

ADMINISTRATIVE DOCUMENTS

(Yellow Paper)

- ~~1.~~ Exam Preparation Checklist ES-201-1
- ~~2.~~ Exam Outline Quality Checklist ES-201-2
- ~~3.~~ Exam Security Agreement(s) ES-201-3
- N/A 4. Administrative Topics Outline (Final) ES-301-1
- N/A 5. Control Room Systems & Facility Walk-through Test Outline
(Final) ES-301-2
- N/A 6. Operating Test Quality Check Sheet ES-301-3
- N/A 7. Simulator Scenario Quality Check Sheet ES-301-4
- N/A 8. Transient and Event Checklist ES-301-5
- N/A 9. Competencies Checklist ES-301-6
- ✓10. Written Exam Quality Check Sheet ES-401-6
- ✓11. Written Exam Review Worksheet ES-401-9
- ✓12. Written Exam Grading Quality Checklist ES-403-1
- ✓13. Post-Exam Check Sheet ES-501-1
- ✓14. Facility Submittal Letter - 2 DTD []
2-24-06 [NOT-04046] AND
3-29-06 [NOT-04053]

VOGTLE MAY 2006 RETAKE EXAM

05000424/2005302 AND 05000425/2005302

**WRITTEN ONLY ON
MAY 1, 2006**

NOTE 1: LOK based on my assessment. Did not consider licensee's evaluation
NOTE 2: I rated "U" if no match to K/A OR if comments are required to be implemented to ensure one and only one correct answer. I rated "E" if comments resolution will just correct a typo or make a SAT question better. Also, did not rate "U" if the question needed revision but had been used on a previous NRC-Approved exam (used BOLD E). Did NOT rate "U" if only one bad distractor. Your discretion on how you communicate "ratings" to licensee.
NOTE 3: All questions were given a technical review for correct answer using references denoted in the question.
NOTE 4: Resolution of comments per TELCON 4/6/06 in BOLD under explanation .
 Revised 4/19/06 to reflect final disposition of comments at meeting with licensee 4/17/06.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws				4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation		
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia units	#/ Back- ward	Q= K/A	SRO Only				
1	F	3				X							Y	N	U	"C" and "D" seem implausible. Cannot recall there would be ANY time with NO withdraw limit. Recommend some limit specified (6 steps/min) Licensee will revise as recommended. Verified comments incorporated 4/17/06
2	F	3											Y	N	E	"D" implausible. Would expect S/G level to rise if Tc increases. Will revise to "...the decrease in Tcold..." Verified comments incorporated 4/17/06
3	F	3			X								Y	N	E	change "following" to "provided" Will change as recommended Verified comments incorporated 4/17/06
4	F	3											Y	N	E	Specify procedure # and title in stem Will change as recommended Verified comments incorporated 4/17/06
5	F	3											Y	N	S	
6	F	2	X										Y	N	E	add "All safety related equipment functions as designed". Needed to elicit one correct answer Will change as recommended Verified comments incorporated 4/17/06

