

Facility: Vogtle Nuclear Plant Date of Examination: Weeks of May 16 & 23, 2005

Examination Prepared By (Circle): Facility NRC
 (Operating Test Details) (Written / Operating Test Outlines)

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

* 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.

Draft

Facility: Vogtle		Date of Examination: May 2005		
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.			
	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.	MB	NA	MB
	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.	MB		MB
	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.	MB		MB
3. W /	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: MB(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 MB(2) task repetition from the last two NRC examinations is within the limits specified on the form MB(3) no tasks are duplicated from the applicants' audit test(s) MB(4) the number of new or modified tasks meets or exceeds the minimums specified on the form MB(5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.	MB		MB
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: MB(1) the tasks are distributed among the topics as specified on the form MB(2) at least one task is new or significantly modified MB(3) no more than one task is repeated from the last two NRC licensing examinations	MB		MB
	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.	MB		MB
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.			
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.			
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.			
	d. Check for duplication and overlap among exam sections.			
	e. Check the entire exam for balance of coverage.			
	f. Assess whether the exam fits the appropriate job level (RO or SRO).			

	Printed Name/Signature	Date
a. Author	Mark A. Bates	03/08/05
b. Facility Reviewer (*)	N / A	
c. NRC Chief Examiner (#)	Richard S. Baldwin	03/08/05
d. NRC Supervisor	James H. Moorman	3-9-05

Note: # independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.

Draft

Vogtle 2005-301 Draft

RO

Facility: Vogtle		Date of Examination: May 2005		
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.	MB	NA	100
	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.	MB		100
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	MB		100
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	MB		100
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.			NA
	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.	NA		
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.	NA		
	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			100
	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.	N/A		100
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.	MB		100
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	MB		100
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	MB		100
	d. Check for duplication and overlap among exam sections.	MB		100
	e. Check the entire exam for balance of coverage.	MB		100
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	MB	9	100

	Printed Name/Signature	Date
a. Author	Mark A. Bates <i>Mark A. Bates</i>	19 APRIL 2005
b. Facility Reviewer (*)		
c. NRC Chief Examiner (#)	Richard S. Baldwin <i>Richard S. Baldwin</i>	20 APRIL 2005
d. NRC Supervisor	James H. Moorman <i>James H. Moorman</i>	21 APRIL 2005

Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.

Draft

Vogle 2005-301 Draft

SRO

Facility: Vogtle		Date of Examination: May 2005		
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.	MB	NA	MB
	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.	MB		MB
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	MB		MB
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	MB		MB
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.			
	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 /	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.	NA		NA
	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.	MB		MB
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	MB		MB
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	MB		MB
	d. Check for duplication and overlap among exam sections.	MB		MB
	e. Check the entire exam for balance of coverage.	MB		MB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	MB		MB

Printed Name/Signature		Date
a. Author	Mark A. Bates	25 APRIL 2005
b. Facility Reviewer (*)		
c. NRC Chief Examiner (#)	Richard S. Baldwin	4/25/05
d. NRC Supervisor	James H. Moorman	4-26-05

Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.

Final

Vogtle 2005-301 Final

Facility: Vogtle		Date of Examination: May 2005		
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.	NA	NA	NA
	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.	NA		NA
	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.	MBS		PSB
	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.	MBS		PSB
	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.	MBS		PSB
3. W / T	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: MBS (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 MBS (2) task repetition from the last two NRC examinations is within the limits specified on the form MBS (3) no tasks are duplicated from the applicants' audit test(s) <i>Independent Review</i> MBS (4) the number of new or modified tasks meets or exceeds the minimums specified on the form MBS (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.	MBS		PSB
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: MBS (1) the tasks are distributed among the topics as specified on the form MBS (2) at least one task is new or significantly modified MBS (3) no more than one task is repeated from the last two NRC licensing examinations	MBS		PSB
	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.	MBS		PSB
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.	MBS		PSB
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	MBS		PSB
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	MBS		PSB
	d. Check for duplication and overlap among exam sections.	MBS		PSB
	e. Check the entire exam for balance of coverage.	MBS		PSB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	MBS		PSB
Printed Name/Signature		Date		
a. Author	Mark A. Bates	<i>Mark A. Bates</i>		05-12-2005
b. Facility Reviewer (*)	NA	/		
c. NRC Chief Examiner (#)	Richard S. Baldwin	<i>Richard S. Baldwin</i>		5/12/05
d. NRC Supervisor	James H. Moorman	<i>James H. Moorman</i>		5-13-05
Note: # independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

* WILL BE COVERED ON A SEPARATE FORM

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5/16/05 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 5/16 to 5/23. 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. DANIEL S. KANE	SR. Nuc. Ops. PCT. INSTR.	<i>D. Kane</i>	3-14-05	<i>D. Kane</i>	5-27-05
2. FRED W. HOWARD	Nuc Ops PLT INSTR.	<i>Fred Howard</i>	3-19-05	<i>Fred Howard</i>	6-13-05
3. MICHAEL J. KUATMAN	Trng Supr HP/chem	<i>Michael J. Kuatman</i>	4-4-05	<i>Michael J. Kuatman</i>	5-27-05
4. R. LEE MANSFIELD	Nuc Ops Trng Supr	<i>R. Lee Mansfield</i>	4-26-05	<i>R. Lee Mansfield</i>	5/27/05
5. RICHARD Q. BRIGGS	SR. Nuclear Ops Instructor	<i>Richard Q. Briggs</i>	5/18/05	<i>Richard Q. Briggs</i>	5/21/05
6. EUGENE D. HENRY	PLT INSTRUCTOR / IEC	<i>Eugene D. Henry</i>	5-11-05	<i>Eugene D. Henry</i>	5-31-05
7. ROBERT J. BROWN	TRN MGR	<i>Robert J. Brown</i>	5/11/05	<i>Robert J. Brown</i>	5/31/05
8. JANE M. WHITEN	TRN AA	<i>Jane M. Whiten</i>	5-12-05	<i>Jane M. Whiten</i>	5-27-05

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5/14-5/23/05 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 5/16-5/23/05. 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>Melvin A. Gibson</u>	<u>Simulator Coordinator</u>	<u>Melvin A. Gibson</u>	<u>4-8-05</u>	<u>Melvin A. Gibson</u>	<u>6-2-05</u>
2. <u>Mitchell Youngman</u>	<u>Simulator Eng.</u>	<u>Mitchell Youngman</u>	<u>4-4-05</u>	<u>Mitchell Youngman</u>	<u>5-27-05</u>
3. <u>John Horne</u>	<u>Operations Trng Supv</u>	<u>John Horne</u>	<u>5-12-05</u>	<u>John Horne</u>	<u>5-16-05</u>
4. <u>Tim Harris</u>	<u>Instructor / Surrogate</u>	<u>Tim Harris</u>	<u>5-17-05</u>	<u>Tim Harris</u>	<u>5-27-05</u>
5. <u>Charlton Salter</u>	<u>Instructor</u>	<u>Charlton Salter</u>	<u>5-22-05</u>	<u>Charlton Salter</u>	<u>5-27-05</u>
6. <u>Co Salter</u>	<u>Instructor</u>	<u>Co Salter</u>	<u>5-22-05</u>	<u>Co Salter</u>	<u>5-27-05</u>
7. _____	_____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____

NOTES:

* ONLY FOR KNOWLEDGE OF IN-PLANT JPM J.

5/12/15

2. Post-Examination

SIGNATURE (2) DATE NOTE

15. NOTES: ① KNOWLEDGE OF NAC EXAM LIMITED TO 2 QUESTIONS ON WRITTEN EXAM UNTIL 5/3/05

Final

Facility: Vogtle
Examination Level: RO

Date of Examination: May 2005
Operating Test Number: 2005-301

Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	M	<p>Title: Safety Function Status Checks</p> <p>Description: Perform Safety Function Status Checks without the aid of the computer. JPM constructed for at least one safety function not satisfied. K/A: G2.1.7 (3.7/4.0)</p>
Conduct of Operations	M	<p>Title: Shutdown Margin Calculation</p> <p>Description: Determine shutdown margin at zero power at 28 hours after a reactor trip, with RCS temperature at less than the hot zero power reference value. K/A: G2.1.7 (3.7/4.0)</p>
Equipment Control	M	<p>Title: Construct Tagout for Unit 2 #4 Nuclear Service Cooling Water Pump</p> <p>Description: Construct tagout without the use of pre-written tagouts from master tagouts or computerized tagging system. K/A: G2.2.13 (3.6/3.8)</p>
Radiation Control	M	<p>Title: Radiation Posting Requirements / Accumulated Dose</p> <p>Description: A point source is located a few feet from a door. A map of the room should be used to depict the point source and the location of the radiation posting. The applicant must calculate the dose rate at the door as being greater than 100 mrem/hr, thus requiring the door to be posted HIGH RAD AREA. The JPM will have the applicant determine the posting requirement for the room. K/A: 2.3.4 (2.5/3.1)</p>
Emergency Plan	N/A	N/A
<p>NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when all 5 are required.</p>		
<p>* Type Codes & Criteria: (C)ontrol room (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) (N)ew or (M)odified from bank (≥ 1) (P)revious 2 exams (≤ 1; randomly selected) (S)imulator</p>		

FINAL

Facility: Vogtle Examination Level: SRO		Date of Examination: May 2005 Operating Test Number: 2005-301
Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	M	Title: Determine Mode Change Requirements Description: JPM will give a set of plant conditions, one of which will preclude making a mode change (i.e., Tech Spec that will not be met in next higher mode.) JPM will direct a determination of whether a mode change can be made and if not, what conditions are preventing the mode change. K/A: G2.1.10 (2.7/3.9)
Conduct of Operations	M	Title: Shutdown Margin Calculation Description: Determine shutdown margin at zero power at > 24 hours after a reactor trip, with RCS temperature at less than the hot zero power reference value. K/A: G2.1.7 (3.7/4.0)
Equipment Control	M	Title: Construct Tagout for Unit 2 #4 Nuclear Service Cooling Water Pump Description: Construct tagout without the use of pre-written tagouts from master tagouts or computerized tagging system. K/A: G2.2.13 (3.6/3.8)
Radiation Control	M	Title: Life Saving in Emergency Conditions Description: Perform dose calculation on a point source that will yield an accumulated dose of > 25 rem. Determine all individuals who must approve an entry to rescue an injured person and that the person making the entry must be a volunteer. Data Sheet 1 of 91301-C must be completed. K/A: G2.3.4 (2.5/3.1)
Emergency Plan	M	Title: Emergency Classification Description: Determine event classification of General Emergency with protective action recommendations. Plant conditions shall be different than previous bank JPMs. K/A: G2.4.29 (2.6/4.0)
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when all 5 are required.		
* Type Codes & Criteria: (C)ontrol room (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes) (N)ew or (M)odified from bank (> 1) (P)revious 2 exams (≤ 1 ; randomly selected) (S)imulator		

