

- FINAL -

Facility: VOGTLE		Date of Examination: 7/30 - 8/17/07		
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.			/
	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.		N/A	*
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.			
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.			
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.	TNT	R	GL
	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.	TNT	R	GL
	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.	TNT	R	GL
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.	TNT	R	GL
	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	TNT	R	GL
	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.	TNT	R	GL
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.	TNT	R	GL
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	TNT	R	GL
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	TNT	R	GL
	d. Check for duplication and overlap among exam sections.	TNT	R	GL
	e. Check the entire exam for balance of coverage.	TNT	R	GL
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	TNT	R	GL
a. Author	<u>Thad N. Thompson</u> Printed Name/Signature	TNT		Date 7-23-07
b. Facility Reviewer (*)	<u>R. Lee Mansfield</u>			7/23/07
c. NRC Chief Examiner (#)	<u>Edmund Lee, Jr.</u>			7/26/07
d. NRC Supervisor	<u>Robert HAAG</u>			7/26/07
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

* SUBMITTED SEPARATELY

- FINAL -

Facility: VOGTLE		Date of Examination: 7/30-8/17/07		
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.	<input checked="" type="checkbox"/>	R	GL
	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.	<input checked="" type="checkbox"/>	R	GL
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	<input checked="" type="checkbox"/>	R	GL
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	<input checked="" type="checkbox"/>	N/A	N/A
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.	<input checked="" type="checkbox"/>	*	X
	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.	<input checked="" type="checkbox"/>	*	X
	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.	<input checked="" type="checkbox"/>	*	X
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.	<input checked="" type="checkbox"/>	*	X
	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	<input checked="" type="checkbox"/>	*	X
	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.	<input checked="" type="checkbox"/>	*	X
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.	<input checked="" type="checkbox"/>	R	GL
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	<input checked="" type="checkbox"/>	R	GL
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	<input checked="" type="checkbox"/>	R	GL
	d. Check for duplication and overlap among exam sections.	<input checked="" type="checkbox"/>	R	GL
	e. Check the entire exam for balance of coverage.	<input checked="" type="checkbox"/>	R	GL
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	<input checked="" type="checkbox"/>	R	GL
a. Author	<u>Thad N. Thompson</u> <input checked="" type="checkbox"/>	Date	<u>7-25-07</u>	
b. Facility Reviewer (*)	<u>R. LEE MANSFIELD</u> <input checked="" type="checkbox"/>		<u>7/25/07</u>	
c. NRC Chief Examiner (#)	<u>Edwin Lee Sr / Robert Lee, Jr.</u>		<u>8/10/07</u>	
d. NRC Supervisor	<u>Robert HAAC / Robert Aron</u>		<u>8/14/07</u>	
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

* ES-201-2 FOR THE OPERATING TEST WAS COMPLETED AND DELIVERED SEPARATELY.

X Reviewed under ES-201-2 for Operating Test. & L

Facility: Vogtle	Date of Examination: 7/30 - 8/15	
Examination Prepared By (Circle):	Facility	NRC
Written / Operating Test		

Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	<i>EL</i>
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	<i>EL</i>
-120	3. Facility contact briefed on security and other requirements (C.2.c)	<i>EL</i>
-120	4. Corporate notification letter sent (C.2.d)	<i>EL</i>
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	<i>EL</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>EL</i>
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	<i>EL</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 reference materials due (C.1.e, f, g and h; C.3.d)	<i>EL</i>
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	<i>EL</i>
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	<i>EL</i>
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	<i>EL</i>
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	<i>EL</i>
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	<i>EL</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>EL</i>
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	<i>EL</i>
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	<i>EL</i>