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
7	H	2											Y (see note)	N	E	Typo in "D" (mismatch) Will change as recommended Verified comments Incorporated 4/17/06 Note:K/A match OK since "burping" has an impact on PRTS
8	H	2											Y	N	E	add "automatic" operation; delete bullets (superfluous info) Will change as recommended Verified comments Incorporated 4/17/06
9	F	3											Y	N	S	
10	H	3											Y	N	S	
11	H	2											Y	N	E	add "the cause of" this annunciator... Will change as recommended Verified comments Incorporated 4/17/06
12	F	2											Y	N	E	add "source of" the power supplies... "and effect on" PRZR... Will change as recommended Verified comments Incorporated 4/17/06
13	H	3	X										Y	N	U	change stem to "Reactor power is then ramped to 75% by the RO using Control Rods and boron concentration to keep Tave on program" Will change as recommended Verified comments Incorporated 4/17/06
14	H	2											Y	N	E	add "associated trip" annunciator... "however", following... Will change as recommended Verified comments Incorporated 4/17/06
15	H	2											Y	N	S	
16	H	2											Y	N	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws				4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A			SRO Only
17	H	2	X									N	N	U	K/A mismatch Q is an effect on pump, not vice versa. Need to ask why/how a pump trip affects/could affect seals Note: When "fixing" this question make it "F" LOK. We are right at the limit for "H" LOK questions for an RO exam. Will revise question to a pump fail/seal effect question Verified comments Incorporated 4/17/06 (new question SAT)
18	F	1-2										Y	N	S	
19	H	3										Y	N	S	
20	H	2										Y	N	E	add just "restored" FIC-021 "to" automatic "from manual" Will change as recommended Verified comments Incorporated 4/17/06
21	H	4										Y	N	S	
22	H	2			X							Y	N	U	Add ...did not automatically actuate "due to sensor failures" This is necessary to ensure no one could argue the logic could be "cocked" and a single switch cause full actuation Will change as recommended Verified comments Incorporated 4/17/06 (New question SAT)
23	H	2										Y	N	E	Delete first stem statement (superfluous info) Verified comments Incorporated 4/17/06
24	F	3										Y	N	S	
25	H	2										Y	N	S	
26	F	2										Y	N	S	
27	H	2										Y	N	S	
28	F	2										Y	N	S	
29	H	2										Y	N	S	Note: K/A satisfied since loss of BY1B results in loss of source and intermediate range. Action is to trip reactor since this represents an ATWT condition

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
30	H	3	X										N	N	U	K/A mismatch- this is an FHR question, not a FHS question Designated correct answer inconsistent with references (Hot leg) Licensee to develop a new question Verified comments incorporated 4/17/06 (New question SAT)
31	H	3											Y	N	S	
32	F	2	X										N	N	U	K/A mismatch- stem wording needs to be something like "CORRECT response to the ARM alarms" Will change as recommended Verified comments incorporated 4/17/06 (New question SAT) Note: Question actually goes beyond K/A
33	H	2											Y	N	S	
34	H	3											Y	N	S	
35	H	3											Y (see note)	N	S	Note: K/A is matched since steam pressure would be affected by steam dump operation
36	F	2											Y	N	S	
37	H	2											Y	N	S	
38	H	2											Y	N	S	
39	H	3											Y	N	E	typo delete "when" ahead of on trip... in "A" Will change as recommended Verified comments incorporated 4/17/06

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws			5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A			SRO Only
40	H	3													<p>No correct answer as worded.</p> <p>add "DC bus loads are consistent with design bases" after "...AC Power is restored. Change at first to "after the first five minutes". During the first minute or so there will be a large DC load as MOVs cycle and UPS shift to DC supply. This would probably cause a noticeable voltage drop "at first". This would make "D" wrong. After this initial transient loading the DC loads should stabilize and "D" would be a correct answer.</p> <p>Note: Question used previously on an NRC exam. K/A satisfied since battery capacity is related to voltage.</p> <p>Will change as recommended</p> <p>Verified comments incorporated 4/17/06</p>
41	H	2													
42	H	3													<p>1BD1 "and" the regulated transformer... (not or)</p> <p>Will change as recommended</p> <p>Verified comments incorporated 4/17/06</p>
43	H	3													
44	H	3													<p>change "could have resulted" to "would result"</p> <p>Will change as recommended</p> <p>Verified comments incorporated 4/17/06</p>
45	F	3													<p>Note: K/A is satisfied since the fuel oil is needed to support operation of the Motor Driven AFW pumps (via the EDG)</p>
46	H	3													<p>add "...depressed "and released" to be consistent with wording in "C"</p> <p>Will change as recommended</p> <p>Verified comments incorporated 4/17/06</p>
47	H	3													<p>"A" does not appear plausible as worded (I wouldn't expect an operator to arbitrarily trip "any" pump). Can we provide some selectivity such as "non-standby pump" or "pump with lowest discharge pressure". Just make sure "A" remains an incorrect distractor.</p> <p>Will remove "any". The remainder of "A" is procedurally correct</p> <p>Verified comments incorporated 4/17/06</p>

