

Facility: <u>Oconee 2013-301</u>		Date of Examination: <u>06/10/2013</u>
Examinations Developed by: <u>Facility</u>		<u>NRC</u>
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)	12/10/2012
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	12/18/2012
-120	3. Facility contact briefed on security and other requirements (C.2.c)	12/18/2012
-120	4. Corporate notification letter sent (C.2.d)	12/18/2012
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	12/31/2012
{-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)	03/25/2013
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	03/28/2013
{-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)	04/24/2013 (O) 04/01/2013 (W)
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	05/10/2013
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	05/28/2013
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f) (Licensee prepared examination).	04/01/2013
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	04/25/2013
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	05/28/2013 (O) 05/30/2013 (W)
-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)	06/04/2013
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	07/10/2013
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	06/10/2013

* 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: Oconee		Date of Examination: June 10, 2013		
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.	U/A		
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.			
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.			
2. S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	CR		
	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.	CR		
	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.	CR		
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.	CR		
	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	CR		
	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.	CR		
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.	CR		
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	CR		
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	CR		
	d. Check for duplication and overlap among exam sections.	CR		
	e. Check the entire exam for balance of coverage.	CR		
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	CR		
a. Author <u>Clifford P. Witherspoon</u> b. Facility Reviewer (*) <u>LOUIS NOWELL</u> c. NRC Chief Examiner (#) <u>Gerard W. Casak</u> d. NRC Supervisor <u>UNCOLN T. WIDMAN</u>		Printed Name/Signature <u>Clifford P. Witherspoon</u> <u>LOUIS NOWELL</u> <u>Gerard W. Casak</u> <u>UNCOLN T. WIDMAN</u>		Date <u>5-24-13</u> <u>5/24/13</u> <u>5/24/13</u> <u>05/23/13</u>
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines				

ILT43

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 06/10/2013 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 06/10/2013. 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>Gabriel Washington</u>	<u>Exam Author</u>	<u>[Signature]</u>	<u>1-3-13</u>	<u>[Signature]</u>	<u>7-11-13</u>
2. <u>Clifford P. Robinson</u>	<u>Exam Developer</u>	<u>[Signature]</u>	<u>1-3-13</u>	<u>[Signature]</u>	<u>7-11-13</u>
3. <u>Kevin Newell</u>	<u>Exam Developer Supervisor</u>	<u>[Signature]</u>	<u>1-3-13</u>	<u>[Signature]</u>	<u>7-12-13</u>
4. <u>Douglas D. Watson</u>	<u>Exam Development</u>	<u>[Signature]</u>	<u>1-7-13</u>	<u>[Signature]</u>	<u>7-15-13</u>
5. <u>William Dickerson</u>	<u>Xerox Printers</u>	<u>[Signature]</u>	<u>1-10-13</u>	<u>[Signature]</u>	<u>7-16-13</u>
6. <u>Kevin McElroy</u>	<u>Sim Supv.</u>	<u>[Signature]</u>	<u>1-10-13</u>	<u>[Signature]</u>	<u>7-18-13</u>
7. <u>Jeff Potomayor</u>	<u>Sim Support</u>	<u>[Signature]</u>	<u>1-10-13</u>	<u>[Signature]</u>	<u>7-18-13</u>
8. <u>JAMES M. Byke</u>	<u>Sim Support</u>	<u>[Signature]</u>	<u>1-10-13</u>	<u>[Signature]</u>	<u>7-18-13</u>
9. <u>Bill Rostrom</u>	<u>Sim Support</u>	<u>[Signature]</u>	<u>1-10-13</u>	<u>[Signature]</u>	<u>7-18-13</u>
10. <u>Joe Woolbright</u>	<u>Sim Support</u>	<u>[Signature]</u>	<u>1-14-13</u>	<u>[Signature]</u>	<u>7-18-13</u>
11. <u>Tam Van Vo</u>	<u>Sim Support</u>	<u>[Signature]</u>	<u>1-14-13</u>	<u>[Signature]</u>	<u>7-18-13</u>
12. <u>Rick Robinson</u>	<u>OS</u>	<u>[Signature]</u>	<u>1-15-13</u>	<u>[Signature]</u>	<u>7-18-13</u>
13. <u>Ralph Williams III</u>	<u>Reactor Engineering Supervisor</u>	<u>[Signature]</u>	<u>1-28-13</u>	<u>[Signature]</u>	<u>7-18-13</u>
14. <u>Teresa L. Merck</u>	<u>Admin. Specialist</u>	<u>[Signature]</u>	<u>1-31-13</u>	<u>[Signature]</u>	<u>7-18-13</u>
15. <u>[Blank]</u>	<u>[Blank]</u>	<u>[Blank]</u>	<u>[Blank]</u>	<u>[Blank]</u>	<u>[Blank]</u>

