

VARIOUS CHECKLISTS

FOR THE D. C. COOK INITIAL EXAMINATION - MAY 2001

Facility: <u>D. C. COOK</u>		Date of Examination: <u>May 7 - 21, 2001</u>
Examinations Developed by: Facility / (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)	AB
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	AB
-120	3. Facility contact briefed on security & other requirements (C.2.c)	AB
-120	4. Corporate notification letter sent (C.2.d)	AB
[-90]	[5. Reference material due (C.1.e; C.3.c)]	AB
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	AB
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	AB * NRC developed
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	AB
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	AB
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	AB
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	AB
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	AB
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	AB
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	AB
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	AB * NRC Admins lead & proctored
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	AB
<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>		

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5/7/01 - 5/11/01 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 5/7/01 - 5/11/01 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>Ronald M. Bailey</u>	<u>Senior Instructor / Exam Team</u>	<u>[Signature]</u>	<u>9/8/00</u>	<u>[Signature]</u>	<u>05/22/01</u>
2. <u>Jack R. Van Atta</u>	<u>Senior Training Instructor / Exam Team</u>	<u>[Signature]</u>	<u>9/8/00</u>	<u>[Signature]</u>	<u>05/22/01</u> ①
3. <u>Roger Anderson</u>	<u>Operations Training Coordinator</u>	<u>[Signature]</u>	<u>1-11-01</u>	<u>[Signature]</u>	<u>5-22-01</u>
4. <u>Susan Stiger</u>	<u>Ops Training Sr Clerk</u>	<u>[Signature]</u>	<u>4-10-01</u>	<u>[Signature]</u>	<u>5-30-01</u>
5. <u>Tim Vriczema</u>	<u>Simulator Supervisor</u>	<u>[Signature]</u>	<u>4-10-01</u>	<u>[Signature]</u>	<u>5/24/01</u>
6. <u>Tim Garvizon</u>	<u>COMPUTER ANALYST</u>	<u>[Signature]</u>	<u>4/10/01</u>	<u>[Signature]</u>	<u>5/22/01</u>
7. <u>Bandy P. Rose</u>	<u>Reactor Operator</u>	<u>[Signature]</u>	<u>4/10/01</u>	<u>[Signature]</u>	<u>5/22/01</u>
8. <u>WILLIAM D. ETHELDIDGE</u>	<u>SHIFT MANAGER</u>	<u>[Signature]</u>	<u>4/10/01</u>	<u>[Signature]</u>	<u>5/24/01</u>
9. <u>Ivan D. Fleerwood</u>	<u>SENIOR TRAINING INSTRUCTOR</u>	<u>[Signature]</u>	<u>4-18-01</u>	<u>[Signature]</u>	<u>5-22-01</u>
10. <u>Lisa Tatrault</u>	<u>SR. TRNG INSTR.</u>	<u>[Signature]</u>	<u>4-17-01</u>	<u>[Signature]</u>	<u>5-22-01</u>
11. <u>Gregg M Smith</u>	<u>Training Instructor</u>	<u>[Signature]</u>	<u>5/7/01</u>	<u>[Signature]</u>	<u>5/22/01</u>
12. <u>Keith Salvati</u>	<u>Simulator Maint.</u>	<u>[Signature]</u>	<u>5/7/01</u>	<u>[Signature]</u>	<u>5/24/01</u>
13. <u>RONALD G. BROWN</u>	<u>ops TRNG MGR</u>	<u>[Signature]</u>	<u>5/7/01</u>	<u>[Signature]</u>	<u>5/22/01</u>
14. <u>Paul Cooper</u>	<u>Sr Trng Instructor</u>	<u>[Signature]</u>	<u>5/9/01</u>	<u>[Signature]</u>	<u>5/22/01</u>
15. <u>VINCENT LARICERLO</u>	<u>Sr TRNG INSTRUCTOR</u>	<u>[Signature]</u>	<u>5/9/01</u>	<u>[Signature]</u>	<u>5/27/01</u>

