

EXAM ASSIGNMENT TICKLER

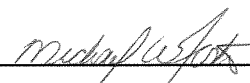



Chief:	C. Osterholtz	Facility:	ANO-2	Date of Written Exam:	8/24/2012	
Start of Op Test:			8/27/2012	End of Op Test:		9/7/2012
Written Exam Developed By: NRC / Facility			Operating Test Developed By: NRC / Facility			
Due Date	Description	Date Complete	Initials	Notes		
2/27/2012	Written Exam & Op Test Dates Confirmed	2/21/12	CO			
4/23/2012	NRC Examiners & Facility Contact Assigned	2/21/12	CO			
4/23/2012	Facility Contact Briefed on Security & Other Req's	2/21/12	CO			
4/23/2012	Corporate Notification Letter sent	2/23/12	CO	ES-201 Att-4 produced by CE		
5/28/2012	Reference material due (if NRC authored)	N/A	N/A	ES-201 Att-3		
6/11/2012	Integrated exam outlines due	6/12/12	CO			
6/18/2012	Outlines reviewed by CE; feedback approved by BC	6/19/12	CO	ES-201-2 signed by CE & BC		
6/18/2012	Feedback on integrated outlines provided to facility	6/13/12	CO			
7/9/2012	DRAFT exam / docs / support reference material due	7/13/12	CO			
7/23/2012	Peer review of written exam complete	7/27/12	CO	Document review on ES-401-9		
7/23/2012	Preliminary license applications due	8/3/12	CO	NRC Forms 398/396		
7/30/2012	Preliminary license applications and waivers reviewed	8/16/12	CO			
7/30/2012	DRAFT exam reviewed by CE; feedback approved by BC	7/27/12	CO			
7/30/2012	Feedback on DRAFT exam provided to facility	7/27/12	CO			
7/30/2012	On-site validation & 10% audit of license applications	8/16/12	CO			
8/13/2012	Final applications due & List of Applicants prepared	8/16/12	CO	ES-201-4 prepared by LA		
8/20/2012	Final applications approved & waiver letters sent	8/16/12	CO			
8/20/2012	Branch Chief approves FINAL exam (Written & Op Test)	8/16/12	CO	LA produces / BC signs Exam Approval Letter (ES-201 Att-5)		
8/20/2012	Proctoring/written exam admin guidelines reviewed w/ facility	8/21/12	CO			
8/20/2012	Exam material to exam team	8/11/12	CO			
8/27/2012	Administer Operating Test	8/27/12	CO			
8/31/2012	Facility post-exam documentation due	9/24/12	CO			
8/31/2012	NRC written exam grading completed	9/24/12	CO	ES-403-1 to BC		
9/14/2012	Examiner's document op test results on ES 303's	9/24/12	CO			
9/7/2012	Chief Examiner review of written exam & op test completed	9/24/12	CO	Signed ES 303's to BC		
9/14/2012	Branch Chief review of exam results completed	9/26/12	CO			
9/21/2012	Waivers/deferrals reviewed for impact on licensing decision	9/26/12	CO			
9/21/2012	License/Denial letters mailed; Facility notified of results	9/26/12	CO			
9/21/2012	RPS/IP number of examinees updated	9/26/12	CO	print Report-21		
10/5/2012	Examination Report Issued	10/10/12	CO	produced by CE		
10/12/2012	SUNSI checklist complete and exam docs to ADAMS	10/10/12	CO	SUNSI checklist to LA		
10/19/2012	Ref Mat'l Returned after Final Resolution of Appeals	9/26/12	CO			
Replaces NUREG-1021, Revision 9, Supp 1, Forms ES-201-1 and ES-501-1						

Facility: Arkansas Nuclear One Unit 2		Date of Examination: 8/24/2012		
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.	NE	RM	CW
	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.	NE	RM	CW
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	NE	RM	CW
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	NE	RM	CW
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.	ZE	RM	CW
	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 scenarios will not be repeated on subsequent days.	ZE	RM	CW
	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.	ZE	RM	CW
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	ZE	RM	CW
	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	ZE	RM	CW
	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.	ZE	RM	CW
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.	NE	RM	CW
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	NE	RM	CW
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	NE	RM	CW
	d. Check for duplication and overlap among exam sections.	NE	RM	CW
	e. Check the entire exam for balance of coverage.	NE	RM	CW
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	NE	RM	CW
a. Author <u>Michael W Foster / Zac Lacy</u> <i>Michael W Foster / Zac Lacy</i> b. Facility Reviewer (*) <u>Randal Martin</u> <i>Randal Martin</i> c. NRC Chief Examiner (#) <u>C. Osterhutte</u> <i>C. Osterhutte</i> d. NRC Supervisor <u>MARK HAARE</u> <i>Mark Haare</i>		Printed Name / Signature Date 7/11/12 7-11-12 7-12-12 7/19/12		
NOTE: # Independent NRC Reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines.				

