

# Administrative Documents

(Yellow Paper)

NORTH ANNA 2006-302

RETAIL

RO Written

SRO ADMIN

1. Exam Preparation Checklist ..... ES-201-1 ✓
2. Exam Outline Quality Checklist ..... ES-201-2 ✓
3. Exam Security Agreement(s) ..... ES-201-3 ✓
4. Administrative Topics Outline (Final) ..... ES-301-1 ✓
5. Control Room Systems & Facility Walk-through Test Outline  
(Final) ..... ES-301-2 *NA*
6. Operating Test Quality Check Sheet ..... ES-301-3 ✓
7. Simulator Scenario Quality Check Sheet ..... ES-301-4 *NA*
8. Transient and Event Checklist ..... ES-301-5 *NA*
9. Competencies Checklist ..... ES-301-6 *NA*
10. Written Exam Quality Check Sheet ..... ES-401-6 ✓
11. Written Exam Review Worksheet ..... ES-401-9 ✓
12. Written Exam Grading Quality Checklist ..... ES-403-1 ✓
13. Post-Exam Check Sheet ..... ES-501-1 ✓
14. Facility Submittal Letters ..... [✓]

Facility: <u>North Anna 2006-302</u>		Date of Examination: <u>11/13/2006</u>
Examinations Developed by:		NRC
Facility		
Written / Operating Test		Written / Operating Test
Target Date	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	GWL 08/16/2006
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	GWL 08/16/2006
-120	3. Facility contact briefed on security and other requirements (C.2.c)	GWL 08/16/2006
-120	4. Corporate notification letter sent (C.2.d)	8/17/2006
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	GWL 09/29/2006
{-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)	GWL 08/29/2006
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	GWL 09/05/2006
{-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)	GWL 09/29/2006
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	GWL 10/13/2006
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	GWL 10/31/2006
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	GWL 10/31/2006
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	GWL 10/31/2006
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	GWL 11/06/2006
-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)	GWL 11/06/2006
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	GWL 11/06/2006
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	GWL 11/06/2006

\* 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.

Facility: <u>North Anna RETAKE 2006-302</u>		Date of Examination: <u>11/15/06</u>		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	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.			
	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.			
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and that scenarios will not be repeated on subsequent days.			
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.			
3. W / T	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form (3) no tasks are duplicated from the applicants' audit test(s) (4) the number of new or modified tasks meets or exceeds the minimums specified on the form (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.	SC	WS	
	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	SC	WS	JS
	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.	SC	WS	JS
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.	SC	WS	JS
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	SC	WS	JS
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	SC	WS	JS
	d. Check for duplication and overlap among exam sections.	SC	WS	JS
	e. Check the entire exam for balance of coverage.	SC	WS	JS
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	SC	WS	JS
a. Author	<u>Keith Link</u> Printed Name/Signature <u>Reviewed for K Link</u>			Date: <u>11/6/06</u>
b. Facility Reviewer (*)	<u>Walt Shura</u> <u>Walter Shura</u>			<u>11/6/06</u>
c. NRC Chief Examiner (#)	<u>GERARD W. LASKA</u> <u>Gerard W. Laska</u>			<u>11/27/06</u>
d. NRC Supervisor	<u>James H. Moore</u> <u>James H. Moore</u>			<u>11/07/06</u>
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

**Dominion Generation**  
North Anna Training Center  
1022 Haley Drive, Mineral, VA 23117



**Mailing Address:**  
P.O. Box 402, Mineral, VA 23117

November 30, 2006

Mr. Gerard Laska  
Senior Operations Engineer  
USNRC Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23T85  
Atlanta, Georgia 30303-8931

Dear Mr. Laska:

The attached updated and final document Form ES-201-3, Examination Security Agreement, is being submitted for the Reactor Operator and Senior Reactor Operator examination conducted at North Anna Power Station on November 14-15, 2006. This document includes the sign in and closure signatures (some obtained via telecom) for the examination security documentation associated with the examination process.

Thank you for your cooperation in this matter. If you have any questions regarding this submittal, please contact me at (540) 894-2479, (Internet E-mail: [walt\\_shura@dom.com](mailto:walt_shura@dom.com)).

Sincerely,

A handwritten signature in black ink that reads "Walter F. Shura".

