

Facility: OCONEE NUCLEAR STATION Date of Examination: 12/2015

Developed by: Written - Facility ☒ NRC ☐ // Operating - Facility ☒ NRC ☐

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

\* 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.

- WRITTEN EXAM SAMPLE PLAN ONLY -

ES-201

**Examination Outline Quality Checklist**

**Form ES-201-2**

Facility: <b>OCONEE</b>		Date of Examination: <b>DECEMBER 2015</b>		
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.	<i>M</i>	N/A	<i>JS</i>
	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.	<i>M</i>	N/A	<i>JS</i>
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	<i>M</i>	N/A	<i>JS</i>
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	<i>M</i>	N/A	<i>JS</i>
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.	N/A	N/A	N/A
	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.	N/A	N/A	N/A
	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.	N/A	N/A	N/A
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.	N/A	N/A	N/A
	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	N/A	N/A	N/A
	c. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	N/A	N/A	N/A
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.	<i>M</i>	N/A	<i>JS</i>
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	<i>M</i>	N/A	<i>JS</i>
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	<i>M</i>	N/A	<i>JS</i>
	d. Check for duplication and overlap among exam sections.	N/A	N/A	N/A
	e. Check the entire exam for balance of coverage.	<i>M</i>	N/A	<i>JS</i>
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	<i>M</i>	N/A	<i>JS</i>
a. Author <u>Michael K. Meeks / <i>Michael Meeks</i></u>		Printed Name/Signature		Date <u>05/12/2015</u>
b. Facility Reviewer (*) <u>N/A</u>		N/A		N/A
c. NRC Chief Examiner (#) <u>Andreas Goldau / <i>Andreas Goldau</i></u>		<i>Andreas Goldau</i>		<u>05/18/2015</u>
d. NRC Supervisor <u>Gerald S. McCoy / <i>Gerald S. McCoy</i></u>		<i>Gerald S. McCoy</i>		<u>5/20/2015</u>
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines				

# FINAL EXAM SUBMITTAL / AUTHORIZATION OF OPERATING TEST AND WRITTEN EXAM.

ES-201

## Examination Outline Quality Checklist

Form ES-201-2

Facility: Ocone		Date of Examination: 12/07/2015		
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 or ES-401N.	*	*	M
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 or ES-401N and whether all K/A categories are appropriately sampled.	*	*	M
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	a	b	M
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	a	b	M
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.	a	b	M
	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.	a	b	M
	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.	a	b	M
3. W A L K  T H R O U G H	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.	a	b	M
	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	a	b	M
	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	a	b	M
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.	a	b	M
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	a	b	M
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	a	b	M
	d. Check for duplication and overlap among exam sections.	a	b	M
	e. Check the entire exam for balance of coverage	a	b	M
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	a	b	M
a. Author: <u>Sam Lark</u> b. Facility Reviewer (*): <u>John Lawson</u> c. NRC Chief Examiner (#): <u>Andreas Goldau</u> d. NRC Supervisor: <u>Gerald McCoy</u>		Printed Name/Signature: <u>Sam Lark</u> Date: <u>11/18/15</u> <u>11/15/15</u> <u>11/23/15</u> <u>11/25/2015</u>		
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines.				

\* WRITTEN EXAM OUTLINES DEVELOPED BY NRC.

② A. GOLDAU IS CHIEF EXAMINER UNDER INSTRUCTION;  
M. MEEKS IS CHIEF EXAMINER OF RECORD.