Facility: Arkansas Nuclear One Unit 2		Date of Exam:		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.	NR	PKM	CD			
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	NR	PKM	CD			
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	NR	PKM	CD			
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 exam, consult the NRR OL program office).			CD			
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 ___ the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or ___ other (explain)	NR	PKM	CD			
6. Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.	Bank	Modified	New	NR	PKM	CD
	10.7%/4%	20%/20%	69.3%/76%			
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 KAs support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.	Memory		C/A	NR	PKM	CD
	40% / 36%		60% / 64%			
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	NR	PKM	CD			
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	NR	PKM	CD			
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	NR	PKM	CD			
11. The exam contains the required number of one-point, multiple choice items: the total is correct and agrees with value on cover sheet	NR	PKM	CD			
Printed Name / Signature					Date	
a. Author	Michael W Foster <i>[Signature]</i>			7-5-12		
b. Facility Reviewer (*)	Randal Martin <i>[Signature]</i>			7-5-12		
c. NRC Chief Examiner (#)	Clyde Osterholtz <i>[Signature]</i>			7/27/12		
d. NRC Regional Supervisor	Mark Hays <i>[Signature]</i>			7/27/12		
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.						

Facility: Arkansas Nuclear One		Date of Examination: 8-27-12		Operating Test Number:2012-1	
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).	ce	gs	co	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	ce	gs	co	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	ce	gs	co	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	ce	gs	co	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	ce	gs	co	
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 	ce MR	gs	co	
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.	ce	gs	co	
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.			ce	gs	co
	Printed Name / Signature	Date			
a.	Author <u> Zac Lacy / Tom Fox </u>	<u> 8-15-12 </u>			
b.	Facility Reviewer(**) <u> CLAY SIMPSON / Cathy Simpson </u>	<u> 8-16-12 </u>			
c.	NRC Chief Examiner (#) <u> Clyde Osterholte / CC Osterholte </u>	<u> 8/20/12 </u>			
d.	NRC Supervisor <u> Clyde Osterholte (CC Osterholte) </u> <u> (for M. Haire) </u>	<u> 8/20/12 </u>			
NOTE:	* The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

Facility: Arkansas Nuclear One		Date of Exam: 08-27-12		Scenario Numbers: 1 / 2 / 3 / 4		Operating Test No.: 2012-1		
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.	ce	ky	co				
2.	The scenarios consist mostly of related events.	ce	ky	co				
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) 	ce	ky	co				
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.	ce	ky	co				
5.	The events are valid with regard to physics and thermodynamics.	ce	ky	co				
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	ce	ky	co				
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.	ce	ky	co				
8.	The simulator modeling is not altered.	ce	ky	co				
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.	ce	ky	co				
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.	ce	ky	co				
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	ce	ky	co				
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).	ce	ky	co				
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	ce	ky	co				
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes		--	--	--		
1.	Total malfunctions (5-8)	6 / 7 / 6 / 6		ce	ky	co		
2.	Malfunctions after EOP entry (1-2)	2 / 2 / 2 / 1		ce	ky	co		
3.	Abnormal events (2-4)	2 / 2 / 3 / 3		ce	ky	co		
4.	Major transients (1-2)	2 / 2 / 1 / 2		ce	ky	co		
5.	EOPs entered/requiring substantive actions (1-2)	2 / 1 / 1 / 1		ce	ky	co		
6.	EOP contingencies requiring substantive actions (0-2)	1 / 0 / 0 / 0		ce	ky	co		
7.	Critical tasks (2-3)	3 / 2 / 3 / 3		ce	ky	co		

Facility: Arkansas Nuclear One Unit 2				Date of Exam: 8/24/2012		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	NR	GJF	CO						
2. Answer key changes and question deletions justified and documented	NA	N/A and	CO						
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	NR	GJF	CO						
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	NR	GJF	CO						
5. All other failing examinations checked to ensure that grades are justified	NA	N/A and	CO						
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	NR	GJF	CO						
Printed Name/Signature		Date							
a. Grader	Michael Foster		8/24/2012						
b. Facility Reviewer(*)	Clay Simpson		8/24/2012 9-7-12						
c. NRC Chief Examiner (*)	Clyde Osterholtz		9/25/12						
d. NRC Supervisor (*)	Vince Gaddy		9/25/12						
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.									