* via phone

ILT43

ES-201

Examination Security Agreement

Form ES-201-3

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. <u>Rene Stovall</u>	<u>TW</u>	<u>Rene Stovall</u>	<u>7/21/13</u>	<u>Rene Stovall</u>	<u>7/12/13</u>
2. <u>Betsy Santos-Lorada</u>	<u>NO</u>	<u>Betsy Santos-Lorada</u>	<u>3-22-13</u>	<u>Betsy Santos-Lorada</u>	<u>7-16-13</u>
3. <u>SMITH TOMSON</u>	<u>RO</u>	<u>SMITH TOMSON</u>	<u>2-22-13</u>	<u>SMITH TOMSON</u>	<u>7-14-13</u>
4. <u>R. Derrick Durham</u>	<u>SRO</u>	<u>R. Derrick Durham</u>	<u>3-25-13</u>	<u>R. Derrick Durham</u>	<u>7-16-13</u>
5. <u>Juan Smith</u>	<u>License Admin</u>	<u>Juan Smith</u>	<u>3-25-13</u>	<u>Juan Smith</u>	<u>7-15-13</u>
6. <u>John Stoggs</u>	<u>OTM</u>	<u>John Stoggs</u>	<u>3-25-13</u>	<u>John Stoggs</u>	<u>7-13-13</u>
7. <u>Robert H. Guy</u>	<u>OR Manager</u>	<u>Robert H. Guy</u>	<u>3-26-13</u>	<u>Robert H. Guy</u>	<u>7-19-13</u>
8. <u>Roger Peterson</u>	<u>SRO</u>	<u>Roger Peterson</u>	<u>4-3-13</u>	<u>Roger Peterson</u>	<u>7-18-13</u>
9. <u>Chris Hecker</u>	<u>PO</u>	<u>Chris Hecker</u>	<u>4-4-13</u>	<u>Chris Hecker</u>	<u>7-16-13</u>
10. <u>Deed Humes</u>	<u>RO</u>	<u>Deed Humes</u>	<u>4-12-13</u>	<u>Deed Humes</u>	<u>7-14-13</u>
11. <u>David J. Desrosiers</u>	<u>RO</u>	<u>David J. Desrosiers</u>	<u>4-12-13</u>	<u>David J. Desrosiers</u>	<u>7-16-13</u>
12. <u>Joseph Appignani</u>	<u>SRO</u>	<u>Joseph Appignani</u>	<u>4-12-13</u>	<u>Joseph Appignani</u>	<u>7-16-13</u>
13. <u>William R. McIntyre</u>	<u>Tech Support Supv/Procedure</u>	<u>William R. McIntyre</u>	<u>4-16-13</u>	<u>William McIntyre</u>	<u>7-16-13</u>
14. <u>Toby M. Lawson</u>	<u>SRO</u>	<u>Toby M. Lawson</u>	<u>5-20-13</u>	<u>Toby Lawson</u>	<u>7-15-13</u>
15. <u>Bruce Bryant</u>	<u>TEAM ILT</u>	<u>Bruce Bryant</u>	<u>5-20-13</u>	<u>Bruce Bryant</u>	<u>7-18-13</u>

* - via phone

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ES-201

Examination Security Agreement

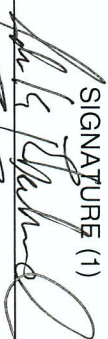





























Form ES-201-3

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1. Eberhard, John K	RO		4/18/13		7/27/13
2. Carey, Jason T	RO		4/18/13		7-24-13
3. Newsbom, Dennis P	SRO		4-18-13		7-15-13
4. Sutton, Nick A.	RO		5-2-13		7-15-13
5. Hensley, James L	SRO		5/2/13		7-22-13
6. Hyatt, Robert	RO		5-5-13		7-19-13
7. Tate, Michael S	SRO		5-8-13		7-12-13
8. Davis, LT	RO		5-8-13		7-30-13
9. Wilson, Dwayne E.	SRO		5-9-13		7-23-13
10. Hendrickson, Richard	RO		5-9-13		7-30-13
11. Bowen, Teresa D	Admin		5-15-13		7-24-13
12. Smith, Chad C.	SRO		5-15-13		7-2-13
13. Johnson, Ryan E	RO		5/19/13		7/20/13
14. Valdez, Joe E	RO		5/19/13		7/14/13
15. Strawderman, Daniel S.	SRO / Check Operator		5/20/13		7/14/13

* Via phone

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ES-201

Examination Security Agreement



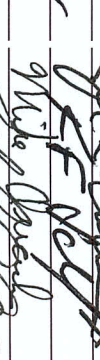

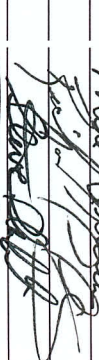

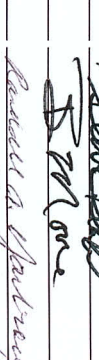



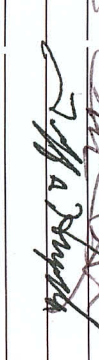


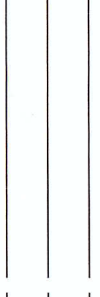

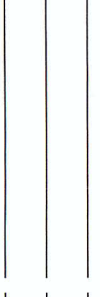




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1. John L. Collins Jr	SOM		5-22-13		7-18-13
2. Kenneth F Schaff	Nuclear Instructor		5/22/13		7/22/13
3. Mike Quarles	RP		5/23/13		7-15-13
4. Richard Long	OPS Instructor		6/3/13		7/15/13
5. Steve Shaffer	OPS Instructor		6/4/13		7/15/13
6. Brent Moore	OPS Instructor		6/4/13		7/12/13
7. Russell A. YARBROUGH	OPS Instructor		6/6/13		7/12/13
8. Jeffrey P. Hedking	OPS Instructor / SRO		6/10/13		7-12-13
9. Eric J. Dole	OPS Instructor / SRO		6/10/13		7/12/13
10. Jeff G. Heyman	SOM		6/26/13		7/16/13
11. _____	_____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____