Facility: Vogtle Exam Level (circle one): RO / SRO-I / SRO-U (see each JPM)		Date of Examination: May 2005 Operating Test No.: 2005-301
Control Room Systems® (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U, including 1 ESF)		
System / JPM Title	Type Code*	Safety Function
a. Start and load EDG to dead bus. Load increases uncontrollably. (RO / SRO-I / SRO-U) K/A: 062A1.01 (3.4/3.8)	M, A, S	6 (Electrical)
b. Depressurize RCS following SGTR in accordance with 19030-C, E-3, SGTR, Step 17. JPM will require use of auxiliary sprays. (RO / SRO-I / SRO-U) K/A: 038EA1.04 (4.3/4.1)	L, N, A, E, S	3 (Pressure Control)
c. Perform Immediate Operator Actions for Toxic Gas Release. Two components fail to reposition. (RO / SRO-I / SRO-U) K/A: 068G2.4.49 (Control Room Habitability / Evacuation – Safety Function 8) Facility JPM: RQ-JP-18035-001	M, A, E, S	8 (Service Sys)
d. Perform RCS cooldown using steam dumps following SGTR in accordance with 19030-C, E-3, SGTR, Step 7. (RO / SRO-I) K/A: 041A4.08 (3.0/3.1)	N, E, L, S	4 (Sec Heat Removal)
e. Manually makeup to VCT. Boric Acid transfer pump degrades and flow deviation alarms, but automatic actions fail to occur. (RO / SRO-I) K/A: 004A2.06 (4.2/4.3)	N, A, S	1 (Reactivity)
f. Shift operating Charging Pump from NCP to 'A' CCP. NCP has high vibrations and 'B' CCP is tagged out. (RO / SRO-I) K/A: 004A4.08 (3.8/3.4)	N, S	2 (Inventory Control)
g. Dilute Containment with Service Air in accordance with 19010-C, E-1, Loss of Reactor or Secondary Coolant, Step 19. (RO / SRO-I) K/A: 028A4.01 (4.0/4.0) Facility JPM: RQ-JP-13130-001	D, E, L, S	5 (Containment)
h. Place RHR Train in service and initiate a cooldown. (RO) K/A: 005A4.01 (3.6/3.4) Facility JPM: RQ-JP-13011-001	D, L, S	4 (Pri Heat Removal)

In-Plant Systems® (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)		
i. Release Unit 2 WMT 010. RE-018 exceeds setpoint, but RV-018 fails to close. (RO / SRO-I / SRO-U) K/A: 068A2.04 (3.3/3.3) Facility JPM: RQ-JP-17213-001	M, A, R	9 (Radioactivity Release)
j. Locally operate Steam Generator ARV. (RO / SRO-I / SRO-U) K/A: 039G2.1.30(3.9/3.4) Facility JPM: RQ-JP-19030-006	D, E, L,	4 (Sec Heat Removal)
k. Place a 1E 125 Vdc Battery Charger In Service (RO / SRO-I) K/A: 058AA1.03 (3.1/3.3) Facility JPM: RQ-JP-13405-001	D	6 (Electrical)
@ All control room (and in-plant) systems must be different and serve different safety functions; in-plant systems and functions may overlap those tested in the control room.		
* Type Codes	Criteria for RO / SRO-I / SRO-U	
(A)lternate path	4-6 / 4-6 / 2-3	
(C)ontrol room	$\leq 9 / \leq 8 / \leq 4$	
(D)irect from bank	$\geq 1 / \geq 1 / \geq 1$	
(E)mergency or abnormal in-plant	$> 1 / \geq 1 / \geq 1$	
(L)ow-Power / Shutdown	$\geq 2 / \geq 2 / \geq 1$	
(N)ew or (M)odified from bank including 1(A)	$\leq 3 / \leq 3 / \leq 2$ (randomly selected)	
(P)revious 2 exams	$\geq 1 / \geq 1 / \geq 1$	
(R)CA		
(S)imulator		

Facility: Vogtle		Date of Exam: May 2005		Scenario Numbers: 1 / 2 / 3 / 4 (spare)		Operating Test Number: 2005-301	
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).			MB	N/A	MB	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.			MB		MB	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (See Section D.1.a.)			MB		MB	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.			NA		MB	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.			MB		MB	
2. Walk-Through Criteria				--	--	--	
a.	Each JPM includes the following, as applicable:			MB	NA		
	<ul style="list-style-type: none"> • MB initial conditions • MB initiating cues • MB references and tools, including associated procedures • MB reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee • MB operationally important specific performance criteria that include: <ul style="list-style-type: none"> • MB detailed expected actions with exact criteria and nomenclature • MB system response and other examiner cues • MB statements describing important observations to be made by the applicant • MB criteria for successful completion of the task • MB identification of critical steps and their associated performance standards • MB restrictions on the sequence of steps, if applicable 					MB	
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.			MB		MB	
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.				MB	NA	MB	
Printed Name / Signature			Date				
a.	Author	Mark A. Bates / <i>Mark A. Bates</i>	05.12.2005				
b.	Facility Reviewer(*)	N/A					
c.	NRC Chief Examiner (#)	Richard S. Baldwin / <i>Richard S. Baldwin</i>	5/12/05				
d.	NRC Supervisor	James H. Moorman III / <i>James H. Moorman, Jr.</i>	5.13.05				
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.							

* Will be covered on a separate form

~~DRAFT~~ *not Final*

ES-301, Rev. 9

Operating Test Quality Checklist

Form ES-301-3

Facility: VOGTLE NUCLEAR PLANT				Date of Examination: May 2005		Operating Test Number: 2005-301	
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).			N/A	N/A	N/A	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.			N/A	N/A	N/A	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)			N/A	N/A	N/A	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.			MB	MB	MB	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.			N/A	N/A	N/A	
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			N/A	N/A	N/A	
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.			N/A	N/A	N/A	
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.				N/A	N/A	N/A	
Printed Name / Signature				Date			
a.	Author	Mark A. Bates / <i>Mark A. Bates</i>		07.05.2005			
b.	Facility Reviewer(*)	N/A					
c.	NRC Chief Examiner (#)	Richard S. Baldwin / <i>RSB</i>		7/5/05			
d.	NRC Supervisor	James H. Moorman III / <i>JH Moorman</i>		7.6.05			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.							

O:\Vogtle Examinations\Initial Exam 2005-301\QA FORMS\VOGTLE FORM ES301-3 DRAFT OPERATING QUALITY CHECK LIST - post exam addition.wpd

Facility: Vogtle Date of Exam: May 2005 Scenario Numbers: 1 / 2 / 3 / 4 (spare) Operating Test Number: 2005-301				
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.	MS	NA	MS
2.	The scenarios consist mostly of related events.	MS		MS
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) 	MS		MS
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.	MS		MS
5.	The events are valid with regard to physics and thermodynamics.	MS		MS
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	MS		MS
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.	MS		MS
8.	The simulator modeling is not altered.	MS		MS
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.	MS		MS
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.	MS		MS
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	MS		MS
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).	MS		MS
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	MS	✓	MS
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes	--	--
1.	Total malfunctions (5-8)	6 / 5 / 4 / 5	MS	NA
2.	Malfunctions after EOP entry (1-2)	2 / 4 / 4 / 2	MS	
3.	Abnormal events (2-4)	5 / 4 / 2 / 5	MS	
4.	Major transients (1-2)	1 / 1 / 2 / 1	MS	
5.	EOPs entered/requiring substantive actions (1-2)	2 / 1 / 1 / 2	MS	
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 1 / 2	MS	
7.	Critical tasks (2-3)	3 / 2 / 3 / 4	MS	✓

Facility:		Vogtle			Date of Examination:			May 2005			Operating Test No.:			2005-301			
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						
		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				
NA	RX													0	1	1	0
	NOR													0	1	1	1
	I/C													0	4	4	2
	MAJ													0	2	2	1
	TS													0	0	2	2
I-4/I-6	RX													0	1	1	0
	NOR													0	1	1	1
	I/C													0	4	4	2
	MAJ													0	2	2	1
	TS													0	0	2	2
I-3/I-5	RX													0	1	1	0
	NOR													0	1	1	1
	I/C													0	4	4	2
	MAJ													0	2	2	1
	TS													0	0	2	2
NA	RX													0	1	1	0
	NOR													0	1	1	1
	I/C													0	4	4	2
	MAJ													0	2	2	1
	TS													0	0	2	2

Instructions:

1. Circle 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.

Author: MARK A. BATES

NRC Reviewer: Richard S. Baldwin

Facility:		Vogtle			Date of Examination:			May 2005			Operating Test No.:			2005-301			
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						
		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				
RO-1/2	RX					1								1	1	1	0
	NOR													1	1	1	1
	I/C					3	6	7						5	4	4	2
	MAJ					3								2	2	2	1
	TS													0	0	2	2
NA	RX													0	1	1	0
	NOR													0	1	1	1
	I/C													0	4	4	2
	MAJ													0	2	2	1
	TS													0	0	2	2
I-1/2	RX					1								1	1	1	0
	NOR					1								2	1	1	1
	I/C					2	3	5						5	4	4	2
	MAJ					3								2	2	2	1
	TS					2	3							3	0	2	2
SRO-U1/2	RX													0	1	1	0
	NOR													2	1	1	1
	I/C													2	4	4	2
	MAJ													2	2	2	1
	TS													4	0	2	2

Instructions:

1. Circle 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.
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Author: MARK A. BATES

NRC Reviewer: RICHARD S. BALDWIN

Facility:	Vogtle	Date of Examination:	May 2005	Operating Test No.:	2005-301											
Competencies	APPLICANTS															
	RO/SRO-I SRO-U				RO/SRO-I <u>SRO-U</u>				RO/SRO-I SRO-U				RO/SRO-I SRO-U			
	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	12 34 56 7	23 56 78 9		12 35 67 8	12 34 56 7	23 56 78 9		12 35 67 8								
Comply With and Use Procedures (1)	12 34 56 7	12 34 56 78 9		12 34 56 78	12 34 56 7	12 34 56 78 9		12 34 56 78								
Operate Control Boards (2)	12 34 56 7	12 34 56 78 9		12 34 56 78												
Communicate and Interact	12 34 56 7	12 34 56 78 9		12 34 56 78	12 34 56 7	12 34 56 78 9		12 34 56 78								
Demonstrate Supervisory Ability (3)					12 34 56 7	12 34 56 78 9		12 34 56 78								
Comply With and Use Tech. Specs. (3)					23 46	26 3		23								
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.																