* 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.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 7-30 to 8-17 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 7/30-8/17/07 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. Thad N. Thompson	Training Instructor / NRC Exam Developer	<i>Thad N. Thompson</i> [NRC]	4-4-07	<i>Thad N. Thompson</i> [NRC]	8-15-07
2. R. LEE MANSFIELD	NUC OPS TRAINING SUPV	<i>R. Lee Mansfield</i>	4-4-07	<i>R. Lee Mansfield</i>	8/15/07
3. MALVIN A. GIBSON	Simulator Coordination	<i>Malvin A. Gibson</i>	5-14-07	<i>Malvin A. Gibson</i>	8/15/07
4. Robert J. Brown	TRAINING MGR / Exam Review	<i>Robert J. Brown</i>	5/31/07	<i>Robert J. Brown</i>	8/15/07
5. DANIEL SCUKANIS	SR. INSTR. - AUDIT EXAM	<i>Daniel Scukanis</i>	7-10-07	<i>Daniel Scukanis</i>	8-15-07
6. Phil White	TRAINING INST. / EXAM REV.	<i>Phil White</i>	7-16-07	<i>Phil White</i>	8-16-07
7. John Acree	Operation Training Supv (Ops)	<i>John Acree</i>	7/16/07	<i>John Acree</i>	8/16/07
8. Kerth Quick	NPO	<i>Kerth Quick</i>	7-21-07	<i>Kerth Quick</i>	8-20-07
9. STEVE WALDRUP	OPS SUPPORT SUPT. / OPS OBSERVER	<i>Steve Waldrup</i>	7/27/07	<i>Steve Waldrup</i>	8/16/07
10. EDWARD J. KOZINSKY	INSTRUCTOR	<i>Edward J. Kozinsky</i>	7/27/07	<i>Edward J. Kozinsky</i>	8/15/2007
11. M.C. McDaniel	Admin. Asst.	<i>M.C. McDaniel</i>	7/27/07	<i>M.C. McDaniel</i>	8/15/07
12. R. STEVEN WHITE	TRAINING INSTRUCTOR	<i>R. Steven White</i>	7-27-07	<i>R. Steven White</i>	8/15/07
13. GREG WAINWRIGHT	TRAINING INSTRUCTOR	<i>Greg Wainwright</i>	7/30/07	<i>Greg Wainwright</i>	8/15/07
14. David Vinyard	Operations Manager	<i>David Vinyard</i>	7/31/07	<i>David Vinyard</i>	8/21/07
15.					

NOTES:

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Facility: VOGTLE		Date of Examination: 7/30/07 8/10/07		Operating Test Number: 1	
1. General Criteria			Initials		
			a	b*	c#
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).		R	bl	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.		R	bl	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)		R	bl	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.		R	bl	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.		R	bl	
2. Walk-Through Criteria			--	--	--
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> • initial conditions • initiating cues • references and tools, including associated procedures • reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee • operationally important specific performance criteria that include: <ul style="list-style-type: none"> - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable 		R	bl	
b.	Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.		R	bl	
3. Simulator Criteria			--	--	--
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.			R	bl	
	Printed Name / Signature		Date		
a.	Author	<u>Thad N. Thompson</u> / <u>Thad N. Thompson</u>	<u>7-23-07</u>		
b.	Facility Reviewer(*)	<u>R. LEE MANSFIELD</u> / <u>[Signature]</u>	<u>7/23/07</u>		
c.	NRC Chief Examiner (#)	<u>Edwin Lee, Jr.</u> / <u>[Signature]</u>	<u>7/26/2007</u>		
d.	NRC Supervisor	<u>Robert HAAG</u> / <u>[Signature]</u>	<u>7/26/07</u>		
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.					

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Facility: VOGTLE		Date of Exam: 7/30/07 - 8/10/07		Scenario Numbers: 1 / 2 / 3		Operating Test No.: 1	
QUALITATIVE ATTRIBUTES			Initials				
			a	b*	c#		
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	<input checked="" type="checkbox"/>	R	62			
2.	The scenarios consist mostly of related events.	<input checked="" type="checkbox"/>	R	62			
3.	Each event description consists of <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 	<input checked="" type="checkbox"/>	R	62			
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.	<input checked="" type="checkbox"/>	R	62			
5.	The events are valid with regard to physics and thermodynamics.	<input checked="" type="checkbox"/>	R	62			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<input checked="" type="checkbox"/>	R	62			
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.	<input checked="" type="checkbox"/>	R	62			
8.	The simulator modeling is not altered.	<input checked="" type="checkbox"/>	R	62			
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the referenced plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	<input checked="" type="checkbox"/>	R	62			
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.	<input checked="" type="checkbox"/>	R	62			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	<input checked="" type="checkbox"/>	R	62			
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	<input checked="" type="checkbox"/>	R	62			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<input checked="" type="checkbox"/>	R	62			
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes		--	--	--	
1.	Total malfunctions (5-8)	7	7	7	<input checked="" type="checkbox"/>	R 62	
2.	Malfunctions after EOP entry (1-2)	2	1	1	<input checked="" type="checkbox"/>	R 62	
3.	Abnormal events (2-4)	5	5	5	<input checked="" type="checkbox"/>	R 62	
4.	Major transients (1-2)	1	2	1	<input checked="" type="checkbox"/>	R 62	
5.	EOPs entered/requiring substantive actions (1-2)	2	2	2	<input checked="" type="checkbox"/>	R 62	
6.	EOP contingencies requiring substantive actions (0-2)	1	1	0	<input checked="" type="checkbox"/>	R 62	
7.	Critical tasks (2-3)	3	3	3	<input checked="" type="checkbox"/>	R 62	

