

Administrative Documents
OCONEE JUNE 2003 RETAKE
EXAM 50-269/2003-302

OCTOBER 17, 2003

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

Facility: <u>Duke</u>		Date of Examination: <u>10/17/04</u>
Examinations Developed by: <u>Facility</u> / NRC (circle one)		
Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	R
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	R
-120	3. Facility contact briefed on security & other requirements (C.2.c)	R
-120	4. Corporate notification letter sent (6.2.d)	R
[-90]	[5. Reference material due (C.1.e; C.3.c)]	R
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	R
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	R
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	R
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	R
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	R
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	R
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	R
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	R
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	R
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	R
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	R

Facility: Oconee		Date of Examination: October 17, 2003		
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 per ES-401.	N/A	N/A	N/A
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	↓	↓	↓
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	↓	↓	↓
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	↓	↓	↓
2. S I M	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients.	Gen	JD	Ⓚ
	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; ensure 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 scenarios will not be repeated on subsequent days.	Gen	JD	Ⓚ
	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.	Gen	JD	Ⓚ
3. W / T	a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, (2) no more than 30% of the test material is repeated from the last NRC examination, (3)* no tasks are duplicated from the applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	N/A	N/A	N/A
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, (2) one task is conducted in a low-power or shutdown condition. (3) 4 - 6 (2-3 for SXO-U) of the tasks require the applicant to implement an alternate path procedure, (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and (5) the in-plant walk-through requires the applicant to enter the RCA.	↓	↓	↓
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	↓	↓	↓
	d. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	↓	↓	↓
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	Gen	JD	Ⓚ
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	N/A	N/A	N/A
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	N/A	↓	↓
	d. Check for duplication and overlap among exam sections.	N/A	↓	↓
	e. Check the entire exam for balance of coverage.	Gen	JD	Ⓚ
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	Gen	JD	Ⓚ
<p style="text-align: center;">Printed Name / Signature</p> <p>a Author <u>Gabriel Washburn / Habib Washburn</u></p> <p>b Facility Reviewer (*) <u>John R. Speil / John B. Steady</u></p> <p>e NRC Chief Examiner (#) <u>Kathleen O'Dowhan / Kathleen O'Dowhan</u></p> <p>d NRC Supervisor <u>MICHAEL E. ERNSTES / Michael E. Ernestes</u></p>		<p style="text-align: center;">Date</p> <p>9-16-2003</p> <p>9-16-2003</p> <p>9/16/2003</p> <p>10/16/2003</p>		
<p>Note: * Not applicable for NRC-developed examinations. # Independent MRC reviewer initial items in Column "c;" chief examiner concurrence required.</p>				

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 10/13/2003 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. 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 10/13/2003. 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
Gabriel WASHBURN	Instructor / Exam developer	Gabriel Washburn	9-2-03	Gabriel Washburn	10-2-03
John R Steehy	Initial Training for Operators	John R Steehy	9-4-03	John R Steehy	10-17-03
TAM V. VO	Simulator Support	TAM V. VO	9-8-03	TAM V. VO	10-20-03
Allen G. Collins	I.T. Professional Services	Allen G. Collins	9-8-03	Allen G. Collins	10/20/03
Thomas W Rice	Simulator Support	Thomas W Rice	9-8-03	Thomas W Rice	10/20/03
Jeff G. Pothoyne	Simulator Support	Jeff G. Pothoyne	9-8-03	Jeff G. Pothoyne	10/17/03
KEITH P WELCHER	Simulator Support	Keith P. Welch	9-8-03	Keith P. Welch	10-20-03
Rick Robinson	OPS Crew	Rick Robinson	9-10-03	Rick Robinson	10-17-03
Shirley D. Huskey	Admin Specialist	Shirley D. Huskey	9/15/03	Shirley D. Huskey	10-21-03
Neil Constance	Manager - Operator Training	Neil Constance	9/15/03	Neil Constance	10-17-03
William McIntyre	NSS - SRO	William McIntyre	9/26/03	William McIntyre	10-22-03
Ben Gillespie	R.O.	Ben Gillespie	9-26-03	Ben Gillespie	11-6-03
CARLOS L MINOR	R.O.	Carlos L Minor	9-26-03	Carlos L Minor	10-27-03
JEFF HREYDA	R.O.	Jeff Hreyda	10-1-03	Jeff Hreyda	10-21-03
Darist. Yengue	SRO	Darist. Yengue	10/1/03	Darist. Yengue	10/21/03

NOTES:

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1. Pre-Examination
2. Post-Examination

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PRINTED NAME JOB TITLE / RESPONSIBILITY SIGNATURE (1) DATE SIGNATURE (2) DATE NOTE