Walter F. Shura  
Supervisor Nuclear Training

Enclosures

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 11/13/06 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 11/13/06. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

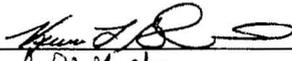
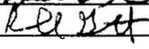
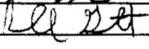
PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. Denise Tiblis	Sr. Instructor/Assistant	Denise Tiblis	8/19/06	Denise Tiblis	11/27/06
2. Joseph B. SCOTT	SUPV OPS TRAINING	Joseph B. Scott	8/10/06	Walt Shura for part on 11/30/06	
3. Walt Shura	Supv ops training oversight	Walt Shura	8/14/06	Walt Shura	11/10/06
4. Brenda Parrish	Admin/Proc Mgt	Brenda Parrish	8/21/06	Brenda Parrish	11/15/06
5. I. EITH LINK	ADMIN JFMS	I. Eith Link	8-22-06	I. Eith Link	11-15-06
6. Steve Crawford	Instructor / Exam reviewer	Steve Crawford	8-24-06	Steve Crawford	11-15-06
7. David Starkard	Instructor / Exam reviewer	David B. Starkard	9/21/06	David B. Starkard	11/16/06
8. Khalid	Developer	Khalid	9/21/06	Walt Shura for part on 11/16/06	
9. Arthur Stapp	Control Room Op / Exam Review	Arthur Stapp	9/26/06	Arthur Stapp	11-29-06
10. Grace A. Dennis	NLO Instructor / Exam Review	Grace A. Dennis	9/21/06	Grace A. Dennis	11/15/06
11. Rick Wesley	Supv. Shift Ops / Exam review	Rick Wesley	9/26/06	Rick Wesley	11/28/06
12. Patrick French	SRO Exam Review	Patrick French	9-26-06	Patrick French	11-29-06
13. Rich Pickering	RO Exam Review	Rich Pickering	9-27-06	Rich Pickering	11-15-06
14. CONNIE ARMSTRONG	TRAINING ADMINISTRATOR	Connie Armstrong	9-28-06	Connie Armstrong	11/15/06
15. Lee Kelly	SRO	Lee Kelly	11/3/06	Lee Kelly for L. Kelly for telecon	11/30/06

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 11/13/06 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 11/13/06. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1.	KEVIN BLEVINS	CRO / VALIDATION		11/7/06		11/29/06
2.	RANDALL GARRETT	Instructor / Proctor		11/14/06		11/16/06
3.						
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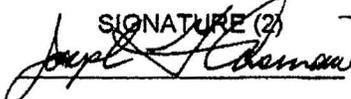
NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 11/14/2006 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 (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 11/14/2006. 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.	JOSEPH ARSENAULT	AUTHOR		8/22/06		11/15/06	1
2.							
3.							
4.							
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NOTES: 1. DUPLICATE COPY – North Anna

FINAL

ES-301, Rev. 9

Administrative Topics Outline

Form ES-301-1

38

Facility: <b>North Anna Power Station</b>		Date of Examination: <u>11-15-06</u>
Examination Level (circle one): <b>SRO</b>		Operating Test Number: <b>1</b>
Administrative Topic (see Note)	Type Code* KA	Describe activity to be performed
Conduct of Operations	N, CLR 015-A1.04 (3.5/3.7)	<b>1-PT-23, QUADRANT POWER TILT RATIO DETERMINATION</b> Review for completeness (faulted) and apply correct TS Action.
Conduct of Operations	M, CLR GEN 2.1.25 (2.8/3.1)	<b>1-FP-I.3, RESPONSE TO VOIDS IN REACTOR VESSEL</b> Calculate head vent time
Equipment Control	M, S GEN 2.2.12 (3.0/3.4)	<b>1-PT-80 AC SOURCES OPERABILITY VERIFICATION</b> Determine surveillance is unsat and apply correct TS Action.
Radiation Control	N, CLR GEN 2.3.4 (2.5/3.1)	<b>ASSESS PERSONNEL EXPOSURE</b> Determine if a respirator should be worn during the performance of a task.
Emergency Plan	N, CLR, P GEN 2.4.29	<b>EPIP-1.01 EMERGENCY MANAGER CONTROLLING PROCEDURE</b> Determine highest EPIP classification.
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) Control Room (CLR) Classroom (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) (Similar Topic) (S)imulator		

Facility: North Anna		Date of Examination: 11/15/06		Operating Test Number:	
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).	OK	US	JS	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	N/A OK	N/A US	N/A	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	OK	AS	JS	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	N/A OK	N/A US	N/A	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	OK	AS	JS	
2. Walk-Through Criteria		a	b*	c#	
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> <li>initial conditions</li> <li>initiating cues</li> <li>references and tools, including associated procedures</li> <li>reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee</li> <li>operationally important specific performance criteria that include: <ul style="list-style-type: none"> <li>detailed expected actions with exact criteria and nomenclature</li> <li>system response and other examiner cues</li> <li>statements describing important observations to be made by the applicant</li> <li>criteria for successful completion of the task</li> <li>identification of critical steps and their associated performance standards</li> <li>restrictions on the sequence of steps, if applicable</li> </ul> </li> </ul>	OK	US	JS	
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.	OK	US	JS	
3. Simulator Criteria		a	b*	c#	
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.		N/A OK	N/A US	N/A	
	Printed Name / Signature	Date			
a.	Author Keith Link	11-3-06			
b.	Facility Reviewer(*) Walt Shura	11-3-05			
c.	NRC Chief Examiner (#) GERARD W. LASKA	11/06/06			
d.	NRC Supervisor James H. Moberman, III	11/07/06			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.					