SCENARIOS 1 2 3

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Facility: VOGTCE		Date of Exam: 7/30/07 - 8/10/07		Scenario Numbers: 4/5/6		Operating Test No.: 1	
QUALITATIVE ATTRIBUTES			Initials				
			a	b*	c#		
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	<input checked="" type="checkbox"/>	R	62			
2.	The scenarios consist mostly of related events.	<input checked="" type="checkbox"/>	R	68			
3.	Each event description consists of <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 	<input checked="" type="checkbox"/>	R	62			
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.	<input checked="" type="checkbox"/>	R	62			
5.	The events are valid with regard to physics and thermodynamics.	<input checked="" type="checkbox"/>	R	62			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<input checked="" type="checkbox"/>	R	62			
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.	<input checked="" type="checkbox"/>	R	62			
8.	The simulator modeling is not altered.	<input checked="" type="checkbox"/>	R	62			
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the referenced plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	<input checked="" type="checkbox"/>	R	62			
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.	<input checked="" type="checkbox"/>	R	62			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	<input checked="" type="checkbox"/>	R	62			
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	<input checked="" type="checkbox"/>	R	62			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<input checked="" type="checkbox"/>	R	62			
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes					
1.	Total malfunctions (5-8)	8	6	5			
2.	Malfunctions after EOP entry (1-2)	2	2	1			
3.	Abnormal events (2-4)	4	4	4			
4.	Major transients (1-2)	2	1	1			
5.	EOPs entered/requiring substantive actions (1-2)	2	2	2			
6.	EOP contingencies requiring substantive actions (0-2)	0	0	0			
7.	Critical tasks (2-3)	2	3	2			

SCENARIO 4 5 6s

Facility: VOGTLE		Date of Exam: 7/30/07 - 8/10/07 Operating Test No.: (
A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	M I N I M U M(*)			
		1			2			3			4				R	I	U	
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N							
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P					
<input checked="" type="checkbox"/> RO	RX				5	5		5	5		5	5			1	1	0	
<input checked="" type="checkbox"/> SRO-I	NOR		5							2					1	1	1	
<input type="checkbox"/> SRO-U	I/C		3,4,6	1,2,6	1,3,4	2,3		1,3,4	1,6,7		1,2,4	3,8			4	4	2	
<input type="checkbox"/> SRO-U	MAJ		7	7	6	6		8	8		7	7			2	2	1	
<input type="checkbox"/> SRO-U	TS														0	2	2	
<input type="checkbox"/> RO	RX				5	5	5	5	5	5	5	5	5			1	1	0
<input type="checkbox"/> SRO-I	NOR	5	5												1	1	1	
<input type="checkbox"/> SRO-U	I/C	1,2,3,4,6	3,4,6	1,2,6	1,2,3,4	1,2,3	2,3	1,2,3,4,6,7	1,2,3,4,7	1,6,7	1,2,3,4	1,2,4	3,8			4	4	2
<input type="checkbox"/> SRO-U	MAJ	7	7	7	6	6	6	8	8	8	7	7	7			2	2	1
<input type="checkbox"/> SRO-U	TS	1,2,3,4			1,2,4			1,3			1,2					0	2	2
<input type="checkbox"/> RO	RX														1	1	0	
<input type="checkbox"/> SRO-I	NOR														1	1	1	
<input type="checkbox"/> SRO-U	I/C														4	4	2	
<input type="checkbox"/> SRO-U	MAJ														2	2	1	
<input type="checkbox"/> SRO-U	TS														0	2	2	
<input type="checkbox"/> RO	RX														1	1	0	
<input type="checkbox"/> SRO-I	NOR														1	1	1	
<input type="checkbox"/> SRO-U	I/C														4	4	2	
<input type="checkbox"/> SRO-U	MAJ														2	2	1	
<input type="checkbox"/> SRO-U	TS														0	2	2	

