

Facility: <u>HOPKINS</u>		Date of Examination: <u>5/30 - 6/7/00</u>
Examinations Developed by: <u>Facility</u> / NRC (circle one)		
Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	B
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	B
-120	3. Facility contact briefed on security & other requirements (C.2.c)	B 2/28
-120	4. Corporate notification letter sent (C.2.d)	B 2/28
[-90]	[5. Reference material due (C.1.e; C.3.c)]	NA
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	B 3/13
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	B 3/22
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	B 4/18
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	B
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	B 5/24
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	B 4/28
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	B 5/4
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	B 5/24
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	B 5/24
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	B 6/6
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	B 5/24
<p>* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.</p> <p>[] Applies only to examinations prepared by the NRC.</p>		

Facility:		Date of Examination:		
Item	Task Description	Initials		
		a	b*	c
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	QEF	MS	B
	b. Assess whether the outline was systematically prepared and whether all knowledge and ability categories are appropriately sampled.	QEF	MS	B
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	QEF	MS	B
	d. Assess whether the repetition from previous examination outlines is excessive.	QEF	MS	B
2. S I M	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients.	QEF	MS	B
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity; ensure each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s)*, and scenarios will not be repeated over successive days.	QEF	MS	B
	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.	QEF	MS	B
3. W I T	a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, (2) no more than 30% of the test material is repeated from the last NRC examination, (3)* no tasks are duplicated from the applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	QEF	MS	B
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, (2) one task is conducted in a low-power or shutdown condition, (3) 40% of the tasks require the applicant to implement an alternate path procedure, (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and (5) the in-plant walk-through requires the applicant to enter the RCA.	QEF	MS	B
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	QEF	MS	B
	d. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on successive days.	QEF	MS	B
	e. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on successive days.	QEF	MS	B
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.	QEF	MS	B
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	QEF	MS	B
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	QEF	MS	B
	d. Check for duplication and overlap among exam sections.	QEF	MS	B
	e. Check the entire exam for balance of coverage.	QEF	MS	B
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	QEF	MS	B
a. Author		Printed Name / Signature		Date
b. Facility Reviewer(*)		ARCHIE E FAULKNER / Archie E. Faulkner		3/13/00
c. Chief Examiner		Mark A. Shaffer / Mark A. Shaffer		3/13/00
d. NRC Supervisor		* Daniel H. Bissett / Daniel H. Bissett		3/22/00
		R.V. Conte / R.V. Conte		4/28/00
(*) Not applicable for NRC-developed examinations.				

Licensee Feedback 3/22/00

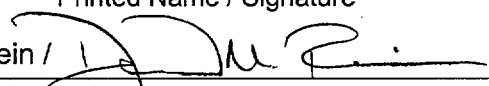
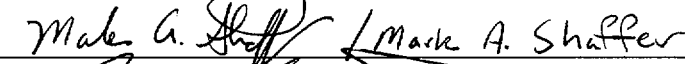

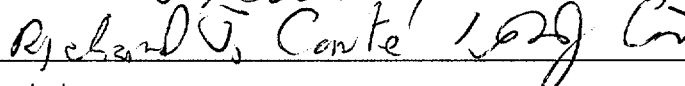
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Operating Test Quality Assurance Checklist
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FORM ES-301-3

Facility: <u>HOPE CREEK</u>		Date of Examination: <u>5/30/00</u>	
Examinations Developed by: <input checked="" type="checkbox"/> Facility <input type="checkbox"/> NRC		Operating Test Number: _____	

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).	DM	MS	B
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	DM	MS	B
c. The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	DM	MS	B
d. Overlap with the written examination and between operating test categories is within acceptable limits.	DM	MS	B
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	DM	MS	B
2. WALK-THROUGH (CATEGORY A & B) 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 - validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee - specific performance criteria that include: <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 	DM	MS	B
b. The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	DM	MS	B
c. Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	DM	MS	B
d. At least 20 percent of the JPMs on each test are new or significantly modified.	DM	MS	B
3. SIMULATOR (CATEGORY C) CRITERIA			
a. The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	DM	MS	B

	Printed Name / Signature	Date
a. Author	David M. Rein / 	5/9/00
b. Facility Reviewer	Mark A. Shaffer / 	5/10/00
c. NRC Chief Examiner (*)	 / PH. BISSETT	5/17/00
d. NRC Supervisor (*)	Richard J. Conte / 	5/24/00

(*) Two independent NRC reviews are required.

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Simulator Scenario Quality Checklist Page 1 of 1

FORM ES-301-4

Facility: <u>HOPE CREEK</u>		Date of Examination: <u>5/30/00</u>	
Examinations Developed by: <input checked="" type="checkbox"/> Facility <input type="checkbox"/> NRC		Operating Test Number: _____	
Scenario Numbers: <u>1</u> / <u>2</u> / <u>3</u> / _____			

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

Operating Test Number: _____

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO[1]	Reactivity	1	1			
	Normal	1			1	
	Instrument	2	4		8	
	Component	2	2		2,6	
	Major	1	6		7	

As RO	Reactivity	1		1		
	Normal	0				
	Instrument	1		3		
	Component	1		5		
	Major	1		6		
SRO-I[1]						
	Reactivity	0				
	Normal	1	1,3			
	Instrument	1	4			
	Component	1	2,5,7			
As SRO	Major	1	6			

SRO-U	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	Major	1				

Applicant number inside[]

- Instructions: (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 (2) Reactivity manipulations may be conducted under normal or controlled abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author: _____

Chief Examiner: _____

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Transient and Event Checklist
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FORM ES-301-5

Operating Test Number: _____

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO[2]	Reactivity	1	1			
	Normal	1		2		
	Instrument	2	4	4		
	Component	2	2	7		
	Major	1	6	6		

As RO	Reactivity	1			5	
	Normal	0				
	Instrument	1			4	
	Component	1			3	
	Major	1			7	
SRO-I[2]						
As SRO	Reactivity	0				
	Normal	1		1,2		
	Instrument	1		3,4		
	Component	1		5,7		
	Major	1		6		

SRO-U	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	Major	1				

Applicant number inside[]

- Instructions: (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 (2) Reactivity manipulations may be conducted under normal or controlled abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author: _____

Chief Examiner: _____

Operating Test Number: _____

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO[3]	Reactivity	1		1		
	Normal	1			1	
	Instrument	2		3	8	
	Component	2		5	2,6	
	Major	1		6	7	

As RO	Reactivity	1			5	
	Normal	0				
	Instrument	1			4	
	Component	1			3	
	Major	1			7	
SRO-I[(3)]						
As SRO	Reactivity	0				
	Normal	1	1,3			
	Instrument	1	4			
	Component	1	2,5,7			
	Major	1	6			

SRO-U	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	Major	1				

Applicant number inside[]

- Instructions: (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 (2) Reactivity manipulations may be conducted under normal or controlled abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author: _____

Chief Examiner: _____

Operating Test Number: _____

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO[4]	Reactivity	1	1			
	Normal	1			1	
	Instrument	2	4		8	
	Component	2	2		2,6	
	Major	1	6		7	

As RO	Reactivity	1			5	
	Normal	0				
	Instrument	1			4	
	Component	1			3	
	Major	1			7	
SRO-I[4]						
As SRO	Reactivity	0				
	Normal	1	1,3			
	Instrument	1	4			
	Component	1	2,5,7			
	Major	1	6			

SRO-U	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	Major	1				

Applicant number inside[]

- Instructions: (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
 (2) Reactivity manipulations may be conducted under normal or controlled abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author: _____

Chief Examiner: _____

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Transient and Event Checklist
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FORM ES-301-5

Operating Test Number: _____

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO[5]	Reactivity	1		1		
	Normal	1			1	
	Instrument	2		3	8	
	Component	2		5	2,6	
	Major	1		6	7	

As RO	Reactivity	1			5	
	Normal	0				
	Instrument	1			4	
	Component	1			3	
	Major	1			7	
SRO-I[5]						
As SRO	Reactivity	0				
	Normal	1		1,2		
	Instrument	1		3,4		
	Component	1		5,7		
	Major	1		6		

SRO-U	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	Major	1				

Applicant number inside[]

- Instructions: (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
(2) Reactivity manipulations may be conducted under normal or controlled abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author: _____

Chief Examiner: _____

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Competencies Checklist
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FORM ES-301-6

Competencies	Applicant #1 RO SRO-I/SRO-U				Applicant #2 RO SRO-I/SRO-U				Applicant #3 RO SRO-I/SRO-U			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	4,6		2,6, 7		4,6	2,6				3,5, 6	2,6, 7	
Diagnose Events and Conditions	2,6		2,6, 7,8		2,6	6,7				3,5, 6	2,6, 7,8	
Understand Plant and System Response	4,6		6,7, 8		4,6	6,7				3,5, 6	6,7, 8	
Comply With and Use Procedures (1)	1,2, 4		1,6		1,2, 4	2				1,5	1,6	
Operate Control Boards (2)	1,2, 4,6		1,2, 6,7, 8		1,2, 4,6	2,4, 6,7				1,3, 5,6	1,2, 6,7, 8	
Communicate and Interact With the Crew	2,4, 6		2,6, 7,8		2,4, 6	2,4, 6,7				3,5, 6	2,6, 7,8	
Demonstrate Supervisory Ability (3)												
Comply With and Use Tech. Specs. (3)												
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.												

Instructions: Circle 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.

Author: _____

Chief Examiner: _____

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Competencies Checklist

FORM ES-301-6

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Competencies	Applicant #4 RO SRO-I/SRO-U				Applicant #5 RO SRO-I/SRO-U				Applicant #6 RO SRO-I/SRO-U			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	4,6		2,6, 7			3,5, 6	2,6, 7		4,5, 6	3,5, 6		
Diagnose Events and Conditions	2,6		2,6, 7,8			3,5, 6	2,6, 7,8		2,5, 6	3,5, 6		
Understand Plant and System Response	4,6		6,7, 8			3,5, 6	6,7, 8		4,5, 6,7	3,5, 6		
Comply With and Use Procedures (1)	1,2, 4		1,6			1,5	1,6		1,2, 4,5, 6	1,5		
Operate Control Boards (2)	1,2, 4,6		1,2, 6,7, 8			1,3, 5,6	1,2, 6,7, 8			1,3, 5,6		
Communicate and Interact With the Crew	2,4, 6		2,6, 7,8			3,5, 6	2,6, 7,8		1,2, 3,4, 5,6	3,5, 6		
Demonstrate Supervisory Ability (3)									2,4, 5,6			
Comply With and Use Tech. Specs. (3)									4,5			
Notes:												
(1) Includes Technical Specification compliance for an RO.												
(2) Optional for an SRO-U.												
(3) Only applicable to SROs.												

Instructions: Circle 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.

Author: Chief Examiner: 

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Competencies Checklist
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FORM ES-301-6

Competencies	Applicant #7 RO/SRO-I/SRO-U				Applicant #8 RO/SRO-I/SRO-U				Applicant #9 RO/SRO-I/SRO-U			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms		2,5,6	3,4,5,6,7		4,5,6		3,4,5,6,7		4,5,6		3,4,5,6,7	
Diagnose Events and Conditions		3,6	3,4,5,6,7		2,5,6		3,4,5,6,7		2,5,6		3,4,5,6,7	
Understand Plant and System Response		3,5,6	3,4,5,7		4,5,6,7		3,4,5,7		4,5,6,7		3,4,5,7	
Comply With and Use Procedures (1)		1,5,6	3,4,5		1,2,4,5,6		3,4,5		1,2,4,5,6		3,4,5	
Operate Control Boards (2)			3,4,5,7				3,4,5,7				3,4,5,7	
Communicate and Interact With the Crew		2,3,4,5,6,7	3,4,5,6,7		1,2,3,4,5,6		3,4,5,6,7		1,2,3,4,5,6		3,4,5,6,7	
Demonstrate Supervisory Ability (3)		1,2,3,4,5,6,7			2,4,5,6				2,4,5,6			
Comply With and Use Tech. Specs. (3)		2,5			4,5				4,5			
Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.												

Instructions: Circle 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.

Author: Chief Examiner: 

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Competencies Checklist
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FORM ES-301-6

Competencies	Applicant #10 RO <u>SRO-I</u> / SRO-U											
	SCENARIO											
	1	2	3	4								
Understand and Interpret Annunciators and Alarms		2,5,6	3,4,5,6,7									
Diagnose Events and Conditions		3,6	3,4,5,6,7									
Understand Plant and System Response		3,5,6	3,4,5,7									
Comply With and Use Procedures (1)		1,5,6	3,4,5									
Operate Control Boards (2)			3,4,5,7									
Communicate and Interact With the Crew		2,3,4,5,6,7	3,4,5,6,7									
Demonstrate Supervisory Ability (3)		1,2,3,4,5,6,7										
Comply With and Use Tech. Specs. (3)		2,5										
Notes:												
(1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.												

Instructions: Circle 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.

Author: Chief Examiner: 

Facility: <u>HOPE CREEK GENERATING STATION</u>		Date of Exam: <u>5/29/00</u>		Exam Level: <u>(R)SRO</u>		
Item Description				Initial		
				a	b*	c*
1. Questions and answers technically accurate and applicable to facility				<u>AEJ</u>	<u>ms</u>	<u>3</u>
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available				<u>AEJ</u>	<u>ms</u>	<u>3</u>
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401				<u>AEJ</u>	<u>ms</u>	<u>3</u>
4. No more than 25 questions are duplicated from [practice exams, quizzes, and] the last two NRC licensing exams; enter the actual number of duplicated questions at right						
				NRC	Other	
				<u>14</u>	<u>3*</u>	
5. [No (Less than 5 percent) question duplication from the license screening/audit exam (if independently written)]				<u>AEJ</u>	<u>ms</u>	<u>3</u>
6. Bank use meets limits (no more than 50 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right				Bank	Modified	New
				<u>34</u>	<u>27</u>	<u>39</u>
7. Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right				Memory	C/A	
				<u>47</u>	<u>53</u>	
8. References/handouts provided do not give away answers				<u>AEJ</u>	<u>ms</u>	<u>3</u>
9. Question distribution meets previously approved examination outline; deviations are justified				<u>AEJ</u>	<u>ms</u>	<u>3</u>
10. Question psychometric quality and format meet ES, Appendix B, guidelines				<u>AEJ</u>	<u>ms</u>	<u>3</u>
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet				<u>AEJ</u>	<u>ms</u>	<u>3</u>
a. Author <u>Archie E. [Signature]</u> b. Facility Reviewer(*) <u>Moh. A. [Signature]</u> c. NRC Chief Examiner(*) <u>PAUL H. BISSETT / [Signature]</u> d. NRC Regional Supervisor(*) <u>Richard J. [Signature]</u>				Printed Name / Signature Date <u>4/17/00</u> <u>4/17/00</u> <u>4/28/00</u> <u>5/1/00</u>		
Note: * The facility reviewer's signature is not applicable for NRC-developed examinations; two independent NRC reviews are required. # See special instructions (Section E.2.c) for Items 1, 4, 5, and 6. [] The items in brackets do not apply to NRC-prepared examinations.						

* AS of 4/17/00. STUDENTS HAVE 1 MORE EXAM BEFORE AUDIT.

Facility: <u>HOPE CREEK GENERATING STATION</u>		Date of Exam: <u>5/29/00</u>		Exam Level: <u>RO/SRO</u>																																					
Item Description				Initial																																					
				a	b*	c*																																			
1.	Questions and answers technically accurate and applicable to facility			<u>QET</u>	<u>ML</u>	<u>B</u>																																			
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			<u>QET</u>	<u>ML</u>	<u>B</u>																																			
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			<u>QET</u>	<u>ML</u>	<u>B</u>																																			
4.	No more than 25 questions are duplicated from [practice exams, quizzes, and] the last two NRC licensing exams; enter the actual number of duplicated questions at right	NRC	Other	<u>QET</u>	<u>ML</u>	<u>B</u>																																			
		<u>15</u>	<u>3*</u>																																						
5.	[No (Less than 5 percent) question duplication from the license screening/audit exam (if independently written)]			<u>QET</u>	<u>ML</u>	<u>B</u>																																			
6.	Bank use meets limits (no more than 50 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank	Modified	<u>QET</u>	<u>ML</u>	<u>B</u>																																			
		<u>29</u>	<u>22</u>				<u>49</u>																																		
7.	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory	C/A	<u>QET</u>	<u>ML</u>	<u>B</u>																																			
		<u>42</u>	<u>58</u>																																						
8.	References/handouts provided do not give away answers			<u>QET</u>	<u>ML</u>	<u>B</u>																																			
9.	Question distribution meets previously approved examination outline; deviations are justified			<u>QET</u>	<u>ML</u>	<u>B</u>																																			
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			<u>QET</u>	<u>ML</u>	<u>B</u>																																			
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			<u>QET</u>	<u>ML</u>	<u>B</u>																																			
<table border="0"> <tr> <td></td> <td colspan="3">Printed Name / Signature</td> <td colspan="3">Date</td> </tr> <tr> <td>a. Author</td> <td colspan="3"><u>Archie E. [Signature]</u></td> <td colspan="3"><u>4/17/00</u></td> </tr> <tr> <td>b. Facility Reviewer(*)</td> <td colspan="3"><u>Mah G. [Signature]</u></td> <td colspan="3"><u>4/17/00</u></td> </tr> <tr> <td>c. NRC Chief Examiner(*)</td> <td colspan="3"><u>PAUL H BISSETT / [Signature]</u></td> <td colspan="3"><u>4/28/00</u></td> </tr> <tr> <td>d. NRC Regional Supervisor(*)</td> <td colspan="3"><u>Richard J. [Signature]</u></td> <td colspan="3"><u>5/4/00</u></td> </tr> </table>								Printed Name / Signature			Date			a. Author	<u>Archie E. [Signature]</u>			<u>4/17/00</u>			b. Facility Reviewer(*)	<u>Mah G. [Signature]</u>			<u>4/17/00</u>			c. NRC Chief Examiner(*)	<u>PAUL H BISSETT / [Signature]</u>			<u>4/28/00</u>			d. NRC Regional Supervisor(*)	<u>Richard J. [Signature]</u>			<u>5/4/00</u>		
	Printed Name / Signature			Date																																					
a. Author	<u>Archie E. [Signature]</u>			<u>4/17/00</u>																																					
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d. NRC Regional Supervisor(*)	<u>Richard J. [Signature]</u>			<u>5/4/00</u>																																					
<p>Note: • The facility reviewer's signature is not applicable for NRC-developed examinations; two independent NRC reviews are required. # See special instructions (Section E.2.c) for Items 1, 4, 5, and 6. [] The items in brackets do not apply to NRC-prepared examinations.</p>																																									

* AS of 4/17/00. STUDENTS HAVE 1 MORE EXAM BEFORE AUDIT.

Facility: <u>HOPE CREEK GEN. STATION</u>		Date of Exam: <u>6/7/00</u>		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Answer key changes and question deletions justified and documented	<u>AEZ</u>	<u>MS</u>	<u>B</u>		
2. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>AEZ</u>	<u>MS</u>	<u>B</u>		
3. Grading for all borderline cases (80% +/- 2%) reviewed in detail	<u>AEZ</u>	<u>MS</u>	<u>B</u>		
4. All other failing examinations checked to ensure that grades are justified	<u>AEZ</u>	<u>MS</u>	<u>NA</u>		
5. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<u>AEZ</u>	<u>MS</u>	<u>B</u>		
Printed Name / Signature		Date			
a. Grader	<u>ARCHIE E FAULKNER / Archie E. Faulkner</u>	<u>6/13/00</u>			
b. Facility Reviewer(*)	<u>Mark A. Shaffer / Mark A. Shaffer</u>	<u>6/13/00</u>			
c. NRC Chief Examiner (*)	<u>PAUL BISSETT / Paul Bissett</u>	<u>6/27/00</u>			
d. NRC Supervisor (*)	<u>Richard J. Conte / Richard J. Conte</u>	<u>6/29/00</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

RECEIVED
REGION 1

200 JUN 22 AM 10: 34

Mr. Paul Bissett
Chief Examiner
Division of Reactor Safety
US Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA. 19406-1415

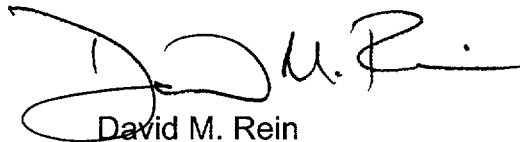
Dear Mr. Bissett:

HOPE CREEK EXAMINATION SECURITY AGREEMENTS

Attached are the 5/29/00-6/8/00 Hope Creek Examination Security Agreements.

If you have any questions, comments, or require additional information, please contact Jim Reid, Operations Training Manager, at 856-339-3896, or Archie E. Faulkner, Operations Superintendent-Hope Creek Operations-Training, at 856-339-3966.

Sincerely,

A handwritten signature in black ink, appearing to read "D. M. Rein", with a large, stylized loop at the beginning.

David M. Rein
Nuclear Operations Training Instructor

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5/29/00 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 5/29/00. 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>Archie E. Faulkner</u>	<u>OPS SUPERINTENDENT - TRAINING</u>	<u>Archie E. Faulkner</u>	<u>1/3/00</u>	<u>Archie E. Faulkner</u>	<u>6/8/00</u>
2. <u>James K. Lloyd</u>	<u>Instructor (Salem)</u>	<u>James K. Lloyd</u>	<u>1/18/00</u>	<u>James K. Lloyd</u>	<u>6/8/00</u>
3. <u>DAVID M. REIN</u>	<u>INSTRUCTOR</u>	<u>David M. Rein</u>	<u>1/19/00</u>	<u>David M. Rein</u>	<u>6/8/00</u>
4. <u>MD GURTTZ</u>	<u>Licensed Operator Training</u>	<u>MD Gurttz</u>	<u>1-24-00</u>	<u>MD Gurttz</u>	<u>6-9-00</u>
5. <u>Bill Hickman</u>	<u>CRS / Hope Creek</u>	<u>Bill Hickman</u>	<u>3-3-00</u>	<u>Bill Hickman</u>	<u>6-14-00</u>
6. <u>FRANCIS KAMINSKI</u>	<u>INSTRUCTOR</u>	<u>Francis Kaminski</u>	<u>3-7-00</u>	<u>Francis Kaminski</u>	<u>6-8-00</u>
7. <u>Dennis Kabanowski</u>	<u>Ops Training</u>	<u>Dennis Kabanowski</u>	<u>3/9/00</u>	<u>Dennis Kabanowski</u>	<u>6/8/00</u>
8. <u>Donald E. Jackson</u>	<u>Trng Mgr</u>	<u>Donald E. Jackson</u>	<u>3-9-00</u>	<u>Donald E. Jackson</u>	<u>6/8/00</u>
9. <u>Mark A. Shaffer</u>	<u>HC Ops Superintendent - Training</u>	<u>Mark A. Shaffer</u>	<u>3-9-00</u>	<u>Mark A. Shaffer</u>	<u>6/8/00</u>
10. <u>Bin Churn</u>	<u>Simulator Software Engineer</u>	<u>Bin Churn</u>	<u>3/16/00</u>	<u>Bin Churn</u>	<u>6/8/00</u>
11. <u>MARK C. ROMAN</u>	<u>R.O.</u>	<u>Mark C. Roman</u>	<u>03-2-00</u>	<u>Mark C. Roman</u>	<u>6/8/00</u>
12. <u>Ed Johnson</u>	<u>Self Nuclear Cont Operator</u>	<u>Ed Johnson</u>	<u>4/4/00</u>	<u>Ed Johnson</u>	<u>6/8/00</u>
13. <u>NATHAN A. OYES</u>	<u>CRS/STA</u>	<u>Nathan A. Oyes</u>	<u>4/4/00</u>	<u>Nathan A. Oyes</u>	<u>6/8/00</u>
14. <u>DANIEL L. LAUGHMAN</u>	<u>NCO</u>	<u>Daniel L. Laughman</u>	<u>4/4/00</u>	<u>Daniel L. Laughman</u>	<u>6/8/00</u>
15. <u>DEVER H. HARRIS, JR</u>	<u>H.C. LOR</u>	<u>Dever H. Harris, Jr</u>	<u>4/4/00</u>	<u>Dever H. Harris, Jr</u>	<u>6/8/00</u>