Facility: Oconee		Date of Examination: 6/10/13
Examination Level: RO <input checked="" type="checkbox"/>	SRO <input type="checkbox"/>	Operating Test Number: 1

Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations [KA G2.1.7 (4.4/4.7)]	M, R	Admin-131, Perform manual RCS Leakage Calculation (RO ONLY) (18 min)
Conduct of Operations [KA G2.1.25 (3.9/4.2)]	M, R	Admin-142, Determine Time for SFP to reach 180°F (BOTH) (15 min)
Equipment Control [KA G2.2.12 (3.7/4.1)]	M, R	Admin-240, Perform SG Downcomer Temperature Surveillance (RO ONLY) (18 min)
Radiological Control [KA G2.3.4 (3.2/3.7)]	D, R	Admin-306, Calculate the Maximum Permissible Stay Time Within Emergency Dose Limits (EDLs) (BOTH) (20 min)
Emergency Plan		N/A

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: Ocone		Date of Examination: 6/10/13
Examination Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>		Operating Test Number: 1

Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations [KA G2.1.7 (4.4/4.7)]	M, R	Admin-130, Perform manual RCS Leakage Calculation and TS determination (SRO ONLY) (18 min)
Conduct of Operations [KA G2.1.25 (3.9/4.2)]	M, R	Admin-142, Determine Time for SFP to reach 180°F (BOTH) (15 min)
Equipment Control [KA G2.2.12 (3.7/4.1)]	N, R	Admin-241, Complete a Surveillance Evaluation (SRO ONLY) (20 Minutes)
Radiological Control [KA G2.3.4 (3.2/3.7)]	D, R	Admin-306, Calculate the Maximum Permissible Stay Time Within Emergency Dose Limits (EDLs) (BOTH) (20 min)
Emergency Plan [KA G2.4.38 (2.4/4.4)]	M, R	Admin-412, Determine Emergency Classification and complete the initial Emergency Notification form (SRO ONLY) (20 min)

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: Oconee		Date of Examination: 06/10/13
Exam Level: RO <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>		Operating Test No.: 1
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. CRO-106, Place Spare Deboring IX in Service OP/1/A/1103/004 C, Deboring IXs Encl. 4.9 (Spare Deboring IX for RCS Purification (Rx at Power)) [KA: 004 A4.17 (2.7/2.7)] (15 min)	D, L, S	1
b. CRO-204, ES Recovery Unit 1 EOP Encl. 5.41 (ES Recovery) [KA: 006 A4.08 (4.2/4.3)] (15 min)	D, L, S	2
c. CRO-303, Perform Required Actions for a Failed LPI Train Unit 1 EOP Encl. 5.1 (ES Actuation) [KA: EPE 011 EA1.04 (4.4/4.4)] (10 min)	M, A, EN, L, S	3
d. CRO-409, Depressurize SGs and Feed with CBPs Unit 1 EOP Rule 3 (Loss of Main or Emergency FDW) [KA: APE 054 AA1.01 (4.5/4.4)] (12 min)	D, L, S	4S
e. CRO-413, Initiate HPI Forced Cooling Unit 1 EOP Rule 4 (Initiate HPI Forced Cooling) [KA: EPE 074 EA1.08 (4.2/4.2)] (3 min)	M, A, L, S	4P
f. CRO-507, Perform EOP Encl. 5.35 (Containment Isolation) Unit 1 EOP Encl. 5.35 (Containment Isolation) [KA: 103 G2.1.23 (4.3/4.4)] (10 min)	D, A, L, S	5
g. CRO-605, Energize Main Feeder Buses from CT-4 Unit 1 EOP Encl. 5.38 (Restoration of Power) [KA: EPE 055 EA2.03 (3.9/4.7)] (15 min)	M, L, S	6
h. CRO-902, Place Reactor Building Purge in Operation OP/1/A/1102/014, Encl. 4.1 (RB Purge Release) [KA: 029 A2.03 (2.7/3.1)] (15 min)	M, A, L, S	8

In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. NLO-100, Trip the Reactor from the Control Rod Drive Breakers Unit 3 EOP RULE 1 (ATWS/Unanticipated Nuclear Power Production) [KA: EPE 029 EA1.11 (3.9*/4.1)] (4 min)	M, E	1
j. NLO-606, Makeup to Unit 1 CBAST from Unit 1 & 2 BAST During a Unit 2 Blackout Unit 2 EOP Encl. 5.39 (Makeup to the BWST During Blackout) [KA: B/WE14 EA1.1 (3.8/3.6)] (12 min)	N, E, R	6
k. NLO-802, Start Diesel Air Compressors and Align to Service Air Header AP/2/A/1700/022 (Loss of Instrument Air) Encl. 5.4 (Emergency Start of the Diesel Air Compressor) and 5.7 (Manual Start of Diesel Air Compressors) [KA: APE 065 AA1.04 (3.5*/3.4*)] (20 min)	D, A, E	8
<p>@ 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.</p>		
* Type Codes	Criteria for RO / SRO-I / SRO-U	
(A)lternate path (C)ontrol room (D)irect from bank (E)mergency or abnormal in-plant (EN)gineered safety feature (L)ow-Power / Shutdown (N)ew or (M)odified from bank including 1(A) (P)revious 2 exams (R)CA (S)imulator	4-6 / 4-6 / 2-3 $\leq 9 / \leq 8 / \leq 4$ $\geq 1 / \geq 1 / \geq 1$ - / - / ≥ 1 (control room system) $\geq 1 / \geq 1 / \geq 1$ $\geq 2 / \geq 2 / \geq 1$ $\leq 3 / \leq 3 / \leq 2$ (randomly selected) $\geq 1 / \geq 1 / \geq 1$	