Instructions:

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

Author: Mark A. Bates

NRC Reviewer: Richard S. Baldwin

Facility:		Vogtle			Date of Examination:			May 2005			Operating Test No.:			2005-301				
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							
		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					
RO-X	RX															1	1	0
	NOR															1	1	1
	I/C															4	4	2
	MAJ															2	2	1
	TS															0	2	2
NA	RX															1	1	0
	NOR															1	1	1
	I/C															6	4	2
	MAJ															3	2	1
	TS															0	0	2
I-X	RX															1	1	0
	NOR															1	1	1
	I/C															4	4	2
	MAJ															2	2	1
	TS															0	2	2
SRO-X	RX															1	1	0
	NOR						4									1	1	1
	I/C															4	4	2
	MAJ							8								2	2	1
	TS															0	2	2

Instructions:

1. Circle 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.

Author: MARK A. BATESNRC Reviewer: RICHARD S. BALDWIN

Facility:	Vogle	Date of Examination:	May 2005	Operating Test No.:	2005-301											
Competencies	APPLICANTS															
	RO/SRO-I SRO-U				RO/SRO-I SRO-U				RO/SRO-I SRO-U				RO/SRO-I SRO-U			
	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	12 34 56 7	23 56 78 9		12 35 67 8	12 34 56 7	23 56 78 9		12 35 67 8								
Comply With and Use Procedures (1)	12 34 56 7	12 34 56 78 9		12 34 56 78	12 34 56 7	12 34 56 78 9		12 34 56 78								
Operate Control Boards (2)	12 34 56 7	12 34 56 78 9		12 34 56 78												
Communicate and Interact	12 34 56 7	12 34 56 78 9		12 34 56 78	12 34 56 7	12 34 56 78 9		12 34 56 78								
Demonstrate Supervisory Ability (3)					12 34 56 7	12 34 56 78 9		12 34 56 78								
Comply With and Use Tech. Specs. (3)					23 46	26 3		23								
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.																

Instructions:

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

Author: Mark A. Bates

NRC Reviewer: Richard S. Baldwin

Facility: <u>Vogtle</u>		Date of Exam: <u>5/27/05</u>		Exam Level: <u>RO/SRO</u>																
Item Description			Initial																	
			a	b*	c*															
1.	Questions and answers are technically accurate and applicable to the facility.		MB	N/A	MB															
2.	a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.		MB		MB															
3.	SRO questions are appropriate in accordance with Section D.2.d of ES-401		MB		MB															
4.	If more than four RO and two SRO questions are repeated from the last two NRC licensing exams, the facility licensee's sampling process was random and systematic.		MB		MB															
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: N/A the audit exam was systematically and randomly developed N/A the audit exam was completed before the license exam was started N/A the examinations were developed independently <i>Independently Developed MB</i> N/A the licensee certifies that there is no duplication N/A other (explain)		MB		MB															
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.	<table border="1"> <tr> <th>Bank</th> <th>Modified</th> <th>New</th> </tr> <tr> <td>22 / 175</td> <td>17 / 175</td> <td>36 / 175</td> </tr> </table>	Bank	Modified	New	22 / 175	17 / 175	36 / 175	MB		MB									
Bank	Modified	New																		
22 / 175	17 / 175	36 / 175																		
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.	<table border="1"> <tr> <th>Memory</th> <th>C/A</th> </tr> <tr> <td>32 / 175</td> <td>43 / 175</td> </tr> </table>	Memory	C/A	32 / 175	43 / 175	MB		MB											
Memory	C/A																			
32 / 175	43 / 175																			
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.		MB		MB															
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.		MB		MB															
10.	Question psychometric quality and format meet the guidelines in ES Appendix B.		MB		MB															
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.		MB	N/A	MB															
<table border="1"> <thead> <tr> <th></th> <th>Printed Name / Signature</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>a. Author</td> <td><u>MARK A. BATES / Mark A. Bates</u></td> <td><u>05-25-2005</u></td> </tr> <tr> <td>b. Facility Reviewer (*)</td> <td><u>N/A</u></td> <td><u>N/A</u></td> </tr> <tr> <td>c. NRC Chief Examiner (#)</td> <td><u>Richard S. Brown / Richard S. Brown</u></td> <td><u>05/26/05</u></td> </tr> <tr> <td>d. NRC Regional Supervisor</td> <td><u>JAMES H. MOORE JR. / James H. Moore Jr.</u></td> <td><u>6-10-05</u></td> </tr> </tbody> </table>							Printed Name / Signature	Date	a. Author	<u>MARK A. BATES / Mark A. Bates</u>	<u>05-25-2005</u>	b. Facility Reviewer (*)	<u>N/A</u>	<u>N/A</u>	c. NRC Chief Examiner (#)	<u>Richard S. Brown / Richard S. Brown</u>	<u>05/26/05</u>	d. NRC Regional Supervisor	<u>JAMES H. MOORE JR. / James H. Moore Jr.</u>	<u>6-10-05</u>
	Printed Name / Signature	Date																		
a. Author	<u>MARK A. BATES / Mark A. Bates</u>	<u>05-25-2005</u>																		
b. Facility Reviewer (*)	<u>N/A</u>	<u>N/A</u>																		
c. NRC Chief Examiner (#)	<u>Richard S. Brown / Richard S. Brown</u>	<u>05/26/05</u>																		
d. NRC Regional Supervisor	<u>JAMES H. MOORE JR. / James H. Moore Jr.</u>	<u>6-10-05</u>																		
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.																				

* - signature transferred from
 copy faxed from VEGP to RII.
 Faxed copy signed on 5/26/05
 Jim 6-10-05

Facility: <u>Vogtle</u>		Date of Exam: <u>5/27/05</u>		Exam Level: RO/SRO		
Item Description				Initial		
				a	b*	c*
1. Questions and answers are technically accurate and applicable to the facility.				MB	N/A	MB
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.				MB		MB
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401				MB		MB
4. If more than four RO and two SRO questions are repeated from the last two NRC licensing exams, the facility licensee's sampling process was random and systematic.				MB		MB
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: N/A the audit exam was systematically and randomly developed N/A the audit exam was completed before the license exam was started MB the examinations were developed independently <i>Independently Developed</i> N/A the licensee certifies that there is no duplication N/A other (explain)				MB		MB
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	MB	MB
		1 125	4 125	20 125		
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		CIA	MB	MB
		9 125		16 125		
8. References/handouts provided do not give away answers or aid in the elimination of distractors.				MB		MB
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.				MB		MB
10. Question psychometric quality and format meet the guidelines in ES Appendix B.				MB		MB
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.				MB	N/A	MB
Printed Name / Signature				Date		
a. Author		MARK A. BATES / <i>Mark A. Bates</i>		05.25.2005		
b. Facility Reviewer (*)		N/A		N/A		
c. NRC Chief Examiner (#)		Richard S. Brown / <i>Richard S. Brown</i>		5/25/05		
d. NRC Regional Supervisor		JAMES H. HARRISON / <i>James H. Harrison</i>		6-10-05*		
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.						

* signature transferred from
 copy dated from VEGP to RII
 Faxed copy signed on 5/26/05
 June 6-10-05

ES-401

Written Examination Quality Checklist

Form ES-4 11-6

Facility: <u>Vogtle</u>		Date of Exam: <u>5/27/05</u>		Exam level: <u>RO</u>
Item Description		a	b*	c
1. Questions and answers are technically accurate and applicable to the facility.		MB	N/A	10
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.		MB		10
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401		MB		10
4. If more than four RO and two SRO questions are repeated from the last two NRC licensing exams, the facility licensee's sampling process was random and systematic.		MB		10
5. Question duplication from the licensee screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: the audit exam was systematically and randomly developed the audit exam was completed before the licensee exam was started the examinations were developed independently the licensee certifies that there is no duplication other (explain)		MB		10
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
		1 / 25	4 / 25	20 / 25
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	
		9 / 25	10 / 25	
8. References/handouts provided do not give away answers or aid in the elimination of distractors.		MB		10
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.		MB		10
10. Question psychometric quality and format meet the guidelines in ES Appendix B.		MB		10
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.		MB	1/4	10
Printed Name / Signature		Date		
a. Author	MARK A. BATES / <u>Mark A. Bates</u>	05-25-2005		
b. Facility Reviewer (*)	N/A	N/A		
c. NRC Chief Examiner (#)	Richard J. Bates / <u>Richard J. Bates</u>	5/25/05		
d. NRC Regional Supervisor	JAMES H. [Signature] / <u>James H. [Signature]</u>	5/24/05		
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.				

ES-401

Written Examination Quality Checklist

Form ES-4 11-6

Facility: <u>Vogtle</u>		Date of Exam: <u>5/27/05</u>		Exam	Level: <u>(1)</u>	RO
Item Description				a	b*	c
1. Questions and answers are technically accurate and applicable to the facility.				MB	N/A	12
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.				MB		12
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401				MB		12
4. If more than four RO and two SRO questions are repeated from the last two NRC licensing exams, the facility licensee's sampling process was random and systematic.				MB		12
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: N/A the audit exam was systematically and randomly developed N/A the audit exam was completed before the license exam was started N/A the examinations were developed independently <i>Independently Developed MB</i> N/A the licensee certifies that there is no duplication N/A Other (explain)				MB		12
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
				22/175	17/175	36/175
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	
				32/175	43/175	
8. References/handouts provided do not give away answers or aid in the elimination of distractors.				MB		12
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.				MB		12
10. Question psychometric quality and format meet the guidelines in ES Appendix B.				MB		12
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.				MB	N/A	12
Printed Name / Signature				Date		
a. Author	<u>MARK A. BATES / Mark A. Bates</u>			<u>05/22/05</u>		
b. Facility Reviewer (*)	<u>N/A</u>			<u>N/A</u>		
c. NRC Chief Examiner (#)	<u>THOMAS S. BANGS / Thomas S. Bangs</u>			<u>05/26/05</u>		
d. NRC Regional Supervisor	<u>JAMES H. WOOD / James H. Wood</u>			<u>5/26/05</u>		
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.						

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			
<p align="center">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. • 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. Check questions that are <u>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)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	F	2-3									S	001K2.01 Modified Easy question, however, it meets the KA To answer your question Mark I believe it is ok the way you asked it. April 27, 2005 LICENSEE COMMENT NO COMMENTS May 9, 2005 LICENSEE WANTS TO ADD STARTING IN THE DISTRACTORS, OK AS CHANGED,

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		
2	F	2											S	G2.4.31, New 1. Question appears to be ok. KA matches. 2. Not sure if the licensee expects the applicants to know this from memory, even though we think it may be. Will allow the licensee to have a cut to see if they will have a problem with asking this. The reference will NOT be provided. 3. Disagree that distractor is plausible. What information in the stem would make this a choice? Discuss with Mark. April 27, 2005 COMMENT TERMINOLOGY, NOT THE SAME AS STATED, RCP #1 VICE WHAT WE HAVE, ADD FRAME BEFORE VIBRATION MAKE A B AND C THE SAM ALREADY DISPATCHED SOME ONE SO ALARM IS ALREADY VALID BECAUSE OF BOTH CHANNELS, MARK WILL LOOK AT THIS TO SEE IF CHANGE IS OK May 9, 2005 THE CHANGES WERE MADE BY MARK, OK AS IS. PRIOR TO THE GETTING THIS CHANGE. OK AS CHANGED.

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	Minuta	#/ units	Back- ward	Q=- K/A	SRO Only		
3	H	3												E?	<p>003K5.03, Modified</p> <p>1. Are these RCP numbers required to be memorized by the applicants. The licensee may think this is beyond the requirements. Will discuss with the licensee. Will NOT provide a reference.</p> <p>2. KA discusses the unreliability of the Tave reading in the shutdown loop. Discussed with Mark.</p> <p>3. Otherwise the question appears to be ok.</p> <p>April 27, 2005</p> <p>COMMENT -WANT THE STEM TO BE CHANGED TO EFFECTED LOOP , WILL CHANGE TO THE REQUESTED</p> <p>EACH CHOICE HAS INITIALLY, THEY SEE IT STAYING THERE. THEY WANT THE INITIALLY REMOVED, BUT AFTER DISCUSSION THEY STATE IT IS THERE.</p> <p>May 9, 2005</p> <p>QUESTION # 3 MAY HELP TO ANSWER QUESTION # 2, WANTS TO DELETE THE VIBRATION INFORMATION. MARK WILL LOOK AT AGAIN. MAY KEY ON THE VIBRATIONS IN NUMBER 3 AND DON'T WANT TO TIP OFF THE OTHER QUESTION.</p> <p>S OK</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	Back- ward	Q= K/A	SRO Only		
4	H	3												S	<p>004A2.07, New,</p> <p>1. In the stem of the question, underline or bold the words <u>falls</u> <u>low</u>, to ensure it is read correctly.</p> <p>2. Should we put in the stem the EXPECTED response?</p> <p>April 27, 2005</p> <p>COMMENT - TERMINOLOGY, LISTED NUMBERS SHOULD BE HV, VICE vs SHOULD BE HV,</p> <p>May 9, 2005</p> <p>LICENSEE STATED NEED TO REMOVE THE REFERENCE TO 18007 THEY WILL NOT GO THERE. WILL DO THAT.</p> <p>ok</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	Back- ward	Q= K/A		
5	H	3											S	004K6.13, New, 1. Matches KA 2. Question appears to be ok. April 27, 2005 COMMENT, THE CORRECT ANSWER IS WILL GET BORATION FIRST, SO TEMP WILL LOWER. XE IS BUILDING IN FOR THE TIME FRAME GIVEN FV 0110 FAILS OPEN NOT CLOSED LIKE THE OTHER ANSWERS WANT TO REWORD DISTRACTORS, AND NOT USE THE BA FLOW DEVIATION. WANT THE TEMP CHANG TO BE AT END SINCE THIS IS A RESULT OF BA APPEARS IN ALL THE DISTRACTORS AND MOVE TO THE STEM. ████████████████████ May 9, 2005 LICENSEE PROPOSED A CHANGE HOWEVER THE CHANGE WAS EASIER. OK THE WAY MARK BATES CHANGED THIS 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	Back- ward	Q= K/A	SRO Only	
6	H	3											E?	<p>005A1.01, New</p> <p>1. Would change stem from "has been" to "was" collected...</p> <p>2. What TS items are you going to supply? It really depends how much you provide.</p> <p>3. Not sure the licensee will allow this for the RO applicants. It would be ok by me, however, I don't think they will like it for that reason, interpreting TS's. Need to see how the licensee reacts to this level of question for the RO.</p> <p>4. Otherwise it appears to be ok.</p> <p>April 27, 2005</p> <p>RE WORD THE STEM TO HAVE IT STATE THAT UNIT 1 HAS JUST COMPLETED A COOL DOWN. OK</p> <p>PLOT TEMP AND PRESS AND ADD PRESSURE OF 350 PSIG ANOTHER COLUMN. OK</p> <p>WILL REMOVE IF ANY, OK</p> <p>May 9, 2005</p> <p>LICENSEE WANTS TO HAVE MODE 5, THEY AGREE THAT IT IS NOT NECESSARY TO HAVE IT IN THERE. ALL FOUR ANSWERS POINT THEM TO SOMETHING WENT WRONG.</p> <p>1. SUGGESTION CHANGE a TO CHANGE NO TS LCO LIMIT HAS EXCEEDED. WILL LOOK AT THIS QUESTION.</p> <p>2. TAKE REQUIRED ACTION TO RESTORE RCS PARAMETERS TO WITHIN LIMITS WITHIN 30 MINUTES. DETERMINE IF THE RCS IS ACCEPTABLE FOR CONTINUED OPERATION NO LATER THAN MAY 30 2005 AT 230.</p> <p>3. IMMEDIATELY VERIFY RCS PARAMETERS ARE CURRENTLY WITHIN LIMITS DO NOT RAISE TEMPERATURE ABOVE 200 DEGREES UNTIL THE RCS IS DETERMINED TO BE ACCEPTABLE FOR CONTINUED OPERATION. OK</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	Back- ward	Q= K/A	SRO Only			
7	H														E	<p>006A2.11, Modified</p> <ol style="list-style-type: none"> Line space between the first sentence and first bulleted item. Suggest to change unavailable to <u>not</u> available. Would put the 3rd bullet as the first one. The procedure they are in would be better as being first. There are several parameters that are described with "slowly", this is not defined, may need to address the rate at which is moving. Distractor B, pressurizer is misspelled. Would change distractor B to read something like A. For example, Depressurize the RCS by opening available pressurizer PORVs to the.... Also need to find the correct terminology the plant uses for increasing or decreasing or rising or lowering. Matched the KA, otherwise it looks ok. <p>April 27, 2005</p> <p>COMMENT</p> <p>WITH RCS PRESSURE GIVEN, WILL NOT HAVE SI FLOW. WANT TO CHANGE TO 1400 PSIG. SI SHUT OFF IS 1520. WANT B AT 200 GPM</p> <p>LICENSEE READ THE QUESTION DIFFERENTLY, DID NOT REALIZE THERE WAS A LEAK DOWN STREAM OF THE FLOW TRANSMITTER. WILL LOOK AT AGAIN AND GET BACK WITH US. Will leave it as is,</p> <p>May 9, 2005</p> <p>OK AS CHANGED, NO MORE CHANGES NECESSARY.</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	Back- ward	Q= K/A		
8	H	3												007A3.01, Modified, 1. Appears to be ok. 2. Matches the KA April 27, 2005 COMMENT RE WORD STEM TO KNOW IT IS HAPPENING OVER A PERIOD OF TIME. ...HAS FAILED OFF SCALE HI. ADD NO OPERATOR ACTIONS HAVE BEEN TAKEN. REWORD THE STEM. REMOVE THE CHANGE TO 216 DEGREES. May 9, 2005 ADDED FAILS OFF SCALE HI, NO OPERATOR ACTIONS HAVE BEEN TAKEN. MARK ESSENTIALLY CHANGED THE COMMENTS WILL ADD THE WORD CURRENT TO THE STEM AS REQUESTED.

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		
9	F	2									X			E	<p>008A4.01, Bank</p> <p>1 The wording of the stem is not clear. This is sort of a backwards logic question. Which annunciator will indicate a pump trip. Discuss with Mark.</p> <p>2. Matches the KA ok.</p> <p>3. The licensee may not like this because it is knowing the annunciators from memory. But maybe not since it was a bank question.</p> <p>April 27, 2005</p> <p>COMMENT -</p> <p>MINOR DELETE IF IN ALARM, OK</p> <p>OK AS CHANGED.</p> <p>May 9, 2005</p> <p>NO RECOMMENDED CHANGES.</p>
10	H	2-3												E	<p>008AK3.05, Modified,</p> <p>1. Matches the KA</p> <p>2. The reference material states that 9% is adequate for heat removal, however, the containment is in adverse numbers, will this change the answer? Maybe we need to make the S/G levels 32% or higher. Discuss with Mark.</p> <p>April 27, 2005</p> <p>COMMENT -</p> <p>NO COMMENTS,</p> <p>May 9, 2005</p> <p>STILL NO CHANGES</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	Back- ward	Q= K/A	SRO Only		
11	H	3												S*	<p>009EA1.15, Bank,</p> <ol style="list-style-type: none"> 1. The first sentence in the second paragraph is teaching and should be condensed to something like, A turbine control failure results in a rapid load reduction. Nothing more. 2. Matches the KA, 3. Appears to be ok, with the change. <p>April 27, 2005</p> <p>COMMENT -</p> <p>NO COMMENTS.</p> <p>May 9, 2005</p> <p>STILL NO COMMENTS</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	Back- ward	Q= K/A	SRO Only		
12	H	3												S*	<p>010K1.06, Modified,</p> <p>1. Matches the KA</p> <p>2. Why is it necessary to add to the stem the PRZR PRESS REC SEL Switch is selected to P-455? IS this necessary or window dressing?</p> <p>3. Appears to be ok.</p> <p>April 27, 2005</p> <p>COMMENT -</p> <p>RECOMMEND 3RD BULLET, THE PRESSURIZER AUX SPRAY VALVE HAS STARTED LEAKING.</p> <p>ANNUN REMOVE 1C1 AND REPLACE WITH ALB 12.</p> <p>WILL CHANGE AS REQUESTED.</p> <p>INITIALLY, OK LEAVE AS IS.</p> <p>SECOND HALF DOES NOT APPLY TO VOTGLE, NONE OF THE PROCEDURES DIRECTS THEM TO THE MASTER PRESSURIZER CONTROLLER AT ALL.</p> <p>PROPOSAL A AND C BOTH PROV BLOCK VALVES SHUT, AND FOR B AND D, PORV BLOCK VALVE HV 8000 A SHUTS, AND D 8000 REMAINS OPEN.</p> <p>WILL LOOK AT THIS.</p> <p>May 9, 2005</p> <p>WILL ADD HV-8145 TO STEM</p> <p>RELOOK AT THIS AND GET BACK WITH YOU.</p> <p>CHANGED THE SECOND PART OF THE QUESTION TO REMOVE ENSURE, AND JUST STATE "THE" OK</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 S	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
13	H	2-3												S	011EA2.07, New. 1. Matches the KA 2. Appears to be ok. April 27, 2005 COMMENT - 3 RD BULLET, CHANGE THE CREW HAS COMPLETED COLD LEG RECIRC PER 19013-C, "TRANSFER TO COLD LEG RECIRCULATION" WITH THE B RHR PUMP IN OPERATION May 9, 2005 AGREE WITH THE CHANGE. NO FURTHER CHANGES NECESSARY
14	H	3												S	01K1.07, Modified, 1. Matches the KA 2. Question appears to be ok. April 27, 2005 COMMENT - CHANGE SCRAM TO TRIP, ATWT May 9, 2005 OK CHANGES LICENSEE WANTS TO CHANGE 47 TO 51 PERCENT. MARK WILL REVIEW AND CHANGE. AT 47 YOU WOULD ONLY HAVE A DELTA T OF 14 TO 15 DEGREES. 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	Back- ward	Q=	SRO Only		
15	H	3												S	<p>012K2.01, Bank,</p> <p>1. In the stem you use ESFAS, however, you do not use the word "system" for the S in the abbreviation. A minor point, but do we need to add the word system to the stem?</p> <p>2. You provided reference material for the 1AY1A instrument bus, does the 2AY1A bus power the same stuff?</p> <p>3. Otherwise the question appears to be ok.</p> <p>4. Matches the KA.</p> <p>April 27, 2005</p> <p>COMMENT -</p> <p>NO COMMENTS</p> <p>May 9, 2005</p> <p>NO FURTHER COMMENTS.</p>
16	H	3						X						E	<p>013A1.04, New</p> <p>1. Matches the KA</p> <p>2. This question while ok for an SRO may not be good for the RO applicant. Will see what the licensee's comment, may have to change to make it more of an RO level.</p> <p>April 27, 2005</p> <p>COMMENT -</p> <p>IN THE STEM, CHANGE FRH-1 TO 19231-C</p> <p>IN A AND B CHANGE 10% TO 9%. HOT DRY SG RESTRICTED, BELOW 9%,</p> <p>MARK WILL LOOK AT IT</p> <p>LICENSEE WANTS TO LEAVE B AND C AS 10%, IF YOU CHANGE THIS TO 9% THEN CAN IMMEDIATELY DISCOUNT THAT. WANT TO LEAVE B AND C THE SAME AS ORIGINAL.</p> <p>RE REVIEWED, NO CHANGE IS NECESSARY AFTER DISCUSSION WITH MARK AND THE LICENSEE.</p> <p>OK</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 S	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
18	H	3													S	014A1.03, New, 1. Matches the KA 2. Question appears to be ok. April 27, 2005 COMMENT - No alarm that states that! NO DRPI STEPS, ONLY EVERY 6 STEPS. ½ ACCURACY +10 - 4, PROPOSED RE WRITE, WILL PROVIDE A COPY OF THE SUGGESTED REPLACEMENT PROVIDED A FIX TO USE TWO COLUMNS BUT WILL LOOK AT FURTHER. May 9, 2005 REVIEW THIS QUESTION, A NEW ONE WAS DEVELOPED, WILL NEED TO DO THE DISTRACTOR ANALYSIS. FOR THIS QUESTION. WILL LOOK OK
19	H	3-4													S	015G2.4.10, New, 1. Spell out MFRVs. 2. Matches KA, however, the licensee may think it is too hard with out the procedure. 3. Appears to be ok. April 27, 2005 COMMENT - May 9, 2005 CHANGES ARE OK, NO FURTHER CHANGE 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
			Stern Focus S	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q=	SRO Only		
20	H	3												S	017K3.01, Bank 1. Matches KA 2. Question appears to be ok. April 27, 2005 COMMENT - GET RID OF C-1 AND PREFACE WITH ALB 11 CHANGE RCP NUMBERS, May 9, 2005 CHANGED ESSENTIALLY THE SAME AS REQUESTED. NO FURTHER CHANGE NECESSARY
21	M	2-3												S	022K2.01, Bank 1. Matches KA 2. Why would 50.5 seconds be an answer?? 3. Otherwise appears to be ok. April 27, 2005 COMMENT - THE SYSTEM DOES NOT WORK THIS WAY, WOOTF IS THE CORRECT SUBCOOLING VALUE? Propose to change the first sentence to have the transfer switches in their normal at power configuration. PLACE IN NUMERICAL ORDER. May 9, 2005 ADD AT POWER IN THE FIRST SENTENCE. WILL LOOK AT THE RECOMMENDED CHANGE. 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	Back- ward	Q= K/A	SRO Only		
22	M	2-3												S	<p>022K4.01, Bank</p> <p>1. Matches KA</p> <p>2. Appears to be ok.</p> <p>April 27, 2005</p> <p>COMMENT -</p> <p>May 9, 2005</p> <p>CHANGED AS REQUESTED, NO CHANGES NECESSARY.</p> <p>OK</p>
23	M	3												E	<p>024AK2.01, Modified</p> <p>1. In the stem of the question, underline the words emergency boration. This will key the applicants when reading the stem.</p> <p>2. Not sure how or why from the stem you would go to this section? Please explain! Need to ensure the we are asking the correct question.</p> <p>3. Matches KA</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>SEE COMMENTS,</p> <p>CHANGE TO "C" CHANGE FROM TO 100 GPM TO GREATER THAN CHANGE TO "C" LAST BULLET, (8-13 GPM PER PUMP) AFTER 40 GPM. WILL LOOK AT THIS TO SEE THE CHANGE</p> <p>CHANGE STEM TO ADD DIRECTLY IN FRONT OF COOLED BY "A" do not have containment normal cooler, but do have auxiliary cooler.</p> <p>"C" REMOVE EMERGENCY</p> <p>"D" EDG, LUBE OIL HX, THIS IS IN A ROUND ABOUT WAY TO ON PAGE,</p> <p>May 9, 2005</p> <p>WILL LOOK AT THE CHANGES TO THE STEM.</p> <p>OK as changed</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	Back- ward	Q= K/A	SRO Only		
25	H	3					no COM MENT PROB LEMS WITH ORDE R, RICK							E	026AK3.02, Modified 1. Not sure if the logic is correct based on the reference material provided. Will let the licensee look at this and decide if this is the correct response. I don't think it works this way. 2. Matches KA 3. Let the licensee validate for technical accuracy. April 27, 2005 LICENSEE COMMENT - NO COMMENT, May 9, 2005 STILL NO COMMENTS.
26	M	3												S	026K4.09, New 1. Matches the KA 2. Appears to be ok, after some thought April 27, 2005 LICENSEE COMMENT - NO COMMENT May 9, 2005 NO COMMENTS
27	M	2-3										X		U	027AK3.03, Bank, 1. Does NOT match KA. Disagree with the analysis, pressurizer pressure control system malfunction is not the same as loss of forced flow. Discuss with Mark. April 27, 2005 LICENSEE COMMENT - CHANGE, IN STEM UNIT 2 RCS COOL DOWN AT 50DEGREES / HR IN PROGRESS. May 9, 2005 ADDED AS REQUESTED. 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 S	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
28	H	3												S	<p>032AK2.01, Bank 1. Matches KA 2. Question appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT - NOT TECHNICALLY ACCURATE AT VOGTLE, PROPOSE RE WRITE OF QUESTION. LICENSEE WILL RE WRITE. SR DOES NOT DE ENERGIZE ANY MORE.</p> <p>May 9, 2005</p> <p>REWORDED THE QUESTION, WILL TAKE TIME TO LOOK AT AND GET BACK WITH LICENSEE. RICK BRIGDON, WANTS TO HAVE DIFFERENT DISTRACTORS AS COMPARED TO THOSE PROPOSED BY THE OTHER TRAINERS.</p> <p>MARK WILL REVIEW AND CHANGE AS NECESSARY.</p> <p>Ok as changed.</p>
29	H	3												S	<p>034K4.03, New 1. Matches KA 2. Question appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>LOOKING AT RO TEST, ROS DON'T DO THIS ON THE CORE. REWORD QUESTION AND KEEP ON THE KA</p> <p>LICENSEE WILL RE WRITE THIS LICENSEE WILL ATTEMPT TO WORK WITH THIS QUESTION TO MAKE IT MORE CLEAR IN THE SYSTEMS ARENA RATHER THAN THE ADMIN ASPECTS OF THE QUESTION.</p> <p>May 9, 2005</p> <p>WILL REVIEW THE CHANGE,</p> <p>ok as changed</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	Back- ward	Q=			SRO K/A Only
30	F	3												S	<p>036AK1.02, New</p> <p>1. The K in k-effective should be in caps.</p> <p>2. No information for the ICRR plot are provided, need to understand from Mark how this effects the plot. Need to have Mark explain to me.</p> <p>3. Matches KA</p> <p>4. Not sure this is RO knowledge, will leave on the exam and see what the licensee says about it.</p> <p>5. Otherwise, question appears to be ok.</p> <p>6. May be more than memory.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>Last line of the first paragraph, change intermediate to inverse replace ICCR with 1/M in all answer choices, CHANGE B AND D PROPOSE, SAY EMERGENCY BORATION WOULD BE REQUIRED FOR LOSS OF SHUT DOWN MARGIN, VICE LESS THAN 0.95 WITH ALL CONTROL RODS WITHDRAWN. RATHER THAN CHANGING IT WE CAN UNDER LINE EXCEPT SEE THE HARD COPY,</p> <p>May 9, 2005</p> <p>WILL LOOK AT THE CHANGE,</p> <p>ok as changed,</p>

GENERAL COMMENT, THERE SEEMS TO BE A LOT OF ANSWERS THAT ARE AN "A". LOOK INTO THIS TO DETERMINE THE DISTRIBUTION OF ANSWERS.

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		
31	H	3												E	<p>037AK1.02, Bank</p> <ol style="list-style-type: none"> 1. Matches the KA 2. The first three distractors uses "because the", "d" uses due to , make them consistent. 3. Otherwise appears to be ok. <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>AT VOGTLE, CHEMISTRY LEAK RATE NOT THEIR TERMINOLOGY.</p> <p>GET RID OF WORDS CHEMISTRY, AND CALCULATION.</p> <p>CALCULATED AND LEAKAGE, AND CHANGE TO LEAK RATE, AND AS POWER IS LOWERED.</p> <p>SEE HARD COPY CHANGES LOOK OK</p> <p>May 9, 2005</p> <p>WILL ADD PROCEDURE TITLE TO STEM AS REQUESTED.</p> <p>OK AS CHANGED.</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	Back- ward	Q= K/A	SRO Only		
32	F													S	<p>038EA2.17, New</p> <p>1. Provide containment number that is not an adverse number. I don't like telling the applicants it this way.</p> <p>2. I think the licensee will argue that these numbers are not required to know from memory. Was there a learning objective in their training material that stated they need to know this? Will leave in and see what the licensee has to say.</p> <p>3. Matches KA</p> <p>4. Otherwise it appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>RVLS NOT AVAILABLE GET RID OF THIS.</p> <p>WOULD EXPECT THAT THE OPERATORS SHOULD KNOW FROM THE ATTACHMENT, NOT NECESSARILY BY THE PROCEDURE.</p> <p>LICENSEE WILL REWRITE THIS IAW THE ATTACHMENT VICE THE PROCEDURE.</p> <p>May 9, 2005</p> <p>WILL GET BACK TO LICENSEE AFTER WE REVIEW</p> <p>ok as changed.</p>
33	H	3												E	<p>039A4.07, Modified</p> <p>1. Matches KA</p> <p>2. The answer, distractor a, has teaching in it. Take out "due to the loss of turbine load." This is the only distractor that has a "due to" statement.</p> <p>3. Otherwise it appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>NO COMMENTS.</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	Back- ward	Q= K/A	SRO Only		
34	H	3												E	0395.08, New 1. Not sure they use the terminology of "critical approach" may need to reword to "approach to criticality." 2. Matches KA 3. Otherwise the question appears to be ok. April 27, 2005 LICENSEE COMMENT - LAST BULLET, GET RID OF STEAM PRESSURE CONTACT, AND STATE ONLY 'A CONTACT.' WILL LEAVE IT AS IT IS GIVE MTC CURVE OR 10000 Mwd/MTU, WILL CHANGE THAT TO 15 K. THIS WILL GIVE A NEGATIVE MTC. May 9, 2005 LOOKS OK WILL CHANGE LAST BULLET, NO FURTHER REVIEW ok as changed.
General comment, there are a LOT of load rejection questions, appears this is at least the 3 rd or 4 th !															
35	H	3				X								U	041K6.03, NEW 1. Disagree with distractor A analysis. I don't think this is a reasonable distractor. Discuss with Mark, will need another distractor. 2. Disagree with distractor B analysis, maybe we can change the stem to have the ALB-10 alarm come in when the load rejection occurs. After a certain period of time so there is some rod movement. This way they have to think how it relates. And how much bite the rods have at the top of the core, etc. 3. Matches KA April 27, 2005 LICENSEE COMMENT - NO COMMENTS.

