

KEWAUNEE

May 2001

**EXAMINATION
FORMS**

Facility: <u>Kewaunee</u>		Date of Examination: <u>05/15/01 - 05/17/01</u>
Examinations Developed by: <input checked="" type="checkbox"/> Facility / <input type="checkbox"/> 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)	AMS
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	AMS
-120	3. Facility contact briefed on security & other requirements (C.2.c)	AMS
-120	4. Corporate notification letter sent (C.2.d)	AMS
[-90]	[5. Reference material due (C.1.e; C.3.c)]	N/A
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	AMS
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	AMS
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	AMS
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	AMS
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	AMS
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	AMS
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	AMS
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	AMS
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	AMS
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	AMS
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	AMS
<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>		

KEWAUNEE EXAMINATION - MAY 2001

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of May 14 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 May 14. 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)	DATENOTE
1. George Baldwin	Senior Technical Instructor	<i>George Baldwin</i>	1/19/01	<i>George Baldwin</i>	5/14/01
2. Kay Stangel	Ops Training Clerk	<i>Kay Stangel</i>	2/13/01	<i>Kay Stangel</i>	5/21/01
3. William J. Rehnert	Senior technical Instructor	<i>William J. Rehnert</i>	2/14/01	<i>William J. Rehnert</i>	5/21/01
4. DANIEL R. STARR	SR. TECHNICAL INSTRUCTOR	<i>Daniel R. Starr</i>	2/19/01	<i>Daniel R. Starr</i>	5/17/01
5. DALE A. PATTERSON	Principle Engineer	<i>Dale A. Patterson</i>	2/19/01	<i>Dale A. Patterson</i>	5/17/01
6. DEBASMITA MISRA	Senior Engineer	<i>Debasmita Misra</i>	2/21/01	<i>Debasmita Misra</i>	5/21/01
7. Chuck Sizemore	TRAINING SUPERVISOR ABHP	<i>Chuck Sizemore</i>	2/23/01	<i>Chuck Sizemore</i>	5/17/01
8. DAVE BRAUN	SRO REVIEW	<i>D. Braun</i>	5-23-01	<i>D. Braun</i>	5-21-01
9. STEVE SMITH	SR. TRAINING INSTRUCTOR	<i>Steve Smith</i>	2-27-01	<i>Steve Smith</i>	5-29-01
10. Rex TURNER	TECHNICAL INSTRUCTOR	<i>Rex Turner</i>	3/5/01	<i>Rex Turner</i>	5/17/01
11. Pat Murphy	Technical Instructor	<i>Pat Murphy</i>	3/7/01	<i>Pat Murphy</i>	5/18/01
12. Wyatt Gudes	Training Supervisor	<i>Wyatt Gudes</i>	3/26/01	<i>Wyatt Gudes</i>	5/17/01
13. MARK LINDAHL	SRO/SRO	<i>Mark Lindahl</i>	3/28/01	<i>Mark Lindahl</i>	5-21-01
14. DWIGHT CAMPBELL	REACTOR OPERATOR	<i>Dwight Campbell</i>	3/26/01	<i>Dwight Campbell</i>	5/18/01
15. Robert Kerschner	CRS/SRO	<i>Robert Kerschner</i>	3/26/01	<i>Robert Kerschner</i>	5-23-01

NOTES:

KEWAUNEE EXAMINATION - MAY 2001

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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 May 14. 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)	DATENOTE
1. David Lehman	Process Leader - Operations	<i>David Lehman</i>	3/26/01	<i>David Lehman</i>	5/11/01
2. Jeff Stoeger	Superintendent - Plant ops	<i>Jeff Stoeger</i>	4-5-01	<i>Jeff Stoeger</i>	5/21/01
3. AL PETERS	Nuclear Control Operator	<i>Al Peters</i>	4/9/01	<i>Al Peters</i>	6/10/01
4. Duwayne Huss	Nuclear Control Operator	<i>Duwayne Huss</i>	4/9/01	<i>Duwayne Huss</i>	5/21/01
5. Mark Kultgen	Control Room Supervisor	<i>Mark Kultgen</i>	5-4-01	<i>Mark Kultgen</i>	5-22-01
6. Doug Lesperance	Electrician	<i>Doug Lesperance</i>	4-9-01	<i>Doug Lesperance</i>	5-24-01
7. PATTI MAULEY	CLERK	<i>Patti Mauley</i>	4-18-01	<i>Patti Mauley</i>	5-21-01
8. Gerald Patenaude	I+C Tech	<i>Gerald E Patenaude</i>	5-14-01	<i>Gerald E Patenaude</i>	5-21-01
9. Dave Nass	NCO	<i>Dave Nass</i>	5-14-01	<i>Dave Nass</i>	5-23-01
10. MIKE JOHNSON	SCO	<i>Mike Johnson</i>	5-14-01	<i>Mike Johnson</i>	5-23-01
11.					
12.					
13.					
14.					
15.					

NOTES:

Facility: Kewaunee		Date of Examination: May 2001	Operating Test Number: 1		
1. GENERAL CRITERIA			Initials		
			a	b	c
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	ASB	DCL	AMS	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	ASB	DCL	AMS	
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	ASB	DCL	AMS	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	ASB	DCL	AMS	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	ASB	DCL	AMS	
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 	ASB	DCL	AMS	
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	N/A	DCL	AMS	
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walkthrough) and do not compromise test integrity.	N/A	DCL	AMS	
d.	At least 20 percent of the JPMs and questions on each test are new or significantly modified.	N/A	DCL	AMS	
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.	ASB	DCL	AMS	
		Printed Name / Signature		Date	
a. Author	G. E. Baldwin	<i>G. E. Baldwin</i>		4/17/01	
b. Facility Reviewer(*)	D.C. Lehman	<i>D.C. Lehman</i>		4/18/01	
c. NRC Chief Examiner (*)	A.M. Stone	<i>A.M. Stone</i>		5/1/01	
d. NRC Supervisor (*)	D.E. Ailes	<i>D.E. Ailes</i>		5/1/01	
(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.					

Facility: Kewaunee	Date of Exam: May 2001	Scenario Numbers: 1 / 2	Operating Test No.: 1		
QUALITATIVE ATTRIBUTES		Initials			
		a	b	c	
1. The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.		ASB	DEL	AMJ	
2. The scenarios consist mostly of related events.		ASB	DEL	AMJ	
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 · the symptoms/cues that will be visible to the crew · the expected operator actions (by shift position) · the event termination point (if applicable)		ASB	DEL	AMJ	
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.		ASB	DEL	AMJ	
5. The events are valid with regard to physics and thermodynamics.		ASB	DEL	AMJ	
6. Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.		ASB	DEL	AMJ	
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.		ASB	DEL	AMJ	
8. The simulator modeling is not altered.		ASB	DEL	AMJ	
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.		ASB	DEL	AMJ	
10. Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been modified in accordance with Section D.4 of ES-301.		ASB	DEL	AMJ	
11. All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).		ASB	DEL	AMJ	
12. Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form along with the simulator scenarios).		ASB	DEL	AMJ	
14. The level of difficulty is appropriate to support licensing decisions for each crew position.		ASB	DEL	AMJ	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)	Actual Attributes	---	---	---	
1. Total malfunctions (5-8)	7/7	ASB	DEL	AMJ	
2. Malfunctions after EOP entry (1-2)	3/2	ASB	DEL	AMJ	
3. Abnormal events (2-4)	3/4	ASB	DEL	AMJ	
4. Major transients (1-2)	2/2	ASB	DEL	AMJ	
5. EOPs entered/requiring substantive actions (1-2)	3/3	ASB	DEL	AMJ	
6. EOP contingencies requiring substantive actions (0-2)	1/1	ASB	DEL	AMJ	
7. Critical tasks (2-3)	3/2	ASB	DEL	AMJ	

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

Instructions:

Circle the applicant's license type and enter the event numbers that test the competency for each scenario in the set.

Author:

J E Baldini

Chief Examiner:

Danmarie Stone

Facility: Kewaunee		Date of Exam: May 2001		Exam Level: SRO	
Item Description	Initial				
	a	b*	c#		
1. Questions and answers technically accurate and applicable to facility	ASB	DCJ			
2. a. NRC K/As referenced for all questions b. Facility learning objectives reference as available	ASB	DCJ			
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	ASB	DCJ			
4. 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 licensee certifies that there is no duplication; or <input type="checkbox"/> the license exam was prepared by the NRC	ASB	DCJ			
5. 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	ASB	DCJ
	34	20	46		
6. 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	ASB	DCJ
	40/42		60/58		
7. References/handouts provided do not give away answers	ASB	DCJ			
8. Question content conforms with specific K/A statements in the previously approved examination outline; deviations are justified	ASB	DCJ			
9. Question psychometric quality and format meet ES, Appendix B, guidelines	ASB	DCJ			
10. The exam contains 100, one-point, multiple choice items; the total is correct and corresponds to value on cover sheet	ASB	DCJ			
			Printed Name / Signature	Date	
a. Author	G. E. Baldwin	<i>G. E. Baldwin</i>		4/17/01	
b. Facility Reviewer(*)	O. C. Lehman	<i>O. C. Lehman</i>		4/18/01	
c. NRC Chief Examiner(*)	D. R. McNeil	<i>D. R. McNeil</i>		4/30/01	
d. NRC Regional Supervisor(*)	D. E. Willis	<i>D. E. Willis</i>		4/30/01	
<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, 5, and 8.</p>					

Facility: Kewaunee		Date of Exam: May 2001		Exam Level: RO		
Item Description	Initial					
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	ASB	DCZ				
2. a. NRC K/As referenced for all questions b. Facility learning objectives reference as available	ASB	DCZ				
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	ASB	DCZ				
4. 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 licensee certifies that there is no duplication; or <input type="checkbox"/> the license exam was prepared by the NRC	ASB	DCZ				
5. 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	ASB	DCZ	
	39	28	32			
6. 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	ASB	DCZ	
	42/44		58/50			
7. References/handouts provided do not give away answers	ASB	DCZ				
8. Question content conforms with specific K/A statements in the previously approved examination outline; deviations are justified	ASB	DCZ				
9. Question psychometric quality and format meet ES, Appendix B, guidelines	ASB	DCZ				
10. The exam contains 100, one-point, multiple choice items; the total is correct and corresponds to value on cover sheet	ASB	DCZ				
			Printed Name / Signature	Date		
a. Author	G. E. Baldwin	<i>G. E. Baldwin</i>		4/17/01		
b. Facility Reviewer(*)	D.C. Lohman	<i>D.C. Lohman</i>		4/18/01		
c. NRC Chief Examiner(*)	Dell R. McNeil	<i>Dell R. McNeil</i>		4/30/01		
d. NRC Regional Supervisor(*)	D. E. Hils	<i>D. E. Hils</i>		4/30/01		
<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, 5, and 8.</p>						

Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	5/23/2001
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	5/23/2001
3. Operating tests graded by NRC examiners	6/4/2001
4. NRC Chief examiner review of written exam and operating test grading completed	6/4/2001
5. Responsible supervisor review completed	6/5/2001
6. Management (licensing official) review completed	6/5/2001
7. License and denial letters mailed	6/5/2001
8. Facility notified of results	6/5/2001
9. Examination report issued (refer to NRC MC 0610)	6/8/2001
10. Reference material returned after final resolution of any appeals	N/A

Facility: Kewaunee		Date of Exam: May 16, 2001		Exam Level: RO/SRO	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	AMS	N/A			
2. Answer key changes and question deletions justified and documented	AMS	N/A			
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	AMS	N/A			
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	N/A	N/A			
5. All other failing examinations checked to ensure that grades are justified	AMS	N/A			
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	AMS	N/A			
		Printed Name / Signature		Date	
a. Grader	Ann Marie Stone/ <u>Ann Marie Stone</u>		<u>6/4/01</u>		
b. Facility Reviewer(*)	N/A - NRC graded				
c. NRC Chief Examiner (*)	Dell McNeil/ <u>Dell McNeil</u>		<u>6/5/01</u>		
d. NRC Supervisor (*)	David Hills/ <u>DE Hills</u>		<u>6/5/01</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					