Facility: Oconee		Date of Examination: 06/10/13
Exam Level: RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input checked="" type="checkbox"/>		Operating Test No.: 1
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. N/A		
b. N/A		
c. CRO-303, Perform Required Actions for a Failed LPI Train Unit 1 EOP Encl. 5.1 (ES Actuation) [KA: EPE 011 EA1.04 (4.4/4.4)] (10 min)	M, A, EN, L, S	3
d. N/A		
e. CRO-413, Initiate HPI Forced Cooling Unit 1 EOP Rule 4 (Initiate HPI Forced Cooling) [KA: EPE 074 EA1.08 (4.2/4.2)] (3 min)	M, A, L, S	4P
f. N/A		
g. N/A		
h. CRO-902, Place Reactor Building Purge in Operation OP/1/A/1102/014, Encl. 4.1 (RB Purge Release) [KA: 029 A2.03 (2.7/3.1)] (15 min)	M, A, L, S	8

In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)		
i. NLO-100, Trip the Reactor from the Control Rod Drive Breakers Unit 3 EOP RULE 1 (ATWS/Unanticipated Nuclear Power Production) [KA: EPE 029 EA1.11 (3.9*/4.1)] (4 min)	M, E	1
j. NLO-606, Makeup to Unit 1 CBAST from Unit 1 & 2 BMT During a Unit 2 Blackout Unit 2 EOP Encl. 5.39 (Makeup to the BWST During Blackout) [KA: B/WE14 EA1.1 (3.8/3.6)] (12 min)	N, E, R	6
k. N/A		
<p>@ 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.</p>		
* Type Codes	Criteria for RO / SRO-I / SRO-U	
(A)lternate path (C)ontrol room (D)irect from bank (E)mergency or abnormal in-plant (EN)gineered safety feature (L)ow-Power / Shutdown (N)ew or (M)odified from bank including 1(A) (P)revious 2 exams (R)CA (S)imulator	4-6 / 4-6 / 2-3 $\leq 9 / \leq 8 / \leq 4$ $\geq 1 / \geq 1 / \geq 1$ - / - / ≥ 1 (control room system) $\geq 1 / \geq 1 / \geq 1$ $\geq 2 / \geq 2 / \geq 1$ $\leq 3 / \leq 3 / \leq 2$ (randomly selected) $\geq 1 / \geq 1 / \geq 1$	

Facility: Oconee		Date of Examination: 6/10/13		Operating Test Number: 1	
1. General Criteria			Initials		
			a	b*	c#
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	CPJ	W. Powell	SS	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	CPJ	W. Powell	SS	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	CPJ	W. Powell	SS	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	CPJ	W. Powell	SS	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	CPJ	W. Powell	SS	
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 	CPJ	W. Powell	SS	
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.	CPJ	W. Powell	SS	
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.			SS	W. Powell	SS
Printed Name / Signature		Date			
a.	Author <u>Clifford P. Witherspoon</u>	<u>5-23-13</u>			
b.	Facility Reviewer(*) <u>Louis Nowell</u>	<u>5/23/13</u>			
c.	NRC Chief Examiner (#) <u>GERARD W. LUKAT</u>	<u>5/24/2013</u>			
d.	NRC Supervisor <u>Harold T. Widmann</u>	<u>05/28/13</u>			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.					

Facility: Oconee Date of Exam: 6/10/13 Scenario Numbers: 1/ 2 /3 Operating Test No.: 1		QUALITATIVE ATTRIBUTES			Initials		
		a	b*	c#			
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	CPW	U/ [signature]	[signature]			
2.	The scenarios consist mostly of related events.	CPW	U/ [signature]	[signature]			
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) 	CPW	U/ [signature]	[signature]			
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.	CPW	U/ [signature]	[signature]			
5.	The events are valid with regard to physics and thermodynamics.	CPW	U/ [signature]	[signature]			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	CPW	U/ [signature]	[signature]			
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.	CPW	U/ [signature]	[signature]			
8.	The simulator modeling is not altered.	CPW	U/ [signature]	[signature]			
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.	CPW	U/ [signature]	[signature]			
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.	CPW	U/ [signature]	[signature]			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	CPW	U/ [signature]	[signature]			
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).	CPW	U/ [signature]	[signature]			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	CPW	U/ [signature]	[signature]			
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes					
1.	Total malfunctions (5-8)	7 / 6 / 8		CPW	U/ [signature]	[signature]	
2.	Malfunctions after EOP entry (1-2)	1 / 1 / 2		CPW	U/ [signature]	[signature]	
3.	Abnormal events (2-4)	4 / 4 / 4		CPW	U/ [signature]	[signature]	
4.	Major transients (1-2)	2 / 1 / 1		CPW	U/ [signature]	[signature]	
5.	EOPs entered/requiring substantive actions (1-2)	2 / 1 / 1		CPW	U/ [signature]	[signature]	
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 2		CPW	U/ [signature]	[signature]	
7.	Critical tasks (2-3)	3 / 2 / 2		CPW	U/ [signature]	[signature]	