NOTES: ① Termination of employment.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5-7-01 - 5-11-01 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 5/7/01 & 5/11/01 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>Tonya Ott</u>	<u>Simulator Senior Clerk</u>	<u>Tonya M. Ott</u>	<u>5/10/01</u>	<u>Tonya M. Ott</u>	<u>5/22/01</u>	
2. <u>Paul Roy</u>	<u>Senior Instructor</u>	<u>Paul Roy</u>	<u>5/10/01</u>	<u>Paul Roy</u>	<u>5/22/01</u>	
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NOTES:

Facility: D.C. Cook		Date of Examination: 5/7/01		Operating Test Number: 2001301	
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).	RM	SM	AP	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	RM	SM	AP	
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	RM	SM	AP	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	RM	SM	AP	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	RM	SM	AP	
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 	RM	SM	AP	
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	RM	SM	AP	
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.	RM	SM	AP	
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	RM	SM	AP	
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.	RM	SM	AP	
	Printed Name / Signature	Date			
a.	Certifying Author	R. M. Morris / <i>R. M. Morris</i>		2/8/01	
b.	Author of Record	Dell R. McNeil / <i>Dell R. McNeil</i>		03/15/01	
c.	NRC Chief Examiner (*)	Hironori Peterson / <i>Hironori Peterson</i>		3/28/01	
d.	NRC Supervisor (*)	David H. G. / <i>David H. G.</i>		4/27/01	
(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.					

Facility: D.C. Cook		Date of Exam: 5/7/01		Scenario Numbers: 1 / 2 / 3		Operating Test No.: 2001301			
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.	Rm	ju	HP					
2.	The scenarios consist mostly of related events.	Rm	ju	HP					
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) 	Rm	ju	HP					
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.	Rm	ju	HP					
5.	The events are valid with regard to physics and thermodynamics.	Rm	ju	HP					
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	Rm	ju	HP					
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.	Rm	ju	HP					
8.	The simulator modeling is not altered.	Rm	ju	HP					
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.		ju	HP					
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.	Rm	ju	HP					
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	Rm	ju	HP					
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).	Rm	ju	HP					
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	Rm	ju	HP					
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes		--	--	--			
1.	Total malfunctions (5-8)	7	7	6	Rm	ju	HP		
2.	Malfunctions after EOP entry (1-2)	2	3	2	Rm	ju	HP		
3.	Abnormal events (2-4)	4	3	3	Rm	ju	HP		
4.	Major transients (1-2)	1	1	1	Rm	ju	HP		
5.	EOPs entered/requiring substantive actions (1-2)	2	2	3	Rm	ju	HP		
6.	EOP contingencies requiring substantive actions (0-2)	1	1	1	Rm	ju	HP		
7.	Critical tasks (2-3)	2	2		Rm	ju	HP		

Facility: D.C. Cook		Date of Exam: 5/7/01		Scenario Numbers: 4 / 5 / 6		Operating Test No.: 2001301			
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.	Rm	Sm	AB					
2.	The scenarios consist mostly of related events.	Rm	Sm	AB					
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) 	Rm	Sm	AB					
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.	Rm	Sm	AB					
5.	The events are valid with regard to physics and thermodynamics.	Rm	Sm	AB					
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	Rm	Sm	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.	Rm	Sm	AB					
8.	The simulator modeling is not altered.	Rm	Sm	AB					
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.		Sm	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.	Rm	Sm	AB					
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	Rm	Sm	AB					
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).	Rm	Sm	AB					
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	Rm	Sm	AB					
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes		--	--	--			
1.	Total malfunctions (5-8)	7	6	7	Rm	Sm	AB		
2.	Malfunctions after EOP entry (1-2)	3	1	3	Rm	Sm	AB		
3.	Abnormal events (2-4)	3	4	3	Rm	Sm	AB		
4.	Major transients (1-2)	1	2	1	Rm	Sm	AB		
5.	EOPs entered/requiring substantive actions (1-2)	3	4	2	Rm	Sm	AB		
6.	EOP contingencies requiring substantive actions (0-2)	1	1	1	Rm	Sm	AB		
7.	Critical tasks (2-3)	2	2	2	Rm	Sm	AB		

OPERATING TEST NO.: 2001301

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1	1	1	1	1
	Normal	1	1	1	1	1
	Instrument / Component	4	8.5 8m	6	8.5 8m	6
	Major	1	1	1	1	1

