

EXAM ASSIGNMENT TICKLER

Chief:	Chief Examiner	Facility:	CAL	Date of Written Exam:	3/13/2019
U/I:	K Clayton	Start of Op Test:	3/4/2019	End of Op Test:	3/8/2019
Written Exam Developed By: Facility			Operating Test Developed By: Facility		
Due Date	Description	Date Complete	Initials	Notes	
7/2/2018	Examination administration date confirmed	6/4/18	KDE	For NRC prepared exams, arrangements made for the facility to submit reference materials	
8/6/2018	NRC examiners and facility contact assigned	6/4/18	KDE		
8/6/2018	Facility contact briefed on security and other requirements	6/4/18	KDE		
8/6/2018	Reference material due for NRC prepared exams	N/A	—	ES-201 Att-3	
8/6/2018	Corporate Notification Letter sent	7/26/18	KDE	ES-201 Att-4 produced by CE	
8/20/2018	NRC developed written examination outline sent to facility contact	6/4/18	KDE	ES-401-1/2 and ES-401-3	
10/1/2018	Operating test outline(s) and other checklists due	10/2/18	KDE	ES-201-2, 201-3, 301-1, 301-2, 301-5, D-1	
10/15/2018	Operating test outline(s) reviewed by NRC and feedback provided to facility licensee	10/10/18	KDE	ES-201-2 signed by CE & BC	
12/17/2018	Proposed exams, outlines, supporting documentation, and reference materials due.	12/17/18	KDE	Exams prepared by the NRC are approved by BC and forwarded for facility licensee review	
12/24/2018	Peer review of written exam complete	12/21/18	KDE	Document review on ES-401-9	
1/14/2019	Written exam and operating test reviews completed	1/14/19	KDE	Document review on ES-401-9	
1/28/2019	Feedback approved by Branch Chief	1/25/19	KDE		
1/28/2019	Examination review results discussed between NRC and facility licensee	1/25/19	KDE		
2/4/2019	Preliminary license applications & waiver/excusal requests due	2/5/19	KDE	NRC Forms 398/396	
2/4/2019	On-site validation & 10% audit of license applications	2/4/19	KDE		
2/11/2019	Preliminary license applications and waivers reviewed	2/7/19	KDE		
2/18/2019	Final license applications & waiver/excusal requests due	2/19/19	KDE	ES-201-4 prepared by LA 2/18 Holiday	
2/25/2019	Written exams and operating tests approved by Branch Chief	2/22/19	KDE		
2/25/2019	Request facility licensee management feedback on the exam	2/23/19	KDE		
2/25/2019	Final applications reviewed and audited; exam approval and waiver/excusal letters sent	2/25/19	KDE	LA produces / BC signs Exam Approval Letter (ES-201 Att-5)	
2/25/2019	Proctoring/written exam administration guidelines reviewed with facility licensee	2/4/19	KDE		
2/25/2019	Approved scenarios and JPMs distributed to examiners	2/25/19	KDE		
3/4/2019	Administer Operating Test	3/4/19	KDE		
3/15/2019	Examiner's document op test results on ES 303's	3/15/19	KDE		
4/2/2019	Post exam comments and graded exams received	3/19/19	KDE	ES-403-1 to BC	
4/10/2019	Post exam written comments reviewed and incorporated and NRC grading completed	3/19/19	3/19/19		
4/10/2019	Post exam operating test comments reviewed and ES-303-1 updated	3/21/19	3/21/19		
4/17/2019	Chief examiner review of operating test and/or written exam grading completed	3/20/19	3/20/19	Signed ES 303's to BC	
4/24/2019	Branch Chief review of exam results completed	3/26/19	KDE		
5/8/2019	Waivers/deferrals reviewed for impact on licensing decision	3/26/19	KDE		
5/8/2019	License/Proposed Denial letters mailed; Facility notified of results	4/2/19	KDE		
5/8/2019	RPS/IP number of examinees updated	3/4/19	KDE	print Report-21	
5/15/2019	Examination Report Issued	4/19/19	KDE	produced by CE	
5/22/2019	SUNSI checklist complete and exam docs to ADAMS	4/14/19	KDE	SUNSI checklist to LA	
5/29/2019	Final Denial Letters mailed (if no request for informal review)	N/A	KDE	31 days after proposed denial letters mailed.	
5/29/2019	Ref Mat'l Returned after Final Resolution of Appeals	4/19/19	KDE		

Replaces NUREG-1021, Revision 11, Forms ES-201-1 and ES-501-1

Facility: Callaway		Date of Examination: Op Test Week of 3/4/19 – Written on 3/13/19		
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.	PSB	me	F
	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.	PSB	me	K
	c. Assess whether the outline overemphasizes any systems, evolutions, or generic topics.	PSB	me	K
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	PSB	me	K
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.	PSB	me	K
	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.	PSB	me	K
	c. To the extent possible, assess whether the outline(s) conforms with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D and in Section D.5, "Specific Instructions for the 'Simulator Operating Test,'" of ES-301 (including overlap).	PSB	me	K
3. W A L K T H R O U G H	a. Verify that the systems walkthrough outline meets the criteria specified on Form ES-301-2: (1) The outline(s) contains 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 applicant's 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 radiologically controlled area tasks meets the criteria on the form.	PSB	me	K
	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.	PSB	me	K
	c. Determine whether there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	PSB	me	K
4. G E N E R A L	a. Assess whether plant-specific priorities (including probabilistic risk assessment and individual plant examination insights) are covered in the appropriate exam sections.	PSB	me	K
	b. Assess whether the 10 CFR 55.41, 55.43, and 55.45 sampling is appropriate.	PSB	me	K
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	PSB	me	K
	d. Check for duplication and overlap among exam sections and the last two NRC exams.	PSB	me	K
	e. Check the entire exam for balance of coverage.	PSB	me	K
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	PSB	me	K
a. Author b. Facility Reviewer (*) c. NRC Chief Examiner (#) d. NRC Supervisor		Printed Name/Signature Phillip B Swan / <i>Phillip B Swan</i> Mark Covey / <i>Mark Covey</i> Kelly Clayton / <i>Kelly Clayton</i> Vincent Gaddy / <i>Vincent Gaddy</i>		Date 9/25/18 9-26-18 10/10/18 10/10/18

* Not applicable for NRC-prepared examination outlines.
 # The independent NRC reviewer initials items in column "c"; the chief examiner's concurrence is required.

Facility: Callaway		Date of Exam: 03/14/19		Exam Level: RO and SRO		
Item Description				Initial		
				a	b*	c*#
1.	Questions and answers are technically accurate and applicable to the facility.			PBS	me	KC
2.	a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available. c. Correct answer explanation and distractor analysis provided (ES-401, D.2.g)			PBS	me	KC
3.	SRO questions are appropriate in accordance with Section D.2.d of ES-401			PBS	me	KC
4.	The sampling process was random and systematic. (If more than four RO or two SRO questions were repeated from the last two NRC licensing exams, consult the NRR/NRO OL program office).			PBS	me	KC
5.	Question duplication from the licensee screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate. <input type="checkbox"/> The audit exam was systematically and randomly developed, or <input checked="" type="checkbox"/> the audit exam was completed before the license exam was started, or <input type="checkbox"/> the examinations were developed independently, or <input type="checkbox"/> the licensee certifies that there is no duplication, or <input type="checkbox"/> other (explain).			PBS	me	KC
6.	Bank use meets limits (no more than 75% from the bank, at least 10% new, and the rest new or modified); enter the actual RO/SRO-only question distribution(s) at right.	Bank 31/11 34/12	Modified 9/2 8/1	New 35/12 38/12	N/A	N/A
7.	Between 38 and 45 questions of the questions on the RO exam and at least 13 questions of the questions on the SRO-only portion of the exam are written at the comprehension/analysis level (see ES-401, D.2.c); enter the actual RO/SRO-only question distribution(s) at right.	Memory 31/11	C/A 44/14	N/A	N/A	KC
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.			PBS	me	KC
9.	Question content conforms to specific K/A statements in the previously approved examination outline and is appropriate for the tier to which they are assigned; deviations are justified.			PBS	me	KC
10.	Question psychometric quality and format meet the guidelines in Appendix B.			PBS	me	KC
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.			PBS	me	KC
Printed Name/Signature				Date		
a.	Author	Phillip B Swan / <i>Phillip B Swan</i>		12/14/18		
b.	Facility Reviewer (*)	Mark Covey / <i>Mark Covey</i>		12/14/18		
c.	NRC Chief Examiner (#)	Kelly Clayton / <i>Kelly Clayton</i>		2/14/19		
d.	NRC Regional Supervisor	Gregory E. Werner / <i>Gregory E. Werner</i>		02/22/19		
Note: * The facility reviewer's initials or signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initials items in Column "c"; chief examiner concurrence is required.						

Facility: Callaway		Date of Examination: Week of 3/4/19		Operating Test Number: 2019-1	
1. General Criteria		Initials			
		a	b*	c#	
a.	The operating test conforms to the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	PSB	me	KC	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	PSB	me	KC	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a.).	PSB	me	KC	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	PSB	me	KC	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	PSB	me	KC	
2. Walkthrough 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 	PSB	me	KC	
b.	Ensure that any changes from the previously approved systems and administrative walkthrough outlines (Forms ES-301-1 and ES-301-2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last two NRC examinations) specified on those forms and Form ES-201-2.	PSB	me	KC	
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.		PSB	me	KC	
Printed Name/Signature		Date			
a.	Author	Phillip B Swan	12/13/18		
b.	Facility Reviewer (*)	Mark Covey	12/14/18		
c.	NRC Chief Examiner (#)	Kelly Clayton	2/19/19		
d.	NRC Supervisor	Gregory D. Werner	02/22/19		
<p>* The facility licensee signature is not applicable for NRC-developed tests.</p> <p># The independent NRC reviewer initials items in column "c"; the chief examiner concurrence is required.</p>					

Facility: Callaway	Date of Exam: Week of 3/4/19	Scenario Numbers: 1 / 2 / 3 / 4	Operating Test No.: 2019-1		
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.	PBZ	me	KC		
2. The scenarios consist mostly of related events.	me	me	KC		
3. Each event description consists of the following: <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) or conditions 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) 	PBZ	me	KC		
4. The events are valid with regard to physics and thermodynamics.	PBZ	me	KC		
5. Sequencing and timing of events is reasonable and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	PBZ	me	KC		
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.	PBZ	me	KC		
7. The simulator modeling is not altered.	PBZ	me	KC		
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.	PBZ	me	KC		
9. Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.	PBZ	me	KC		
10. All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	PBZ	me	KC		
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.)	PBZ	me	KC		
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).	PBZ	me	KC		
13. Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.	PBZ	me	KC		
14. The level of difficulty is appropriate to support licensing decisions for each crew position.	PBZ	me	KC		
Target Quantitative Attributes per Scenario (See Section D.5.d)	Actual Attributes	--	--	--	
1. Malfunctions after EOP entry (1-2)	2 / 2 / 2 / 2	PBZ	me	KC	
2. Abnormal events (2-4)	3 / 3 / 3 / 3	PBZ	me	KC	
3. Major transients (1-2)	2 / 1 / 1 / 1	PBZ	me	KC	
4. EOPs entered/requiring substantive actions (1-2)	2 / 2 / 2 / 2	PBZ	me	KC	
5. Entry into a contingency EOP with substantive actions (≥ 1 per scenario set)	0 / 0 / 1 / 1	PBZ	me	KC	
6. Preidentified critical tasks (≥ 2)	3 / 3 / 3 / 2	PBZ	me	KC	
<p>* The facility licensee signature is not applicable for NRC-developed tests.</p> <p># An independent NRC reviewer initials items in column "c"; chief examiner concurrence is required.</p>					

