ANO - Unit 1
2007 RO/SRO License Exam Analysis

QID #	RO	A	B	C	D	% MISS
23	1	A				0.00%
27	2	3	B			**60.00%**
404	3				D	0.00%
491	4		B			0.00%
452	5				D	0.00%
549	6	A				0.00%
33	7				D	0.00%
284	8		B			0.00%
328	9	A				0.00%
332	10	A				0.00%
663	11			C		0.00%
662	12		1	C	1	40.00%
338	13				D	0.00%
664	14		B			0.00%
336	15			C		0.00%
554	16	A				0.00%
108	17	A				0.00%
556	18	1		C		20.00%
21	19				D	0.00%
467	20				D	0.00%
665	21		B			0.00%
257	22			C		0.00%
511	23				D	0.00%
206	24				D	0.00%
498	25		B			0.00%
20	26	A				0.00%
4	27		B		1	20.00%
559	28			C	1	20.00%
653	29			C		0.00%
657	30		2	C	3	**100.00%**
654	31	A				0.00%
293	32	A		2		40.00%
166	33	1	B			20.00%
655	34		B			0.00%

QID #	SRO	A	B	C	D	% MISS		Both
23	1	A				0.00%		0.00%
27	2	6	B			**100.00%**		**81.82%**
404	3				D	0.00%		0.00%
491	4	1	B	1		33.33%		18.18%
452	5	2			D	33.33%		18.18%
549	6	A				0.00%		0.00%
33	7				D	0.00%		0.00%
284	8		B			0.00%		0.00%
328	9	A				0.00%		0.00%
332	10	A				0.00%		0.00%
663	11			C	1	16.67%		9.09%
662	12		1	C		16.67%		27.27%
338	13				D	0.00%		0.00%
664	14		B			0.00%		0.00%
336	15			C		0.00%		0.00%
554	16	A		1		16.67%		9.09%
108	17	A				0.00%		0.00%
556	18	1		C		16.67%		18.18%
21	19		1		D	16.67%		9.09%
467	20				D	0.00%		0.00%
665	21		B			0.00%		0.00%
257	22			C		0.00%		0.00%
511	23				D	0.00%		0.00%
206	24		1		D	16.67%		9.09%
498	25		B			0.00%		0.00%
20	26	A				0.00%		0.00%
4	27		B			0.00%		9.09%
559	28	1		C	1	33.33%		27.27%
653	29			C		0.00%		0.00%
657	30		3	C	1	**66.67%**		**81.82%**
654	31	A		1		16.67%		9.09%
293	32	A		1		16.67%		27.27%
166	33	1	B			16.67%		18.18%
655	34		B			0.00%		0.00%

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QID #	RO	A	B	C	D	% MISS
658	35			C		0.00%
226	36		B			0.00%
212	37			C		0.00%
659	38				D	0.00%
192	39	A				0.00%
430	40	1			D	20.00%
660	41			C		0.00%
661	42			C		0.00%
223	43				D	0.00%
656	44			C		0.00%
667	45	A				0.00%
268	46			C		0.00%
668	47		1		D	20.00%
669	48				D	0.00%
670	49	A	1		1	40.00%
671	50			C		0.00%
672	51	A	1	1		40.00%
46	52			C		0.00%
405	53				D	0.00%
673	54		B			0.00%
158	55		B			0.00%
674	56			C	3	**60.00%**
675	57	A			2	40.00%
381	58		B			0.00%
58	59		B			0.00%
309	60	A				0.00%
59	61				D	0.00%
474	62			C		0.00%
199	63	A				0.00%
200	64			C		0.00%
470	65		B			0.00%
676	66		B			0.00%
677	67		B			0.00%
245	68				D	0.00%

QID #	SRO	A	B	C	D	% MISS		Both
658	35			C		0.00%		0.00%
226	36		B		1	16.67%		9.09%
212	37			C		0.00%		0.00%
659	38				D	0.00%		0.00%
192	39	A				0.00%		0.00%
430	40				D	0.00%		9.09%
660	41		2	C		33.33%		18.18%
661	42			C		0.00%		0.00%
223	43				D	0.00%		0.00%
656	44			C		0.00%		0.00%
667	45	A				0.00%		0.00%
268	46			C		0.00%		0.00%
668	47				D	0.00%		9.09%
669	48	A			D	0.00%		0.00%
670	49	A			2	33.33%		36.36%
671	50		1	C		16.67%		9.09%
672	51	A	1			16.67%		27.27%
46	52			C		0.00%		0.00%
405	53				D	0.00%		0.00%
673	54		B			0.00%		0.00%
158	55		B			0.00%		0.00%
674	56			C	4	**66.67%**		**63.64%**
675	57	A	1		2	**50.00%**		45.45%
381	58		B			0.00%		0.00%
58	59	1	B			16.67%		9.09%
309	60	A				0.00%		0.00%
59	61				D	0.00%		0.00%
474	62			C		0.00%		0.00%
199	63	A				0.00%		0.00%
200	64			C		0.00%		0.00%
470	65		B			0.00%		0.00%
676	66		B		2	33.33%		18.18%
677	67	1	B			16.67%		9.09%
245	68				D	0.00%		0.00%