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

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ES-301

Transient and Event Checklist

Form ES-301-5

Facility: <u>VOGTLE</u>		Date of Exam: <u>7/30-8/10/07</u>		Operating Test No.: <u>1</u>													
A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	M I N I M U M (*)		
		<u>2</u> 1 <u>5</u>			<u>2</u> 1 <u>6</u>			3			4				R	I	U
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P				
<input checked="" type="checkbox"/> RO	RX		5	5		4								5	1	1	0
<input checked="" type="checkbox"/> SRO-I	NOR			1		1	1							4	1	1	1
<input type="checkbox"/> SRO-U	I/C		2,3,4	2,3,4		2,6	3,5							27	4	4	2
<input type="checkbox"/> SRO-U	MAJ		6	6		7	7							6	2	2	1
<input type="checkbox"/> SRO-U	TS													0	0	2	2
<input type="checkbox"/> RO	RX	5	5	5	4	4								5	1	1	0
<input type="checkbox"/> SRO-I	NOR			1	1	1	1							3	1	1	1
<input checked="" type="checkbox"/> SRO-I	I/C	2,3,4,7	2,3,7	2,3,4	2,3,5,6	2,6	3,5							28	4	4	2
<input checked="" type="checkbox"/> SRO-U	MAJ	6	6	6	7	7	7							6	2	2	1
<input type="checkbox"/> SRO-U	TS	1,2,3			2,3,5									17	0	2	2
<input type="checkbox"/> RO	RX														1	1	0
<input type="checkbox"/> SRO-I	NOR														1	1	1
<input type="checkbox"/> SRO-U	I/C														4	4	2
<input type="checkbox"/> SRO-U	MAJ														2	2	1
<input type="checkbox"/> SRO-U	TS														0	2	2
<input type="checkbox"/> RO	RX														1	1	0
<input type="checkbox"/> SRO-I	NOR														1	1	1
<input type="checkbox"/> SRO-U	I/C														4	4	2
<input type="checkbox"/> SRO-U	MAJ														2	2	1
<input type="checkbox"/> SRO-U	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility: VOGTLE		Date of Examination: 7/30/07 - 8/10/07												Operating Test No.: 1			
Competencies	APPLICANTS																
	RO <input checked="" type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>				
	SRO-I <input type="checkbox"/>				SRO-I <input checked="" type="checkbox"/>				SRO-I <input type="checkbox"/>				SRO-I <input type="checkbox"/>				
	SRO-U <input type="checkbox"/>				SRO-U <input type="checkbox"/>				SRO-U <input checked="" type="checkbox"/>				SRO-U <input type="checkbox"/>				
SCENARIO				SCENARIO				SCENARIO				SCENARIO					
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Interpret/Diagnose Events and Conditions	1,2 3,4 6,7	1,2 3,4 5,6	1,3 4,5 7,8	1,2 3,4 5,6 7,8	1,2 3,4 6,7	1,2 3,4 5,6	1,3 4,5 7,8	1,2 3,4 5,6 7,8	1,2 3,4 6,7	1,2 3,4 5,6	1,3 4,6 7,8	1,2 3,4 5,6 7,8					
Comply With and Use Procedures (1)	1,2 3,4 5,6 7	1,2 3,4 5,6	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 6,7	1,2 3,4 5,6	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6	1,3 4,5 6,7 8	1,2 3,4 5,6 7,8					
Operate Control Boards (2)	1,2 3,4 5,6 7	1,2 3,4 5,6	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,3 4,5 6,7	1,2 3,4 5,6	1,2 3,4 5,7 8	1,2 3,4 6,7	N/A	N/A	N/A	N/A					
Communicate and Interact	1,2 3,4 5,6 7	1,2 3,4 5,6	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6	1,2 3,4 5,6	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8					
Demonstrate Supervisory Ability (3)	N/A	N/A	N/A	N/A	1,2 3,4 5,6 7	1,2 3,4 5,6	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6	1,2 3,4 7,8	1,2 3,4 5,6 7,8					
Comply With and Use Tech. Specs. (3)	N/A	N/A	N/A	N/A	1,2 3	1,2 4,5	1,3	1,2	1,2 3	1,2 4,5	1,3	1,2					
Notes:																	
(1) Includes Technical Specification compliance for an RO.																	
(2) Optional for an SRO-U.																	
(3) Only applicable to SROs.																	

Instructions:

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Facility: VOGTUE	Date of Exam: WEEK OF 8/13/07	Exam Level: RO <input 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.	[TNT] R		EL
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	[TNT] R		EL
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	[TNT] R		EL
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).		R	EL
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: ___ the audit exam was systematically and randomly developed; or ___ the audit exam was completed before the license exam was started; or ___ the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or ___ other (explain)	[TNT] R		EL
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
	35 / 6	16 / 8	24 / 11
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	
	32 / 10	43 / 15	
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	[TNT] R		EL
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.	[TNT] R		EL
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	[TNT] R		EL
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.	[TNT] R		EL
Printed Name / Signature			
a. Author	<u>Thad N. Thompson / Thad N. Thompson</u>		Date 7-25-07
b. Facility Reviewer (*)	<u>R. LEE MANSFIELD / R. Lee Mansfield</u>		7/25/07
c. NRC Chief Examiner (#)	<u>Richard Lee, Jr. / Richard Lee, Jr.</u>		8/10/07
d. NRC Regional Supervisor	<u>Robert HAAG / Robert Haag</u>		8/14/07
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.			