ES-301

Transient and Event Checklist

Form ES-301-5

Facility: Callaway Plant		Date of Exam: March 4, 2019											Operating Test No.: 2019-1				
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(*)		
		3			2			4			1 (Spare)				R	I	U
		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				
Crew 1 I1, I2, I3	I1	1					0		2					2	1	1	0
	RO <input type="checkbox"/>	NOR	0				0		0					0	1	1	1
	SRO-I <input checked="" type="checkbox"/>	I/C	1, 2, 3, 4, 5-7				2-5		3, 4					13	4	4	2
	SRO-U <input type="checkbox"/>	MAJ	5				5		5					3	2	2	1
		TS	2, 3											2	0	2	2
	I2	RX		1		1				0				2	1	1	0
RO <input type="checkbox"/>	NOR		0		0				0				0	1	1	1	
SRO-I <input checked="" type="checkbox"/>	I/C		2-4, 5, 6		2				1-4, 6				11	4	4	2	
SRO-U <input type="checkbox"/>	MAJ		5		5				5				3	2	2	1	
	TS				3, 4								2	0	2	2	
I3	RX			0		1		2						2	1	1	0
	RO <input type="checkbox"/>	NOR		0		0		0						0	1	1	1
	SRO-I <input checked="" type="checkbox"/>	I/C		1, 2, 3, 5-7		4, 6, 7		1, 3, 4, 6					13	4	4	2	
	SRO-U <input type="checkbox"/>	MAJ		5		5		5					3	2	2	1	
		TS						1, 2						2	0	2	2

NOTE:

Totals are added from Scenarios 3, 2, and 4.

Scenario 1 attributes are not included in the totals since it was the spare.

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: Callaway Plant		Date of Exam: March 4, 2019										Operating Test No.: 2019-1						
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 (*)			
		3			2			4			1 (Spare)				R	I	U	
		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					
Crew 2 14, 15, 16	14																	
	RX	1					0		2						2	1	1	0
	RO <input type="checkbox"/>	NOR	0				0		0						0	1	1	1
	SRO-I <input checked="" type="checkbox"/>	I/C	1, 2, 3, 4, 5-7				2-5		3,4						13	4	4	2
	SRO-U <input type="checkbox"/>	MAJ	5				5		5						3	2	2	1
	TS	2,3													2	0	2	2
15	RX		1		1				0					2	1	1	0	
	RO <input type="checkbox"/>	NOR		0		0			0					0	1	1	1	
	SRO-I <input checked="" type="checkbox"/>	I/C		2-4, 5, 6		2			1-4, 6					11	4	4	2	
	SRO-U <input type="checkbox"/>	MAJ		5		5			5					3	2	2	1	
	TS				3,4									2	0	2	2	
	16	RX			0		1		2						2	1	1	0
RO <input type="checkbox"/>		NOR			0		0		0					0	1	1	1	
SRO-I <input checked="" type="checkbox"/>		I/C		1, 2, 3, 5- 7		4,6,7		1, 3, 4,6						13	4	4	2	
SRO-U <input type="checkbox"/>		MAJ		5		5		5						3	2	2	1	
TS								1,2						2	0	2	2	

NOTE:

Totals are added from Scenarios 3, 2, and 4.

Scenario 1 attributes are not included in the totals since it was the spare.

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.

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Transient and Event Checklist

Form ES-301-5

Facility: Callaway Plant		Date of Exam: March 4, 2019											Operating Test No.: 2019-1				
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 ^(*)		
		3			2			4			1 (Spare)				R	I	U
		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				
Crew 3 I7, I8, U1	I7		1		1					0				2	1	1	0
	RO <input type="checkbox"/>	NOR		0		0				0				0	1	1	1
	SRO-I <input checked="" type="checkbox"/>	I/C		2-4, 5, 6		2				1-4, 6				13	4	4	2
	SRO-U <input type="checkbox"/>	MAJ		5		5				5				3	2	2	1
		TS				3,4								2	0	2	2
I8		RX		0		1		2						2	1	1	0
	RO <input type="checkbox"/>	NOR		0		0		0						0	1	1	1
	SRO-I <input checked="" type="checkbox"/>	I/C		1, 2, 3, 5- 7		4,6,7		1, 3, 4,6						11	4	4	2
	SRO-U <input type="checkbox"/>	MAJ		5		5		5						3	2	2	1
		TS						1,2						2	0	2	2
U1		RX	1				0		SUR					1	1	1	0
	RO <input type="checkbox"/>	NOR	0				0		SUR					0	1	1	1
	SRO-I <input type="checkbox"/>	I/C	1, 2, 3, 4, 5-7				2-5		SUR					11	4	4	2
	SRO-U <input checked="" type="checkbox"/>	MAJ	5				5		SUR					2	2	2	1
		TS	2,3						SUR					2	0	2	2

NOTE: Totals are added from Scenarios 3, 2, and 4.

Scenario 1 attributes are not included in the totals since it was the spare.

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: Callaway Plant		Date of Examination: March 4, 2019		Operating Test No.: 2019-1												
Competencies	APPLICANTS – Crew 1															
	RO <input type="checkbox"/> SRO-I1 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I2 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I3 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>							
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	3 CRS	2 BOP	4 ATC	1	3 ATC	2 CRS	4 BOP	1	3 BOP	2 ATC	4 CRS	1				
Interpret/Diagnose Events and Conditions	ALL	2-5	2-5		1-7	ALL	1-4, 5-7		1,2, 4-7	1,4, 5-7	ALL					
Comply With and Use Procedures (1)	ALL	2-5	2-5		1-7	ALL	1-4, 5-7		1,2, 4-7	1,4, 5-7	ALL					
Operate Control Boards (2)	N/A	2-5	2-5		1-7	N/A	1-4, 5-7		1,2, 4-7	1,4, 5-7	N/A					
Communicate and Interact	ALL	2-5	2-5		1-7	ALL	1-4, 5-7		1,2, 4-7	1,4, 5-7	ALL					
Demonstrate Supervisory Ability (3)	ALL	N/A	N/A		N/A	ALL	N/A		N/A	N/A	ALL					
Comply With and Use Tech. Specs. (3)	2,3	N/A	N/A		N/A	3,4	N/A		N/A	N/A	1,2					
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs. Additional NOTE: Competencies for Scenarios are estimates for board operators.																

Instructions:

Check the applicant's 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.) (Forms ES-303-1 and ES-303-3 describe the competency rating factors.)

Facility: Callaway Plant		Date of Examination: March 4, 2019				Operating Test No.: 2019-1										
Competencies	APPLICANTS – Crew 2															
	RO <input type="checkbox"/> SRO-I4 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I5 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I6 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>							
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	3 CRS	2 BOP	4 ATC	1	3 ATC	2 CRS	4 BOP	1	3 BOP	2 ATC	4 CRS	1				
Interpret/Diagnose Events and Conditions	ALL	2-5	2-5		1-7	ALL	1-4, 5-7		1,2, 4-7	1,4, 5-7	ALL					
Comply With and Use Procedures (1)	ALL	2-5	2-5		1-7	ALL	1-4, 5-7		1,2, 4-7	1,4, 5-7	ALL					
Operate Control Boards (2)	N/A	2-5	2-5		1-7	N/A	1-4, 5-7		1,2, 4-7	1,4, 5-7	N/A					
Communicate and Interact	ALL	2-5	2-5		1-7	ALL	1-4, 5-7		1,2, 4-7	1,4, 5-7	ALL					
Demonstrate Supervisory Ability (3)	ALL	N/A	N/A		N/A	ALL	N/A		N/A	N/A	ALL					
Comply With and Use Tech. Specs. (3)	2,3	N/A	N/A		N/A	3,4	N/A		N/A	N/A	1,2					
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs. Additional NOTE: Competencies for Scenarios are estimates for board operators.																

Instructions:

Check the applicant's 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.) (Forms ES-303-1 and ES-303-3 describe the competency rating factors.)

Facility: Callaway Plant		Date of Examination: March 4, 2019				Operating Test No.: 2019-1										
Competencies	APPLICANTS – Crew 3															
	RO <input type="checkbox"/> SRO-I7 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I8 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO <input type="checkbox"/> SRO-U1 <input checked="" type="checkbox"/>							
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	3 ATC	2 CRS	4 BOP	1	3 BOP	2 ATC	4 CRS	1	3 CRS	2 BOP	4	1				
Interpret/Diagnose Events and Conditions	1-7	ALL	1-4, 5-7		1,2, 4-7	1,4, 5-7	ALL		ALL	2-5						
Comply With and Use Procedures (1)	1-7	ALL	1-4, 5-7		1,2, 4-7	1,4, 5-7	ALL		ALL	2-5						
Operate Control Boards (2)	1-7	N/A	1-4, 5-7		1,2, 4-7	1,4, 5-7	N/A		N/A	2-5						
Communicate and Interact	1-7	ALL	1-4, 5-7		1,2, 4-7	1,4, 5-7	ALL		ALL	2-5						
Demonstrate Supervisory Ability (3)	N/A	ALL	N/A		N/A	N/A	ALL		ALL	N/A						
Comply With and Use Tech. Specs. (3)	N/A	3,4	N/A		N/A	N/A	1,2		2,3	N/A						
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs. Additional NOTE: Competencies for Scenarios are estimates for board operators.																