*FINAL*

Facility: North Anna		RETAKE 2006-302		Date of Exam: 11/14/06		Exam Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>	
Item Description	Initial						
	a	b*	c <sup>#</sup>				
1. Questions and answers are technically accurate and applicable to the facility.	SC	WS	JS				
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	SC	WS	JS				
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	NA	WS	NA				
4. The sampling process was random and systematic (If more than 4 RO or 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL program office).			JS				
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	SC	WS	JS				
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	SC	WS	JS	
	32 / na	1 / na	42 / na				
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		SC	WS	JS	
	32 / na 42.67%	43 / na 57.33%					
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	SC	WS	JS				
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.	SC	WS	JS				
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	SC	WS	JS				
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.	SC	WS	JS				
		Printed Name / Signature		Date			
a. Author	Steve Crawford		<i>[Signature]</i>	11/06/06			
b. Facility Reviewer (*)	Walt Shura		<i>[Signature]</i>	11/06/06			
c. NRC Chief Examiner (#)	GERARD W. LASICA		<i>[Signature]</i>	11/07/06			
d. NRC Regional Supervisor	James H. Mobray III		<i>[Signature]</i>	11.7.06			
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer Initial Items in Column "c"; chief examiner concurrence required.							

FINAL

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			
<p>Instructions</p> <p>[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]</p> <p>1. Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level.</p> <p>2. Enter the level of difficulty (LOD) of each question using a 1 – 5 (easy – difficult) rating scale (questions in the 2 – 4 range are acceptable).</p> <p>3. Check the appropriate box if a psychometric flaw is identified:</p> <ul style="list-style-type: none"> <li>• The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information).</li> <li>• The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc).</li> <li>• The answer choices are a collection of unrelated true/false statements.</li> <li>• The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable.</li> <li>• One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem).</li> </ul> <p>4. Check the appropriate box if a job content error is identified:</p> <ul style="list-style-type: none"> <li>• 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).</li> <li>• 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).</li> <li>• The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons).</li> <li>• The question requires reverse logic or application compared to the job requirements.</li> </ul> <p>5. <u>Check questions that are sampled</u> for conformance with the approved K/A and those that are <i>designated SRO-only</i> (K/A and license level mismatches are unacceptable).</p> <p>6. Based on the reviewer's judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory?</p> <p>7. At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met).</p>																
1	H	2												S	002K3.03 Question appears to match K/A. <b>BANK</b>	

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				
2	F	2	X				X									U/S	003A1.03 Question appears to match K/A. All the distractors can be considered correct. Stem should read "Which ONE of the following describes the effect on RCP temperatures, and the action that is required to mitigate the event" or something similar. Also need to work on how to make the distractors incorrect. Need to rework question. <b>NEW</b>  <b>Changed all exceeds to reaches and all when to IF. Question Sat. 10/31/2006.</b>
3	H	2	X													U/S	003AA2.04 Question appears to match K/A. Will NI's actually reach these values? Does the plant have a positive or negative flux trip? If it does the reactor will trip before these conditions can be reached. Need to verify that the plant could actually get to these conditions with only one dropped rod. <b>NEW</b> .  Added assume Rx does not trip and no operator actions. SAT.10/31/2006.
4	F	2				X (2)										E/S	003K6.04 Question appears to match the K/A. Very simple What is the PDTT, is this a credible distractor. <b>BANK</b>  PDTT is the same as RCDT.SAT 10/31/2006.
5	H	3														S	004K5.35 Question appears to match the K/A. SAT <b>NEW 10/31/2006.</b>

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	2												S	005K5.02 Kind of matches K/A, NPSH relates to subcooling. <b>BANK</b> <b>10/31/2006.</b>
7	<b>F</b>	2												S	006K6.19 Question appears to match K/A. Question is actually at the fundamental level. If you took the conditions in the top of the stem and placed them in the Which ONE of the.....statement the question would be the same. SAT <b>NEW</b> . <b>10/31/2006.</b>
8	H	2				X								E/S	007A3.01 Question appears to match the K/A. simple What is the PDTT, is this a credible distractor. <b>BANK</b> SAT <b>10/31/2006.</b>
9	F	2												S	007EA2.05 Question appears to match the K/A. Kind of simple, but matches K/A. SAT <b>NEW</b> <b>10/31/2006.</b>
10	H	2				X (2)								U/S	007K3.01 Question appears to match K/A. What makes the distractors credible. Need to have some numbers that are variations of the psia/psig relationship. The correct answer is the only answer with a .something in it. Fix distractors to make others plausible. ( the set point should be a distractor also. <b>NEW</b> Changed as requested. All distractors changed. <b>10/31/2006.</b>