1	Earl D. [Signature]	RD	[Signature]	10-1-03	[Signature]	10-21-03
2	Tony R. Lee	GPS Training Liaison	Tom R. Lee	10-16-03	Tom R. Lee	10-17-03
3	Olson R. Mercado	Ops Instructor	Olson R. Mercado	10-17-03	Olson R. Mercado	10-17-03
4	T. Preston Gillispie	son	[Signature]	10-17-03	[Signature]	10-17-03
5	Regis T. Reple	Supervisor of Operations	Regis T. Reple	10-17-03	Regis T. Reple	10-17-03

NOTES:

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Final Submittal

Facility: Oconee		Date of Examination: October 17, 2003		Operating Test Number: 1	
1. GENERAL CRITERIA				Initials	
				a	b*
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).	[Signature]	[Signature]	[Signature]	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	[Signature]	[Signature]	[Signature]	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	[Signature]	[Signature]	[Signature]	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.				
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	[Signature]	[Signature]	[Signature]	
2. WALK-THROUGH CRITERIA				--	--
a.	Each JPM includes the following, as applicable: 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 specific performance criteria that include: - 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				
b.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.				
c.	At least 20 percent of the JPMs on each test are new or significantly modified.				
3. SIMULATOR CRITERIA				-	-
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	[Signature]	[Signature]	[Signature]	
Printed Name / Signature		Date			
a. Author	<u>Gabriel Washburn / Galib D. Washburn</u>	<u>10-3-2003</u>			
b. Facility Reviewer(*)	<u>Neil Constance / Neil Constance</u>	<u>10-3-2003</u>			
c. NRC Chief Examiner (#)	<u>Kathleen O'Donoghue / Kathleen O'Donoghue</u>	<u>10-3-2003</u>			
d. NRC Supervisor	<u>MICHAEL E. ERNSTES / Michael E. Ernestes</u>	<u>10-6-2003</u>			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.					

Final Submittal

Facility: Oconee		Date of Exam: October 17, 2003		Scenario Numbers: 1 / Spare		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.	JKW	NSL	Ⓢ			
2.	The scenarios consist mostly of related events.	JKW	NSL	Ⓢ			
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) 	JKW	NSL	Ⓢ			
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.	JKW	NSL	Ⓢ			
5.	The events are valid with regard to physics and thermodynamics.	JKW	NSL	Ⓢ			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	JKW	NSL	Ⓢ			
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.	JKW	NSL	Ⓢ			
8.	The simulator modeling is not altered.	JKW	NSL	Ⓢ			
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	JKW	NSL	Ⓢ			
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.	JKW	NSL	Ⓢ			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	JKW	NSL	Ⓢ			
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).	JKW	NSL	Ⓢ			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	JKW	NSL	Ⓢ			
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)		Actual Attributes					
1.	Total malfunctions (5-8)	8	7	JKW NSL Ⓢ			
2.	Malfunctions after EOP entry (1-2)	2	2	JKW NSL Ⓢ			
3.	Abnormal events (2-4)	2	2	JKW NSL Ⓢ			
4.	Major transients (1-2)	1	1	JKW NSL Ⓢ			
5.	EOPs entered/requiring substantive actions (1-2)	2	1	JKW NSL Ⓢ			
6.	EOP contingencies requiring substantive actions (0-2)	2	1	JKW NSL Ⓢ			
7.	Critical tasks (2-3)	7	4	JKW NSL Ⓢ			

OPERATING TEST NO.: 1

Applicant Type	Evolution Type	Minimum Number	Scenario Number								
			1			Spare			3		
			SRO	RO	BOP	SRO	RO	BOP	SRO	RO	BOP
RO	Reactivity	1*		6			7				
	Normal	1*		1			1				
	Instrument/Component	4*		2, 3 4, 7			2, 3 4, 5				
	Major	1		8			9				

As RO	Reactivity	1*									
	Normal	0									
	Instrument/Component	2*									
	Major	1									

As SRO	Normal	1*									
	Instrument/Component	2*									
	Major	1									

SRO-U	Reactivity	0	6			7					
	Normal	1*	1			1					
	Instrument/component	2*	2, 3 4, 7			2, 3 4, 5					
	Major	1	8			9					

- Instructions:
- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 - (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 *one-for-one* 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 requirement.

Author:

Richard Work

NRC Reviewer:

Kathleen Amber

Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	N/A
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	N/A
3. Operating tests graded by NRC examiners	10/21/03
4. NRC Chief examiner review of written exam and operating test grading completed	10/28/03
5. Responsible supervisor review completed	10/28/03
6. Management (licensing official) review completed	10/28/03
7. License and denial letters mailed	10/30/03
8. Facility notified of results	10/30/03
9. Examination report issued (refer to NRC MC 0610-0612)	11/14/03
10. Reference material returned after final resolution of any appeals	n/a