Facility: Vogtle		Date of Exam: 8/15/2007		Exam Level: RO/SRO	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	OK	N/A	EL		
2. Answer key changes and question deletions justified and documented	OK		EL		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	OK		EL		
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	OK		EL		
5. All other failing examinations checked to ensure that grades are justified	OK		EL		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	OK	✓	EL		
Printed Name/Signature		Date			
a. Grader	<u>Craig Kontz</u> 	<u>9/5/07</u>			
b. Facility Reviewer(*)	<u>N/A</u>				
c. NRC Chief Examiner (*)	<u>Edwin Lee, Jr. / Edwin Lee Jr.</u>	<u>9/6/2007</u>			
d. NRC Supervisor (*)	<u>Robert HAAG / Robert Haag</u>	<u>9/7/07</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

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			
<p>Instructions [Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]</p> <p>1. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.</p> <p>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).</p> <p>3. Check the appropriate box if a psychometric flaw is identified:</p> <ul style="list-style-type: none"> • 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. • The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable. • One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem). <p>4. Check the appropriate box if a job content error is identified:</p> <ul style="list-style-type: none"> • 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. <p>5. <u>Check questions that are sampled</u> for conformance with the approved K/A and those that are <i>designated SRO-only</i> (K/A and license level mismatches are unacceptable).</p> <p>6. Based on the reviewer's judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?</p> <p>7. At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).</p>																
1	H		X			X									U	Question written appears to be more systems related and RO level. In assuming procedure actions have been taken - identify the procedure. What alarm would be in as a result of this event? How can distractor A be plausible? Why would one expect the reactor to trip because we are at a point to take/ record data. You stated that the question matched your objective - it does not. If the question was written to match the objective, then it would match the K/A and also be written to an SRO level. (EXPLAINED CONCERN FOR "A" . EXCEPTED QUESTION) (OK)

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			
2	H	2	X			X									U	Stem is weak. For the conditions given, why would anyone expect containment pressure to remain stable? If containment pressure rises over time, what time (s) are we looking at? Would it be increasing slowly? Based on the information provided can the applicant make this call? Could the applicant say stable and increasing slowly? This makes distractors A & C not plausible. Why would the operator be expected to immediately transfer as you indicated in two distractors. (CHANGED THE STEM) (OK)
3	H	1	X			X									E	Based on the information given in the stem (1NAAs capable of being energized) it appears that the others distractors are not plausible. Since this is an auto transfer, any operator should or would want to re-energize any bus available to them. (OK)
4	H	2													S	(OK)
5	H	3													S	(OK)
6	H											X			U	Please explain how this K/A is a match . I do not see the modified question. (CHANGED INFORMATION IN STEM — K/A MATCH))
7	F	1												X	?/	Seems like an RO question. I do not see the bank question. (OK)

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		
8	F	1	X										X	U	This appears to be a system/RO question. Questions talks about system but not about procedure requirements/operation/SRO decision making. Stem can be reworded to address the issues. (WROTE NEW QUESTION) (OK)
9	H	1				X								U/E	D will always be correct for a scenario where there are procedure guidance and the crew/operator has not gotten there yet. As long as the operators are following procedures, with no transitions required D will all be correct. Should consider rewording stem/distractors. You told the operator in the stem that this action will be performed later..... (CHANGED STEM) (OK).
10	F	1												S	(OK) THEY WANTED TO CHANGE BUT I DID NOT AGREE
11	H		X											E	Missing word in stem. I would think other alarms would be in. Need to see more information on system operation and response to various conditions. (SAID VARIOUS ALARMS - CORRECTED WORD IN THE STEM) (OK)
12	F		X			X							X	U	Question not written at SRO level. Distractor A is not plausible – “close and lock the doors” Extra words in distractor D. Distractor D could also be correct. (REWORDED THE STEM AND DISTRACTORS).
13	F													S	(OK)
14	F													S	(OK)
15	H	2												S	(OK)
16	H	2												S	(OK)
17	H	1			X									U	This is a true/false question (REWORDED STEM AND DISTRACTORS) (OK)
18	F	1													(OK)
19	F	1				X								E	Distractor D is not plausible. (OS)
20														?	This is a retake exam question from 2006 (QUESTION IS MODIFIED) (OK)