Facility: Oconee			Date of Exam: 6/10/13			Operating Test No.: 1											
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						
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P				
RO <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX														1	1	0
	NOR					1									1	1	1
	I/C			1,2,3		2,4			2,4,5						4	4	2
	MAJ			6		7			7						2	2	1
	TS														0	2	2
RO <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX				5			1							1	1	0
	NOR														1	1	1
	I/C		4,5		3,6			3,4,6							4	4	2
	MAJ		6		7			7							2	2	1
	TS														0	2	2
RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input checked="" type="checkbox"/>	RX				5			1							1	1	0
	NOR				1										1	1	1
	I/C	1,2,3 4,5			2,3,4 6			2,3,4 5,6							4	4	2
	MAJ	6			7			7							2	2	1
	TS	1,3			2,4			4,5							0	2	2

Instructions:

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

Facility: Ocone

Date of Examination: 6/10/13

Operating Test No.: 1

Competencies	APPLICANTS															
	RO <input checked="" type="checkbox"/> X SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input checked="" type="checkbox"/> X SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input checked="" type="checkbox"/>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	2,3, 4,5, 6	2,3, 4,5, 6,7	1,3, 4,5, 6,7		1,2, 3,4, 6	1,2, 3,4, 7	2,4, 5,7		1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7	1,2, 3,4, 5,6, 7					
Comply With and Use Procedures (1)	4,5, 6	3,5, 6,7	1,3, 4,5, 6,7		1,2, 3,4, 6	1,2, 4,6, 7	2,4, 5,7		1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7	1,2, 3,4, 5,6, 7					
Operate Control Boards (2)	4,5, 6	3,5, 6,7	1,3, 4,5, 6,7		1,2, 3,6	1,2, 3,4, 5,7	2,4, 5,7									
Communicate and Interact	1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7	1,2, 3,4, 5,6, 7		1,2, 3,4, 6	1,2, 3,4, 5,7	1,2, 3,4, 5,7		1,2, 3,4, 5,6	1,2, 3,4, 5,7	1,2, 3,4, 5,6, 7					
Demonstrate Supervisory Ability (3)									1,2, 3,4, 5,6	1,2, 3,4, 5,7	1,2, 3,4, 5,6, 7					
Comply With and Use Tech. Specs. (3)									1,3	2,4	4,5					

Notes:

(1) Includes Technical Specification compliance for an RO.

(2) Optional for an SRO-U.

(3) Only applicable to SROs.

Instructions:

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

Tier / Group	Randomly Selected KA	Reason for Rejection
1 / 2	APE051 2.2.12	Q(84) Could not write SRO level question to this KA.
2 / 1	SYS008 A2.07	Q(86) Could not write SRO level question.

2 / 2 001 K5.65 Q(56) - Could not write a non-GFE-level question to KA
001 K5.96.

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 style="text-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> <ol style="list-style-type: none"> Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level. Enter the level of difficulty (LOD) of each question using a 1 - 5 (easy - difficult) rating scale (questions in the 2 B 4 range are acceptable). Check the appropriate box if a psychometric flaw is identified: <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). Check the appropriate box if a job content error is identified: <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. <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). 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? At a minimum, explain any AU@ ratings (e.g., how the Appendix B psychometric attributes are not being met). 																

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E /S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	# / units	Back- ward	Q= K/A	SRO Only		
1	H	2	X									X		U	007EG2.2.42 K/A does not appear to be matched. This K/A is under the topic of Reactor Trip Stabilization/Recovery. The question states the plant is at 100%. Need to have the reactor tripped, and the crew in the EOP stabilizing the plant. S NEW 2/4/2013 (Dan Bacon) <i>Changed all distractors. Selection of procedure used to control HPI flow. Licensee needs to confirm only one correct answer. 2/21/2013 Otherwise SAT</i>
2	H	2	X											E	008G2.4.45 Question appears to meet the K/A. We will change RCS pressure to indicate 2190 psig, and change stem statement change should to shall or required to be... NEW 2/4/2013 (Dan Bacon) <i>Made Changes as described. 2/21/2013 SAT</i>
3	H	2												S	009EA1.01 Question kind of matches the K/A, if the idea is to operate based on RCS Pressure. (LPI pumps must be secured due to RCS pressure being greater than shutoff head of LPI pumps). NEW 2/4/2013 (Dan Bacon) <i>May need to change the wording of the statements, does not really read well. 2/21/2013 Dan will work on wording.</i>
4	H	2						X						U	011EG2.2.44 Question is for a large break LOCA, but I don't think RCPs would be running at the current time. Replaced question, with modified bank question SAT 3/21/2013

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		
5	H	2												S	015AK2.07 Question appears to match the K/A. Appears to be SAT NEW2/4/2013 (Dan Bacon)
6	H	2										X		E	022AK1.04 Question kind of matches the K/A in a backwards fashion. It appears we are testing if we meet the conditions for getting the controller in automatic, we can clear the alarm. Will Discuss. NEW 2/21/2013 Discussed question with writer (K/A was from manual to auto) determined question was SAT 3/20/2013
7	H	2												S	025AK2.01 Question appears to match the K/A. SAT 02/25/2013 MODIFIED 2012-302 Question 6
8	F	2												S	026AA1.03 Question kind of matches K/A. SWS as a backup to the CCWS At Oconee RCW performs some of the functions of CCW. Only RCW has a backup. Therefore, question asked on RCW. NEW 2/21/2013 SAT