As RO	Reactivity	1	1	1	1	1
	Normal	0	1	1	1	1
	Instrument / Component	2	3	3	3.2 8m	3
	Major	1	1	1	1	1
SRO-I	Reactivity	0	1	1	1	1
	Normal	1	1	1	1	1
As SRO	Instrument / Component	2	8.5 8m	6	8.5 8m	6
	Major	1	1	1	1	1

SRO-U	Reactivity	0	1	1	1	1
	Normal	1	1	1	1	1
	Instrument / Component	2	8.5 8m	6	8.5 8m	6
	Major	1	1	1	1	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.

Certifying Author: Michael Mans

Author of Record: W. R. M. Hill

Chief Examiner: Amanda Williams

OPERATING TEST NO.: 2001301

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			5	6	7	8
RO	Reactivity	1	1	1		
	Normal	1	1	1		
	Instrument / Component	4	5	6		
	Major	1	1	1		

As RO	Reactivity	1	1	1		
	Normal	0	1	1		
	Instrument / Component	2	3	3		
	Major	1	1	1		
SRO-I	Reactivity	0	1	1		
	Normal	1	1	1		
	Instrument / Component	2	3	3		
	Major	1	1	1		

SRO-U	Reactivity	0	1	1		
	Normal	1	1	1		
	Instrument / Component	2	5	6		
	Major	1	1	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.
 - (4) 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.

Certifying Author: *R. Michael M...*

Author of Record: *Lee R. McNeil*

Chief Examiner: *[Signature]*

Competencies	Applicant #1 RO/SRO-I/SRO-U <i>IN RO POSITION</i>				Applicant #2 RO/SRO-I/SRO-U <i>IBDP POSITION</i>				Applicant #3 RO/SRO-I/SRO-U <i>IN SRO POSITION</i>			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	<i>ROC3</i>	<i>R X 1 O 2 A</i>	<i>N I 1 O 2 B</i>	<i>R X 1 I 2 A</i>	<i>ROC3</i>	<i>R X 1 I 2 F</i>	<i>R X 2 I 3 H</i>	<i>R X 2 I 3 A</i>	<i>ROC3</i>	<i>R X 1 O 2 A</i>	<i>R X 2 I 3 H</i>	<i>R X 1 I 2 A</i>
Diagnose Events and Conditions	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>
Understand Plant and System Response	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>
Comply With and Use Procedures (1)	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>
Operate Control Boards (2)	<i>C V 1 I 3 A</i>	<i>R X 1 O 2 A</i>	<i>N I 1 O 2 B</i>	<i>R X 1 I 2 A</i>	<i>R X 2 I 3 F</i>	<i>R X 2 I 3 H</i>	<i>R X 2 I 3 A</i>		<i>R X 1 I 2 F</i>			
Communicate and Interact With the Crew	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>
Demonstrate Supervisory Ability (3)									<i>A L L</i>	<i>A L L</i>	<i>A L L</i>	<i>A L L</i>
Comply With and Use Tech. Specs. (3)	<i>R O C 3</i>				<i>R O C 3</i>	<i>R X 1 I 2 F</i>	<i>R X 2 I 3 H</i>	<i>R X 1 I 2 B</i>	<i>R O C 3</i>	<i>R X 1 I 2 F</i>	<i>R X 2 I 3 H</i>	<i>R X 1 I 2 B</i>
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.

Competencies	Applicant #1 RO/SRO-I/SRO-U <i>IN RO POSITION</i>				Applicant #2 RO/SRO-I/SRO-U <i>IN SRO POSITION</i>				Applicant #3 RO/SRO-I/SRO-U <i>IN SRO POSITION</i>			
	SCENARIO				SCENARIO				SCENARIO			
	5	6			5	6			5	6		
Understand and Interpret Annunciators and Alarms	C V 1 6A	R X 0 2C			R X 2 6G	R X 2 6A			R X 2 6G	R X 2 6C		
Diagnose Events and Conditions	A L L	A L L			A L L	A L L			A L L	A L L		
Understand Plant and System Response	A L L	A L L			A L L	A L L			A L L	A L L		
Comply With and Use Procedures (1)	A L L	A L L			A L L	A L L			A L L	A L L		
Operate Control Boards (2)	O V 1 6A	R X 0 2C			R X 2 6G	R X 2 6A						
Communicate and Interact With the Crew	A L L	A L L			A L L	A L L			A L L	A L L		
Demonstrate Supervisory Ability (3)									A L L	A L L		
Comply With and Use Tech. Specs. (3)					R X 2 6G	R X 2 6A			R X 2 6G	R X 2 6C		
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.