Q#	1. LOK (C/A)	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			
<p>Instructions</p> <p>[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]</p> <p>1. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.</p> <p>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).</p> <p>3. Check the appropriate box if a psychometric flaw is identified:</p> <ul style="list-style-type: none"> - 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 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). <p>4. Check the appropriate box if a job content error is identified:</p> <ul style="list-style-type: none"> - 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. <p>5. <u>Check questions that are sampled</u> for conformance with the approved K/A and those that are <u>designated SRO-only</u> (K/A and license level mismatches are unacceptable).</p> <p>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?</p> <p>7. At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).</p>																
1	H	2					X								E	No discussion was made on when the ARVs <i>would</i> open. Why are ARVs controlling tave plausible in distractor A and B? — PROVIDED JUSTIFICATION INDICATING THAT A & B WERE PLAUSIBLE. MADE A CHANGE TO THE STEM. (OK)
2	F	2				X									U	The second sentence in A, B, C makes no sense. It looks like th author had 2 trains of thought going. This Q is unsat because 3 choices are affected. – CHANGED THE STEM AND ADDED WORDS TO THE DISTRACTORS (OK)
3	H	2	X						X						E	Define immediately in the notes or feedback section in the event this is challenged because several minutes later the opposite occurs. — CHANGED THE STEM AND THE DISTRACTORS (OK)
4	H	2	X						X						E	Indent bullets Change Stem: Which one of the following is correct if NO operator action is taken? Distractor B: an (s) missing on shift. – CHANGED THE STEM (OK)

Q#	1. LOK (C/A)	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		
5	F	2				X									U No HU rate is not plausible. Change distractors A and C to reflect a 50 F per hour max HU rate. This Q is rated unsat due to 2 non plausible distractors. (REWORDED THE STEM AND THE DISTRACTORS) (OK)
6	M?	2	X						X						E Indent bullets Stem: Change to "...loop suction valve power supplies" It is not clear what the correct answer is given the attached ref material. Fac please explain. I think this is a "H" question. (IT WAS OK, NO NEED TO CHANGE THE WORDING JUST BECAUSE I WANTED TOO)
7	H	3													S (OK)
8	F	2										X			U This Q does not revolve around a loss or malfunction of HPI/LPI. It discusses minimum requirements only. Rewrite Q to meet KA. (REWROTE QUESTION) (OK)
9	F	2	X						X						E To many unnecessary words in the stem. Restate: Which one of the following is the correct description for the 8 hour cooldown method of the PRT as stated in SOP-13004-1/2, PRT Operation? (REWORDED STEM AND DISTRACTORS) (OK)
10	F	2					X								E Distractor C is not plausible. Replace "C" (CHANGED DISTRACTOR C) (OK)
11	F	2	X						X						E State the current time in the stem to be 0130. 18022-C states "loss of ACCW greater than 10 minutes - stop RCPs. Remove "no later than 0125" This is NOT needed anymore. (MADE CHANGES) (OK)
12	F	2													S (Ok)
13	H	3													S (OK)
14	H	2	X						X						E Reference a procedure in the stem... (OK)
15	H	2							X						E This is a memory question on basic power supplies. Change "C" to "M. (LEAVE AS C)

Q#	1. LOK (C/A)	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			
16	H	2	X				X		X						E	Remove the first bullet (-) Indent all other bullets. Put a space before the "Which one" statement. "A" Change "due to" to "since" The note on page 12 of 53, 17006-1 states requires 2/3 channels but setpoint at the op say 1/3. Does this make "C" a potentially correct answer? CAF (CHANGED WORDS TO CREW BRIEFING) (OK)
17	F	2													S	(BOLD WORDS IN THE STEM) (OK)
18	H	2							X						E	If "B" was correct, "A" would be also. Need an "only" in "A." — (MADE CHANGE) (OK)
19	H	3				X									U	The statement "The ROD DEV annunciator does not alarm" is a non action statement and is moot. It further implies that neither "C" or "D" is the correct answer. Delete this statement from "C" and "D" and add the word "only" at the beginning. This Q is rated as unsat because of 2 nonplausible distractors. (WILL ADD REFERENCE - NO NEED TO MAKE ANY CHANGES) (OK)
20	F	2	X												E	The first 4 bullets are not required to answer the question. Furthermore, this question does not meet the KA which is RCP malfunction. (ADDED BULLETS TO HELP MEET THE K/A) (OK)
21	H	3				X									U	Indent bullets The "NOT" words in the distractors make then nonplausible. In "B" and "C" use the word "only" and in "D" use the word "neither and nor." (MADE CHANGES TO BOTH THE STEM AND THE DISTRACTORS) (OK) MAY TAKE ANOTHER LOOK AT IT LATER)
22	H	2							X						E	The first 2 bullets are not necessary to answer the question. Delete them. Format: Which one of the following is the correct indication representation if 5 core exit TC's are failed? (MADE CHANGES) (OK)
23	F	2	X									X			E	Indent bullets Second part of KA not met. A procedure choice needs to be included. — (SECOND PART OF THE K/A IS MET FIRST PART NOT DIRECTLY MET) (OK)
24	H	2	X												E	Indent bullets – (CHANGES MADE) (OK)
25	H	2	X												E	Look at the words in the stem: "Which ONE" .. Indent bullets..... – (REWORDED THE STEM) (OK) (7/27/2007 ADDED INFORMATION TO STEM) (OK)

