

Facility: Hope Creek LSRO		Date of Examination: March 10, 2003
Examinations Developed by: Facility		Written Exam 3/28/03 Op 3/31/03 4/7/03 Exam dates moved due to new bridge installation.
Target Date*	Task Description / Reference	Chief Examiner's Initials
09/10/02	1. Examination administration date confirmed (C.1.a; C.2.a & b)	<input checked="" type="checkbox"/>
11/10/02	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	10/31/02 <input checked="" type="checkbox"/>
11/10/02	3. Facility contact briefed on security & other requirements (C.2.c)	10/31/02 <input checked="" type="checkbox"/>
11/10/02	4. Corporate notification letter sent (C.2.d)	10/31/02 <input checked="" type="checkbox"/>
[-90]	[5. Reference material due (C.1.e; C.3.c)]	N/A
12/25/02	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	12/23/02 <input checked="" type="checkbox"/>
12/30/02	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	12/31/02 <input checked="" type="checkbox"/>
01/24/03	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	1/27/03 <input checked="" type="checkbox"/>
02/08/03	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	<input checked="" type="checkbox"/>
02/24/03	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	3/3/03 <input checked="" type="checkbox"/>
02/24/03	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	1/31/03 <input checked="" type="checkbox"/>
02/24/03	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	2/5/03 <input checked="" type="checkbox"/>
03/03/03	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	3/28/03 <input checked="" type="checkbox"/>
03/03/03	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	3/24/03 <input checked="" type="checkbox"/>
03/03/03	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	3/28/03 <input checked="" type="checkbox"/>
03/03/03	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	3/28/03 <input checked="" type="checkbox"/>
<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: HOPE CREEK LSPO		Date of Examination: 3/10/03		
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. ^{701 aef}	aef	R	AS
	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.	aef	R	AS*
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	aef	R	AS*
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	aef	R	AS
2. D I S C U S S I O N	CRITERIA SPECIFIED IN ES-701			
	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.	aef	R	AS
	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.	aef	R	AS
3. W I T T E N	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.	aef	R	AS
	a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, ^{aef aef} (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.	aef	R	AS
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301. ^{aef 701*} (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.	aef	R	AS
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	aef	R	AS
	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.	aef	R	AS
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.	aef	R	AS
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	aef	R	AS
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5. *	aef	R	AS
	d. Check for duplication and overlap among exam sections. *	aef	R	AS
	e. Check the entire exam for balance of coverage. *	aef	R	AS
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	aef	R	AS
a. Author <u>Archie E. Faulkner</u> Printed Name / Signature <u>Archie E. Faulkner</u>				Date <u>12/18/02</u>
b. Facility Reviewer (*) <u>James G. Reid</u>				<u>12/19/02</u>
c. NRC Chief Examiner (#) <u>Alan Blaney</u>				<u>12/31/02</u>
d. NRC Supervisor <u>RT Cook</u>				<u>12/31/02</u>
* With Comment				
Note: * Not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.				

LSRO 2003

ATTACHMENT 6

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NRC Examination Security Agreement

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 2/24/03 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 3/11/2003. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
Archie E Faulkner	EXAM WRITER	<i>Archie E Faulkner</i>	8/8/02	<i>Archie E Faulkner</i>	4/8/03	
DAVID M. REIN	INSTRUCTOR	<i>David M Rein</i>	8/9/02	<i>David M Rein</i>	4/9/03	
Gerald S. Gauding	INSTRUCTOR	<i>Gerald S Gauding</i>	8/9/02	<i>Gerald S Gauding</i>	4-9-03	
FRANCIS KAMINSKI	INSTRUCTOR	<i>Francis Kaminski</i>	8-9-02	<i>Francis Kaminski</i>	4-9-03	
JAMES G. REID	TRAINING MGR.	<i>James G Reid</i>	12/19/02	<i>James G Reid</i>	4/10/03	
Bernard Litchett	CRS	<i>Bernard Litchett</i>	1/16/03	<i>Bernard Litchett</i>	4-9-03	
JONATHAN NERE	INSTRUCTOR	<i>Jonathan Nere</i>	2/4/03	JONATHAN NERE PER TELECONF	4/11/03	
Nicola F. Conicelli	Ops. Trng. Supt.	<i>Nicola F Conicelli</i>	2/21/03	<i>Nicola F Conicelli</i>	4/9/03	
JAMES G. REID	OPS TRNG MGR	<i>James G Reid</i>	3/6/03	<i>James G Reid</i>	4/10/03	
BRIAN J. THOMAS	Senior Licensing Engr	<i>Brian J Thomas</i>	3/7/03	<i>Brian J Thomas</i>	4/9/03	
DANIEL J. BOYLE	HC ADM	<i>Daniel J Boyle</i>	3/7/03	<i>Daniel J Boyle</i>	4/10/03	
Donald W. LeGrand	instructor	<i>Donald W. LeGrand</i>	3/24/03	<i>Donald W LeGrand</i>	4/9/03	

NC.TQ-WB.ZZ-0027(2)

NRC Examination Security Agreement

ATTACHMENT 6

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 2/24/03 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 3/1/03. 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
Arcelle E. Fackner	Exam Writer	<i>[Signature]</i>	8/8/02		8/8/02	
DAVID M. KEW	INSTRUCTOR	<i>[Signature]</i>	8/8/02		8/8/02	
Geoff S. Gaudin	INSTRUCTOR	<i>[Signature]</i>	8/9/02		8/9/02	
FRANCIS KAMUS	INSTRUCTOR	<i>[Signature]</i>	8-9-02		8-9-02	
JAMES G. REID	TRAINING MGR.	<i>[Signature]</i>	10/19/03		10/19/03	
JAMES G. REID	CRS	<i>[Signature]</i>	1/16/03		1/16/03	
Bernard Kirkett	INSTRUCTOR	<i>[Signature]</i>	2/4/03		2/4/03	
JOHNNAN NEVE	INSTRUCTOR	<i>[Signature]</i>	2/19/03		2/19/03	
Nicole F. Conville	Gen. Insp. Supt.	<i>[Signature]</i>	3/6/03		3/6/03	
JAMES G. REID	OPS TRNG MGR	<i>[Signature]</i>	3/7/03		3/7/03	
BRIAN J. THOMAS	Senior Licensing Eng	<i>[Signature]</i>	3/17/03		3/17/03	
DANIEL J. GOYLE	HC AOM	<i>[Signature]</i>	3/26/03		3/26/03	
Donald W. LeGrand	INSTRUCTOR	<i>[Signature]</i>	3/26/03		3/26/03	

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 3/26/03
 3/26/03
 3/26/03

HC OPS
 INSTRUCTOR
 HC AOM
 Senior Licensing Eng
 OPS TRNG MGR
 Gen. Insp. Supt.
 INSTRUCTOR
 CRS
 TRAINING MGR.
 INSTRUCTOR
 INSTRUCTOR
 Exam Writer

FW PERG
 Donald W. LeGrand
 DANIEL J. GOYLE
 BRIAN J. THOMAS
 JAMES G. REID
 Nicole F. Conville
 JOHNNAN NEVE
 Bernard Kirkett
 JAMES G. REID
 FRANCIS KAMUS
 Geoff S. Gaudin
 DAVID M. KEW
 Arcelle E Fackner

ATTACHMENT 6

NRC Examination Security Agreement

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 2/27/03 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 3/31/03. 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
Archie E. Facknor	Exam Mgr. P2C	<i>[Signature]</i>	8/8/02			
DAVID M. ADIN	INSTRUCTOR	<i>[Signature]</i>	8/8/02			
Geoff S. Gaudin	INSTRUCTOR	<i>[Signature]</i>	8/8/02			
FRANCIS KAMUSKI	INSTRUCTOR	<i>[Signature]</i>	8-9-02			
JAMES E. REID	TRAINING MGR.	<i>[Signature]</i>	12/19/02			
Bernard L. Kott	CRS	<i>[Signature]</i>	1/16/03			
Jonathan Nece	INSTRUCTOR	<i>[Signature]</i>	2/4/03			
Nicole F. Camiello	Ops. Trng. Supt.	<i>[Signature]</i>	2/11/03			
JAMES E. REID	OPS TRNG MGR	<i>[Signature]</i>	3/6/03			
BRIAN J. THOMAS	Senior Licensing Engg	<i>[Signature]</i>	3/7/03			
DANIEL J. BOYLE	HC ADM	<i>[Signature]</i>	3/7/03			
Donald W. LeGrand	INSTRUCTOR	<i>[Signature]</i>	3/24/03			
FW BERG	HC OPS	<i>[Signature]</i>	3/26/03	<i>[Signature]</i>		Rev. 2 4.9.03

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03-25-03 14:03
ALL FACILITY UNIT-SPUI CHANNELS MUST BE ATTACHED FOR FIELD USE
20020808
101
FROM: 856 339 3014
ID#
04-09-03 16:19 TO:
P01/01

Facility:		Date of Examination:		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).			REF	BZ	☑
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.			REF	BZ	☑
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).			REF	BZ	☑
d.	Overlap with the written examination and between operating test categories is within acceptable limits.			REF	BZ	☑
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.			REF	BZ	☑
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 reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee specific performance criteria that include: <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 			* JPM 55 will be SUBMITTED WHEN PROCEDURES ARE DEVELOPED		
				*	*	*
				REF	BZ	☑
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.			REF	BZ	☑
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.			REF	BZ	☑
d.	At least 20 percent of the JPMs on each test are new or significantly modified.			REF	BZ	☑
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.			N/A	N/A	N/A
	Printed Name / Signature			Date		
a. Author	Archie Faulkner			1/20/03		
b. Facility Reviewer(*)	Bernard L. Kett / Bernard L. Kett			1/20/03		
c. NRC Chief Examiner (#)	Alan Blaney / Alan Blaney with comments			1/31/03		
d. NRC Supervisor	Richard J. Conter / Richard J. Conter			3/28/03		
NOTE:	* The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.					

Facility: Hope Creek Generating Station Date of Examination: 3/17/03
 Examinations Developed by: Facility NRC Operating Test Number: 1
 Scenario Numbers: 1 / 2 /

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.	QEZ		AB		
2. The scenarios consist mostly of related events.	QEZ		AB		
3. Each event description consists of - the point in the scenario when it is to be initiated ✓ - the malfunction(s) that are entered to initiate the event N/A - the symptoms/cues that will be visible to the crew N/A - the expected operator actions (by shift position) ✓ - the event termination point (if applicable) ✓	QEZ		NA		
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.	QEZ		NA		
5. The events are valid with regard to physics and thermodynamics.	QEZ		AB		
6. Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	QEZ		AB		
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.	QEZ		AB		
8. The simulator modeling is not altered.	N/A	PAGE	NA		
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.	QEZ	NEXT PAGE	AB		
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.	QEZ	NEXT PAGE	AB		
11. All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios). (EXCEPT "OPERATE CONTROL BOARDS")	QEZ	NEXT PAGE	AB		
12. Each applicant will be significantly involved in the minimum number of transients and events specified in Form ES-301-5 ^{ES-301} (submit the form with the simulator scenarios).	QEZ	SEE NEXT PAGE	AB		
13. The level of difficulty is appropriate to support licensing decisions for each crew position.	QEZ	SEE NEXT PAGE	AB		
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)	Actual Attributes		--	--	--
1. Total malfunctions (5-8)	/	/			
2. Malfunctions after EOP entry (1-2)	/	/			
3. Abnormal events (2-4)	/	/			
4. Major transients (1-2)	/	/			
5. EOPs entered/requiring substantive actions (1-2)	/	/			
6. EOP contingencies requiring substantive actions (0-2)	/	/			
7. Critical tasks (2-3)	/	/			

ES-301

Simulator Scenario Quality Checklist
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FORM ES-301-4

Facility: <u>Hope Creek Generating Station</u>		Date of Examination: <u>3/17/03</u>		
Examinations Developed by: <input checked="" type="checkbox"/> Facility <input type="checkbox"/> NRC		Operating Test Number: <u>1</u>		
Scenario Numbers: <u>1</u> / <u>2</u> / <u> </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.		QET	W	
2. The scenarios consist mostly of related events.		QET	W	
3. Each event description consists of - the point in the scenario when it is to be initiated ✓ - the malfunction(s) that are entered to initiate the event N/A - the symptoms/cues that will be visible to the crew N/A - the expected operator actions (by shift position) ✓ - the event termination point (if applicable) ✓		QET	W	
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.		QET	W	
5. The events are valid with regard to physics and thermodynamics.		QET	W	
6. Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.		QET	W	
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.		QET	W	
8. The simulator modeling is not altered.		N/A	N/A	
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.		QET	W	
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.		QET	W	
11. All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios). (EXCEPT "OPERATE CONTROL BOARDS")		QET	W	
12. Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 ^{ES-301} (submit the form with the simulator scenarios).		QET	W	
13. The level of difficulty is appropriate to support licensing decisions for each crew position.		QET	W	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes		
1. Total malfunctions (5-8)		/	/	
2. Malfunctions after EOP entry (1-2)		/	/	
3. Abnormal events (2-4)		/	/	
4. Major transients (1-2)		/	/	
5. EOPs entered/requiring substantive actions (1-2)		/	/	
6. EOP contingencies requiring substantive actions (0-2)		/	/	
7. Critical tasks (2-3)		/	/	

OPERATING TEST NO.:

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3 ¹	4 ²
RO	Reactivity	1				
	Normal	1				
	Instrument / Component	4				
	Major	1				
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I			totals		Event. No.	
As SRO Limited	Reactivity	0	0	0	-	-
	Normal	1	1	2	2	1,2
	Instrument / Component	1 ² at 7	1	1	1	3
	Major	1	2	2	3,4	4,5
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				

- 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.
 - (3) Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirement.

Author:

ARCHIE E. FAULKNER / Archie E. Faulkner

NRC Reviewer:

Alan Blamey / Alan Blamey

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	1	3, 4			1	3, 4			1	3, 4		
Diagnose Events and Conditions	1, 3	1, 3, 4, 5			1, 3	1, 3, 4, 5			1, 3	1, 3, 4, 5		
Understand Plant and System Response	3	1, 2, 3, 4, 5			3	1, 2, 3, 4, 5			3	1, 2, 3, 4, 5		
Comply With and Use Procedures (1)	1, 2, 3	1, 2, 3, 5			1, 2, 3	1, 2, 3, 5			1, 2, 3	1, 2, 3, 5		
Operate Control Boards (2)												
Communicate and Interact With the Crew	2, 3, 4	3, 4			2, 3, 4	3, 4			2, 3, 4	3, 4		
Demonstrate Supervisory Ability (3)	3	3, 4			3	3, 4			3	3, 4		
Comply With and Use Tech. Specs. (3)	1, 2				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: 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: Archie E Faulkner / Archie E. Faulkner

NRC Reviewer: Alan Blamey / Alan Blamey

Facility: <u>HOPE CREEK 1</u>		Date of Exam: <u>3/10/03</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>B2</u>	<u>B</u>	
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			<u>QET</u>	<u>B2</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>N/A</u>	<u>N/A</u>	<u>N/A</u>	
4.	Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process					<u>B</u>	
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" 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 type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)			<u>QET</u>	<u>B2</u>	<u>B</u>	
6.	Bank use meets limits (no more than 75 percent from the bank at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank	Modified	New	<u>QET</u>	<u>B2</u>	<u>B</u>
		<u>28</u>	<u>6</u>	<u>16</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		CIA	<u>QET</u>	<u>B2</u>	<u>B</u>
		<u>22</u>	<u>24</u>	<u>28</u>			
8.	References/handouts provided do not give away answers			<u>QET</u>	<u>B2</u>	<u>B</u> *	
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			<u>QET</u>	<u>B2</u>	<u>B</u>	
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			<u>QET</u>	<u>B2</u>	<u>B</u>	
11.	The exam contains ⁵⁰ <u>100</u> , one-point, multiple choice items; the total is correct and agrees with value on cover sheet			<u>QET</u>	<u>B2</u>	<u>B</u>	
				Printed Name / Signature		Date	
a.	Author	<u>ARCHIE FAULKNER / Archie Faulkner</u>			<u>1/20/03</u>		
b.	Facility Reviewer (*)	<u>Bernard L. Lott / Bernard Lott</u>			<u>1/20/03</u>		
c.	NRC Chief Examiner (#)	<u>Alan Blaney / Alan Blaney with comments</u>			<u>1/31/03</u>		
d.	NRC Regional Supervisor	<u>Richard V. Conde / Richard V. Conde</u>			<u>2/18/03</u>		
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.							

ES-403

Written Examination Grading
Quality Checklist

Form ES-403-1

Facility:		Date of Exam:		Exam Level: RO/SRO		
Item Description				Initials		
				a	b	c
1.	Clean answer sheets copied before grading	QET	W	B		
2.	Answer key changes and question deletions justified and documented	QET	W	B		
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	QET	W	B		
4.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	QET	W	B		
5.	All other failing examinations checked to ensure that grades are justified	N/A	N/A	B		
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	QET	W	B		

all verified by NRC

	Printed Name / Signature	Date
a. Grader	<u>Archie E. [Signature]</u>	<u>4/10/03</u>
b. Facility Reviewer(*)	<u>H. P. [Signature]</u>	<u>4/11/03</u>
c. NRC Chief Examiner (*)	<u>[Signature]</u>	<u>4/16/03</u>
d. NRC Supervisor (*)	<u>Richard J. Conforte / [Signature]</u> <i>* R. Czerniak Review 5/1/03</i>	<u>5/18/03</u>

(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.