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	F	2				X (2)									U/S	008A4.07 Question appears to match K/A. If primary grade water is not able to be sent to the CC Surge tank then distractors A and B are not credible. (What is the back up source for makeup to the CC surge tank). <b>NEW</b>  Changed Primary grade water to service water. <b>SAT. 10/31/2006.</b>
12	H	2				X (2)									U/S	008AA1.02 Question appears to match K/A. Due to the way the stem is worded, distractors A and D are not credible. The stem states in accordance with ES-1.2 Continuous Action Page. Only two of these items are on the continuous action page. Need to reword stem to allow distractors A and D to become credible. <b>NEW.</b>  Took out Continuous Action Page. <b>SAT.10/31/2006.</b>
13	H	2				X									E/S	009EK3.27 Question appears to match K/A. Distractor D as written is not credible. The reason that is listed in the distractor analysis is much more credible. Use it. Otherwise question is SAT. <b>(Minimize subcooling to maintain pressurizer level above the lower limit to allow pressurizer heater operation to reduce the rate of increase of pressurizer level) BANK</b>  Changed D. <b>SAT 10/31/2006.</b>
14	F	3													S	010K2.02 Question appears to match K/A. <b>SAT NEW.</b>

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				
15	H	3				X (3)										U/S	012A2.07 Question appears to match K/A. Distractors need some work. Distractor A second part, to make this credible put some actions listed in ARP. What other annunciators would come in based on a DC power supply failure? Distractors need some work. <b>BANK</b>  Changed Distractor A, as requested. <b>10/31/2006.</b>
16	H	2														S	012A3.05 Question appears to match K/A. SAT <b>BANK</b>  <b>10/31/2006.</b>
17	H	3														S	013A1.06 Question kind of matches K/A. SAT <b>BANK</b>  <b>10/31/2006.</b>
18	H	2				X (2)										E	014K5.02 Question appears to match K/A. Distractors C and D do not appear to be credible. Why would anyone think that the reactor would trip, and that only 2 group step counters would reset to zero. Work on C and D distractors.  Changed distractors C and D. SAT <b>10/31/2006.</b>
19	H	2														S	015AA1.07 Question appears to match K/A. SAT. <b>NEW</b>

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		
20	F	1											X		U  S 017K1.01 Question does not meet the K/A. The K/A is for the Core Exit Thermocouple system and the knowledge of the physical connections and or cause-effect relationships between the system and the plant computer. Needs to be written to match K/A. <b>NEW</b>  Changed question, may sure C is not correct. Otherwise SAT. <b>10/31/2006.</b>
21	H	2													S 022K3.02 Question appears to match K/A. SAT <b>BANK</b>
22	H	2													E 022AK 3.05 Question appears to match K/A. How does a loss of power render the blender inoperable. Is this credible? Otherwise question appears to be sat. Is this based on procedure guidance? <b>NEW</b> . Blender is the terminology used at North Anna. Question is SAT.  <b>10/31/2006.</b>
23	H	2													E 025AA1.03 Question kind of matches K/A. Use of the word "Preferred" in the stem should be avoided because if it is preferred, it is not required. Maybe use IAW AP11. Otherwise SAT. <b>NEW</b>  Changed A and C distractors. SAT <b>10/31/2006.</b>
24	F	2													S 026A4.01 Question appears to match K/A. SAT <b>BANK</b>

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	2												E/S	027AK2.03 Question appears to match K/A. An applicant could by knowing that one of the channels opens the sprays and a PORV could discount distractor A. Try something like this: (A) Initiate an open signal to both spray valves and 1455C (B) Initiate an open signal to both spray valves and 1456C (C) Initiate an open signal to 1455C ONLY (D) Initiate an open signal to 1456C ONLY Changes made as requested. SAT <b>10/31/2006</b> .
26	H	2												S	029A4.04 Question appears to match K/A. Fuel building is capitalized in A, and Containment is not in C. They should be the same. Pick one. Otherwise SAT. <b>NEW</b>

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			
27	F	2	X			X									U/S	029EG2.2.22 Question kind of matches K/A. The knowledge of limiting conditions for operation as well as safety limits are not being tested. This is a good attempt. C and D have ATWS in the distractor and ATWS is stated in the stem which directs the applicant to either C or D. The applicant need only know that AMSAC trips the turbine. Needs some work. <b>NEW</b>  The first A in AMSAC stands for ATWS. Page 33 of 49 Topic 7.1 Reactor Protection System lesson plan 77-A.  Changed all distractors. Question SAT. <b>10/31/2006.</b>
28	F	2													E/S	033K5.04 Question appears to match K/A. This is one way that SDM is being maintained there are other ways to prevent criticality such as fuel placement, boron spacers Boroflex panels , etc. <b>NEW</b>  <b>SAT. 10/31/2006.</b>
29	H	2													S	034A4.02 Question appears to match K/A. SAT <b>NEW</b>
30	F	2										X			U S	035K4.03 Question appears to match a portion of the K/A*, the reset of these signals is not tested. Can this be put into the question? <b>NEW</b>  Rewrote Question SAT. <b>10/31/2006.</b>