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws				4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A			SRO Only
48	H	2										Y	N	E	Change "expected" to "designed" Will change as recommended Verified comments incorporated 4/17/06
49	H	2										Y	N	E	"C" implausible with no bus ground detection. Change "C" to ...one at a time "until alarms clear" Will change as recommended Verified comments incorporated 4/17/06
50	F	3										Y	N	E	typo "greater" than Will change as recommended Verified comments incorporated 4/17/06
51	F	3										Y	N	S	
52	H	2					X					Y	N	S	
53	F	3										Y	N	S	
54	H	2										Y	N	U	Appears to be two correct answers. According to 18021-C as long as the other train is "normal" not needed to trip reactor. Nothing in stem indicates there is a problem with "B" Train. This makes "A" also correct Licensee will rework this question to ensure one and only one correct answer. Verified comments incorporated 4/17/06 (New question SAT) Note: Procedure title deleted from distractors to maintain consistent length.
55	F	2										Y	N	S	
56	H	2										Y	N	S	
57	H	2										Y	N	S	
58	F	2										Y	N	S	
59	H	2										Y	N	S	
60	H	2										Y	N	S	
61	F	4										Y	N	S	
62	F	2										Y	N	S	
63	H	3										Y	N	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws				4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation			
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A			SRO Only		
64	F	1								X				Y	Y	E	This appears to be at the SRO level since it requires a knowledge of TS Bases. In addition this is a reverse-logic question usually reserved for SROs. (However, this had been used on a previous RO exam) Licensee to provide RO learning objective Verified comments incorporated 4/17/06
65	F	2												Y	N	S	
66	F	2												Y	N	S	
67	F	2												Y	N	S	
68	F	2												Y	N	S	
69	F	1-2												Y	N	S	
70	H	3												Y	N	S	Note: K/A match OK since LOP causes loss of cooling
71	H	2												Y	N	S	
72	H	3	X				X							Y	N	U	Would NOT be in "loss of secondary heat sink" without first tripping reactor in E-0. If reactor tripped, then none of the distractors are plausible Licensee to revise to ensure stem conditions support correct answer Verified comments incorporated 4/17/06
73	F	2												Y	N	S	
74	F	2												Y	N	S	Note: Part of K/A statement missing in question (Knowledge of the reasons...) However question satisfies entire K/A
75	H	3												Y	N	S	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws				4. Job Content Flaws			5. Other		7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	
Instructions												
Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]												
1.	Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.											
2.	Enter the level of difficulty (LOD) of each question using a 1 - 5 (easy - difficult) rating scale (questions in the 2 - 4 range are acceptable).											
3.	Check the appropriate box if a psychometric flaw is identified: . The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information). . The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc). . The answer choices are a collection of unrelated true/false statements. . One or more them one-distractors is not credible. . One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).											
4.	Check the appropriate box if a job content error is identified: . The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content). . The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory). . The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons). . The question requires reverse logic or application compared to the job requirements.											
5.	Check questions that are sampled for conformance with the approved K/A and those that are designated SRO-only (K/A and license level mismatches are unacceptable).											
6.	Based on the reviewer's judgment, is the question as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?											
7.	At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).											

Facility: <u>VOGTUE</u>		Date of Examination: <u>5/1/06</u>
Developed by: Written - Facility <input checked="" type="checkbox"/> NRC <input type="checkbox"/> // Operating - Facility <input type="checkbox"/> NRC <input type="checkbox"/>		
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	<i>ADH</i>
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	<i>ADH</i>
-120	3. Facility contact briefed on security and other requirements (C.2.c)	<i>ADH</i>
-120	4. Corporate notification letter sent (C.2.d)	<i>ADH</i>
[-90]	{5. Reference material due (C.1.e; C.3.c; Attachment 2)}	<i>ADH</i>
{-75}	6. Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's , ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)	<i>ADH</i>
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	<i>ADH</i>
{-45}	8. Proposed examinations (including written, walk-through JPMs , and scenarios , as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6 , and ES-401-6, and any Form ES-201-3 updates), and reference materials due (C.1.e, f, g and h; C.3.d)	<i>ADH</i>
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	<i>ADH</i>
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	<i>ADH</i>
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	<i>ADH</i>
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	<i>ADH</i>
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	<i>ADH</i>
-7	14. Final applications reviewed; 1 or 2 (if >10) applications audited to confirm qualifications / eligibility; and examination approval and waiver letters sent (C.2.i; Attachment 4; ES-202, C.2.e; ES-204)	<i>ADH</i>
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	<i>ADH</i>
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	<i>N/A</i>
<p>* Target dates are generally based on facility-prepared examinations and are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee. [Applies only] {Does not apply} to examinations prepared by the NRC.</p>		

Facility: <u>VOGTLE</u>		Date of Examination: <u>MAY 01, 2006</u>		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	INT/TH	R	SAJ
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	INT/TH	R	SAJ
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	INT/TH	R	SAJ
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	INT/TH	R	SAJ
2. S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	N/A	N/A	N/A
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and that scenarios will not be repeated on subsequent days.	↓	↓	↓
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.	↓	↓	↓
3. W / T	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form (3) no tasks are duplicated from the applicants' audit test(s) (4) the number of new or modified tasks meets or exceeds the minimums specified on the form (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.	N/A	N/A	N/A
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form (2) at least one task is new or significantly modified (3) no more than one task is repeated from the last two NRC licensing examinations	↓	↓	↓
	c. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	↓	↓	↓
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	INT/TH	R	SAJ
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	INT/TH	R	SAJ
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	INT/TH	R	SAJ
	d. Check for duplication and overlap among exam sections.	N/A	N/A	N/A
	e. Check the entire exam for balance of coverage.	INT/TH	R	SAJ
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	INT/TH	R	SAJ
a. Author <u>Thad N. Thompson</u> <u>Thad N. Thompson</u> Printed Name/Signature				Date
b. Facility Reviewer (*) <u>R. LEEMANSFIELD</u>				<u>4/17/06</u>
c. NRC Chief Examiner (#) <u>George J. Hopper</u>				<u>4/17/06</u>
d. NRC Supervisor <u>James H. Moorhead</u>				<u>4/26/06</u>
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 05-01-06 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 05-01-06. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. <u>Thad N. Thompson</u>	<u>Plant Training Instructor</u>	<u>Thad N. Thompson</u>	<u>12-9-05</u>	<u>Thad N. Thompson</u>	<u>5-1-06</u>
2. <u>R. LEE MANSFIELD</u>	<u>OPS TRAINING SUPERVISOR</u>	<u>R. Lee Mansfield</u>	<u>04/10/06</u>	<u>R. Lee Mansfield</u>	<u>5/1/06</u>
3. <u>Robert J. Brewin</u>	<u>TRAINING MANAGER</u>	<u>Robert J. Brewin</u>	<u>2-23-06</u>	<u>Robert J. Brewin</u>	<u>5/1/06</u>
4. <u>JANE M WHITTON</u>	<u>ADMIN ASSISTANT</u>	<u>Jane M Whitton</u>	<u>2-24-06</u>	<u>Jane M Whitton</u>	<u>5-1-06</u>
5. <u>MITCHELL YOUNG</u>	<u>SIMULATOR</u>	<u>Mitchell Young</u>	<u>3-10-06</u>	<u>Mitchell Young</u>	<u>5-2-06</u>
6. <u>GENE HENRY</u>	<u>TEL INSTE.</u>	<u>Gene Henry</u>	<u>3-27-06</u>	<u>Gene Henry</u>	<u>5-1-06</u>
7. <u>DAN SCUKANEC</u>	<u>SR. OPS INSTRUCTOR</u>	<u>Dan Scukanec</u>	<u>3-22-06</u>	<u>Dan Scukanec</u>	<u>5-1-06</u>
8. <u>JESSE THOMAS</u>	<u>OPERATION SHIFT SUPERVISOR</u>	<u>Jesse Thomas</u>	<u>4/19/06</u>	<u>Jesse Thomas</u>	<u>5/3/06</u>
9. <u>STERLING L. WHITMAN</u>	<u>NFO / RO</u>	<u>Sterling L. Whitman</u>	<u>4-19-06</u>	<u>Sterling L. Whitman</u>	<u>5-2-06</u>
10.					
11.					
12.					
13.					
14.					
15.					

