

Facility: Calvert Cliffs Units 1&2Date of Examination: 8/25/14-9/5/14Developed 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)	J
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	J
-120	3. Facility contact briefed on security and other requirements (C.2.c)	J
-120	4. Corporate notification letter sent (C.2.d)	J
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 3)]	J
{-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)	J
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	J
{-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)	J
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	J
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	J
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	J
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	J
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	J
-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)	J
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	J
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	J

Facility: Calvert Cliffs Nuclear Power Plant		Date of Examination: August 25, 2014		
Item	Task Description	Initials		
		a	b*	c#
I W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</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>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
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.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	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.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	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.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
W A L K T H R U	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.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	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	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	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.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
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>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	d. Check for duplication and overlap among exam sections.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	e. Check the entire exam for balance of coverage.	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>	<i>[Handwritten Initials]</i>
<p>a. Author <u>Jeff Heiska</u> <i>[Signature]</i></p> <p>b. Facility Reviewer (*) <u>Joe Jaeger</u> <i>[Signature]</i></p> <p>c. NRC Chief Examiner (#) <u>Chris Latty</u> <i>[Signature]</i></p> <p>d. NRC Supervisor <u>DONALD JACKSON</u> <i>[Signature]</i></p>		<p>Date</p> <p><u>8-7-14</u></p> <p><u>8-8-14</u></p> <p><u>8/8/14</u></p> <p><u>8/18/14</u></p>		
<p>Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines</p>				

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/25 + 9/1 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 8/25 + 9/1. 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.	NICK LAVATO	EXAM AUTHOR	<i>Nick Lavato</i>	1/6/14	<i>Nick Lavato</i>	9/5/14	
2.	Jeff Hester	Exam Author	<i>Jeff Hester</i>	1/10/14	<i>Jeff Hester</i>	9/8/14	
3.	Mark Millard	Operations Process Specialist	<i>Mark Millard</i>	2/27/14	<i>Mark Millard</i>	9/19/14	
4.	DWAYNE ROBERSON	SIMULATOR TEST SPECIALIST	<i>Dwayne Roberson</i>	3/6/14	<i>Dwayne Roberson</i>	9-10-14	
5.	MICHAEL KORNBLIC	OPS REVIEWER	<i>Michael Kornblit</i>	3/24/14	<i>Michael Kornblit</i>	9/10/14	
6.	Al Kelly	Facility Rep	<i>Al Kelly</i>	4/21/14	<i>Al Kelly</i>	9/11/14	
7.	MICHAEL FICK	DIRECTOR - EP (CAL REVIEWS)	<i>Michael Fick</i>	4/25/14	<i>Michael Fick</i>	9/11/14	
8.	MEGAN KISH	CRS REVIEW	<i>Megan Kish</i>	5/19/14	<i>Megan Kish</i>	9/17/14	
9.	Tim Allen	RO Reviewer	<i>Tim Allen</i>	5/20/14	<i>Tim Allen</i>	9/17/14	
10.	Brandon Hurtle	PDU Review / WOL	<i>Brandon Hurtle</i>	5/22/14	<i>Brandon Hurtle</i>	9/17/14	
11.	JASON OWB	Validator	<i>Jason Owby</i>	5/27/14	<i>Jason Owby</i>	9/18/14	
12.	John Singleton	Validator	<i>John Singleton</i>	5/27/14	<i>John Singleton</i>	9/18/14	
13.	ETHAN DARRON	Validation	<i>Ethan Darron</i>	5-27-14	<i>Ethan Darron</i>	9-11-14	
14.	James Huber	Validation	<i>James Huber</i>	5-27-14	<i>James Huber</i>	9/18/14	
15.	RICHARD LAW	VALIDATION	<i>Richard Law</i>	5/30/14	<i>See Attached</i>	9/22/14	

NOTES:

1. Pre-Examination

8/25 + 9/1/2014

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of \_\_\_\_\_ 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 8/25 + 9/1 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. Jesse Mitchell	STA Validator	<i>[Signature]</i>	6/4/14	<i>[Signature]</i>	9/16/14
2. Scott Kettler	CRD/RO Validator	<i>[Signature]</i>	6-4-14	<i>[Signature]</i>	9-11-14
3. JOE JAEGER	WOR INST N	<i>[Signature]</i>	6-19-14	<i>[Signature]</i>	9-19-14
4. L. Beavers	GSOVSTING IV	<i>[Signature]</i>	6/26/14	<i>[Signature]</i>	9/16/14
5. Andrew McNeil	SRO VALIDATOR	<i>[Signature]</i>	7/1/14	<i>[Signature]</i>	9/16/14
6. JOE GARDNER	SRO VALIDATOR	<i>[Signature]</i>	7-27-14	<i>[Signature]</i>	9-16-14
7. Brian Stauffer	Electrical Tech	<i>[Signature]</i>	7-28-14	<i>[Signature]</i>	9-11-14
8. Fred Lusk	Electrical Tech	<i>[Signature]</i>	7-28-14	<i>[Signature]</i>	9-11-14
9. FRANCIS ABELL	ELECTRICAL TECH	<i>[Signature]</i>	7-28-14	<i>[Signature]</i>	9-11-14
10. Ben Rickett	CRD Validator	<i>[Signature]</i>	7/29/14	<i>[Signature]</i>	9/17/14
11. Gregg Buchmester	CRD Validator	<i>[Signature]</i>	8/1/14	<i>[Signature]</i>	9/11/14
12. T. S. Cowan	CRD Validator	<i>[Signature]</i>	8/1/14	<i>[Signature]</i>	9/11/14
13. Chris Fratello	Inspector	<i>[Signature]</i>	8/20/14	<i>[Signature]</i>	9/11/14
14. Jane Garcia	Sim Software	<i>[Signature]</i>	8/25/14	<i>[Signature]</i>	9/11/14
15. Jeremy Harger	Sim Software	<i>[Signature]</i>	8/25/14	<i>[Signature]</i>	9/11/14
NOTES: C. P. Van	Sim Software	<i>[Signature]</i>	8/25/14	<i>[Signature]</i>	9/15/14

**Heiska, Jeff:(GenCo-Nuc)**

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**From:** Millard, Charles D:(GenCo-Nuc)  
**Sent:** Friday, September 19, 2014 10:47 AM  
**To:** Heiska, Jeff:(GenCo-Nuc)  
**Subject:** RE: Exam Security Agreement

Jeff- For reasons unknown, I seem to be unable to print this. Could you sign me off per this email?

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

**From:** Heiska, Jeff:(GenCo-Nuc)  
**Sent:** Wednesday, September 17, 2014 2:53 PM  
**To:** Millard, Charles D:(GenCo-Nuc)  
**Subject:** Exam Security Agreement

Please print and sign then resend to me.

Thanks,  
Jeff

**Heiska, Jeff:(GenCo-Nuc)**

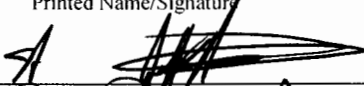
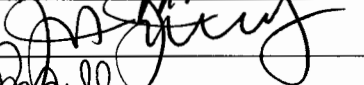
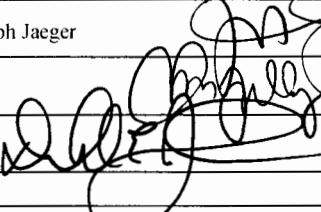
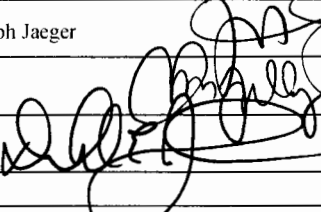
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**From:** Law, Richard:(GenCo-Nuc)  
**Sent:** Sunday, September 21, 2014 11:29 PM  
**To:** Heiska, Jeff:(GenCo-Nuc)  
**Subject:** LOI 2012 NRC Exam security

Jeff,

I understand and acknowledge per this e-mail that I have been removed from exam security for Licensed Operator Initial NRC Examination for LOI 2012 and have returned my exam security badge as required.

*Rick Law*  
**SECTION 2 CRO**  
**CCNPP**

Facility: Calvert Cliffs Nuclear Power Plant		Date of Examination: August 25, 2014		Operating Test Number: 2014	
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).	/	/	/	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	/	/	/	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (See Section D.1.a.)	/	/	/	
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.	/	/	/	
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>	/	/	/	
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.	/	/	/	
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.		/	/	/	
	Printed Name/Signature			Date	
a. Author	Jeffrey S. Heiska			7/9/14	
b. Facility Reviewer (*)	Joseph Jaeger			7/9/14	
c. NRC Chief Examiner (#)				8/21/14	
d. NRC Supervisor	Donald Jackson			8/21/14	
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.					

Facility: <b>CCNPP</b> Date of Exam: <b>08/25/14</b> Scenario Numbers: <b>1 / 2 / 3 / 4</b> Operating Test #: <b>2014</b>		Initials		
QUALITATIVE ATTRIBUTES		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.	<i>A</i>	<i>W</i>	<i>R</i>
2.	The scenarios consist mostly of related events.	<i>A</i>	<i>W</i>	<i>R</i>
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) 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>	<i>A</i>	<i>W</i>	<i>R</i>
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.	<i>A</i>	<i>W</i>	<i>R</i>
5.	The events are valid with regard to physics and thermodynamics.	<i>A</i>	<i>W</i>	<i>R</i>
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<i>A</i>	<i>W</i>	<i>R</i>
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.	<i>A</i>	<i>W</i>	<i>R</i>
8.	The simulator modeling is not altered.	<i>A</i>	<i>W</i>	<i>R</i>
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.	<i>A</i>	<i>W</i>	<i>R</i>
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.	<i>A</i>	<i>W</i>	<i>R</i>
11.	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).	<i>A</i>	<i>W</i>	<i>R</i>
12.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<i>A</i>	<i>W</i>	<i>R</i>
<b>Target Quantitative Attributes (Per Scenario; See Section D.5.d)</b>		<b>Actual Attributes</b>		
1.	Total malfunctions (5–8)	7 / 6 / 5 / 6	<i>A</i>	<i>W</i>
2.	Malfunctions after EOP entry (1–2)	1 / 1 / 2 / 2	<i>A</i>	<i>W</i>
3.	Abnormal events (2–4)	2 / 2 / 2 / 2	<i>A</i>	<i>W</i>
4.	Major transients (1–2)	1 / 1 / 1 / 1	<i>A</i>	<i>W</i>
5.	EOPs entered/requiring substantive actions (1–2)	1 / 1 / 1 / 1	<i>A</i>	<i>W</i>
6.	EOP contingencies requiring substantive actions (0–2)	0 / 0 / 0 / 1	<i>A</i>	<i>W</i>
7.	Critical tasks (2–3)	3 / 3 / 3 / 3	<i>A</i>	<i>W</i>



Facility: CCNPP		Date of Exam: 8/25/14											Operating Test #: 2014				
A P P L I C A N T	E V E N T  T Y P E	Scenarios												T O T A L	MINIMUM (*)		
		1			2			3			4				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				
☒ Blue, O'Donnel 1 & 4	RX		1											1	1	1	0
	NOR													0	1	1	1
	I/C		2,3,5									1,2,4		6	4	4	2
	MAJ		6									3		2	2	2	1
	TS													0	0	2	2
☒ Pouncey, Whited & Shifflet 4 & 1	RX											2		1	1	1	0
	NOR													0	1	1	1
	I/C			1,3,4, 7								1,5		6	4	4	2
	MAJ			6								3		2	2	2	1
	TS													0	0	2	2
☒ VanMeter 2 & 1	RX					1								1	1		
	NOR													0	1		
	I/C			1,3,4, 7		2,5								6	4		
	MAJ			6		4								2	2		
	TS													0	0		

Facility: CCNPP		Date of Exam: 8/25/14											Operating Test #: 2014				
A P P L I C A N T	E V E N T  T Y P E	Scenarios															
		1			2			3			4			T O T A L	MINIMUM (*)		
		Crew Position			Crew Position			Crew Position			Crew Position				R	I	U
		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				
☒ Baker & Gines 4 & 1	RX		1											1	1	1	0
	NOR													0	1	1	1
	I/C		2,3,5									1,2,5		6	4	4	2
	MAJ		6										3	2	2	2	1
	TS											1,2		2	0	2	2
☒ Innes 1 & 4	RX												2	1	1	1	0
	NOR													0	1	1	1
	I/C	1,3,4,7											1,5	6	4	4	2
	MAJ	6											3	2	2	2	1
	TS	2,7												2	0	2	2
☒ Piatt 1 & 2	RX					1								1	1	1	0
	NOR													0	1	1	1
	I/C	1,3,4,7				2,5								6	4	4	2
	MAJ	6				4								2	2	2	1
	TS	2,7												2	0	2	2