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	F	2												E/S	036AA1.04 Question kind of matches K/A. The AP calls for a safe location. Need to make sure that the other locations are not "safe". Otherwise SAT. <b>NEW</b>  Left as is. SAT <b>10/31/2006.</b>
32	F	2												E/S	038EA2.16 Question matches K/A Not sure D is totally credible, might use open two PORVs. E-3 does not direct opening 2 PORVs so it would be plausible and wrong. <b>NEW</b>  Replaced distractor D SAT <b>10/31/2006.</b>
33	H	2				X								U/S	039A2.05 Question appears to match K/A. Distractors C and D are not credible. Even if the the main turbine was in imp out reactor power will increase some what due to the inefficient dumping of steam straight to the condenser. Attempt to word question using Mwe to further differentiate right from wrong. <b>NEW</b>  Changed to power down. SAT <b>10/31/2006.</b>
34	F	2												E/S	039K1.04 Kind of matches K/A, no mention of RCS temperature although that is what is being controlled. Low level of discrimination. Look at using tave-tref and tave and t-no-load. <b>BANK</b>  Changed as requested. SAT <b>10/31/2006.</b>  (May look as getting rid of fill in the blanks.)

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			
35	H	2					X								U	045A2.12 Question matches K/A. Do rods have to be withdrawn in manual after the RCS boration? The AR states to manually withdraw control rods. If this is correct, manual needs to be in the distractors. This question could also be considered as memory for actions contained in the AR. <b>NEW</b>  Changed as requested. SAT <b>10/31/2006</b> .
36	H	2													E/S	056AK1.03 Question appears to match K/A. No value was determined from an incorrect use of RCS pressure (1865). This would make a good distractor along with Thot, and CETCs . Attempt to place a value based on this for one of the distractors. <b>NEW</b>  Changed answers as requested. SAT. <b>10/31/2006</b> .
37	F	1					X								U S	056G2.1.30 Question kind of matches K/A. If suction pressure decreases, so will discharge pressure, therefore D could be considered correct.  This question is very simple, is there not something that is controlled locally like a start stop switch or breaker that could be operated on a control room evacuation or plant fire? <b>BANK</b>  Replaced Question. SAT <b>10/31/2006</b> .

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			
38	H	2													S	057AA2.15 Question appears to match K/A. Kind of simple. <b>NEW</b> .  (Could any of the associated control signals cause a reactor trip allowing B to be correct)?  Underlined Initial. SAT <b>10/31/2006</b> .
39	F	2				X							X		U	058AK1.01 Question does not appears to match K/A. There is no loss of DC power. Distractor D does not appear to be credible. <b>NEW</b> Rated as a fundamental knowledge, This question could be asked by Just using the stem without the conditions. <b>NEW</b>  <b><i>Continue to work on New Question.10/31/2006.</i></b> Developed question during session need to review but appears to match K/A.
40	F	2			X										U/S	059K1.03 Question kind of matches K/A. This question is asking what does P-14 do? Maybe a reason why would help tie it to the K/A better. <b>NEW</b> This is a fundamental level question. If you took away the stem you could ask which one of the following is correct and the answer would be the same. <b>NEW</b>  Changed Question as requested. SAT <b>10/31/2006</b> .

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			
41	H	2					X								E/S	059K3.02 Question appears to match K/A. Where does the FF to the SG get measured. If the leak was down steam of these flow measurement devices then the FF/SF mismatch would not be seen and no reactor trip will occur, and C would be the correct answer. <b>NEW</b>  Detectors are not in the turbine building. SAT <b>10/31/2006.</b>
42	F	2													E/S	061AK1.01 Question appears to match K/A. Very simple. Use a value higher than E-7 so that some knowledge is tested. (One could get this correct just by guessing the highest value listed must be correct. <b>NEW</b>  Changed as requested. SAT. <b>10/31/2006.</b>
43	H	2													E/S	061K6.02 The sample plan has this K/A listed as 061K6.08 which has an importance factor of 2.1 for ROs. The question is actually written to 061K6.02 which has an importance factor of 2.6 for ROs. Does the turbine driven if it starts feed all three steam generators? Some assumptions need to be taken as written. Leave the K/A as is (061K6.02) and ensure that the correct answer is the only correct answer. <b>NEW</b>  SAT as written <b>10/31/2006.</b>

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	2	X			X		X							U/S	062AG2.4.6 Question appears to match K/A. However, the step in E-0 states if less than 4 service water pumps are running then ensure Unit 2 operator initiates 0-AP-47. This is different than the correct answer in the question. Need to find a resolution. Maybe you sent me the incorrect reference. <b>NEW</b>  Wrong reference sent. Replaced distractor B, reordered distractors. SAT <b>10/31/2006</b> .
45	H	2													S	062K2.01 Question appears to match K/A SAT. <b>BANK</b>
46	H	2	X										X		U	063K2.01 Question does not really meet the K/A. The K/A asks for the knowledge of electrical power supplies to Major DC loads. By stating that DC power was loss to the 2J bus (I understand that control power could be considered a major DC load) but all the question requires is that the applicant know what comes off of 2J AC bus.  Furthermore can you have a loss of DC power to only one bus. Can this be verified? This question requires some more work. <b>BANK</b>  Changed control power to a loss of DC bus 2-III and allowed the applicant to understand what loads were lost.  Work on later. <b>10/31/2006. SAT 10/31/2006.</b> (After modifications).

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	H	2													S	064A3.01 Question appears to match K/A The distractor analysis states that D is the correct answer. Although the check is on B, and the explanation supports selection B. If B is the correct answer, then question appears to be SAT. <b>NEW</b>  SAT B is correct. <b>10/31/2006.</b>
48	H	2											X		U/S	065AG2.1.23 This question is based on a note at the beginning of AP-28, and with pressurizer level approaching this level the reactor should be tripped. I am not sure this meets the intent of the K/A. If any other scenario was taking place or if nothing else was taking place, this still would be the correct action to take. I believe the intent of the K/A is to show the ability to perform actions IAW a Loss of instrument air, not a loss of pressurizer level unless they are related. <b>NEW</b>  Changed stem initial conditions. SAT. <b>10/31/2006.</b>
49	F	2											X		U/S	069AK1.01 Question does not really meet the K/A there is not a loss of containment integrity involved. In fact this is the design accident that the containment can survive and maintain integrity. Needs more work . Is Not <b>NEW</b> . <b>BANK</b>  Rewrote stem to better match K/A. Appears to be sat. <b>10/31/2006.</b>
50	F	2													S	073A1.01 Question appears to match K/A. Do the vacuum pumps trip due to the discharge valves going closed, or is it a direct trip? It may be better to pursue this. <b>BANK.</b>  SAT <b>10/31/2006.</b>

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			
51	H	2				X		X							U	076G2.1.2 Question appears to match K/A. Required action in accordance with ? D distractor does not appear to be credible. It would be more credible to commence a shutdown within one hour and be in cold shutdown in.... Do you expect ROs to know technical specifications of this nature. <b>BANK</b> Changed D distractor, and and distractor A. SAT <b>10/31/2006.</b>
52	F	2													S*	076K1.17 *Assuming these pumps are from the Service Water system this question matches the K/A. If not we have more work to do. Otherwise SAT. <b>NEW</b>  Pumps from service water. SAT. <b>10/31/2006.</b>
53	F	2													S	078G2.1.28 Question appears to match K/A. Distractors A and C need to say automatically closes above 90 psig increasing instead of at. This is not credible. Otherwise SAT. <b>NEW</b>  Made changes as requested SAT. <b>10/31/2006.</b>
54	F	2													S	078K4.01 Question appears to match K/A Very simple. <b>NEW</b>
55	F	2													S	086G2.1.28 Kind of matches K/A. SAT <b>BANK</b>
56	F	2													S	103K4.01 Question appears to match K/A. <b>NEW</b>

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		
57	H	2												S	WE03EA2.1 Question appears to match K/A SAT <b>BANK</b>
58	F	2												S	WE04EK3.4 Question appears to match K/A. SAT <b>BANK</b>
59	H	2										X		U	WE05EK1.3 Does not really match K/A. There are annunciators in the stem but also a statement that all attempts to establish AFW were unsuccessful. So there are no remedial actions based on the annunciators. See if we can work on something to tie it to the K/A <b>BANK</b> .
60	H	2		X								X		U	WE06EK3.1 Question does not really meet the K/A. The only tie to the degraded core cooling is that you discuss you are there in the stem. The injection of the accumulators at any time could cause the same problem. I understand that it is in a note at the beginning of the procedure, but the applicant is not figuring out that he has degraded core conditions, you are telling him that he does.  Also teaching in the distractors, you list four of the six CSFs. This question needs some work. <b>BANK</b>  <u>Have another Examiner look at question for K/A match. Look at bank and attempt to find question to match.</u> Question replaced with a new question. E06EK3.1/004 Changed stem of new question, added the parameter and the reason...  SAT 11/06/06

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
61	H	2													E	WE09EA1.3 Question appears to match K/A. Distractor C is not credible, Why would you attempt to block low pressure SI prior to going below 2000 psig? Cooldown continues throughout the procedure until the unit is on RHR. <b>BANK</b> Changed distractor C and stem SAT. <b>10/31/2006.</b>
62	H	2													S	WE10EK2.2 Question appears to match K/A. SAT <b>BANK</b> SAT <b>10/31/2006.</b>
63	H	2													U/S	WE11EK2.1 Question appears to match K/A. How does one verify that NO back flow is occurring from the RWST to the CTMT sump? Distractors A and B do not mention quench spray pumps. But Distractors C and D state to secure all pumps. So with only two pumps listed in A and B why would you pick them. Not Credible. Verifying no back flow is not credible unless you can come up with a way this is accomplished. <b>BANK</b> Changed A and B distractors. SAT. <b>10/31/2006.</b>
64	H	2													E	WE12EK2.1 Question appears to match K/A. Not enough procedures steps included in material to verify that this is the correct actions IAW your procedures. Provide more info. <b>BANK</b> SAT <b>10/31/2006.</b>
65	H	2													S	WE15EG2.1.23 Question appears to match K/A. SAT <b>NEW.</b> SAT <b>10/31/2006.</b>

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			
66	F	2													E	G2.1.1 Kind of matches K/A, better matches 2.1.29. Under what K/A did this question appear on the 2004 North Anna Exam? Wait on determination until this is researched. <b>BANK</b> SAT 10/31/2006.
67	F	2													S	G2.1.22 Question appears to match K/A. SAT <b>MOD</b> SAT 10/31/2006.
68	F	1													U	G2.1.3 Question Matches K/A. But has little discriminatory value. What is included in a short-term relief? Distractor D is not credible <b>BANK</b> <b>Revisit</b> Worked question during session SAT. 10/31/2006.
69	F	2													S	G2.2.11 Question appears to match K/A SAT <b>NEW</b> SAT 10/31/2006.
70	F	2													S	G2.2.24 Question appears to match K/A. SAT <b>NEW</b> . Question is at the Fundamental level. SAT 10/31/2006.
71	F	2				X									E	2.2.4 Question appears to match K/A. Very Simple <b>BANK</b> Explain plausibility of B and D. SAT 10/31/2006.

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	2									X			E	G2.3.2 Question appears to match K/A. This is a NOT question and should be avoided. <b>BANK</b> SAT 10/31/2006.
73	F	2												E	G2.3.9 Question appears to match K/A. There is no documentation to prove that 100A or 101 cannot be used. Is there any documentation, or do we need to say IAW 1-OP-21.2 after containment? <b>NEW</b> SAT 10/31/2006.
74	H	2												E	G2.4.14 Question Kind of matches K/A. Distractor D is not credible. <b>BANK</b> rearranged CSFs and changed distractor D.
75	F	2						X						E	G2.4.43 Question appears to match K/A. Is the notification time normally the job of the RO? Otherwise SAT. <b>NEW</b>

General Comment; the material included for support of the correct answer was usually satisfactory. The information on why a distractor was credible on not credible was **not**. For example the PDTT was used several times but no information was given as to what drains to it, its location, and what makes it a credible distractor.

23 Unsats    23 enhancements    29 satisfactory = 75 total RO questions.  
Several questions off of 2004 exam  
8 questions that do not match the K/A.



Facility: <u>North Anna</u>		Date of Exam: <u>11/14/06</u>		Exam Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	SC	WS	[Signature]		
2. Answer key changes and question deletions justified and documented	N/A	NA WS	[Signature]		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	SC	WS	[Signature]		
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	SC	WS	[Signature]		
5. All other failing examinations checked to ensure that grades are justified	N/A	NA WS	NA		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	SC	WS	[Signature]		
Printed Name/Signature		Date			
a. Grader	<u>Steven R. Crawford / [Signature]</u>		<u>11/15/06</u>		
b. Facility Reviewer(*)	<u>Walter F. Shura / [Signature]</u>		<u>11/15/06</u>		
c. NRC Chief Examiner (*)	<u>George W. Laska / [Signature]</u>		<u>11/28/2006</u>		
d. NRC Supervisor (*)	<u>[Signature]</u>		<u>1/17/07</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

<b>Post-Examination Check Sheet</b>	
Facility: North Anna	Date of Examination: November 14/15, 2006
Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	11/20/2006
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	N/A
3. Operating tests graded by NRC examiners	11/29/2006
4. NRC chief examiner review of operating test and written exam grading completed	11/29/2006
5. Responsible supervisor review completed	11/30/2007
6. Management (licensing official) review completed	11/30/2007
7. License and denial letters mailed	11/30/2007
8. Facility notified of results	11/30/2007
9. Examination report issued (refer to NRC MC 0612)	12/18/2006
10. Reference material returned after final resolution of any appeals	N/A

**Dominion Generation**  
North Anna Training Center  
1022 Haley Drive, Mineral, VA 23117



**Mailing Address:**  
P.O. Box 402, Mineral, VA 23117

August 28, 2006

Mr. Gerard Laska  
Senior Operations Engineer  
USNRC Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23T85  
Atlanta, Georgia 30303-8931

Dear Mr. Laska:

The following outlines are being submitted for the Reactor Operator examination to be conducted at North Anna Power Station on November 14-15, 2006. These outlines include ES-201-2, "Examination Outline Quality Checklist;" ES-201-3, "Examination Security Agreement;" ES-301-1, "Administrative Topics Outline;" and ES-401-4, "Record of Rejected K/As." ES-401-4 was discussed and revised during a telephone conversation on August 25, 2006 between Mr. Gerry Laska, Mr. Walt Shura and Mr. Joe Scott.