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E /S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
9	H	2										X		E	<p>027AK3.03 Question kind of matches the K/A is a backwards way. The malfunction appears to be reduced spray flow due to the RCP being secured. With reduced sprays another method is required to reduce RCS pressure. It appears the reason for the steps in the procedure is the limits on pressurizer spray nozzle ΔT. This is being tested as well as what is used to determine them. (Reason is not readily apparent) Will discuss.</p> <p>NEW 2/21/2013</p> <p>Question writer thought that using the LDST or BWST was testing the reason for ΔT. Will allow 3/21/2013</p>
10	H	2												S	<p>029EK2.06 Question appears to match the K/A. SAT NEW 2/21/2013</p>
11	H	2												S	<p>038EA2.03 Question appears to match the K/A. SAT MODIFIED 2009 NRC Exam 2/25/2012</p>
12	F	2												S	<p>040AA2.04 Question appears to match the K/A. SAT This question and number 41 are testing the same concept, need to change one of them. Changed 41 Now SAT</p> <p>NEW 2/25/2013</p>
13	F	2												S	<p>054AA2.01 Question appears to match the K/A. SAT MODIFIED 2011-302 Q # 25</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		
14	H	2												S	055EK1.02 Question appears to match K/A SAT MODIFIED 2011-302 question BANK
15	F	2										X		U	056AK3.01 Question does not really meet the K/A. There are no reasons. This is a good questions and was used before for a different K/A. It could be modified to work by asking why these things happen BANK 2007 Exam Question 15 replaced. 3/25/2013 SAT.
16	H	2												S	057AA1.02 Question appears to match the K/A. This appears to be a BANK question, otherwise SAT. BANK 2004 Exam
17	H	2												S	058AK1.01 Question appears to meet the K/A. Wording may need some work. Otherwise SAT. MODIFIED 2012-301 NRC Exam
18	H	2												S	062AK3.03 Question appears to match the K/A. SAT NEW
19	H	2												S	005AA1.03 Question appears to match the K/A.SAT BANK 2009-302 NRC Exam
20	H	2												S	024AK3.02 Question appears to match the K/A. Is this operationally valid? Will discuss Changed power to 11%. I believe the question is more operationally valid, MODIFIED BANK SAT 3/21/2013

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		
21	H	2												S	051AA1.04 Question appears to match the K/A. SAT NEW
22	F	2												S	036AK3.02 Question appears to match the K/A. SAT MODIFIED BANK
23	H	2												S	069AG2.2.44 Question appears to match the K/A. SAT NEW
24	F	2												S	076AA2.02 Question appears to match the K/A. SAT NEW
25	F	2												S	BA07AK1.1 Question kind of matches K/A. SAT NEW
26	H	2												S	BWE03EA2.2 Question appears to match the K/A. SAT Licensee to verify actual HPI flow limit. NEW
27	H	2												S	BW/E09EK2.2 Question kind of matches the K/A. SAT NEW
28	H	2												S	003A1.06 Question appears to match the K/A. SAT NEW

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		
29	F	2												S	003K4.02 Question appears to match the K/A. SAT NEW
30	F	2												S	004G2.1.32 Question appears to match the K/A. SAT NEW
31	H	3												S	005K3.07 Question appears to match the K/A. SAT NEW
32	H	2												S	006K6.01 Question appears to match the K/A. SAT NEW
33	H	2												S	007A2.04 Question appears to match the K/A. SAT NEW
34	F	2												S	008A1.02 Question appears to match the K/A. SAT Need to ensure no subset issue exists. MODIFIED 2010-302 NRC exam.
35	H	2												S	008A3.04 Question appears to match the K/A. SAT BANK 2006-301 (Q # 12) NRC exam
36	F	2												S	010K2.01 Question appears to match the K/A. SAT MODIFIED 2010-301 (Q # 57) NRC exam.

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	2												S	012K6.04 Question appears to match the K/A. SAT MODIFIED 2010-301 (Q # 37) NRC exam.
38	H	2												S	013A1.10 Question appears to match the K/A. SAT MODIFIED 2011-301 (Q # 18) NRC exam
39	H	2												S	022K4.02 Question appears to match the K/A. SAT MODIFIED 2010-301 (Q # 41) NRC exam
40	F	2												S	026K4.09 Question appears to match the K/A. SAT BANK 2012-301 (Q # 40) NRC exam
41	H	2												S	026G2.4.46 Question appears to match K/A. This question and number 12 are testing the same concept; need to change one of them. BANK 2010-302 (Q # 41) NRC exam Replaced question (Due to question overlap) Question appears to match the K/A. SAT MODIFIED from 2006 Oconee License exam.
42	H	2												S	039K 5.01 Question appears to match the K/A. SAT NEW
43	H	2												S	059K1.04 Question appears to match the K/A. SAT BANK 2007-301 (Q # 39) NRC exam

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												S	061K3.02 Question appears to match the K/A. SAT NEW
45	H	2												S	061K5.01 Question appears to match the K/A. SAT MODIFIED 2007-301 (Q# 40)
46	H	2												S	062A3.05 Question appears to match the K/A. SAT MODIFIED BANK Oconee # EL041301.
47	F	2												S	062A4.03 Question appears to match the K/A. SAT NEW
48	H	2												S	063A3.01 Question appears to match the K/A. SAT MODIFIED 2009-301 (Q# 40) NRC exam
49	H	2												S	064K2.03 Question appears to match the K/A. SAT BANK 2009-301 (Q# 51)NRC exam
50	F	2												S	073A4.03 Question appears to match the K/A. SAT NEW
51	H	2												S	076A2.02 Question appears to match the K/A. SAT BANK Oconee 2009-301