NOTES:

Facility: Vogtle Electric Generating Plant		Date of Exam: 05/01/06		Exam Level: RO <input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/>		
Item Description	Initial					
	a	b*	c*			
1. Questions and answers are technically accurate and applicable to the facility.	<input checked="" type="checkbox"/>	df	scj			
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	<input checked="" type="checkbox"/>	df	scj			
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401 <i>per phone call 4/20</i>	<input checked="" type="checkbox"/>	df	scj			
4. The sampling process was random and systematic (If more than 4 RO or 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL program office).			df			
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	<input checked="" type="checkbox"/>	df	scj			
6. Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.	Bank	Modified	New	<input checked="" type="checkbox"/>	df	scj
	19 / 6	13 / 6	43 / 13			
7. Between 50 and 60 percent of the questions on the RO exam are written at the comprehension/ analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.	Memory	C/A		<input checked="" type="checkbox"/>	df	scj
	30 / 25 / 2	45 / 30 / 23				
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	<input checked="" type="checkbox"/>	df	scj			
9. Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the tier to which they are assigned; deviations are justified.	<input checked="" type="checkbox"/>	df	scj			
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	<input checked="" type="checkbox"/>	df	scj			
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with the value on the cover sheet.	<input checked="" type="checkbox"/>	df	scj			
a. Author b. Facility Reviewer (*) c. NRC Chief Examiner (#) d. NRC Regional Supervisor		Printed Name / Signature T. N. Thompson <i>[Signature]</i> D. Scukanec <i>[Signature]</i> G.T. Hopper <i>[Signature]</i> James H. Moody <i>[Signature]</i>			Date 3-28-06 3-28-06 4-25-06 4-26-06	
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.						

Vogtite Retake Written Examination May 01
 SRO Exam received February 27, 2006
 Revised SRO exam received March 0, 2006
 Review by Gilbert A. Johnson

Written Examination Review Worksheet

NOTE 1: LOK based on my assessment. Did not consider licensee's evaluation
NOTE 2: I rated "U" if not SRO-only (must address 55.43 verbatim) OR if comments are required to be implemented to ensure one and only one correct answer. I rated "E" if comments resolution will just correct a typo or make a SAT question better. Did NOT rate "U" if only one bad distractor. Your discretion on how you communicate to licensee.
Note 3: I would recommend 2 column format for all questions having a two-part question/answer (like #2), however (with one notable exception; #21) I will defer to licensee's format if this is what the licensees are used to.
Response to Note #3: The licensee declined to use the 2 column format for several justifiable reasons. I have no technical issue with the format used by the licensee (GAJ).

