D	% MISS
142	1				D	0.00%
452	2	A				0.00%
4	3		B			0.00%
495	4			C		0.00%
8	5			C		0.00%
344	6				D	0.00%
156	7		B			0.00%
229	8			C		0.00%
496	9	1	1	C	2	80.00%
497	10	2		C		40.00%
418	11			C		0.00%
498	12		B			0.00%
499	13				D	0.00%
545	14			C	1	20.00%
159	15		B			0.00%
501	16	A				0.00%
502	17			C	2	40.00%
503	18	A		1		20.00%
504	19				D	0.00%
62	20		B			0.00%
505	21			C		0.00%
371	22			3	D	60.00%
506	23		B			0.00%
507	24		B			0.00%
508	25		B			0.00%
380	26		2		D	40.00%
164	27	A				0.00%
509	28			C		0.00%
510	29				D	0.00%
511	30				D	0.00%
333	31				D	0.00%
335	32	A	1		1	40.00%
513	33			C		0.00%
346	34		B			0.00%
483	35	A			1	20.00%
219	36		B			0.00%
2	37		B			0.00%
515	38		B	1		20.00%
189	39	A		1		20.00%
516	40	A				0.00%
494	41		B	2		40.00%
299	42	A				0.00%
517	43				D	0.00%
476	44			C		0.00%
240	45	A				0.00%
480	46	A		1		20.00%
61	47	1	B			20.00%
218	48			C		0.00%
63	49				D	0.00%
481	50		B			0.00%
482	51		B	1		20.00%
67	52		B	1		20.00%
301	53			1	D	20.00%
471	54			C		0.00%
521	55				D	0.00%
522	56		B			0.00%
523	57	A				0.00%
524	58		B			0.00%
525	59	3		C	1	80.00%
312	60		B			0.00%

QID #	SRO	A	B	C	D	% MISS	Both
142	1				D	0.00%	0.00%
452	2	A				0.00%	0.00%
4	3		B			0.00%	0.00%
495	4			C		0.00%	0.00%
8	5			C		0.00%	0.00%
344	6				D	0.00%	0.00%
156	7		B			0.00%	0.00%
229	8		2	C		50.00%	22.22%
496	9			C	1	25.00%	55.56%
497	10	1		C		25.00%	33.33%
418	11			C		0.00%	0.00%
498	12		B			0.00%	0.00%
499	13		1		D	25.00%	11.11%
545	14			C	1	25.00%	22.22%
159	15		B			0.00%	0.00%
501	16	A				0.00%	0.00%
502	17			C		0.00%	22.22%
503	18	A		1		25.00%	22.22%
504	19				D	0.00%	0.00%
62	20		B			0.00%	0.00%
505	21			C		0.00%	0.00%
371	22				D	0.00%	33.33%
506	23		B			0.00%	0.00%
507	24		B			0.00%	0.00%
508	25	1	B			25.00%	11.11%
380	26		1		D	25.00%	33.33%
164	27	A				0.00%	0.00%
509	28			C		0.00%	0.00%
510	29				D	0.00%	0.00%
511	30				D	0.00%	0.00%
333	31				D	0.00%	0.00%
335	32	A				0.00%	22.22%
513	33			C		0.00%	0.00%
346	34		B			0.00%	0.00%
483	35	A		1		25.00%	22.22%
219	36		B			0.00%	0.00%
2	37		B			0.00%	0.00%
515	38		B	2		50.00%	33.33%
189	39	A				0.00%	11.11%
516	40	A				0.00%	0.00%
494	41		B	1		25.00%	33.33%
299	42	A				0.00%	0.00%
517	43				D	0.00%	0.00%
476	44			C		0.00%	0.00%
240	45	A				0.00%	0.00%
480	46	A				0.00%	11.11%
61	47		B			0.00%	11.11%
218	48			C		0.00%	0.00%
63	49				D	0.00%	0.00%
481	50		B			0.00%	0.00%
482	51		B			0.00%	11.11%
67	52		B			0.00%	11.11%
301	53				D	0.00%	11.11%
471	54			C		0.00%	0.00%
521	55				D	0.00%	0.00%
522	56		B			0.00%	0.00%
523	57	A				0.00%	0.00%
524	58		B		1	25.00%	11.11%
525	59	2		C	2	100.00%	88.89%
312	60		B			0.00%	0.00%