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	H	2												S	078K2.01 Question appears to match the K/A. SAT BANK 2007-301 NRC exam
53	F	2												S	078K3.01 Question appears to match the K/A. SAT BANK
54	H	2												S	103K1.01 Question appears to match the K/A. SAT Licensee to verify correct answer BANK 2009
55	H	2												S	103K1.08 Question appears to match the K/A. SAT BANK 2008 Oconee NRC exam. Licensee to Verify that this is still correct.
56	F	2												S	001K5.96 Question matches K/A. GFES level May need to select a new K/A. Changed K/A to 001K5.65 Modified a bank Oconee Question from 2009B exam. SAT
57	H	2												S	002K3.03 Question appears to match the K/A. SAT BANK 2006-301 NRC exam
58	F	2												S	014A4.01 Question appears to match the K/A. Not very discriminating. NEW
59	F	2												S	015A1.04 Question appears to match the K/A. SAT MODIFIED BANK

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		
60	F	2												S	017K6.01 Question appears to match the K/A. SAT BANK
61	F	2												S	029K4.03 Question appears to match the K/A. SAT Licensee to verify noun name of RIA-45 MODIFIED 2004-301(Q # 56) NRC exam
62	H	2												S	033K1.02 Question appears to match the K/A. SAT NEW
63	H	2												S	041K2.02 Kind of matches the K/A. SAT MODIFIED BANK
64	H	2												S	068A3.01 Question appears to match the K/A. SAT BANK 2007 Oconee NRC exam
65	F	2												S	075K2.01 Question appears to match the K/A. SAT NEW
66	F	2												S	G2.1.8 Question appears to match the K/A. SAT BANK 2011-301 (Q # 67)
67	F	2												S	G2.1.14 Question appears to match the K/A. SAT BANK

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		
68	H	2												S	G2.1.45 Question appears to match K/A. SAT MODIFIED 2007 A Oconee NRC exam
69	F	2												S	G2.2.2 Question appears to match the K/A. SAT NEW
70	F	2												S	G2.2.39 Question appears to match the K/A. SAT NEW
71	F	2												S	G2.2.42 Question appears to match the K/A. SAT BANK 2009 Oconee NRC exam
72	F	2												S	G2.3.5 Question appears to match the K/A. SAT BANK 2011B Oconee NRC exam
73	F	2												S	G2.3.11 Question appears to match the K/A. SAT BANK 2010 Oconee NRC exam.
74	H	2												S	G2.4.34 Question appears to match the K/A. SAT BANK 2010 Oconee NRC exam.
75	F	2												S	G2.4.46 11 Question appears to match the K/A. SAT NEW

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 Sats, 4 Unsats, and 4 Enhancements

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 style="text-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> <ol style="list-style-type: none"> Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level. Enter the level of difficulty (LOD) of each question using a 1 - 5 (easy - difficult) rating scale (questions in the 2 B 4 range are acceptable). Check the appropriate box if a psychometric flaw is identified: <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). Check the appropriate box if a job content error is identified: <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. <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). 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? At a minimum, explain any AU@ ratings (e.g., how the Appendix B psychometric attributes are not being met). 																

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		
76	H	3												S	007EA2.04 Question appears to match the K/A. Appears to be SRO only. SAT NEW
77														S	009EG2.4.21 Question kind of matches K/A. (Not in the Westinghouse sense of the KA, but it is looking at parameters and heat removal will allow.) Appears to be SRO only. SAT MODIFIED 3/20/2013
78	H	2	X											E	038EG2.4.20 Question appears to match the K/A. Appears to have an SRO aspect to it. What does the stem state that steaming of 1A SG has been discontinued? The first part of the question states continue steaming or discontinue steaming, this makes C and D very confusing. Need to restate the stem. NEW Reworded stem to make C and D clearer. SAT 3/20/2013
79	H	2												S	BE05EA2.1 Question appears to match the K/A. Appears to be SRO only. SAT NEW
80	H	2												S	057AA2.06 Question appears to match the K/A. Appears to be SRO only. Need to ensure the references do not answer any part of this or other questions. Otherwise SAT NEW