Q#	1. LOK (C/A)	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			
26	F	2													S	(CHANGED DISTRACTOR "A") (OK)
27	H	2	X												E	Indent bullets – (OK)
28	F	2	X						X						E	Indent bullets Stem: Which one of the following actions is correct per 18001, Primary instrumentation malfunction. (MADE CHANGES)
29	H	2	X						X						E	Indent bullets Typo in second bullet. Consider moving everything except the bolded stuff to the stem and make it a "fill in the blank" – (INDENTED AND FIXED TYPO) (OK)
30	F	2	X									X?			E	Indent bullets Second part of KA not met. A procedure choice needs to be included. – (MADE CHANGES TO THE STEM AND DISTRACTORS) (OK)
31	H	2	X						X						E	Indent bullets Please explain BIT operation..... – (QUESTION IS OK)
32	H	2	X				X		X						E	Indent bullets Distractor D is not plausible. Inadequate reference to support correct answer. Need to know why trip occurs when –31 fuse blows. –(CHANGED DISTRACTOR "D")
33	F	2	X			X									U	Indent bullets What would make the applicant think that there is a temperature control valve in this system if there NOT one and one never existed? Distractors "A" and "B" are not plausible. (BASED ON K/A REQUIREMENT AND THE FACT OF HOW THEIR SYSTEM IS DESIGNED I ACCEPTED THEIR DISTRACTORS – APPLICANT MUST KNOW HOW SYSTEM IS DESIGNED) (OK)
34	H	2	X			X									U	Indent bullets Distractors "B" and "D" are not plausible. Q is ranked unsat due to 2 non plausible distractors. – (DECIDED TO ACCEPT ANSWER AFTER LOOKING AT CONTROL BOARD LAYOUT) (OK)
35	H	3	X												U	Indent bullets. There is no Which ONE statement (stem) – (ADDED THE STEM) (OK)

Q#	1. LOK (C/A)	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			
36	F	1	X												U	Indent bullets This Q has very little discriminatory value. Make it a multiple parts question to yield a decent LOD. Q is unsat since LOD = 1. (REWROTE QUESTION CHANGED DISTRACTORS) (OK)
37	H	2	X										X?		E	Indent bullets Second part of KA not met. (OK AS WRITTEN)
38	F	2													S	(CHANGED QUESTION) (OK)
39	F	1	X												E	Indent bullets With Rx power @ 100%, there is no discriminatory value. Change initial power to 77%. (CHANGED POWER LEVEL) (OK)
40	F	1				X									E	If DC bus loads are consistent with design bases, distractors "B" and "D" are not plausible. Delete this statement and provide applicant with a discharge rate and let him draw his own conclusions. – (THIS WAS FROM THE 2006 TEST) (OK)
41	H	2	X												E	Indent bullets (MADE CHANGES) (OK)
42	H	1	X												U	Indent bullets If distractor "A", "B", or "C" was correct, "D" would also be correct. This Q has no discriminatory value. (REVIEWED PROCEDURE AND LOOKED AT DRAWING – AGREED THAT QUESTION IS OK)
43	F	2	X												E	Stem is poorly written. (REWROTE STEM) (OK)
44	H	2	X												E	Need a procedure reference (18016-C) in the stem to rule out distractor D. (ADDED INFORMATION) (OK)
45	F	2	X												E	Indent 1 and 2 in the stem. (MADE CHANGE) (OK)
46	H	1	X			X									U	Indent bullets. The distractors are not plausible. (REMOVED WORDS FROM THE STEM) (OK)
47	H	2	X												E	Indent bullets. (MADE CHANGES) (OK)