Instructions:

Check the applicant's 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.) (Forms ES-303-1 and ES-303-3 describe the competency rating factors.)

Facility: Callaway		Date of Exam: 3/13/2019		Exam Level: SRO	
Item Description		Initials			
		a	b	c	
1.	Clean answer sheets copied before grading		PSZ		
2.	Proposed answer key changes and question deletions justified and documented (facility reviewer initials not required (N/R) if NO post-examination comments are submitted)	N/R	N/R	N/R	
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)		PSZ		
4.	Grading for all borderline cases (80% \pm 2% overall and 70% or 80%, as applicable, \pm 4% on the SRO-only exam) reviewed in detail		PSZ		
5.	All other failing examinations checked to ensure that grades are justified		N/R File		
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by one-half or more of the applicants		PSZ		
Printed Name/Signature		Date			
a. Grader		Lyn Sanders 3-14-19			
b. Facility Reviewer(*)	Phillip B Swan /	3/15/19			
c. NRC Chief Examiner (*)	Kelly Clayton /	3/21/19			
d. NRC Supervisor (*)	Gregory E. Werner /	03/29/2019			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Start Date	<input type="text" value="3/3/2019"/>	End Date	<input type="text" value="3/9/2019"/>	<input type="button" value="View Report"/>
Region	<input type="text" value="4"/>	Exam Author	<input type="text" value="NFF"/>	
Docket Type	<input type="text" value="P - Power"/>	Phase	<input type="text" value="5 - Operational"/>	
Include Inactive Organizations?	<input type="text" value="No"/>	Sites	<input type="text" value="Callaway"/>	
Organization	<input type="text" value="Ops Br R40KB300000"/>	Include Inactive Employees?	<input type="text" value="Exclude"/>	
Resources	<input type="text" value="Bridges, Jennifer A, Clayton, Kelly"/>	Include Comments?	<input type="text" value="No"/>	
Activity Code	<input type="text" value="EXAD, OV"/>			

IP 21 Operator Licensing Exam Schedule

From 03/03/2019 to 03/09/2019

Phase Code: 5 - Operational

Region: 4

Exam Week	Site / Docket # / Insp Rpt #	# Candidates			Exam Author	Chief Examiner	Examiners Assigned
		RO	LSR	SROI	SROU	Type	
03/03/2019	Callaway / 05000483 / 2019301 CAC #: 000500	0	0	8	1	FB-OR-INITIAL LICENSE EXAM ADMINISTRATION (EXAD)	Clayton, Kelly Farina, Thomas Larson, Brian Osterholtz, Clyde