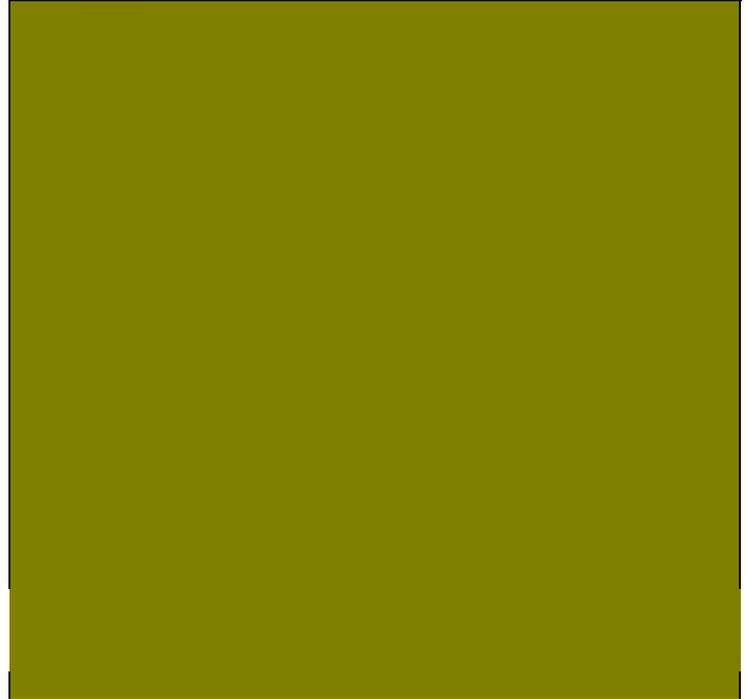
ANO - Unit 1

2004 RO/SRO License Exam Analysis

QID #	RO	A	B	C	D	% MISS
526	61		B			0.00%
202	62				D	0.00%
527	63				D	0.00%
528	64		B			0.00%
529	65			C		0.00%
530	66	A				0.00%
136	67				D	0.00%
209	68		B			0.00%
474	69			C		0.00%
531	70	1		C		20.00%
532	71	1	B	1	1	60.00%
533	72	A		1	1	40.00%
534	73	3			D	60.00%
547	74	A				0.00%
104	75				D	0.00%
536	76			C		0.00%
537	77		B	1	1	40.00%
538	78	A				0.00%
539	79	1		C		20.00%
470	80		B			0.00%
273	81			C		0.00%
379	82		B			0.00%
381	83		B		2	40.00%
472	84		B			0.00%
540	85			C		0.00%
541	86				D	0.00%
542	87				D	0.00%
475	88	A				0.00%
190	89		B			0.00%
50	90	A	1			20.00%
400	91				D	0.00%
232	92	A				0.00%
477	93			C		0.00%
115	94				D	0.00%
362	95	A				0.00%
518	96			C		0.00%
144	97				D	0.00%
165	98		B			0.00%
519	99			C		0.00%
520	100			C		0.00%

Tot A's **Tot B's** **Tot C's** **Tot D's**
100 **20** **31** **26** **23**

QID #	SRO	A	B	C	D	% MISS	Both
526	61		B			0.00%	0.00%
202	62				D	0.00%	0.00%
527	63				D	0.00%	0.00%
528	64		B			0.00%	0.00%
529	65			C		0.00%	0.00%
530	66	A				0.00%	0.00%
136	67				D	0.00%	0.00%
209	68		B			0.00%	0.00%
474	69			C		0.00%	0.00%
531	70		1	C		25.00%	22.22%
532	71		B	2		50.00%	55.56%
533	72	A				0.00%	22.22%
534	73	2			D	50.00%	55.56%
547	74	A				0.00%	0.00%
104	75				D	0.00%	0.00%



420	76		B			0.00%	
491	77	1	B		1	50.00%	
167	78		B			0.00%	
478	79			C		0.00%	
543	80		B			0.00%	
9	81		B			0.00%	
544	82			C		0.00%	
454	83			C		0.00%	
407	84	A				0.00%	
484	85		B			0.00%	
492	86	A				0.00%	
485	87				D	0.00%	
110	88		B			0.00%	
548	89				D	0.00%	
486	90				D	0.00%	
487	91	1	B		1	50.00%	
488	92			C		0.00%	
250	93			C		0.00%	
249	94		1	C		25.00%	
66	95			C		0.00%	

ANO - Unit 1
2004 RO/SRO License Exam Analysis

QID #	RO	A	B	C	D	% MISS
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QID #	SRO	A	B	C	D	% MISS	Both
412	96	A				0.00%	
146	97	A				0.00%	
399	98		1		D	25.00%	
489	99		B			0.00%	
357	100			C		0.00%	

	Tot A's	Tot B's	Tot C's	Tot D's
100	19	33	26	22

ANO-1 Written Exam Questions 1/9/2004			
Question No.	Candidate		
33	SRO	Question	In "A" and "C", does "manual start" include a No DC start?
		Proctor Response	A manual start by any means.
40	RO	Question	Is RS1 still de-energized due to the electrical fault?
		Proctor Response	Yes.
72	RO	Question	Does NR mean "Narrow Range"?
		Proctor Response	Yes.
46	SRO	Question	Does "unit" imply "train"?
		Proctor Response	There is a difference between unit and train.
19	RO	Question	In answer "D", does "SG pressures" imply both SGs?
		Proctor Response	No, pressure should be singular in that answer.
17	RO	Question	Are both batch controller displays stuck on 99999?
		Proctor Response	No, only the "set" display is stuck at that value.
72	RO	Question	Neutron error increases & decreases, is that positive and negative neutron error or is it implying a larger and smaller error?
		Proctor Response	Positive and negative.
97 (SRO only)	SRO	Question	The annunciator given here, is that the only annunciator in alarm?
		Proctor Response	There may be others in alarm.