Q#	1. LOK (C/A)	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			
48	F	2	X										X?		E	Indent bullets Note: Why does 17034-1, page 25 of 89 state that the DC distribution panels do not have ground detection relays when panel AD1 does? Second part of KA not met. (WILL REVISIT TOMORROW ***** *****)
49	H	2	X												E	Indent bullets (OK)
50	H	2	X												E	There appears to be unnecessary information in the stem. Eliminate the first 3 bullets. They are not needed to answer the Q (See caution on page 20 of 26, 18028-C). (NEED TO LOOK AT REPLACING THIS QUESTION) ***** ***** (LOCATED A REPLACEMENT QUESTION) (OK)
51	F	2	X												E	Indent bullets (MADE CHANGE AND INFORMATION TO COVER BASES. THIS ENHANCED THE K/A MATCH)
52	H	1				X									U	I disagree with distractor analysis plausibility statement. A diversion of potentially radioactive water to a clean anything is not plausible. Replace distractors "C" and "D." (CHANGED DISTRACTOR "C" ADDED A WORD TO THE STEM) (OK)
53	F	2													S	(OK)
54	F	2	X				X		X						E	Indent bullets Why did you add "to limit the leakage" to the answer. It is NOT in the procedure. In distractor "A": I think the word "at" should be "a" (MADE CHANGES) (OK)
55	H	2	X				X		X						E	Indent bullets As is, "B" is also a correct answer. Add the word "only" at the end. (MADE CHANGE) (OK)
56	H	2	X												E	Indent bullets (OK)
57	F	2	X												E	Indent bullets (CHANGED SET POINT & INDENTED) (OK)

Q#	1. LOK (C/A)	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			
58	H	1	X												U	Indent bullets Stem: The word "that" is missing after parameter. This Q has no discriminatory value. Maybe make a Q that ask what is the correct order in which this are affected. This Q has no discriminatory value. (REPLACED QUESTION) (OK)
59	F	2	X												E	Indent bullets (MADE CHANGE) (OK)
60	F	2	X												E	Indent bullets (MADE CHANGES; MODIFIED STEM AND DISTRACTORS) (OK)
61	F	1													S	(OK)
62	F	2													S	(OK)
63	H	1	X			X									E	Unit 1 (not one.....) There appears to be unnecessary information in the stem. Distractor A is not plausible. Why would one expect a significant increase in counts? Should there not be some alarm in at this time? (OK)
64	H	1	X												S	Bank question - Not modified. Only changed number from previous use. (CHANGED TO BANK) (OK)
65	H	1				X									?	Explain why you consider D plausible. What procedure identifies the type of equipment that should be worn when there is known airborne radiation? (CHANGED STEM AND DISTRACTOR) (OK)
66	H	2													S	(OK)
67	H	2				X									U	Only the answer gives a reason/bases. The other three distractors say "if present due to." Not a reason. Inadequate distractors. (CHANGED STEM AND DISTRACTOR) (OK)
68	H	3													S	(OK)

Q#	1. LOK (C/A)	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			
69	H	2	X	X		X									U	The stem states that the "Crew is at the step to use the tables to determine if..... can be stopped based on subcooling criteria"... Why would one not be expected to check a criteria, in this case subcooling, before action is taken to stop a pump? Stem talks about stopping CCPs and SIPs (more than one). Why is "Stop a CCP" needed in the stem? (CHANGED STEM) (OK) (7/25/2007 ADDED CCP A WAS STOPPED TO STEM) OK
70	F	2				X									E	Could distractor A not be correct if they are not able to open both PORVs? (REVISED STEM AND DISTRACTORS) (OK)
71															?	The stem ask for a method. Please explain why you think each of your distractors describe a method. (CHANGED STEM) (OK)
72	H	2													S	(OK)
73	H	3													S	(REWORDED DISTRACTOR B) (OK)
74	H	2				X									U	I do not understand why distractors C and D are considered plausible. Also the second part of B is not plausible. I do not know of any situations where a procedure would require the crew to wait 1 hour if an undesirable condition exist. (CHANGED STEM AND DISTRACTOR) (OK)
75	H	3	X			X									U	Change the wording in the stem form "may" to should be implemented..... I do not understand how distractors B and C are plausible based on the information provided in the stem. (MADE CHANGE TO STEM) (DECIDED DISTRACTORS WERE OK) (OK)

Post-Examination Check SheetFacility: _Vogtle _____ Date of Examination: 7/30 -8/15/2007 _____

Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	8/17/2007
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	N/A
3. Operating tests graded by NRC examiners	9/5/2007
4. NRC chief examiner review of operating test and written exam grading completed	9/12/2007
5. Responsible supervisor review completed	9/13/2007
6. Management (licensing official) review completed	9/13/2007
7. License and denial letters mailed	9/13/2007
8. Facility notified of results	9/13/2007
9. Examination report issued (refer to NRC MC 0612)	9/14/2007
10. Reference material returned after final resolution of any appeals	N/A