Sites: CALL

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for the week(s) of March 2019 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's 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's 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 March 2019. 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>Philip B. Sawyer</u>	<u>Exam Author</u>	<u>Philip Sawyer</u>	<u>6/14/18</u>	<u>Philip Sawyer</u>	<u>3/14/19</u>	
2. <u>Brett Boyer</u>	<u>LOCT Instructor</u>	<u>Brett Boyer</u>	<u>6/14/18</u>	<u>(1) for Para</u>	<u>3/13/19</u>	
3. <u>Jessica Javier</u>	<u>Clerk</u>	<u>Jessica Javier</u>	<u>6/13/18</u>	<u>CLERICAL MANAGER</u>	<u>3/13/19</u>	
4. <u>Marla Wallace</u>	<u>Clerical support</u>	<u>Marla Wallace</u>	<u>6/13/18</u>	<u>Man On Phone</u>	<u>3/13/19</u>	
5. <u>Steve Jones</u>	<u>SES</u>	<u>Steve Jones</u>	<u>6/13/18</u>	<u>3 Jones</u>	<u>3/13/19</u>	
6. <u>Mark Covey</u>	<u>Maneuver Ops / Facility Rep</u>	<u>Mark Covey</u>	<u>6-21-18</u>	<u>Mr Covey</u>	<u>3-14-19</u>	
7. <u>Eric F. Schuyler</u>	<u>Simulator Engineer</u>	<u>Eric F. Schuyler</u>	<u>8/21/2018</u>	<u>Eric F. Schuyler</u>	<u>3/18/2019</u>	
8. <u>John E. Oakes</u>	<u>Simulator Engineer</u>	<u>John E. Oakes</u>	<u>8/21/2018</u>	<u>John E. Oakes</u>	<u>3/13/19</u>	
9. <u>Andrew Nelson</u>	<u>SPM ENGINEER</u>	<u>Andrew Nelson</u>	<u>8/22/18</u>	<u>Andrew Nelson</u>	<u>3/13/19</u>	
10. <u>Lynne Sander</u>	<u>LOCT Instructor</u>	<u>Lynne Sander</u>	<u>10-24-18</u>	<u>Lynne Sander</u>	<u>3-13-19</u>	
11. <u>Daniel Mueller</u>	<u>REACTOR OPERATOR</u>	<u>Daniel Mueller</u>	<u>10-24-18</u>	<u>Daniel Mueller</u>	<u>3-25-19</u>	
12. <u>Philip Macchiorri</u>	<u>REACTOR OPERATOR</u>	<u>Philip Macchiorri</u>	<u>10-24-18</u>	<u>Philip Macchiorri</u>	<u>3-25-19</u>	
13. <u>Ben Bruenner</u>	<u>OPS SUPERVISOR</u>	<u>Ben Bruenner</u>	<u>10/29/2018</u>	<u>Ben Bruenner</u>	<u>3-15-19</u>	<u>3/24/19</u>
14. <u>Steve Minner</u>	<u>RO</u>	<u>Steve Minner</u>	<u>11/5/18</u>	<u>Steve Minner</u>	<u>3-15-19</u>	<u>3/24/19</u>
15. <u>Jackie Santia</u>	<u>RO</u>	<u>Jackie Santia</u>	<u>11-5-18</u>	<u>Jackie Santia</u>	<u>3-15-19</u>	<u>3/24/19</u>

NOTES:

(1) Individual is an active deployment in Afghanistan, Confirmed via email which is attached, ASR 2/15/19

3-30-2019

1. Pre-Examination

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PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Leland Bland</u>	<u>Ops Sup</u>	<u>[Signature]</u>	<u>11-5-18</u>	<u>[Signature]</u>	<u>3-19-19</u>	
2. <u>Greg Gizin</u>	<u>Ops Sup</u>	<u>[Signature]</u>	<u>11-5-18</u>	<u>[Signature]</u>	<u>3-15-19</u>	
3. <u>Robert Shadwell</u>	<u>Ops Sup</u>	<u>[Signature]</u>	<u>11-26-18</u>	<u>[Signature]</u>	<u>3-13-19</u>	
4. <u>Michael W. Huff</u>	<u>RO</u>	<u>[Signature]</u>	<u>11-26-18</u>	<u>Michael W. Huff</u>	<u>3-15-19</u>	
5. <u>Tina Hillard</u>	<u>SM</u>	<u>[Signature]</u>	<u>11-26-18</u>	<u>[Signature]</u>	<u>3-13-19</u>	
6. <u>Jesse Sebach</u>	<u>RO</u>	<u>[Signature]</u>	<u>11-26-18</u>	<u>[Signature]</u>	<u>3-11-19</u>	
7. <u>Jan Picard</u>	<u>RO</u>	<u>[Signature]</u>	<u>12-5-18</u>	<u>[Signature]</u>	<u>3-21-19</u>	
8. <u>David Parker</u>	<u>Ops Sup</u>	<u>[Signature]</u>	<u>12-5-18</u>	<u>[Signature]</u>	<u>3-13-19</u>	
9. <u>Trevin Kuhl</u>	<u>RO</u>	<u>[Signature]</u>	<u>12-4-18</u>	<u>[Signature]</u>	<u>3-24-19</u>	
10. <u>Tom Wright</u>	<u>RO</u>	<u>[Signature]</u>	<u>12-4-18</u>	<u>[Signature]</u>	<u>3-21-19</u>	
11. <u>Typ Neneh</u>	<u>Ops Sup</u>	<u>[Signature]</u>	<u>12-13-18</u>	<u>[Signature]</u>	<u>3-18-19</u>	
12. <u>Ali Syed</u>	<u>Ops Sup</u>	<u>[Signature]</u>	<u>12-13-18</u>	<u>[Signature]</u>	<u>3-18-19</u>	
13. <u>Jonathan Chilton</u>	<u>Ops Sup</u>	<u>[Signature]</u>	<u>2-4-19</u>	<u>[Signature]</u>	<u>3-15-19</u>	
14. <u>Jeff Loadman</u>	<u>RO</u>	<u>[Signature]</u>	<u>2-5-19</u>	<u>[Signature]</u>	<u>3-19-19</u>	
15. <u>Mark Otten</u>	<u>OTM</u>	<u>[Signature]</u>	<u>2-5-19</u>	<u>[Signature]</u>	<u>3-13-19</u>	