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws				4. Job Content Flaws			5. Other		6. U/E/S	7. Explanation		
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward			Q=K/A	SRO Only
1	H	2													
2	H	3	X			X						Y	S	E	Modify stem "...a complete loss..." "In accordance with TS Bases, which one of the following..." Are there any 5 minute TS actions? If not then "B" and "D" implausible. Changes made as recommended. Confirmed there are TS actions in 5 minutes. Revised question is SAT
3	H	3		X		X						Y	S	E	"A" seems implausible for an SRO considering ATWT is described in stem Delete "and the RO tripped the reactor manually and forgot to inform them during the subsequent plant recovery" This phrase provides too many cues. Changes made as recommended. Distractor "A" replaced with a plausible distractor. Revised question is SAT

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws			5. Other		6. U/E/S	7. Explanation		
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A			SRO Only	
4	H	3											Y	S	E	Change "a level transmitter" to "one level transmitter". Assuming one or more RCPs lose CCW cooling from the described event, then "B" and "C" not plausible. Priority would NOT be on fuel pool. Change made as recommended. Confirmed RCPs would NOT trip under stem conditions. Revised question is SAT
5	H	3	X			X							Y	S	E	Stem should specify "NO RCPs running" unless this is clearly understood by specifying "RVLIS full range" "A" seems implausible for an SRO considering CETs rising following LOCA. Need to see "other" procedures that assume subcooling reduction in tables.. Also "A" is more like "none of the above". Changes made as recommended. Distractor "A" replaced with a plausible one. Revised question is SAT. Completed technical review of other procedures.
6	H	2											Y	S	S	
7	H	2					X						Y	N	E	Not SRO only as written. Add "procedurally directed" to stem to ensure "selection of appropriate procedures...". This was not evaluated as U since it was a Bank question from a previously approved NRC exam. "Procedurally directed" was added to stem. SRO only satisfied. Revised question is SAT
8	H	2				X							Y	S	E	"D" not plausible for an SRO. Some decay heat removal would be required sometime Distractor "D" replaced with a plausible distractor. Revised question is SAT
9	H	3											Y	S	E	Provide reference (or confirm) that main steam code safety = 6% power. Completed technical review of supplied references; SAT
10	H	3											Y	S	S*	* Assuming 2NAA and 2NAB results in loss of RCS flow Confirmed loss of RCS flow on stem conditions
11	H	2	X										Y	S	E	change "and the Tech Spec Bases" to "Additionally, specify the Tech Spec Bases for the LCO entry" Change made as recommended. Revised question is SAT

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws			5. Other		6. U/E/S	7. Explanation		
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A			SRO Only	
12	H	2	X										Y	S	U	Stem not complete as written. Need to add "All parameters of Battery Charger 1AD1CB are normal" after ...is tripped and faulted. Changes made as recommended. Revised question is SAT
13	H	3								X			Y	N	U	Not SRO only. No "selection of appropriate procedures..." This is more of a RO systems question. Selection of procedures added to answer/distractors. Revised question is SAT. Technically reviewed against 18028-C.
14	H	2											Y	S	S	
15	H	2								X			Y	N	U	Not SRO only. No "selection of appropriate procedures..." This is more of a RO systems question. Selection of procedures added to answer/distractors. Revised question is SAT. Stem bullet #2 removed to ensure no connection with Q#13.
16	H	2											Y	S	S	
17	H	2	X										Y	S	U	Need to add time frames to make only one answer correct. After ...plant conditions add "have existed for 12 hours while at 100 % power" After CORRECT change to "if the above conditions remain for an additional 12 hours." Changes made as recommended. Revised question is SAT
18	H	3											Y	S	S	
19	H	3						X					Y	S	E	"A" would be correct if a 50.59 "screen" is part of the normal process for developing a temporary change. That is, if the system engineer determined the evolution is NOT described in UFSAR by a "screen" then all that would have to be done would be "A" Entire question replaced with a Bank question from 2002 exam. Replacement question is SAT.
20	F	2					X						Y	S	E	"D" appears implausible considering 10CFR20.1206. Recommend 30 REM unless there is some procedural limit of 75 REM for another condition. "D" changed to 30 REM. Revised question is SAT