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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 Nov. 30, 2015 & Dec. 14, 2015 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 Nov. 30, 2015 & Dec. 14, 2015. 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. Robert Shaw	SRO	[Signature]	9-29-15	[Signature]	1-5-16	
2. JOHN DIMUZIO	RO	[Signature]	9-29-15	[Signature]	1-6-16	
3. John R Stealy	TRNG MGR	[Signature]	10-2-15	[Signature]	12-16-15	
4. CRAIG T BAUMANN	RO	[Signature]	10-4-15	[Signature]	12-17-15	
5. Bradley Mason	RO	[Signature]	10-5-15	[Signature]	1-5-16	
6. Edward Slaughter	SRO	[Signature]	10-5-15	[Signature]	1-5-16	
7. Tim Chapman	SRO	[Signature]	10-5-15	[Signature]	12-17-15	
8. John R. Johnson	IT Tech	[Signature]	10-14-15	[Signature]	12-21-15	
9. Staal Holden	Backlight / Lighting	[Signature]	11-2-15	[Signature]	12-17-15	
10. Lyann Sheriff	Backlight / Lighting	[Signature]	11-2-15	[Signature]	12-17-15	
11. BRIAN MORRIS	SRO	[Signature]	11-3-15	[Signature]	12-17-15	
12. Joshua Arwert	RO	[Signature]	11-9-15	[Signature]	12-21-15	
13. RUDOLPH RUDER	RO	[Signature]	11-9-15	[Signature]	12-18-15	
14. Daniel E. Strauderman	SRO	[Signature]	11-9-15	[Signature]	1-5-16	
15. Sandra Sauerbrey	Reg Affairs	[Signature]	11-9-15	[Signature]	12-17-15	

NOTES:

**ES-201**

# Examination Security Agreement

Form ES-201-3

### 1. Pre-Examination

Nov. 30, 2015 & Dec. 14, 2015  
Dec. 07, 2015 as of the

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Dec. 07, 2015 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

examination  
Nov. 30, 2015

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 DEC. 7, 14, 2015. 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

1. SAM LARK

2. KEN SCHAAF

3. JOSEPH WILHELMSON

4. SCOTT BOWEN

5. JANIS LAWSON

6. JAM VAN VO

7. TERESA MERCK

8. RIK ROBINSON

9. BILL ROSTRON

10. LARRY A. HANKES

11. JEFF G. POTTMAYER

12. AGRON FOISHER

13. REBECCA PAWNE

14. FRANCISCO CALDERO III

15. DANIEL E. LINDENFOL

SIGNATURE (1)	SIGNATURE (2)	DATE	DATE	NOTE
		5/20/15	12/16/15	
		5/20/15	12-16-15	
		5-26-15	12-16-15	
		6-15-15	12-16-15	
		6-24-15	12-16-15	
		7-6-15	12-17-15	
		7-13-15	12/15	
		7-29-15	12/16	
		8-10-15	12/17/15	
		8-11-15	12/20/15	
		8/28/15	12/17/15	
		8/24/15	12-16-15	
		8/28/15	12-16-15	
		8/28/15	12-24-15	
		8-28-15	12-17-15	

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ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

























Nov. 30, 2015 & Dec. 14, 2015

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of DEC. 07, 2015 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

Nov. 30, 2015 &

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 Dec. 7, 14, 2015. 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 Appigian	SRO		8-28-15		12-17-15	
2. Judy Schmitt	Licenses Admin		9-1-15		12-16-15	
3. Ginger Ziska	OPSTNG Admin		9-2-15		12-21-15	
4. Clark Fletcher	MNS Exam Team		9-8-15		12-17-15	
5. Steven Mosteller	MNS Exam Team		9-8-15		12-23-15	
6. Mike Mettler	RO		9-16-15		12-10-15	
7. Carlos Ortiz	SRO		9-16-15		12-17-15	
8. Ryan Johnson	SRO		9-16-15		12-17-15	
9. Alan Hoyer	RO		9-16-15		12-17-15	
10. Joey Woolbright	SIM Support		9-22-15		12-16-15	
11. Steven Drepi	CWS Exam Team		9-22-15		12-17-15	
12. Steve Owens	RO		9-22-15		12-17-15	
13. Dan McCall	-SRO		9-29-15		12-31-15	
14. Jason Dancy	SRO		9-29-15		12-26-15	
15. Chris Tam	RO		9-29-15		12-26-15	

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ILT 48

1. Pre-Examination

Nov. 30, 2015 & Dec. 14, 2015

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Dec. 07, 2015 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