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		
37	H													E	<p>054AK3.04, Modified Matches KA</p> <p>1. You could take out the following statements in the distractors and place it in the stem. "Initially the #1 main Feed Water Regulating valve will....." This will make the distractors easier to read.</p> <p>3. Otherwise appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT - SEE ABOVE, ok</p>
38	H	2-3												E	<p>055EK1.02, New Matches KA</p> <p>1. The initial version of the question, distractor b, had the words cool the RCS to match distractor A. This is now NOT the case, should those words be put back in to make symmetry?</p> <p>3. Otherwise it appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT - FLIP STEM AROUND A LITTLE BIT, SEE BELOW OR HARD COPY</p> <p>Change, THE CREW IS PERFORMING XXXXX ECA 01., " , THE FOLLOWING CONDITIONS EXIST WHEN ATTEMPTING TO VERIFY NATURAL CIRCULATION;</p> <p>ADD BULLET "OFF SITE POWER IS <u>NOT</u> AVAILABLE" OK</p> <p>ADD CLOSED AFTER THROTTLE, OK</p> <p>May 9, 2005</p> <p>RECOMMENDED DIFFERENT STEM. ADDED A BULLET FOR THE EDGS, WANTED TO CLARIFY THAT POWER HAD BEEN RESTORED. WILL ADD ALL REQUESTED. NO FURTHER CHANGES NECESSARY.</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
			Stern Focus s	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only	
43	H	3											S	059K3.03, Modified 1. Matches KA 2. Appears to be ok. April 27, 2005 LICENSEE COMMENT - DO NOT USE AUTOMATIC ROD CONTROL AT 100% POWER. COULD NOT TELL WHAT HAPPENS TO THE OTHER FRVS DUE TO LEVEL AND MAIN FEED PUMP SPEED. MAIN FEED PUMP SPEED INCREASES, FOR A AND C MAIN FEED PUMP SPEED DECREASES, FOR B AND D. ADD NO OPERATOR ACTION LICENSEE WILL PROVIDE DISTRACTOR ANALYSIS May 9, 2005 CHANGED THE POWER LEVEL TO 50% BUT NO REASON WHY. DISCUSS WITH LICENSEE. WILL NOT CHANGE THIS AS REQUESTED WILL ADD RODS IN MANUAL. WILL CHANGE TO MAIN FEED PUMP PRESSURE TO DECREASE. ADD NO OPERATOR ACTION NO FURTHER CHANGES, NECESSARY.

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			
44	H	3													U	061A2.08, New Matches the KA 1. Not sure what adverse numbers are for radiation? I guess they are significantly higher than 106 R/hr but am not sure. DID not have that information handy. If it is not that low then the comment is not valid. If it is then the adverse numbers are in effect. And the 29% is below the 32% for the adverse numbers. 3. I do not agree with the answer. Need to discuss with Mark. April 27, 2005 LICENSEE COMMENT - GIVEN THE CONDITIONS, ADD THAT SHS ACTUATED FAILED TO AUTO START IN BULLET 6. ADD S ON THE WORD VALVE REMOVE IMMEDIATELY FROM DISTRACTORS B AND D. May 9, 2005 ADDED THE CHANGES REQUESTED. NO FURTHER CHANGES NECESSARY.
45	F	1-2													S	062A1.01, Bank Matches KA 1. Simple, Trivial, however ok April 27, 2005 LICENSEE COMMENT - PROPOSE, 3 RD BULLET, WOULD ADD A MINUS SIGN (-) OUTPUT VOLTAGE, WOULD CHANGE TO 4090, 50 V ABOVE BUS VOLTAGE. OK WILL CHANGE. May 9, 2005 DID REQUIRED CHANGES.; NO FURTHER CHANGES NECESSARY.

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		
45	H	3											062A3.05, Modified 1. Matches KA 2. Appears to be ok. April 27, 2005 LICENSEE COMMENT - NO COMMENTS.
I have the impression there are MORE Unit 1 than Unit 2 questions. Are these even??													

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	
47	F	3											E	<p>062G2.1.32, New</p> <p>1. The second bullet could be clearer, such as: The pump that was started tripped on overcurrent. Maintenance has cleared the fault and released the pump for operation.</p> <p>2. Each of the distractors has the statement "The 186M electrical lockout relay for the pump to be started..." This could be placed in the stem, thus making the distractors cleaner.</p> <p>3. The KA does not fully match, the KA is to explain or apply system limits and precautions. This question hits the apply part but I do not think it addresses the explain part. Discuss with Mark. Is there a learning objective that requires the applicants to know this? Will see what the licensee says.</p> <p>4. Otherwise it appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>TWO ISSUES, SINGLE PUMP ALIGNMENT REQUIREMENTS.</p> <p>REMOVE 186 m AND ELECTRICAL LOCKOUT RELAY, REMOVE TO BE STARTED.</p> <p>IS THE LOCKOUT RELAY RESET.</p> <p>OK AS REQUESTED. SEE HARD COPY. ADD DOES NOT EXCEED 9500 IN A AND B.</p> <p>July 8, 2005</p> <p>LICENSEE STATES TO HARD, SINGLE PUMP OPERATION, DO NOT DO OFTEN, AVOID IT IF YOU CAN. DON'T THINK THIS WILL DISCRIMINATE AND IT IS AN IN FREQUENTLY DONE EVOLUTION. THEY DON'T DO IT OFTEN.</p> <p>THE SECOND SENTENCE FOR A COULD READ</p> <p>"FOLLOWING PUMP START, THE ACCOW HEAT EXCHANGER INLET VALVE MUST BE POSITIONED TO RESTRICT FLOW TO MAXIMUM ALLOWED FLOW RATE THROUGH THE ACCOW HEAT EXCHANGER."</p> <p>THE LICENSEE RECOMMENDS THE FOLLOWING AND IS OK. FOLLOWING PUMP START SYSTEM FLOW IS ADJUSTED TO LESS THAN 9500 GPM. FOLLOWING PUMP START SUPPLY HEADER PRESSURE IS ADJUSTED TO LESS THAN 93 PSIG.</p> <p>OK</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	Back- ward	Q= K/A	SRO Only	
50	H	3											S*	<p>065AA1.03, Bank 1. Matches KA 2. Add noun name to valve 1HV-9378 3. Take the teaching out of the third bullet, remove the words "thereby isolating instrument air to containment." They should know this information. 4. Why was distractor C worded in the first part as it is? Make it symmetrical like the others. Change the "as a direct result" to "due to" 5. Otherwise ok. However, disagree it is a C/A question, if you don't have the signals memorized and what does what you can not nuke out the answer.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>NO COMMENTS</p> <p>July 8, 2005</p> <p>NO NEW COMMENTS.</p>
51	H	3											S*	<p>068K6.10, New 1. Matches KA 2. Agree with Marks comment for utility to review and provide information about the system. 3. Otherwise ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>PROPOSE COULD NOT FIND DATA TO PROVE EITHER ONE. IN SIMULATOR MAY OR MAY NOT GET A ISOLATION. PROPOSE, OPERATING EXPERIENCE, IT IS VARIABLE, IT MAY HAPPEN ONE TIME OR ANOTHER, ALTERNATE WRITING OF THE QUESTION.</p> <p>MARK CAUTIONED THE LICENSEE TO MAKE SURE THE PREVIOUS EXAMS DO NOT COVER THIS QUESTION.</p> <p>July 8, 2005</p> <p>THE LICENSEE WANTS TO RESEARCH THIS AGAIN. WILL REVISIT</p> <p>OK</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	Back- ward	Q= K/A	SRO Only		
52	F	2-3												E	<p>073K1.01, New</p> <p>1. Matches KA</p> <p>2. Would change the stem to read "WOOTF would cause a CVI if it received a valid trip signal" or words to that effect. As the question sits, those Rad Monitors would not cause a CVI because there is NO initiation signal</p> <p>3. Otherwise OK</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>NO COMMENTS.</p> <p>July 8, 2005</p> <p>NO NEW COMMENTS,</p>
53	F	3												U	<p>076K2.08, New</p> <p>1. Matches KA</p> <p>2. Disagree with validity of distractor A. The applicants will know this is incorrect do to the size of the motors being sequences and the need for that system immediately. They will know that this is a support system and because of this it will not be left on the DG. Need to come up with another distractor.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>MINOR 2 OF THEM</p> <p>C AND D ADD THE WORD APPROXIMATELY IN FRONT OF THE TIMES PROVIDED.</p> <p>July 8, 2005</p> <p>OK AS CHANGED</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	Back- ward	Q= K/A	SRO Only		
54	H	3												S*	<p>078K1.01, New</p> <p>1. KA matches</p> <p>2. Agree with the need for help from licensee. Will accept and see what they can tell us.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>LICENSEE LOOKED BUT COULD NOT TELL EITHER, LOOKED AT P&ID</p> <p>SUPERVISORY AIR DOES HAVE SOMETHING LIKE THAT CONCERNS PRE ACTION FIRE PROTECTION SYSTEM. GIVE IT A TRY. WILL REVIEW THE NEW QUESTION.</p> <p>July 8, 2005</p> <p>WILL REVISIT THE NEW QUESTION</p> <p>ok as changed.</p>
55	H	3												S*	<p>079A2.01, Modified</p> <p>1. KA matches</p> <p>2. Separate the last sentence of the stem to ensure the applicants read this is a Unit 2 question due to the Unit 2 alarms. This will be clearer.</p> <p>3. This maybe to complicated for the RO applicants or it may not be RO knowledge, will default to the licensee to hear their views.</p> <p>4. Otherwise appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>CHANGE 18028 HAS BEEN IMPLEMENTED. OK</p> <p>July 8, 2005</p> <p>MINOR CHANGE, TO STEM, OK AS CHANGED.</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	Back- ward	Q= K/A	SRO Only			
56	H	3													U	086A3.02, Bank Matches KA 1. Do not agree that distractor A is plausible. Under what circumstance would a fire system NOT work. I would think that would be when the actual circuitry was damaged such that the signal did not get where it was supposed to. In this case, we do not provide enough information that would lead you to that conclusion. All the events up to the question are externally generated, loss of D/G, that would not prevent the fire system from working. I think that most fire suppression /detection systems would have DC back up. This distractor has to be replaced. April 27, 2005 LICENSEE COMMENT - NO COMMENTS July 8, 2005 NO ADDITIONAL COMMENTS.
57	F	2-3													S	103K4.06, Bank Matches KA 1. Appears to be ok. April 27, 2005 LICENSEE COMMENT - WORDING? REWORDING IT AS THE RCDT IS ALIGNED TO THE AUX BUILDING FOR LIQUID PROCESSING IF A SI WERE TO OCCUR, HOW WOULD THE DISCHARGE FLOW PATH BE EFFECTED. July 8, 2005 STEM CHANGES OK, AND C WILL ADD DIRECTLY.