NOTES:

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PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Sara Lange	Ops Manager	<i>[Signature]</i>	2-14-19	<i>[Signature]</i>	3-18-19	
2. Jeremy Grashin	Shift Mgr	<i>[Signature]</i>	2-14-19	<i>[Signature]</i>	3-18-19	
3. Cody Eubanks	Ops Supervisor Trng	<i>[Signature]</i>	2-14-19	<i>[Signature]</i>	3-18-19	
4. Matt Atkins	Ops Supv Trng	<i>[Signature]</i>	3-4-19	<i>[Signature]</i>	3-18-19	
5. CLAY COTTLEHAM	STS INITIAL	<i>[Signature]</i>	3-14-19	<i>[Signature]</i>	3-18-19	
6. Travis McKenna	Trng Supervisor	<i>[Signature]</i>	3-14-19	<i>[Signature]</i>	3-18-19	
7. STEVE KOCHERT	Ops Supv Trng	<i>[Signature]</i>	3-14-19	<i>[Signature]</i>	3-18-19	
8. JAMES HERRILL	Ops Supervisor Trng	<i>[Signature]</i>	3-14-19	<i>[Signature]</i>	3-18-19	
9. EDWARD VELAZQUEZ	Ops Supervisor Trng	<i>[Signature]</i>	3-14-19	<i>[Signature]</i>	3-18-19	
10. Cody Eubanks	Ops Supervisor Trng	<i>[Signature]</i>	2-14-19	<i>[Signature]</i>	3-18-19	
11. Jeff Landrum	RD	<i>[Signature]</i>	3-14-19	<i>[Signature]</i>	3-18-19	
12.						
13.						
14.						
15.						

NOTES:

Sanders, Tracy L

From: Bayer, Brett B CDR USN CENTCOM USFOR-A (USA) <brett.b.bayer.mil@mail.mil>
Sent: Friday, March 15, 2019 5:25 AM
To: Sanders, Tracy L
Subject: [EXTERNAL] RE: NRC ILT Exam Security Agreement

EXTERNAL SENDER

Tracy:

Did everyone pass the NRC exam? What are the results?
How about INPO accreditation?

I confirm the following statement: "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 March 2019. 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."

v/r,
Brett Bayer

CDR (OF-4), United States Navy
RSHQ CJ37 Training/Exercise (Trex) Director

RSHQ
DSN: 318-449-9786
SVOIP: 308-237-1694
Building 155, Upper floor
HQ RS, Kabul, Afghanistan

-----Original Message-----

From: Sanders, Tracy L [mailto:TSanders2@ameren.com]
Sent: Thursday, March 14, 2019 8:42 PM
To: Bayer, Brett B CDR USN CENTCOM USFOR-A (USA) <brett.b.bayer.mil@mail.mil>
Subject: [Non-DoD Source] NRC ILT Exam Security Agreement

Brett,

Please confirm the following Post Examination statement by replying to this email:

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 March 2019. 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.

Thanks,

Lynn Sanders

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