Nov. 30, 2015 &

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 Dec. 7, 14, 2015. 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. Josh Satterfield	operator	<i>[Signature]</i>	11/9/15	<i>[Signature]</i>	12/24/15	
2. Billy Whitman	as	<i>[Signature]</i>	11/11/15	<i>[Signature]</i>	12/26/15	
3. Chris Tisdell	SRO	<i>[Signature]</i>	11/19/15	<i>[Signature]</i>	12/17/15	
4. Bond Sargolstein	RA - Lic-505	<i>[Signature]</i>	11/21/15	<i>[Signature]</i>	12/17/15	
5. William Dickson	Xerox Printer Repairman	<i>[Signature]</i>	11/18/15	<i>[Signature]</i>	12/17/15	
6. Eric Doss	SRO	<i>[Signature]</i>	11/23/15	<i>[Signature]</i>	12/17/15	
7. Leez Norrell	TRAINING INSTRUCTOR	<i>[Signature]</i>	12/1/15	<i>[Signature]</i>	12-17-15	
8. Scott G. Morris	Instructor	<i>[Signature]</i>	12/1/15	<i>[Signature]</i>	12/17/15	
9. DANIEL K GEORGE	INSTRUCTOR	<i>[Signature]</i>	12/1/15	<i>[Signature]</i>	12/17/15	
10. WAYNE SMITH	INSTRUCTOR	<i>[Signature]</i>	12-3-15	<i>[Signature]</i>	12-17-15	
11. CHRISTOPHER A. TOL	OPS TRAINING MANAGER	<i>[Signature]</i>	12-3-15	<i>[Signature]</i>	12-17-15	
12. JIMMY MICHAEL R	OPS INSTRUCTOR	<i>[Signature]</i>	12/3/15	<i>[Signature]</i>	12/17/15	
13. Fred Williams	OPS INSTRUCTOR	<i>[Signature]</i>	12/7/15	<i>[Signature]</i>	12/17/15	
14. Matt Adair	OPS INSTRUCTOR	<i>[Signature]</i>	12/7/15	<i>[Signature]</i>	12-17-15	
15. JEFF HAYUDA	ADM-SHIFT	<i>[Signature]</i>	12/7/15	<i>[Signature]</i>	12-17-15	

NOTES:

ILT 4B

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 Nov. 30, 2015 & Dec. 14, 2015 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

Nov. 30, 2015 &

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 Dec. 7, 14, 2015. 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. Kent Brown	ADM - TRAINING		12/9/15		12/14/15	
2. Paul K. M. [unclear]	Nuclear OPS INSTRUCTION		12/7/15		12/14/15	
3. Paul V. Fish	OPS Mgr		12/9/15		12/14/15	
4. Eric R. Figg	ILT INSTRUCTOR		12/9/15		12/14/15	
5. Larry Gentry	<del>Plant Supervisor</del>		12/9/15		12/14/15	
6. Chris Harrison	Nuclear OPS INSTRUCTION		12/10/15		12/14/15	
7. Chris Harbuck	ILT SUPERVISOR		12/10/15		12/14/15	
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

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# FINAL SUBMITTAL/ EXAM AUTHORIZATION

ES-301

## Operating Test Quality Checklist

Form ES-301-3

Facility: Oconee		Date of Examination: 12/07/2015		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).	SL	Tg	Jg	MM
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	SL	Tg	Jg	MM
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	SL	Tg	Jg	MM
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	SL	Tg	Jg	MM
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	SL	Tg	Jg	MM
2. Walk-Through Criteria				--	--
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>	SL	Tg	Jg	MM
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.	SL	Tg	Jg	MM
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.		SL	Tg	Jg	MM
		Printed Name / Signature		Date	
a.	Author	JAM LARK		11/18/15	
b.	Facility Reviewer(*)	Toby Lawson		11/18/15	
c.	NRC Chief Examiner (#)	Andreas Goldau		11/23/15	
d.	NRC Supervisor	Gerry H. J. McCay		11/25/2015	
<p>NOTE: * The facility signature is not applicable for NRC-developed tests.  # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.</p>					

① A. GOLDAU IS CHIEF EXAMINER UNDER INSTRUCTION;  
M. MEEKS IS CHIEF EXAMINER OF RECORD.

# FINAL SUBMITTAL / EXAM AUTHORIZATION

ES-301

## Simulator Scenario Quality Checklist

Form ES-301-4

Facility: Oconee		Date of Exam: 12/7/2015		Scenario Numbers: 1/2/3/4		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.				OL	3	4	M
2. The scenarios consist mostly of related events.				OL	3	4	M
3. Each event description consists of <ul style="list-style-type: none"> <li>the point in the scenario when it is to be initiated</li> <li>the malfunction(s) or conditions that are entered to initiate the event</li> <li>the symptoms/cues that will be visible to the crew</li> <li>the expected operator actions (by shift position)</li> <li>the event termination point (if applicable)</li> </ul>				OL	3	4	M
4. The events are valid with regard to physics and thermodynamics.				OL	3	4	M
5. Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.				OL	3	4	M
6. 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.				OL	3	4	M
7. The simulator modeling is not altered.				OL	3	4	M
8. 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.				OL	3	4	M
9. 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.				OL	3	4	M
10. All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).				OL	3	4	M
11. The scenario set provides the opportunity for each applicant to be evaluated in each of the applicable rating factors. (Competency Rating factors as described on forms ES-303-1 and ES-303-3.)				OL	3	4	M
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).				OL	3	4	M
13. The level of difficulty is appropriate to support licensing decisions for each crew position.				OL	3	4	M
Target Quantitative Attributes (Per Scenario; See Section D.5.d)				Actual Attributes			
1. Malfunctions after EOP entry (1-2)				1 / 1 / 2 / 2			
2. Abnormal events (2-4)				4 / 4 / 4 / 3			
3. Major transients (1-2)				2 / 1 / 1 / 1			
4. EOPs entered/requiring substantive actions (1-2)				2 / 1 / 1 / 1			
5. EOP contingencies requiring substantive actions (0-2)				1 / 1 / 1 / 1			
6. EOP based Critical tasks (2-3)				3 / 2 / 1 / 2			
NOTE: <ul style="list-style-type: none"> <li>* The facility signature is not applicable for NRC-developed tests.</li> <li># Independent NRC reviewer Initial items in Column "c"; chief examiner concurrence required.</li> </ul>							

Facility: Oconee		Date of Exam: 12/07/2015									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						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P				
															R	I	U
RO <input checked="" type="checkbox"/>	RX					4			3,6			2			1	1	0
SRO-I <input type="checkbox"/>	NOR		1			1									1	1	1
SRO-U <input type="checkbox"/>	I/C		3,4			3			2,4			6,7			4	4	2
	MAJ		7			6			7			8			2	2	1
	TS														0	2	2
RO <input checked="" type="checkbox"/>	RX														1	1	0
SRO-I <input type="checkbox"/>	NOR														1	1	1
SRO-U <input type="checkbox"/>	I/C			2,5,6		2,4,5			1,3,5			1,3,4			4	4	2
	MAJ			7		6			7			8			2	2	1
	TS														0	2	2
RO <input type="checkbox"/>	RX														1	1	0
SRO-I <input type="checkbox"/>	NOR														1	1	1
SRO-U <input type="checkbox"/>	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO <input type="checkbox"/>	RX				4			3,6			2				1	1	0
SRO-I <input type="checkbox"/>	NOR	1			1										1	1	1
SRO-U <input type="checkbox"/>	I/C	2,3,4, 5,6			2,3,4, 5			1,2,3, 4,5			1,3,4, 6,7				4	4	2
<input checked="" type="checkbox"/>	MAJ	7			6			7			8				2	2	1
	TS	2,4,5			2,4			1,3,6			1,5				0	2	2

Instructions:

- 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 (SRO-I) 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 SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- 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 one-for-one basis.
- 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.
- For licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.



Facility: **Ocone**Date of Examination: **12/07/15**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 checked="" type="checkbox"/> SRO-U <input type="checkbox"/>			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	3,4, 7	3,6	2,4, 7	6,7, 8	2,5, 6,7	2,4, 5,6	1,3, 5,6, 7	1,3, 4,8	2,3, 4,5, 6,7	2,3, 4,5, 6	1,2, 3,4, 5,6, 7	1,3, 4,5, 6,7, 8				
Comply With and Use Procedures (1)	1,3, 4,7	1,3, 4,6	2,3, 4,6, 7	2,6, 7,8	2,5, 6,7	2,4, 5,6	1,3, 5,6, 7	1,3, 4,8	1,2, 3,4, 5,6, 7	1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7	1,2, 3,4, 5,6, 7,8				
Operate Control Boards (2)	1,3, 4,7	1,3, 4,6	2,3, 4,6, 7	2,6, 7,8	2,5, 6,7	2,4, 5,6	1,3, 5,6, 7	1,3, 4,8								
Communicate and Interact	1,2, 3,4, 5,6, 7	1,3, 4,6	2,3, 4,6, 7	2,6, 7,8	1,2, 3,4, 5,6, 7	2,4, 5,6	1,2, 3,4, 5,6, 7	1,2, 3,4, 6,7, 8	1,2, 3,4, 5,6, 7	1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7	1,2, 3,4, 5,6, 7,8				
Demonstrate Supervisory Ability (3)									1,2, 3,4, 5,6, 7	1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7	1,2, 3,4, 5,6, 7,8				
Comply With and Use Tech. Specs. (3)									2,4, 5	2,4	1,3, 6	1,5				

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. (This includes all rating factors for each competency.) (Competency Rating factors as described on forms ES-303-1 and ES-303-3.)

The Final Written Exam Sample Plan for OCONEE 2015-302 ILO Exam may be obtained by combining the initial sample plan (ES-401-2 and ES-401-3 forms) with the K/A changes as documented in the final ES-401-4 form.

Facility: <u>OCONEE</u>		Date of Exam: <u>12/16/15</u>		Exam Level: RO <input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/>	
Item Description		Initials			
		a	b	c	
1.	Clean answer sheets copied before grading	<u>M</u>	<u>N/A</u>	<u>AG</u>	
2.	Answer key changes and question deletions justified and documented	<u>M</u>	<u>N/A</u>	<u>AG</u>	
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>M</u>	<u>N/A</u>	<u>AG</u>	
4.	Grading for all borderline cases (80 $\pm$ 2% overall and 70 or 80, as applicable, $\pm$ 4% on the SRO-only) reviewed in detail	<u>M</u>	<u>N/A</u>	<u>AG</u>	
5.	All other failing examinations checked to ensure that grades are justified	<u>M</u>	<u>N/A</u>	<u>AG</u>	
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<u>M</u>	<u>N/A</u>	<u>AG</u>	
Printed Name/Signature		Date			
a. Grader	<u>MICHAEL MEEKS / Michael Meeks</u>	<u>01/12/2016</u>			
b. Facility Reviewer(*)	<u>N/A</u>	<u>N/A</u>			
c. NRC Chief Examiner (*)	<u>Andreas Goldau / [Signature]</u>	<u>01/13/2016</u>			
d. NRC Supervisor (*)	<u>GERARD McCreary / [Signature]</u>	<u>1/21/2016</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					





Scott L. Batson  
Vice President  
Oconee Nuclear Station

ONS-2015-100

**Duke Energy**  
ON01VP | 7800 Rochester Hwy  
Seneca, SC 29672

September 3, 2015

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Scott.Batson@duke-energy.com

Mr. Victor McCree, Regional Administrator  
U.S. Nuclear Regulatory Commission, Region II  
Marquis One Tower  
245 Peachtree Center Ave., NE, Suite 1200  
Atlanta, GA 30303-1257

Subject: OCONEE NUCLEAR STATION  
Operating Exam Outlines - 90 day submittal

Dear Mr. McCree:

In accordance with the provisions of NUREG-1021, Duke Energy is submitting the operating exam outlines, quality checklists, and other documentation as required for the initial license operating exam scheduled for the week of December 7, 2015, at the Oconee Training Center, Oconee Nuclear Site. The enclosures are listed below.

- Form ES-201-2, Examination Outline Quality Checklist
- Form ES-201-3, Examination Security Agreement
- Form ES-301-1, RO Administrative Topics Outline
- Form ES-301-1, SRO Administrative Topics Outline
- Form ES-301-2, RO Control Room/In-Plant Systems Outline
- Form ES-301-2, SRO (U) Control Room/In-Plant Systems Outline
- Form ES-301-5, Transient and Event Checklist
- Form ES-D-1, Scenario outline (four)
- Form ES-401-4, Record of Rejected K/As

If you require any additional information, or have any questions, please contact Cliff Witherspoon at (864) 873-4330 or Sam Lark at (864) 873-3642.

Sincerely,

Scott L. Batson  
Vice President  
Oconee Nuclear Station

Enclosures

cc: Gerald J. McCoy, Chief  
U.S. Nuclear Regulatory Commission, Region II  
Division of Reactor Safety  
Operations Branch  
Marquis One Tower  
245 Peachtree Center Ave., NE, Suite 1200  
Atlanta, GA 30303-1257

Michael Meeks  
U.S. Nuclear Regulatory Commission, Region II  
Division of Reactor Safety  
Operations Branch  
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245 Peachtree Center Ave., NE, Suite 1200  
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**Scott L. Batson**  
Vice President  
Oconee Nuclear Station

ONS-2015-104

**Duke Energy**  
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October 6, 2015

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Mr. Leonard D. Wert, Jr., Regional Administrator (Acting)  
U.S. Nuclear Regulatory Commission, Region II  
Marquis One Tower  
245 Peachtree Center Ave., NE, Suite 1200  
Atlanta, GA 30303-1257

Subject: OCONEE NUCLEAR STATION  
ILT48 NRC Exam - 60 day submittal

Dear Mr. McCree:

In accordance with the provisions of NUREG-1021, Operator Licensing Examination Standards for Power Reactors, Duke Energy is submitting the written exam, operating exam, quality checklists, and other documentation as required for the initial license exam scheduled for the week of December 7, 2015, at the Operator Training Center, Oconee Nuclear Site. Submitted for review are:

- One set of Administrative JPMs with handouts,
- One set of Control Room/In-Plant JPMs with handouts,
- Form ES-201-2, Examination Outline Quality Checklist,
- Form ES-201-3, Examination Security Agreement,
- Form ES-301-1, RO Administrative Topics Outline,
- Form ES-301-1, SRO Administrative Topics Outline,
- Form ES-301-2, RO Control Room/In-Plant Systems Outline,
- Form ES-301-2, SRO (U) Control Room/In-Plant Systems Outline,
- Form ES-301-3, Operating Test Quality Checklist,
- Form ES-301-4, Simulator Scenario Quality Checklist,
- Form ES-301-5, Transient and Event Checklist,
- Form ES-301-6, Competencies Checklist,
- Form ES-D1 for Four Simulator Scenarios,
- Form ES-D2 for Four Simulator Scenarios,
- Form ES-401-4, Record of Rejected K/As,
- Form ES-401-6, Written Examination Quality Checklist,
- RO written exam (with reference package),
- RO written exam key,
- SRO written exam (with reference package),
- SRO written exam key,
- Exam questions with answer analysis,
- Reference material on a DVD.



U.S. Nuclear Regulatory Commission, Region II  
October 6, 2015  
Page 2

If you require any additional information, or have any questions, please contact  
Cliff Witherspoon at (864) 873-4330 or Sam Lark at (864) 873-3642.

Sincerely,

A handwritten signature in black ink, appearing to read "Scott L. Batson", with a long horizontal flourish extending to the right.

Scott L. Batson  
Vice President  
Oconee Nuclear Station

cc: Gerald J. McCoy, Chief  
U.S. Nuclear Regulatory Commission, Region II  
Division of Reactor Safety  
Operations Branch  
Marquis One Tower  
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Michael Meeks  
U.S. Nuclear Regulatory Commission, Region II  
Division of Reactor Safety  
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Scott L. Batson  
Vice President  
Oconee Nuclear Station

ONS-2015-121

**Duke Energy**  
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December 17, 2015

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Mr. Leonard D. Wert, Jr., Regional Administrator (Acting)  
U.S. Nuclear Regulatory Commission, Region II  
Marquis One Tower  
245 Peachtree Center Ave., NE, Suite 1200  
Atlanta, GA 30303-1257

Subject: OCONEE NUCLEAR STATION  
ILT48 Post Exam Submittal

Dear Mr. Wert:

An NRC initial license operating exam was administered the week of December 7, 2015. The associated written exam was administered on December 16, 2015. Oconee has no post exam comments. Enclosed for your review as directed by NUREG 1021 are the following:

- A student seating chart,
- The original student answer sheets,
- The original signed exam cover sheets,
- Two clean copies of the student answer sheets,
- A copy of the RO exam,
- A copy of the SRO exam,
- An RO exam key,
- An SRO exam key,
- A compiled list of student comments and proctor answers.

If you require any additional information, or have any questions, please contact Cliff Witherspoon at (864) 873-4330 or Sam Lark at (864) 873-3642.

Sincerely,

Scott L. Batson  
Vice President  
Oconee Nuclear Station



cc: Gerald J. McCoy, Chief  
U.S. Nuclear Regulatory Commission, Region II  
Division of Reactor Safety  
Operations Branch  
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