Facility: CCNPP		Date of Exam: 8/25/14											Operating Test #: 2014				
A P P L I C A N T	E V E N T  T Y P E	Scenarios												T O T A L	MINIMUM (*)		
		1			2			3			4				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				
☒ Foveaux & Scott 1	RX													0	1	1	0
	NOR													0	1	1	1
	I/C	1,3,4,7												4	4	4	2
	MAJ	6												1	2	2	1
	TS	2,7												2	0	2	2
☒ Swiger 4	RX													0	1	1	0
	NOR													0	1	1	1
	I/C										1,2,5			3	4	4	2
	MAJ										3			1	2	2	1
	TS										1,2			2	0	2	2

Instructions:

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

Facility: <b>CCNPP</b>	Date of Exam: <b>8/25/14</b>	Operating Test #: <b>2014</b>		
<b>COMPETENCIES</b>	<b>SCENARIO 1</b>			
	<b>APPLICANTS</b>			
	<input checked="" type="checkbox"/> <b>RO</b> <input type="checkbox"/> <b>CRO</b> <input type="checkbox"/> <b>SRO-I</b> <input type="checkbox"/> <b>SRO-U</b>	<input type="checkbox"/> <b>RO</b> <input checked="" type="checkbox"/> <b>CRO</b> <input type="checkbox"/> <b>SRO-I</b> <input type="checkbox"/> <b>SRO-U</b>	<input type="checkbox"/> <b>RO</b> <input type="checkbox"/> <b>CRO</b> <input checked="" type="checkbox"/> <b>SRO-I</b> <input type="checkbox"/> <b>SRO-U</b>	<input type="checkbox"/> <b>RO</b> <input type="checkbox"/> <b>CRO</b> <input type="checkbox"/> <b>SRO-I</b> <input checked="" type="checkbox"/> <b>SRO-U</b>
Interpret/Diagnose Events and Conditions	2,5,6	1,3,4,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7
Comply With and Use Procedures (1)	2,3,5,6	1,3,4,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7
Operate Control Boards (2)	2,5,6	1,3,4,6,7		
Communicate and Interact	2,3,5,6	1,2,3,4,6,7	1,2,3,4,5,6,7	1,2,3,4,5,6,7
Demonstrate Supervisory Ability (3)			1,2,3,4,5,6,7	1,2,3,4,5,6,7
Comply With and Use Tech Specs (3)			2,7	2,7
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.*

Facility: <b>CCNPP</b>	Date of Exam: <b>8/25/14</b>	Operating Test #: <b>2014</b>		
<b>COMPETENCIES</b>	<b>SCENARIO 2</b>			
	<b>APPLICANTS</b>			
	<input checked="" type="checkbox"/> <b>RO</b> <input type="checkbox"/> CRO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U	<input type="checkbox"/> RO <input checked="" type="checkbox"/> <b>CRO</b> <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U	<input type="checkbox"/> RO <input type="checkbox"/> CRO <input checked="" type="checkbox"/> <b>SRO-I</b> <input type="checkbox"/> SRO-U	<input type="checkbox"/> RO <input type="checkbox"/> CRO <input type="checkbox"/> SRO-I <input checked="" type="checkbox"/> <b>SRO-U</b>
Interpret/Diagnose Events and Conditions	2,4,5	2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6
Comply With and Use Procedures (1)	1,2,4,5	1,2,3,4,5	1,2,3,4,5,6	1,2,3,4,5,6
Operate Control Boards (2)	1,2,4,5	1,2,3,4,5		
Communicate and Interact	1,2,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6	1,2,3,4,5,6
Demonstrate Supervisory Ability (3)			1,2,3,4,5,6	1,2,3,4,5,6
Comply With and Use Tech Specs (3)			2,3,6	2,3,6
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.*