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QID #	RO	A	B	C	D	% MISS
477	69	1		C		20.00%
233	70		1		D	20.00%
231	71		B			0.00%
121	72		B			0.00%
436	73		B			0.00%
19	74				D	0.00%
10	75		B			0.00%
		Tot A's	Tot B's	Tot C's	Tot D's	
75		16	21	20	18	

QID #	SRO	A	B	C	D	% MISS		Both
477	69			C		0.00%		9.09%
233	70		1		D	16.67%		18.18%
231	71		B			0.00%		0.00%
121	72		B			0.00%		0.00%
436	73		B			0.00%		0.00%
19	74				D	0.00%		0.00%
10	75		B			0.00%		0.00%
638	76		1	C		16.67%		
639	77		B		1	16.67%		
640	78		1		D	16.67%		
279	79	A				0.00%		
412	80	A				0.00%		
641	81	A				0.00%		
678	82			C		0.00%		
643	83			C	2	33.33%		
420	84		B	1		16.67%		
342	85				D	0.00%		
647	86	A				0.00%		
648	87		B		5	**83.33%**		
679	88	A		4	1	**83.33%**		
646	89		1	C		16.67%		
650	90			C		0.00%		
450	91			C		0.00%		
399	92				D	0.00%		
14	93	A			2	33.33%		
492	94	1	B		1	33.33%		
457	95			C		0.00%		
409	96				D	0.00%		
651	97	1	1	2	D	**66.67%**		
243	98	A	2	1		**50.00%**		
313	99		B			0.00%		
129	100			C		0.00%		
		Tot A's	Tot B's	Tot C's	Tot D's			
25		7	5	8	5			

2007 ANO-1 NRC RO Written Examination Analysis

The threshold for determination of question analysis was a miss percentage of 50% for either the group of RO candidates or the group of SRO candidates despite how they performed as a whole.

#2 QID #027

3/5 RO candidates missed (60%), all chose "A"
6/6 SRO candidates missed (100%), all chose "A"
9/11 total candidates missed (82%)

The question asks for expected temperature on the outlet of the ERV. All those who chose "A" mistakenly assumed this would be the saturation temperature for the Quench Tank which was at zero psig. Only those that identified this as an isenthalpic throttling process and used the Mollier diagram from the supplied steam tables to arrive at the answer were successful. No change to the key was made. The question is technically correct as written, we will be performing training needs analysis on this question.

#30 QID #0657

5/5 RO candidates missed (100%), 2 chose "B", 3 chose "D"
4/6 SRO candidates missed (67%), 3 chose "B", 1 chose "D"
9/11 total candidates missed (82%), 5 chose ""B", 4 chose "D"

The question evaluates knowledge of the HPI pump ESF auto-start logic. It is the MOD closure contacts that determine which bus the swing pump will align to and not the MOD bus selector switch, which determines which MOD can be manually operated from the Control Room. 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.

#56 QID #0674

3/5 RO candidates missed (60%), all chose "D"
4/6 SRO candidates missed (67%), all chose "D"
9/11 total candidates missed (82%)

This question gives the conditions of a reactor approach to criticality (startup) is in progress when two rods drop. If the unit was greater than 2% power, then the operators are procedurally required to trip the reactor (this was choice "D"). During a startup, however, the reactor is shutdown by inserting the control groups. 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.

2007 ANO-1 NRC RO Written Examination Analysis

#57 QID #0675

2/5 RO candidates missed (40%), all chose "D"

3/6 SRO candidates missed (50%), 1 chose "B", 2 chose "D"

5/11 total candidates missed (45%)

This question asks for the design basis accident for the reactor building pressure design criterion. If the candidate has not studied this recently the likelihood of recall is low, and then the candidate is reduced to guessing. 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.