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		
81	H	2	X											E	<p>062AG2.1.28 Appears to match the K/A. Appears to have an SRO aspect to it. Wording in stem needs to be fixed. Required to be operable on <u>(1)</u> required LPSW.</p> <p>Choices are: all running required LPSW pumps, this sounds okay, but the other choice only non-running required LPSW pumps does not flow well. Will discuss.</p> <p>NEW</p> <p>Changed C and D to read B only and changed the stem slightly for better wording.</p> <p>SAT 3/20/2013</p>
82	H	2												S	<p>003AG2.4.50 Question appears to match the K/A. Appears to have an SRO aspect to it. SAT</p> <p>NEW 3/20/2013</p>
83	H	2	X											S	<p>005AA2.02 Question appears to match the K/A. Appears to have an SRO aspect to it. How does one know rod 7-3 is stuck, a runback has just been initiated. Could we say rod is jammed? Removed stuck. Now SAT</p> <p>NEW 3/20/2013</p>
84	H	3												S	<p>051AG2.2.12 Question kind of matches the K/A. (Unique way to hit the K/A.) Appears to have an SRO aspect to it. SAT NEW 3/20/2013</p>
85	H	2												S	<p>BA05AA2.1 Question appears to match the K/A. Appears to have an SRO aspect to it.</p> <p>SAT NEW 3/20/2013</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		
86	H	2												S	008A2.07 Question appears to match the K/A. Not sure if the second part is procedure entry is RO knowledge, or if the note makes is SRO only will have another chief look at it. Sent question to Phil and Amanda. Based on feedback from Amanda and Phil and Dan, changed all distractors. NEW SAT 3/20/2013
87	H	2												S	010G2.4.50 Question appears to match the K/A. Appears to be SRO only. SAT NEW 3/20/2013
88	H	2												S	022G2.4.46 Question appears to match the K/A. Borderline SRO will get a second opinion. (even though this is basis, it is also system function). Upon further discussion decided question was acceptable due to information from basis. SAT NEW 3/20/2013
89	H	2												S	026G2.4.47 Question appears to match the K/A. Appears to be SRO only. SAT NEW 3/20/2013
90	H	2												S	059A2.04 Question kind of matches the K/A. EOP basis is not always considered SRO only knowledge, however in this case it is the basis of actions is a table, will allow. SAT NEW 3/20/2013

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		
91	H	2												S	015G2.4.20 Question appears to match the K/A. Appears to be SRO only SAT NEW
92	H	2												S	034G2.4.11 Question appears to match the K/A. Appears to have an SRO aspect to it. SAT NEW 3/20/2013
93	H	2												E	056A2.04 Question kind of matches the K/A. Appears to be SRO only. Will have another examiner verify K/A match. MODIFIED BANK 3/20/2013 After discussions with question writer, and other staff, rewrote question to better match the K/A. Question has been changed to new. SAT 3/25/2013
94	H	2												E	G2.1.19 Question appears to match the K/A. Not sure it is SRO only will get another examiner to verify. After discussion will allow. NEW 3/20/2013
95	H	2												S	G2.1.25 Question appears to match the K/A. Appears to be SRO only knowledge. SAT NEW

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		
96	F	2												S	G2.2.5 Question appears to match the K/A. Appears to be SRO only knowledge. SAT NEW
97	H	3												S	G2.2.12 Question appears to match the K/A. Appears to be SRO only knowledge. SAT NEW
98	H	2												S	G2.3.4 Question appears to match the K/A. Appears to be SRO only knowledge. SAT NEW
99	F	2												S	G2.4.23 Question appears to match the K/A. Appears to be SRO only knowledge. SAT NEW
100	F	2												S	G2.4.38 Question kind of matches the K/A. Appears to be SRO only knowledge.SAT NEW

ES-401


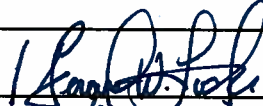
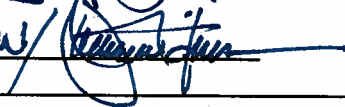
Written Examination Quality Checklist

Form ES-401-6

Facility: Oconee Nuclear Station		Date of Exam: 7/11/2013 6/10/2013		Exam Level: RO <input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/>		
Item Description				Initial		
				a	b*	c*
1. Questions and answers are technically accurate and applicable to the facility.				Yes	N/A	Yes
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.				Yes		Yes
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401				Yes		Yes
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).				Yes		Yes
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: ___ the audit exam was systematically and randomly developed; or ___ the audit exam was completed before the license exam was started; or <input checked="" type="checkbox"/> the examinations were developed independently; or ___ the licensee certifies that there is no duplication; or ___ other (explain)				Yes		Yes
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 14 / 1	Modified 27 / 3	New 34 / 21
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 33 / 4	C/A 42 / 21	Yes
8. References/handouts provided do not give away answers or aid in the elimination of distractors.				Yes		Yes
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.				Yes		Yes
10. Question psychometric quality and format meet the guidelines in ES Appendix B.				Yes		Yes
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.				Yes		Yes
Printed Name / Signature				Date		
a. Author <u>J. A. Toth</u> / <u>[Signature]</u>				5/29/13		
b. Facility Reviewer (*) <u>N/A</u>						
c. NRC Chief Examiner (#) <u>GERARD W. LASKA</u> / <u>[Signature]</u>				5/30/13		
d. NRC Regional Supervisor <u>NALCOLLE T. WIDMANN</u> / <u>[Signature]</u>				05/30/13		
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.						

Oconee 2013-301

The Final Sample Plan is the combination of the ES-401-4 and the Draft Sample Plan.

Facility: Oconee Nuclear Plant		Date of Exam: 07/11/2013		Exam Level: RO/SRO	
Item Description		Initials			
		a	b	c	
1.	Clean answer sheets copied before grading	gas	N/A	JS	
2.	Answer key changes and question deletions justified and documented	gas	N/A	JS	
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	gas	N/A	JS	
4.	Grading for all borderline cases (80±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	gas	N/A	JS	
5.	All other failing examinations checked to ensure that grades are justified	gas	N/A	JS	
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	gas	N/A	JS	
Printed Name/Signature				Date	
a. Grader	Amanda Toth / 			7/22/13	
b. Facility Reviewer(*)	N/A			—	
c. NRC Chief Examiner (*)	George W. Laska / 			7/22/13	
d. NRC Supervisor (*)	Michael T. Widmann / 			07/23/13	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					