Facility: Vogtle		Date of Exam: 05/01/06		Exam Level: RO <input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	TNT	df	C		
2. Answer key changes and question deletions justified and documented	N/A	N/A	N/A		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	TNT	df	C		
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	TNT	df	C		
5. All other failing examinations checked to ensure that grades are justified	N/A	N/A	N/A		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	TNT	df	C		
		Printed Name/Signature	Date		
a. Grader	T. N. Thompson / <u>Thad N. Thompson</u>		<u>5-3-06</u>		
b. Facility Reviewer(*)	D. Scukanec / <u>D. Scukanec</u>		<u>5-3-06</u>		
c. NRC Chief Examiner (*)	G. Hopper / <u>G. Hopper</u>		<u>5-8-06</u>		
d. NRC Supervisor (*)	J.H. Moorman, III / <u>J.H. Moorman</u>		<u>5-8-06</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Post-Examination Check Sheet	
Facility: <i>VOGTLE</i>	Date of Examination: <i>5/1/06</i>
Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	<i>5/4/06</i>
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	<i>5/5/06</i>
3. Operating tests graded by NRC examiners	<i>N/A</i>
4. NRC chief examiner review of operating test and written exam grading completed	<i>5/8/06</i>
5. Responsible supervisor review completed	<i>5/9/06</i>
6. Management (licensing official) review completed	<i>5/9/06</i>
7. License and denial letters mailed	<i>5/8/06</i>
8. Facility notified of results	<i>5/10/06</i>
9. Examination report issued (refer to NRC MC 0612)	<i>5/10/06</i>
10. Reference material returned after final resolution of any appeals	<i>N/A</i>

Southern Nuclear
Operating Company, Inc.
Vogtle Electric Generating Plant
7821 River Road
Waynesboro, Georgia 30830
Tel: 706.724.1562 or 706.554.9961



February 24, 2006

NOT-04046

Docket Nos. 50-424
50-425

U. S. Nuclear Regulatory Commission, Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street S. W. - Suite 23T85
Atlanta, Georgia 30303-8931

ATTN: Mr. J. H. Moorman, III

VOGTLE ELECTRIC GENERATING PLANT
SITE SPECIFIC SENIOR REACTOR OPERATOR WRITTEN EXAMINATION

Dear Mr. Moorman:

Attached please find the site specific 25 question portion of the senior reactor operator written examination to be administered on May 1, 2006. This examination is submitted in accordance with NUREG-1021 Revision 9, ES-201 and ES-401. The examination materials contained in the attached envelope must be withheld from public disclosure until after the examination is completed.

Please contact Lee Mansfield at 706-826-3936 with questions.

Sincerely,

A handwritten signature in black ink that reads "T. E. Tynan".

T.E. Tynan
General Manager Nuclear Plant

 2 RLM/RJB/TET/jmw

Attachment

xc w/ attachment: Mr. Gil Johnson
w/o attachment: Mr. R. J. Brown

**Southern Nuclear
Operating Company, Inc.**
Vogtle Electric Generating Plant
7821 River Road
Waynesboro, Georgia 30830
Tel 706.724.1562 or 706.554.9961



March 29, 2006

NOT-04053

Docket Nos. 50-424
50-425

U. S. Nuclear Regulatory Commission, Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street S. W. - Suite 23T85
Atlanta, Georgia 30303-8931

ATTN: Mr. J. H. Moorman, III

VOGTLE ELECTRIC GENERATING PLANT
SITE SPECIFIC REACTOR OPERATOR WRITTEN EXAMINATION

Dear Mr. Moorman:

Attached please find the site specific 75 question portion of the reactor operator written examination to be administered on May 1, 2006. This examination is submitted in accordance with NUREG-1021 Revision 9, ES-201 and ES-401. The examination materials contained in the attached envelope must be withheld from public disclosure until after the examination is completed.

Please contact Lee Mansfield at 706-826-3936 with questions.

Sincerely,

A handwritten signature in cursive script that reads "T.E. Tynan".

T.E. Tynan
General Manager Nuclear Plant

RJB pt
RLM/RJB/TET/jmw

Attachment

xc w/ attachment: Mr. Gil Johnson
w/o attachment: Mr. R. J. Brown