Facility: <b>CCNPP</b>		Date of Exam: <b>8/25/14</b>		Operating Test #: <b>2014</b>	
<b>COMPETENCIES</b>	<b>SCENARIO 3</b>				
	<b>APPLICANTS</b>				
	<input checked="" type="checkbox"/> <b>RO</b> <input type="checkbox"/> CRO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U	<input type="checkbox"/> RO <input checked="" type="checkbox"/> <b>CRO</b> <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U	<input type="checkbox"/> RO <input type="checkbox"/> CRO <input checked="" type="checkbox"/> <b>SRO-I</b> <input type="checkbox"/> SRO-U	<input type="checkbox"/> RO <input type="checkbox"/> CRO <input type="checkbox"/> SRO-I <input checked="" type="checkbox"/> <b>SRO-U</b>	
Interpret/Diagnose Events and Conditions	1,2,3,4	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	
Comply With and Use Procedures (1)	1,2,3,4	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	
Operate Control Boards (2)	1,2,3,4	1,2,3,4,5			
Communicate and Interact	1,2,3,4	1,2,3,4,5	1,2,3,4,5	1,2,3,4,5	
Demonstrate Supervisory Ability (3)			1,2,3,4,5	1,2,3,4,5	
Comply With and Use Tech Specs (3)			2,3	2,3	
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.*



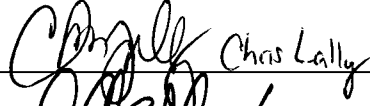
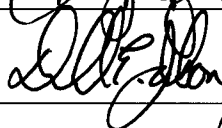
Facility: <b>CCNPP</b>	Date of Exam: <b>8/25/14</b>	Operating Test #: <b>2014</b>		
<b>COMPETENCIES</b>	<b>SCENARIO 4</b>			
	<b>APPLICANTS</b>			
	<input checked="" type="checkbox"/> <b>RO</b> <input type="checkbox"/> CRO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U	<input type="checkbox"/> RO <input checked="" type="checkbox"/> <b>CRO</b> <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U	<input type="checkbox"/> RO <input type="checkbox"/> CRO <input checked="" type="checkbox"/> <b>SRO-I</b> <input type="checkbox"/> SRO-U	<input type="checkbox"/> RO <input type="checkbox"/> CRO <input type="checkbox"/> SRO-I <input checked="" type="checkbox"/> <b>SRO-U</b>
Interpret/Diagnose Events and Conditions	1,2,3,5	1,2,3,4	1,2,3,4,5	1,2,3,4,5
Comply With and Use Procedures (1)	1,2,3,4,5	1,2,3,4	1,2,3,4,5	1,2,3,4,5
Operate Control Boards (2)	1,2,3,4,5	1,2,3,4		
Communicate and Interact	1,2,3,4,5	1,2,3,4	1,2,3,4,5	1,2,3,4,5
Demonstrate Supervisory Ability (3)			1,2,3,4,5	1,2,3,4,5
Comply With and Use Tech Specs (3)			1,2	1,2
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.*

Facility: <b>Calvert Cliffs Nuclear Power Plant</b> Date of Exam: <b>August 25, 2014</b> 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.	/	/	2
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	/	/	2
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	/	/	2
4. The sampling process was random and systematic (If more than 4 RO or 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL program office).	/	/	2
5. Question duplication from the license 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 type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	/	/	2
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
	28 / 12 37% / 48%	4 / 1 5% / 4%	43 / 12 57% / 48%
7. Between 50 and 60 percent of the questions on the RO exam are written at the comprehension/ analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.	Memory	C/A	
	35 / 6 47% / 24%	40 / 19 53% / 76%	
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	/	/	2
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.	/	/	2
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	/	/	2
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.	/	/	2
Printed Name / Signature			Date
a. Author	Jeffrey S. Heiska		7/9/14
b. Facility Reviewer (*)	Joseph Jaeger		7/9/14
c. NRC Chief Examiner (#)			8/21/14
d. NRC Regional Supervisor		Donald Jackson	8/25/14
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: <b>CCNPP</b>	Date of Exam: <b>9/5/14</b>	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	A	RWS	J
2. Answer key changes and question deletions justified and documented	A	RWS	J
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	A	RWS	J
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	A	RWS	J
5. All other failing examinations checked to ensure that grades are justified	A	RWS	J
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	A	RWS	J
	Printed Name/Signature	Date	
a. Grader	<u>Jerry S. Heiskala</u> 	<u>9/8/14</u>	
b. Facility Reviewer(*)	<u>Robert W. Pratt</u> 	<u>9/10/14</u>	
c. NRC Chief Examiner (*)	<u>Chas Lally</u> 	<u>9/26/14</u>	
d. NRC Supervisor (*)	<u>DAVID E. JACKSON</u> 	<u>10/8/14</u>	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.			