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 S	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
58	F	2-3												S	<p>G.2.1.1, New</p> <p>1. Matches KA</p> <p>2. Appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>SEE AS A NON OPERATIONS DUTY, MORE OF AN SRO KNOWLEDGE REQUIREMENT.</p> <p>WILL PROPOSE ANOTHER QUESTION</p> <p>July 8, 2005</p> <p>WILL REVIEW THE NEW QUESTION</p> <p>ok</p>
59	F	2-3												S	<p>G.2.1.23, New</p> <p>1. Matches KA</p> <p>2. Appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>WOULD EXPECT, NO CONTROL ROOM SYMPTOMS, ONLY A REPORT.</p> <p>THINKS THAT THE ROS DON'T HAVE TO KNOW THAT.</p> <p>WILL ASK JIM, IF THIS IS OK OR NOT.</p> <p>THE LICENSEE WILL HOW TO ASK IT MORE ON THE RO LEVEL.</p> <p>July 8, 2005</p> <p>WILL REVIEW THE NEW QUESTION</p> <p>ok</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	Back- ward	Q=	SRO		
60	H	3												S	G.2.1.7, Bank 1. Matches KA 2. Appears to be ok. April 27, 2005 LICENSEE COMMENT - NO COMMENTS July 8, 2005 NO ADDITIONAL COMMENTS
61	F	2-3												S	G.2.2.13, New 1. Matches KA 2. Appears to be ok. April 27, 2005 LICENSEE COMMENT - SRO TYPE KNOWLEDGE, NEED APPROVALS PRIOR TO GETTING THIS DONE. WILL PROPOSE ANOTHER QUESTION. SEQUENCE OF WHAT A TAG OUT CONCERNS. BE CAREFUL NOT TO BE TOO CLOSE TO THE JPM July 8, 2005 REVIEW NEW 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	Back- ward	Q=	SRO Only		
62	H	3												S*	<p>G.2.2.24, New</p> <p>1. Matches KA</p> <p>2. Not sure RO's are required to be able to do this. If the licensee agrees with this question, ok. May need to change this if RO's are not required to know this information.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>REFERENCE PROVIDED, PAGE 1 OF LCO, EXPECT ROS TO KNOW TIMES BUT NOT COMPLETION TIME EXTENSION.</p> <p>PROPOSE A SUBSTITUTE QUESTION, MAINTENANCE CONDITIONS</p> <p>July 8, 2005</p> <p>REVIEW NEW QUESTION</p> <p>ok</p>
63	F	2-3												S	<p>G.2.28, New</p> <p>1. Matches KA</p> <p>2. Appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>NO COMMENT</p> <p>July 8, 2005</p> <p>NO COMMENTS</p> <p>ok</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	Back- ward	Q= K/A	SRO Only		
64	H	3												S	<p>G.2.3.1, New</p> <p>1. Matches KA</p> <p>2. Appears to be ok, however will take some time to calculate the answer. The only memory part of this is at what level and who. Could not change to memory level based on the calculation.</p> <p>3. Ok as it is.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>HP VERIFIED, WHEN ENTER RCA DON'T GET QUARTER IT IS DONE ANNUALLY, WOULD PROVIDE THIS ANNUALLY.</p> <p>HOW DOES THAT AFFECT PLAUSIBILITY IF WE REMOVE THE QUARTERLY DOSES,</p> <p>ONLY GET YEARLY DOSE, NO QUARTERLY DOES NOW.</p> <p>ADD THE 2004 AND THEN PROVIDE THE TOTAL. FOR 2004 THEN DO THE SAME FOR 2005, AND THEN CALCULATE THE POINT SOURCE, INFORMATION RATHER</p> <p>July 8, 2005</p> <p>OK THE WAY MARK CHANGED IT, OK NO ADDITIONAL CHANGES NECESSARY.</p>
65	F	3												S	<p>G.2.3.11, New</p> <p>1. Matches KA</p> <p>2. Appears to be ok.</p> <p>April 27, 2005</p> <p>LICENSEE COMMENT -</p> <p>C AND D, ALL THESE ACTIONS THAT ARE REQUIRED, FROM THE PROCEDURE, WANTED TO REPLACE THE SECOND PART.</p> <p>C IT MAY CONTINUED PROVIDED RELEASE RATES ARE MANUALLY CALCULATED.</p> <p>D IT MAY BE RECOMMENCED PROVIDED THE RELEASE RATES ARE MANUALLY CALCULATED.</p> <p>July 8, 2005</p> <p>OK AS CHANGED, NO ADDITIONAL CHANGES NECESSARY</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	Back- ward	Q= K/A	SRO Only		
66	F	2-3												E	G.2.4.12, New 1. Do not think that distractor D is plausible. There is never a case that this is allowed. It can be written as: the USS is required to state the high level step. The RO and BOP are required to repeat only the high level step and be able to perform all substeps. 2. All other distractors appear to be ok. April 27, 2005 LICENSEE COMMENT - NO COMMENTS July 8, 2005 NO ADDITIONAL COMMENTS.
67	H	3												S	G.2.4.4, Modified 1. Matches KA 2. Appears to be ok. April 27, 2005 LICENSEE COMMENT - NO COMMENTS July 8, 2005 NO ADDITIONAL COMMENTS.
68	F	3											X	U	WE01G2.1.9, Bank 1. Do not believe this matches the KA. The KA is Ability to direct personnel activities inside the control room. The question asks basically what procedure to go to! Not sure how this meets the KA, discuss with Mark. April 27, 2005 LICENSEE COMMENT - NO COMMENTS July 8, 2005 NO ADDITIONAL COMMENTS.

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 S	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
69	F	3												S	WE03EK3.3.01, Bank 1. Matches KA 2. Appears to be ok. April 27, 2005 LICENSEE COMMENT - ON STEP 11 VICE 10 IN THE STEM. WILL CHANGE. July 8, 2005 OK AS CHANGED, NO ADDITIONAL CHANGES
70	F	3												S	WE04EK1.1, Bank 1. Matches KA 2. Appears to be ok. April 27, 2005 LICENSEE COMMENT - NO COMMENTS July 8, 2005 NO CHANGES.
71	F	2-3												E?	WE08G2.4.20, New 1. Matches KA 2. Need to have Mark explain this to me. Maybe ok as is April 27, 2005 LICENSEE COMMENT - NO COMMENTS July 8, 2005 ADDED THE PROCEDURE NUMBER, AND P FOR PUMP IN STEM 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	Back- ward	Q= K/A	SRO Only			
72	F	3													S	WE09EK2.2, New 1. Matches KA 2. Appears to be ok April 27, 2005 LICENSEE COMMENT - MINOR, COMMENT RE ARRANGE THE STEM. SEE HARD COPY. C, ADD WITH SG 1, AND SG 4, . SG 2 AND SG 3 FOR D July 8, 2005 DO NOT NEED THE NUMBER SIGN IN FRONT WILL CHANGE ARV TO PV, CHANGED 27 FROM 25, DID NOT DISCUSS THIS PRIOR TO THE CHANGE. WILL STAY AT 27 AND ADD AND LOWERING. OK
73	H	3													S	WE11EK2.2, Bank 1. Matches KA 2. Appears to be ok. April 27, 2005 LICENSEE COMMENT - NO COMMENTS. July 8, 2005 NO ADDITIONAL CHANGES

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			
74	F	3													S	WE12G2.1.8, New 1. Matches KA 2. Appears to be ok. April 27, 2005 LICENSEE COMMENT - DISTRACTOR RECOMMENDATIONS. A - MORE SPECIFIC, DISPATCH AN OPERATOR TO TAKE LOCAL CONTROL ... B TO MOMENTARILY OPEN BREAKERS. C IT DOES NOT MAKE SENSE FOR THIS CHANGE, CHANGE C TO READ DISPATCH AN OPERATOR TO LOCALLY ISOLATE AIR SUPPLY TO THE HYDRAULIC PUMP ON THE MFW ISOLATION VALVES. July 8, 2005 OK AS IS NO FURTHER CHANGES THEN ABOVE,
75	F	2-3													E	WE16EK2.1, Bank 1. Do not believe it matches the KA 2. Add some information concerning the Containment Radiation to connect to this question. Otherwise it does not meet the KA April 27, 2005 LICENSEE COMMENT - MINOR COMMENT, A. SAY CONTAINMENT URGE AND CONTAINMENT ATMOSPHERE SAMPLE. ALSO ADD CONTAINMENT ATMOSPHERE SAMPLE LINES. July 8, 2005 OK AS CHANGED.