Operator Licensing Exam Schedule

From 04/01/2011 To 10/31/2012

Region: 4 Phase Code: Operating Reactors (5)

Exam Week	Site/Docket No./Insp Rpt #	# Candidates	Type	Exam Author	Chief Examiner	Examiners Assigned
04/01/2012	Arkansas Nuclear One / 05000368 / TAC #: X02492	RO - 7 SROU - 2	Prep	FFF	OSTERHOLTZ, CLYDE C.	BUCHANAN, THERESA D. DRAKE, JAMES F. OSTERHOLTZ, CLYDE C. STRICKLAND, DUANE G.
06/01/2012	Arkansas Nuclear One / 05000313 / TAC #: X02499		Prep	FNF	OSTERHOLTZ, CLYDE C.	FARINA, THOMAS J. HEDGER, SEAN D. LARSON, BRIAN T. OSTERHOLTZ, CLYDE C.
07/30/2012	Arkansas Nuclear One / 05000368 / TAC #: X02492	RO - 7 SROU - 2	Prep	FFF	OSTERHOLTZ, CLYDE C.	BUCHANAN, THERESA D. DRAKE, JAMES F. OSTERHOLTZ, CLYDE C. STRICKLAND, DUANE G.
08/27/2012	Arkansas Nuclear One / 05000368 / TAC #: X02492	RO - 7 SROU - 2	Admin	FFF	OSTERHOLTZ, CLYDE C.	BUCHANAN, THERESA D. DRAKE, JAMES F. OSTERHOLTZ, CLYDE C. STRICKLAND, DUANE G.
09/04/2012	Arkansas Nuclear One / 05000368 / TAC #: X02492	RO - 7 SROU - 2	Doc	FFF	OSTERHOLTZ, CLYDE C.	BUCHANAN, THERESA D. DRAKE, JAMES F. OSTERHOLTZ, CLYDE C. STRICKLAND, DUANE G.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8-27-12 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 8-27-12. 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. MICHAEL W FOSTER	OPS INST / EXAM LEAD	<i>[Signature]</i>	3/20/12	<i>[Signature]</i>	9-5-12
2. David Z Lacy	OPS INST / Exam developer	<i>[Signature]</i>	3/20/12	<i>[Signature]</i>	8-31-12
3. Denver R Walker	Sim Support	<i>[Signature]</i>	4/19/12	<i>[Signature]</i>	9/4/12
4. Dorell W Jones	Sim Support	<i>[Signature]</i>	4/19/12	<i>[Signature]</i>	9/4/12
5. Randal Martin	Ops Support / Facility Per	<i>[Signature]</i>	4-26-12	<i>[Signature]</i>	9-4-12
6. John L Park	Ops Inst / Exam Developer	<i>[Signature]</i>	4-26-12	<i>[Signature]</i>	9-4-12
7. David Davis	Reactor Operator / Validator	<i>[Signature]</i>	5-30-12	<i>[Signature]</i>	9-5-12 Per Telecon
8. BRENT EFIELD	SRO / Validator	<i>[Signature]</i>	5-30-12	<i>[Signature]</i>	9-4-12 Per Telecon
9. ROBERT J BAKER	SRO / Validator	<i>[Signature]</i>	5-30-12	<i>[Signature]</i>	9-4-12 Per Telecon
10. Larry Smith	RO / Validator	<i>[Signature]</i>	5/30/12	<i>[Signature]</i>	9-5-12 Per Telecon
11. Marcus Schacht	OPS MGR.	<i>[Signature]</i>	4/15/12	<i>[Signature]</i>	9-5-12 Per Telecon
12. LADD BERSKLE	FX ENGINEER	<i>[Signature]</i>	6/27/12	<i>[Signature]</i>	9-4-12 Per Telecon
13. CLAY SIMMONS	TRUB SUPP	<i>[Signature]</i>	2-27-12	<i>[Signature]</i>	9-3-12
14. Timothy Stewart	RO / Validator	<i>[Signature]</i>	7-30-12	<i>[Signature]</i>	9-5-12 Per Telecon
15. Tavis Kenefroe	RO / Validator	<i>[Signature]</i>	9-30-12	<i>[Signature]</i>	9-4-12

NOTES:

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (4)	DATE	SIGNATURE (2)	DATE NOTE
1. Jason E. Baker	Exam validator		7/30		8/31/12
2. Dustin Hill	Exam validator		7/30		8/31/12
3. Timothy L. Arnold	Training Supt		8/28/12		9/11/12
4. Brian J. Harley	SE staff inst / simulator support		8/28/12		8/31/12
5. James L. Luttrek	Asst. Ops Mgr		8/29/12		8/31/12
6. _____	_____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____

NOTES: