

Facility: <u>NORTH ANNA</u>		Date of Examination: <u>12/17/12</u>
Developed by: Written - Facility <input type="checkbox"/> NRC <input type="checkbox"/> ^{N/A} // Operating - Facility <input checked="" type="checkbox"/> NRC <input type="checkbox"/>		
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	yes
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	yes
-120	3. Facility contact briefed on security and other requirements (C.2.c)	yes
-120	4. Corporate notification letter sent (C.2.d)	yes
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 3)]	yes
{-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)	yes
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	yes
{-45}	8. Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6, and any Form ES-201-3 updates), and reference materials due (C.1.e, f, g and h; C.3.d)	yes
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	yes
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	yes
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	yes
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	yes
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	yes
-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 5; ES-202, C.2.e; ES-204)	yes
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	N/A
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	yes
<p>* Target dates are generally based on facility-prepared examinations and are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee. [Applies only] {Does not apply} to examinations prepared by the NRC.</p>		

Facility: <u>North Anna Power Station</u>		Date of Examination: <u>12-17-2012</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.	/	/	/
	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.	S	JM	JAO
	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	S	JM	JAO
	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.	S	JM	JAO
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.	S	JM	JAO
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	S	JM	JAO
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	S	JM	JAO
	d. Check for duplication and overlap among exam sections.	S	JM	JAO
	e. Check the entire exam for balance of coverage.	S	JM	JAO
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	S	JM	JAO
a. Author	<u>S. Allen</u> / Printed Name/Signature	Date		
b. Facility Reviewer (*)	<u>Joseph B. Scott</u> / Printed Name/Signature	<u>11-14-2012</u>		
c. NRC Chief Examiner (#)	<u>J. Amanda Toth</u> / Printed Name/Signature	<u>12/14/12</u>		
d. NRC Supervisor	<u>MARK FRANK</u> / Printed Name/Signature	<u>12/14/12</u>		
Note:	# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines			

ES-201

Examination Security Agreement Form

ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 12-17-2012 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 12/17/2012. 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>SR Allen</u>	<u>Exam Author</u>	<u>[Signature]</u>	<u>10/19/2012</u>	<u>[Signature]</u>	<u>12-14-12</u>	
2. <u>Denise Tibbitts</u>	<u>Request exam writers</u>	<u>[Signature]</u>	<u>10/18/12</u>	<u>[Signature]</u>	<u>12-19-12</u>	
3. <u>Dan & E. Numborg</u>	<u>SRO / Chief of Party</u>	<u>[Signature]</u>	<u>11-8-12</u>	<u>[Signature]</u>	<u>12-1-12</u>	
4. <u>JIM SALE</u>	<u>SR SIM COORD / TRAINING</u>	<u>[Signature]</u>	<u>11/19/12</u>	<u>[Signature]</u>	<u>12/19/12</u>	
5. <u>KATHY LE</u>	<u>Senior sim coord / S/</u>	<u>[Signature]</u>	<u>11/28/12</u>	<u>[Signature]</u>	<u>12/19/12</u>	
6. <u>Walt Shurna</u>	<u>Instructor</u>	<u>[Signature]</u>	<u>11/13/12</u>	<u>[Signature]</u>	<u>12/19/12</u>	
7. <u>SHARAD KUMAR SA</u>	<u>SENIOR SUPERVISOR</u>	<u>[Signature]</u>	<u>11/13/12</u>	<u>[Signature]</u>	<u>12/12/12</u>	
8. <u>Kenneth L. Keet</u>	<u>SR simulator coord</u>	<u>[Signature]</u>	<u>11/13/12</u>	<u>[Signature]</u>	<u>12/19/12</u>	
9. <u>Joseph B. Scott</u>	<u>Supervisor / Facility Review</u>	<u>[Signature]</u>	<u>11/14/12</u>	<u>[Signature]</u>	<u>12/19/12</u>	
10. <u>Mark Schmy</u>	<u>SNSO</u>	<u>[Signature]</u>	<u>11-15-12</u>	<u>[Signature]</u>	<u>12/19/12</u>	

NOTES:

[Signature] 12/20/12

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2. Post-Examination

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1.	Lee C. Gam	Sup. Lic. Tech / Ops	[Signature]	12/14/12	[Signature]	①
2.	Randall E. Gamett	Senior Instructor	[Signature]	12/13/12	[Signature]	
3.	Byron Thompson	Senior Ops Eng	[Signature]	12-13-12	[Signature]	
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NOTES:

① Lee Baron signed off of the security agreement by fax. See attached sheet

ES-201

Examination Security Agreement

Form ES-201-3

Page 2 of 2

1. Pre-Examination

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1.	Lee E. Ryan	Supervisor / Ops	[Signature]	12/14/12	[Signature]	12/19/12
2.	Randall E. Ganett	Senior Instructor	[Signature]	12/13/12	[Signature]	12/14/12
3.	Byron Thompson	Senior Ops Mgr	[Signature]	12-13-12	[Signature]	12-19-12
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NOTES:

Lee Baron signed off of the security agreement by fax.

Facility: North Anna Power Station		Date of Examination: <u>12/17/2012</u>
Examination Level: SRO-I		Operating Test Number: <u>Retake</u>
Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	M, R G2.1.43	Calculate Estimated Critical Conditions (RO 4.1 / SRO 4.3)
Conduct of Operations	M, R G2.1.18	Perform 1-LOG-20, ECCS Leakage Log (RO 3.6 / SRO 3.8)
Equipment Control	N, R G2.2.20	Evaluate proposed troubleshooting activity and correctly apply the requirements of MA-AA-103. (RO 2.6 / SRO 3.8)
Radiation Control	M, R, P G2.3.7	Given an assignment in the RCA: Select the appropriate RWP Task, identify required dosimetry & alarm setpoints, and, using the appropriate survey maps, estimate total dose for performing the task. (RO 3.5 / SRO 3.6)
Emergency Plan	M, R G2.4.44	Determine Protective Action Recommendation (PAR) and update requirement (EPIP-1.06) (RO 2.4 / SRO 4.4)
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, (S)imulator, or Class(R)oom (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)		

Facility: North Anna Power Station Date of Examination: 12/17/2012
 Exam Level : RO SRO-I SRO-U Operating Test No.: Retake

Control Room Systems[®] (8 for RO); (**7 for SRO-I**); (2 or 3 for SRO-U, including 1 ESF)

System / JPM Title (KA)	Type Code*	Safety Function
a) Makeup to Service Water Reservoir 076-A4.01, (RO 2.9 / SRO 2.9)	M, S	4(sec)
b) Maintain stable plant conditions (No-tell, Unit on RHR, spurious SI, 1-AP-0.1) 006-A2.13 (RO 3.9 / SRO 4.2)	A, EN, L, N, S	3
c) Perform 1-PT-17.1, Control Rod Operability 001-A2.11, (RO 4.4 / SRO 4.7)	A, M, S	1
d) Place Excess Letdown in service 004-A4.06, (RO 3.6 / SRO 3.1)	D, S	2
e) Maintain Stable Plant Conditions (No-tell, N-44 failure, 1-AP-4.3) 015 - A2.02 (RO 3.1 / SRO 3.5)	A, M, S	7
f) Start RCP (No-tell, after start conditions degrade & require stopping RCPs) 003 - A1.09 (RO 2.8 / SRO 2.8)	A, L, M, S	4(pri)
g) Raise PRT pressure by adding nitrogen 007 - A1.02 (RO 2.7 / SRO 2.9)	D, S	5
h) N/A	N/A	N/A

In-Plant Systems[®] (3 for RO; **3 for SRO-I**; 3 or 2 for SRO-U)

i) Transfer Aux Monitoring Panel and Remote Monitoring Excore Neutron Flux Detectors to backup power. 067-AA2.16, (RO 3.3 / SRO 4.0)	D, E	6
j) Trip reactor locally (2-FR-S.1) 029 - EA1.12 (RO 4.1 / SRO 4.0)	A, D, E, P	1
k) Align CC system for split operations (1-AP-15) 026 - AA2.03 (RO 2.6 / SRO 2.9)	D, E, R	8

@ All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must 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	
(D)irect from bank	≤ 9 / ≤ 8 / ≤ 4
(E)mergency or abnormal in-plant	≥ 1 / ≥ 1 / ≥ 1
(EN)gineered safety feature	- / - / ≥ 1 (control room system)
(L)ow-Power / Shutdown	≥ 1 / ≥ 1 / ≥ 1
(N)ew or (M)odified from bank including 1(A)	≥ 2 / ≥ 2 / ≥ 1
(P)revious 2 exams (similar topic)	≤ 3 / ≤ 3 / ≤ 2 (randomly selected)
(R)CA	≥ 1 / ≥ 1 / ≥ 1
(S)imulator	

Facility: <u>North Anna Power Station</u>		Date of Examination: <u>12-17-2012</u>		Operating Test Number: <u>1 R</u>	
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).	S	JR	JAD	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	S	JR	JAD	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	S	JR	JAD	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	S	JR	JAD	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	S	JR	JAD	
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 	S	JR	JAD	
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.	S	JR	JAD	
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 <u>S R Allen / [Signature]</u>	<u>11.14.2012</u>			
b.	Facility Reviewer(*) <u>Joseph B. Scott / [Signature]</u>	<u>11/14/12</u>			
c.	NRC Chief Examiner (#) <u>J. Amanda Toth / [Signature]</u>	<u>12/14/12</u>			
d.	NRC Supervisor <u>MARK FRANK / [Signature]</u>	<u>12/14/12</u>			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.					

Final Simulator Scenario Quality Check Sheet (ES-301-4)

There was no Final Simulator Scenario Quality Check Sheet (ES-301-4) for the North Anna 2012-302 Exam (the Simulator portion of the Operating Test was waived).

Final Transient and Event Check Sheet (ES-301-5)

There was no Final Transient and Event Check Sheet (ES-301-5) for the North Anna 2012-302 Exam (the Simulator portion of the Operating Test was waived).

Final Competencies Check Sheet (ES-301-6)

There was no Final Competencies Check Sheet (ES-301-6) for the North Anna 2012-302 Exam (the Simulator portion of the Operating Test was waived).

Final Record of Rejected KAs (ES-401-4)

There was no Final Record of Rejected KAs (ES-401-4) for the North Anna 2012-302 Exam (the Written Exam was waived).

Final Written Exam Review Work Sheet (ES-401-9)

There was no Final Written Exam Review Work Sheet (ES-401-9) for the North Anna 2012-302 Exam (the Written Exam was waived).

Final Written Exam Quality Check Sheet (ES-401-6)

There was no Final Written Exam Quality Check Sheet (ES-401-6) for the North Anna 2012-302 Exam (the Written Exam was waived).

Final Written Exam Sample Plan (ES-401-1/2/3)

There was no Final Written Exam Sample Plan (ES-401-1/2/3) for the North Anna 2012-302 Exam (the Written Exam was waived).

Written Exam Grading Quality Check Sheet (ES-403-1)

There was no Written Exam Grading Quality Check Sheet (ES-403-1) for the North Anna 2012-302 Exam (the Written Exam was waived).