SRO ONLY Questions

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		
1	H	3										X	S	005A2.04, NEW, UNIT 1 1. Matches KA 2. Distractors B and C the second sentence has one to many OPENS. It starts with Ensure open..... open. Remove the first open. 3. Otherwise appears to be ok. Provided no references allowed. July 8, 2005 CHANGE ENTER TO IMPLEMENT THE PROCEDURE, THAT'S OK' ADD A BULLET FUEL IS IN THE VESSEL. Ok
2	H	3										X	S	005AA2.03, New, UNIT 1 1. Matches KA 2. Appears to be ok. 3. What references will be provided? July 8, 2005 DO NOT LIKE THE WORDS, - "There is no verification that a rod control system failure is preventing rod motion." MARK TOOK THIS FROM THE PROCEDURES THE BASIS FOR TS IT HAS BEEN VERIFIED THAT A ROD CONTROL SYSTEM FAILURE IS NOT PREVENTING ROD MOTION. OR WORDS TO THAT EFFECT, SEE THE HARD COPY. WILL ADD THIS TO THE 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
			Stern Focu s	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
3	H	3											X	E	008AA2.22, New, UNIT 1 1. The KA speaks to pressurizer vapor space accident and the consequences of loss of RCS pressure, methods for evaluating pressure loss. Question sort of matches KA, will ask G. Laska 2. Appears to be ok. July 8, 2005 NO CHANGES RECOMMENDED
4	F	2-3											X	S	010G2.2.22, New, UNIT 1 1. Matches KA 2. Appears to be ok July 8, 2005 COMMENTS ARE STRICTLY DIRECTED AT LEVEL OF DIFFICULTY. POSTULATED ACCIDENTS AND ANTICIPATED OPERATIONAL OCCURRENCES. DO NOT HAVE A REPLACEMENT FOR THIS. IS THERE A LEARNING OBJECTIVE, DO NOT KNOW. BELIEVE ½ WILL GET IT RIGHT. NEED AN ALTERNATIVE, NO DECISION WHAT TO DO, NOT TECHNICALLY WRONG, BUT DIFFICULT. 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	Back- ward	Q=	SRO Only		
5	H	2-3											X	S	<p>011EA 2.08, Modified, GENERIC UNIT</p> <p>1. Matches the KA</p> <p>2. Add the learning objective from the lesson plan Obj. #9</p> <p>3. Appears to be ok.</p> <p>July 8, 2005</p> <p>STATE THAT D IS ANOTHER CORRECT ANSWER BASED ON THE WESTINGHOUSE XXX.</p> <p>REWORD D TO READ ENTER ES 1.4, IN 2.5 HOURS TO REFILL THE REACTOR VESSEL DOWNCOMER,</p> <p>MAY BE PLAUSIBLE BECAUSE THE COLD LEG SHOULD BE FULL BASED ON THE INJECTION PATH.</p> <p>WILL CHANGE TO RECOMMENDED, WILL CHANGE C ALSO, WILL DO SOME VERSION OF THIS. TO GET THE SYMMETRY OF THE QUESTION CORRECT.</p> <p>LICENSEE WILL LOOK AT WESTINGHOUSE BASIS DOCUMENT AGAIN TO INSURE THE WORDING IS CORRECT.</p> <p>OK</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	Back- ward	Q= K/A	SRO Only	
6	H	3											E/U	016A2.03, New, GENERIC UNIT 1. Matches KA 2. Not convinced that it is an SRO only question. I think an RO needs to know this also. Discuss with G. Laska. July 8, 2005 NO COMMENTS
7	H	3										X	E/U	022G2.1.12, New, UNIT 1 1. Matches KA 2. In the stem of the question, add the word "the" in between "states and required" 3. Are TS's going to be provided?? If they were then would be easier. 4. If not, then the requirement for knowing the 72 hour TS would be unreasonable. Therefore, I don't think that distractor b is plausible. 5. Otherwise question appears to be ok July 8, 2005 NO COMMENTS. OK AS IS

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		
8	H	3											X	S	026G2.4.28, New, UNIT 1 1. Matches KA 2. Appears to be ok. July 8, 2005 OUT OF A STUDENT TEXT, WHICH ARE PROVIDED, HAVE A TREMENDOUS AMOUNT OF INFO, SUPPLEMENTAL INFORMATION TO WHAT THEY NEED TO KNOW. WHAT THIS IS DESCRIBING SYSTEM ALIGNMENT, DIFFICULTY LEVEL HIGHER THAN REQUIRED FROM MEMORY, RO QUESTION # 6, EXCESSIVE COOLDOWN RATES, MAY CAUSE THE APPLICANT TO SELECT THE INCORRECT ANSWER IN THIS ANSWER. NO REPLACEMENT RECOMMENDED AS YET. MAY COULD USE RO 62 THAT WAS REQUESTED REPLACEMENT OF, SEE IF CAN RE RELATE TO CCW AND RHR. OK
9	H	2-3												S	029EA2.05, NEW, UNIT 1 1. Matches KA 2. Appears to be ok July 8, 2005 NO COMMENTS,
10	H	3		X									X	U	035G2.1.20, Modified, UNIT 1 1. Matches KA 2. Not sure that distractor a is totally correct. When you read the basis, the answer is for all S/G leakage of 1gpm. The situation provided only has a total S/G leak rate of .9 gpm. Discuss with mark. 3. July 8, 2005 NO COMMENTS


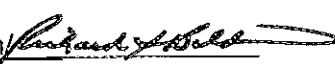
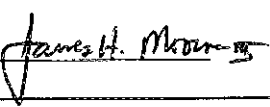
Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws				4. Job Content Flaws			5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward		
11	H	3				X						X	U

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
14	H	2											X	S	067G2.4.28, New, UNIT 2 1. Matches KA 2. Appears to be ok, but it is kind of trivial 3. More of a memory level question, but can stay as a low level C/A July 8, 2005 BELIEVE THE ANSWER IS NOT CORRECT. THINK THAT B IS CORRECT. CONCERNED THAT THE APPLICANTS WILL BE DRAWN INTO THE EPLAN. OTHERWISE THEY WILL GET IT WRONG. MARK IS WILLING TO CONSIDER TO ADD TO THE STEM THE MOST LIMITING OF THE TWO PROCEDURES, EPIPS AND 0152-C WILL HAVE BOB BROWN LOOK AT THIS TO GET HIS PERSPECTIVE.
15	H	2											X	E	069G2.1.33, New, UNIT 1 1. Matches KA 2. Appears to be ok, however, more of a F because there is no information in the stem that will help you figure out the answer. Either you know it or you do not. Discuss with Mark. July 8, 2005 NO COMMENTS


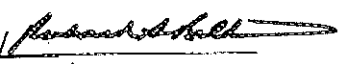
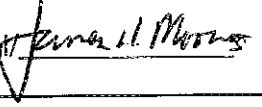
Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws						4. Job Content Flaws			5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q=	SRO		
16	H	3												E	072A2.02, New, UNIT 1 1. Matches KA 2. The question concerns itself with RE-003, however, the KA explanation talks about RE-02. Is this correct or a typo? 3. Correct answer is not marked on the question. 4. Is this question going to have a reference? If not they are going to have a problem July 8, 2005 NO COMMENT
17	F	3												S	074G2.4.6, Modified, GENERIC UNIT 1. Matches KA 2. Question appears to be ok. I would suggest to indent the two steps you are asking about. It is kind of hard to read when it aligned with the left margin. July 8, 2005 NO COMMENTS
18	F	2-3							X				X	E	076G2.4.11, New, GENERIC UNIT 1. Matches KA 2. I read the procedure and see the answer but, what happens when the DG is placed in the "Maintenance Mode?" 3. The answers are misleading because they are stops in the DG procedure, and you are asking the question about the loss of nuclear service water. This maybe a minutia problem. 4. Will see what the licensee has to say about it. July 8, 2005 NORMAL NAME PULL TO RUN PUSH TO STOP PUSH BUTTON, WANT TO CHANGE IT TO THIS. CHANGE THE NAME TO ADD IN PARENTHESIS, THE ABOVE NAME.

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=	SRO	Only		
19	H	2-3												X	E?	<p>G2.1.14, New, UNIT 1</p> <p>1. Matches KA</p> <p>2. Not sure the SRO's are required to know this from memory, and if you give them the procedures, then it will be a direct look up. Will see what the licensee says.</p> <p>3. Seems like it would be more of a memory question.</p> <p>July 8, 2005</p> <p>NO COMMENTS.</p>
20	H	3												X	S	<p>G2.2.21, New, GENERIC UNIT</p> <p>1. Matches KA</p> <p>2. This is more a memorization, there is nothing in the stem that can be used to determine the answer. Discuss with Mark</p> <p>3. Question appears to be ok as a fundamental question.</p> <p>July 8, 2005</p> <p>ADD EITHER IST OR INSERVICE TEST AFTER FLOW CAPACITY PERFORMANCE TEST WILL DO THIS.</p>
21	H	3													E	<p>G2.2.7, New, GENERIC UNIT</p> <p>1. Matches KA</p> <p>2. In the stem procedure 00056 should have a "c" behind it.</p> <p>3. Distractor a does not appear to be plausible. The definition of a screening is to determine if a 50.59 evaluation should be done.</p> <p>4. Try to add the terminology of "Screened Out" for distractor a, as seen on page 4 of 32 of the procedure.</p> <p>July 8, 2005</p> <p>NO COMMENTS</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	Back- ward	Q=	SRO		
22	F	2-3												E	G2.3.6, New, Both Units 1. Matches KA 2. Add to the stem the procedure names and numbers this is under. This will prevent the applicants from saying that you could do it IAW some other procedure we don't know about. 3. Otherwise appears to be ok. July 8, 2005 Lee BELIEVES ITS OBSCURE, HOWEVER, RICK STATES THEY DO IT WITH THE PERMISSION. WILL LEAVE AS IS.
23	H	3												E	G2.4.16, Bank, UNIT 1 1. Matches KA 2. I don't like the word HALT in distractors c and d. Change back to STOP. 3. Otherwise it appears to be ok. July 8, 2005 MINOR CHANGES. ALREADY FIXED. SEE QUESTIONS FOR CHANGES. ADDED PROCEDURE NUMBERS TO THE DISTRACTORS.
24	F	2-3											X	S	G2.4.44, New, GENERIC UNIT 1. Matches KA 2. Appears to be ok July 8, 2005 UNDERLINED MINIMUM NO OTHER CHANGES.

Facility: Vogtle		Date of Exam: May 2005		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	MB	NA	Rob		
2. Answer key changes and question deletions justified and documented	MB		Rob		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	MB		Rob		
4. Grading for all borderline cases (80 \pm 2% overall and 70 or 80, as applicable, \pm 4% on the SRO-only) reviewed in detail	MB		Rob		
5. All other failing examinations checked to ensure that grades are justified	MB		Rob		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	MB		Rob		
Printed Name/Signature			Date		
a. Grader	Mark A. Bates/ 			06.10.2005	
b. Facility Reviewer(*)	N/A				
c. NRC Chief Examiner (*)	Richard S. Baldwin/ 			06/10/05	
d. NRC Supervisor (*)	James H. Moorman III/ 			6.10.05	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Written Examination Grading
Quality Checklist

Facility: Vogtle		Date of Exam: May 2005		Exam Level: RO/SRO		
Item Description	Initials					
	a	b	c			
1. Clean answer sheets copied before grading	MB	NA	POB			
2. Answer key changes and question deletions justified and documented	MB		POB			
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	MB		POB			
4. Grading for all borderline cases (80 \pm 2% overall and 70 or 80, as applicable, +4% on the SRO-only) reviewed in detail	MB		POB			
5. All other failing examinations checked to ensure that grades are justified	MB		POB			
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	MB		POB			
Printed Name/Signature			Date			
a. Grader	Mark A. Bates 			06.10.2005		
b. Facility Reviewer(*)	N/A					
c. NRC Chief Examiner (*)	Richard S. Baldwin 			06/10/05		
d. NRC Supervisor (*)	James H. Moorman II 			6-10-05		
(*) 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: <u>___Vogtle__</u> Date of Examination: <u>_____05/17-25/05 & 05/27/05_____</u>	
Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	06/06/05
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	06/09/05
3. Operating tests graded by NRC examiners	06/10/05
4. NRC chief examiner review of operating test and written exam grading completed	06/10/05
5. Responsible supervisor review completed	06/16-20/05
6. Management (licensing official) review completed	06/16-20/05
7. License and denial letters mailed	06/20/05
8. Facility notified of results	06/16 and 06/20/05
9. Examination report issued (refer to NRC MC 0612)	7/5/05
10. Reference material returned after final resolution of any appeals	NA