Certifying Author: *Michael M...*
 Author of Record: *...*
 Chief Examiner: *...*

Facility: D.C. Cook		Date of Exam: 5/7/01			Exam Level: <u>RO/SRO</u>		
Item Description					Initial		
					a	b	c#
1.	Questions and answers technically accurate and applicable to facility				Rm	Sm	SD
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available				Rm	Sm	SD
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401				Rm	Sm	SD
4.	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 licensee certifies that there is no duplication; or <input checked="" type="checkbox"/> the license exam was prepared by the NRC				Rm	Sm	SD
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	Rm	Sm	SD
		36	9	55			
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	Rm	Sm	SD
		49	46	51			
7.	References/handouts provided do not give away answers				Rm	Sm	SD
8.	Question content conforms with specific K/A statements in the previously approved examination outline; deviations are justified				Rm	Sm	SD
9.	Question psychometric quality and format meet ES, Appendix B, guidelines				Rm	Sm	SD
10.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet				Rm	Sm	SD
		Printed Name / Signature				Date	
a.	Certifying Author	<u>R.M. Morris</u> / R.M. MORRIS				2/8/01	
b.	Author of Record	<u>D.C. Cook</u> / D.C. COOK				03/15/01	
c.	NRC Chief Examiner(*)	<u>Hironan Peterson</u> / HIRONAN PETERSON				3/20/01	
d.	NRC Regional Supervisor(*)	<u>David Hills</u> / DAVID HILLS				4/27/01	
<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: D.C. Cook		Date of Exam: 5/7/01		Exam Level: RO/SRO			
Item Description				Initial			
				a	b	c#	
1.	Questions and answers technically accurate and applicable to facility			Rm	Sm	AP	
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			Rm	Sm	AP	
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			Rm	Sm	AP	
4.	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 licensee certifies that there is no duplication; or <input checked="" type="checkbox"/> the license exam was prepared by the NRC			Rm	Sm	AP	
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	Rm	Sm	AP
		30	9	61			
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	CIA		Rm	Sm	AP
		46	54				
7.	References/handouts provided do not give away answers			Rm	Sm	AP	
8.	Question content conforms with specific K/A statements in the previously approved examination outline; deviations are justified			Rm	Sm	AP	
9.	Question psychometric quality and format meet ES, Appendix B, guidelines			Rm	Sm	AP	
10.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			Rm	Sm	AP	
				Printed Name / Signature		Date	
a.	Certifying Author			R.M. Morris / R.M. Morris		2/8/01	
b.	Author of Record			Dell R. McNeil / Rick Mayfield		2/9/01	
c.	NRC Chief Examiner(*)			Hironori Peterson / Hironori Peterson		3/14/01	
d.	NRC Regional Supervisor(*)			David Hill / David Hill		4-25-01	
<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: <u>D. C. COOK</u>		Date of Exam: <u>5/21/01</u>		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	Rm	jm	AP		
2. Answer key changes and question deletions justified and documented	Rm	jm	AP		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	Rm	jm	AP		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	Rm	jm	AP		
5. All other failing examinations checked to ensure that grades are justified	Rm	jm	AP		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	Rm	jm	AP		
Printed Name / Signature		Date			
a. Grader/Author	<u>Robert Michael Morris / Robert Michael Morris</u>	<u>5/29/01</u>			
b. ^{Grader} Author of Record	<u>Jill R. McNeil / Jill R. McNeil</u>	<u>5/31/01</u>			
c. NRC Chief Examiner (*)	<u>Hironori Peterson / Hironori Peterson</u>	<u>6/4/01</u>			
d. NRC Supervisor (*)	<u>David E. Hill / David E. Hill</u>	<u>6/8/01</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					