Thank you for your cooperation in this matter. If you have any questions regarding this submittal, please contact me at (540) 894-2479, (Internet E-mail: walt\_shura@dom.com).

Sincerely,

Walter F. Shura  
Supervisor Nuclear Training

Enclosures

**Dominion Generation**  
North Anna Training Center  
1022 Haley Drive, Mineral, VA 23117



**Mailing Address:**  
P.O. Box 402, Mineral, VA 23117

October 12, 2006

Mr. Gerard Laska  
Senior Operations Engineer  
USNRC Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23T85  
Atlanta, Georgia 30303-8931

Dear Mr. Laska:

The following outlines are being submitted for the Reactor Operator examination to be conducted at North Anna Power Station on November 14-15, 2006. These outlines include ES-301-1, "Administrative Topics Outline;" and ES-301-3, "Operating Test Quality Checklist. I believe that if you look at the September 29 submittal you will find the revised copy of ES 301-1 on the disc and ES 301-3 in hardcopy. However, I didn't reference ES 301-1 in the submittal letter. Regardless, this should meet our commitment.

Thank you for your cooperation in this matter. If you have any questions regarding this submittal, please contact me at (540) 894-2479, (Internet E-mail: walt\_shura@dom.com).

Sincerely,

Walter F. Shura  
Supervisor Nuclear Training

Enclosures

**Dominion Generation**  
North Anna Training Center  
1022 Haley Drive, Mineral, VA 23117



**Mailing Address:**  
P.O. Box 402, Mineral, VA 23117

September 28, 2006

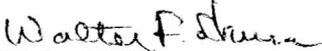
Mr. Gerard Laska  
Senior Operations Engineer  
USNRC Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23T85  
Atlanta, Georgia 30303-8931

Dear Mr. Laska:

The following are being submitted for the Reactor Operator and Senior Reactor Operator examination to be conducted at North Anna Power Station on November 14-15, 2006. These documents include the Reactor Operator written examination and ES-401-6, "Written Examination Quality Checklist;" the Senior Reactor Operator administration walk-through examination and ES-301-3, "Operational Test Quality Checklist;" and ES-201-3, "Examination Security Agreement" update. Additionally, all pertinent references are included.

Thank you for your cooperation in this matter. If you have any questions regarding this submittal, please contact me at (540) 894-2479, (Internet E-mail: [walt\\_shura@dom.com](mailto:walt_shura@dom.com)).

Sincerely,

  
Walter F. Shura  
Supervisor Nuclear Training

Enclosures

**Dominion Generation**  
North Anna Training Center  
1022 Haley Drive, Mineral, VA 23117



**Mailing Address:**  
P.O. Box 402, Mineral, VA 23117

November 3, 2006

Mr. Gerard Laska  
Senior Operations Engineer  
USNRC Region II  
Sam Nunn Atlanta Federal Center  
61 Forsyth Street, SW, Suite 23T85  
Atlanta, Georgia 30303-8931

Dear Mr. Laska:

The following are being submitted for the Reactor Operator and Senior Reactor Operator examination to be conducted at North Anna Power Station on November 14-15, 2006. These documents include the Reactor Operator written examination and ES-401-6, "Written Examination Quality Checklist;" the Senior Reactor Operator administration walk-through examination and ES- 301 1, Administrative Topics outline, and ES-301-3, "Operational Test Quality Checklist."

Two versions of ES 401-6 are provided. One is for question # 2 for K/A E06-EK3.1 (44 Higher/31 Lower cognitive level); and one ES 401-6 version for questions # 3& #4 for K/A E06-EK3.1 (43 Higher/ 32 Lower cognitive level). Any of the three questions meets the K/A and each is acceptable. If asked, Dominion would prefer question #2 but any of the three are acceptable.

Additionally, there are two versions of ES 301 for Admin JPM # 3. Version 3A utilizes a RWP and is somewhat similar to a previous submittal. Version 3B does not use a RWP. If asked, Dominion would prefer version 3A but either is acceptable. Admin #4 is the same as provided to you on Monday, October 30. You were going to follow-up with us on that Admin.

Thank you for your cooperation in this matter. If you have any questions regarding this submittal, please contact me at (540) 894-2479, (Internet E-mail: walt\_shura@dom.com).

Sincerely,

  
Walter F. Shura  
Supervisor Nuclear Training

Enclosures