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5/29/00 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 5/30/00 6/5/00 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>STEVEN K. MILLER</u>	<u>QA AUDITOR</u>	<u>[Signature]</u>	<u>4-12-00</u>	<u>[Signature]</u>	<u>6/20/00</u>	<u>1</u>
2. <u>THOMAS T. MACLEWEN</u>	<u>CRS / HC OPS</u>	<u>[Signature]</u>	<u>4-13-00</u>	<u>[Signature]</u>	<u>6/14/00</u>	
3. <u>MAU BERRY</u>	<u>NCO / HC OPS</u>	<u>[Signature]</u>	<u>4-13-00</u>	<u>[Signature]</u>	<u>6/12/00</u>	
4. <u>JAMES G. REID</u>	<u>OPS TRAINING MGR</u>	<u>[Signature]</u>	<u>5/30/00</u>	<u>[Signature]</u>	<u>6/8/00</u>	
5. <u>Will Ryder</u>	<u>OPS Instructor</u>	<u>[Signature]</u>	<u>5/30/00</u>	<u>[Signature]</u>	<u>6-8-00</u>	
6. <u>Bernard Litchett</u>	<u>OPS SKD Instructor</u>	<u>[Signature]</u>	<u>5/30/00</u>	<u>[Signature]</u>	<u>6/12/00</u>	
7. <u>John Dower</u>	<u>Simulator Instructor</u>	<u>[Signature]</u>	<u>5/30/00</u>	<u>[Signature]</u>	<u>6/12/00</u>	
8. <u>H. M. Swartz</u>	<u>Sim SUPV</u>	<u>[Signature]</u>	<u>6/11/00</u>	<u>[Signature]</u>	<u>6/8/00</u>	
9. <u>DJ. BOYLE</u>	<u>OPS SUPT.</u>	<u>[Signature]</u>	<u>6/5-100</u>	<u>[Signature]</u>	<u>6/20/00</u>	<u>1</u>
10. <u>S. Kelley</u>	<u>CRS</u>	<u>[Signature]</u>	<u>6/5/00</u>	<u>[Signature]</u>	<u>6/20/00</u>	<u>1</u>
11. <u>Frank Kaminski</u>	<u>MC-INSTRUCTOR</u>	<u>[Signature]</u>	<u>6/5/00</u>	<u>[Signature]</u>	<u>6/20/00</u>	<u>1</u>
12. <u>MAU BERRY</u>		<u>[Signature]</u>	<u>6/5/00</u>	<u>[Signature]</u>	<u>6-8-00</u>	
13. _____						
14. _____						
15. _____						

NOTES: 1 SEE ATTACHED E-MAIL

Rein, David M.

From: Miller, Steven K.
Sent: Monday, June 12, 2000 10:06 AM
To: Rein, David M.
Subject: RE: 5/00 NRC Examination Security Agreement

Dave,

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) or 5/30/00-6/5/00. From the date that I entered into this 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.

I have complied with the above statement

Steve Miller

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

From: Rein, David M.
Sent: Monday, June 12, 2000 9:52 AM
To: Miller, Steven K.; Hickey, William J.; Roman, Mark C.; Johnson, Edward A.; Laughman, Daniel L.; Macewen, Thomas T.; Boyle, Daniel; Kelley, Scott R.
Subject: 5/00 NRC Examination Security Agreement
Importance: High

Please respond to this by stating in the positive regarding the following statement. This is the Post-Examination statement on the NRC "Examination Security Agreement". No specific notes were noted below this statement.

Thanks,
Dave

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) or 5/30/00-6/5/00. From the date that I entered into this 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.

Rein, David M.

From: Boyle, Daniel
Sent: Monday, June 19, 2000 10:34 PM
To: Rein, David M.
Subject: RE: 5/00 NRC Examination Security Agreement

I am in compliance with the Post-Examination Examination Security Agreement statement. Daniel J. Boyle, 6-20-00

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

From: Rein, David M.
Sent: Monday, June 12, 2000 9:52 AM
To: Miller, Steven K.; Hickey, William J.; Roman, Mark C.; Johnson, Edward A.; Laughman, Daniel L.; Macewen, Thomas T.; Boyle, Daniel; Kelley, Scott R.
Subject: 5/00 NRC Examination Security Agreement
Importance: High

Please respond to this by stating in the positive regarding the following statement. This is the Post-Examination statement on the NRC "Examination Security Agreement". No specific notes were noted below this statement.

Thanks,
Dave

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) or 5/30/00-6/5/00. From the date that I entered into this 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.

Rein, David M.

From: Kelley, Scott R.
Sent: Wednesday, June 14, 2000 3:38 PM
To: Rein, David M.
Subject: RE: 5/00 NRC Examination Security Agreement

I positively agree!
Scott Kelley

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

From: Rein, David M.
Sent: Monday, June 12, 2000 9:52 AM
To: Miller, Steven K.; Hickey, William J.; Roman, Mark C.; Johnson, Edward A.; Laughman, Daniel L.; Macewen, Thomas T.; Boyle, Daniel; Kelley, Scott R.
Subject: 5/00 NRC Examination Security Agreement
Importance: High

Please respond to this by stating in the positive regarding the following statement. This is the Post-Examination statement on the NRC "Examination Security Agreement". No specific notes were noted below this statement.
Thanks,
Dave

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) or 5/30/00-6/5/00. From the date that I entered into this 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.