

VARIOUS CHECKLISTS

FOR THE DUANE ARNOLD EXAMINATION - NOVEMBER 2002

Facility: Duane Arnold Date of Examination: 11-18-02
 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)	BP
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	BP
-120	3. Facility contact briefed on security & other requirements (C.2.c)	BP
-120	4. Corporate notification letter sent (C.2.d)	BP
[-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)	BP
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	BP
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	BP
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	BP
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	BP
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	NA
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	BP
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	BP
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	BP
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	BP
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	BP

* 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.
 [] Applies only to examinations prepared by the NRC.

DUANE ARNOLD

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 11/18/2002 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 11/14/02. 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. Steve Brewer	operation Instructor	[Signature]	11/14/02	[Signature]	11/27/02
2. George Thullon	operations Instructor	[Signature]	11/14/02	[Signature]	12/2/02
3. Loby Brixey	Contract SRO Inst. Loby Brixey	[Signature]	6-13-02	[Signature]	11-27-02
4. Marilyn Barton	Admin Assist.	[Signature]	6/27/02	[Signature]	12/02/02
5. Dean Curtland	Training Manager	[Signature]	7/16/02	[Signature]	12/10/02
6. DOUG MOSEL	ANSOE	[Signature]	072302	[Signature]	11-27-02
7. David Gibson	ANSOE	[Signature]	072302	[Signature]	11-7-02
8. Glenn Rushworth	OSS	[Signature]	7-23-02	[Signature]	12-3-02
9. R. C. Hunt	Ops Inst	[Signature]	8/9/02	[Signature]	11-29-02
10. Lowell Johnson	Simulator Staff	[Signature]	8/30/02	[Signature]	12-2-02
11. Steve Allen	Simulator Staff	[Signature]	8/30/02	[Signature]	12-2-02
12. NICIE BROWN	OSM	[Signature]	9-5-02	[Signature]	12-3-02
13. LONNIE CROSS	N. S. O. E.	[Signature]	9-5-02	[Signature]	12-9-02
14. Jeffrey A. Miell	ANSOE	[Signature]	9-5-02	[Signature]	12-9-02
15. MICHAEL PETERSEN	OPS INST.	[Signature]	9/12/02	[Signature]	12/2/02

NOTES:

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1. <u>DICK FOWLER</u>	<u>SHIFT MANAGER</u>	<u>[Signature]</u>	<u>9/7/02</u>	<u>[Signature]</u>	<u>12/4/02</u>
2. <u>Bobby Maddox</u>	<u>ANSOE</u>	<u>[Signature]</u>	<u>9/7/02</u>	<u>[Signature]</u>	<u>12/1/02</u>
3. <u>Tom Zimmerman</u>	<u>CRS</u>	<u>[Signature]</u>	<u>9/14/02</u>	<u>[Signature]</u>	<u>12/4/02</u>
4. <u>Stacy Miller</u>	<u>ANSOE</u>	<u>[Signature]</u>	<u>9-14-02</u>	<u>[Signature]</u>	<u>12-4-02</u>
5. <u>John Cookson</u>	<u>NSOE</u>	<u>[Signature]</u>	<u>9-15-02</u>	<u>[Signature]</u>	<u>12-4-02</u>
6. <u>Merle Pettengill</u>	<u>Control Room Supervisor</u>	<u>[Signature]</u>	<u>9/15/02</u>	<u>[Signature]</u>	<u>12/3/02</u>
7. <u>Jesse Latham</u>	<u>ANSOE</u>	<u>[Signature]</u>	<u>9-15-02</u>	<u>[Signature]</u>	<u>12-3-02</u>
8. <u>ERNEST ZAJEC</u>	<u>SIM IEC</u>	<u>[Signature]</u>	<u>10-8-02</u>	<u>[Signature]</u>	<u>12-22</u>
9. <u>GLEN E. PEY</u>	<u>ASSIST. OPS MANAGER</u>	<u>[Signature]</u>	<u>10/8/02</u>	<u>[Signature]</u>	<u>12/5/02</u>
10. <u>LEVIN STECHOS</u>	<u>ANSOE</u>	<u>[Signature]</u>	<u>10/8/02</u>	<u>[Signature]</u>	<u>12/5/02</u>
11. <u>GARY RYAN</u>	<u>NSOE</u>	<u>[Signature]</u>	<u>10-8-02</u>	<u>[Signature]</u>	<u>12-9-02</u>
12. <u>Mandi McCaulley</u>	<u>Business Process Ass</u>	<u>[Signature]</u>	<u>11-8-02</u>	<u>[Signature]</u>	<u>11-27-02</u>
13. <u>RAY RUTAN</u>	<u>INSTRUCTOR</u>	<u>[Signature]</u>	<u>11-19-02</u>	<u>[Signature]</u>	<u>11-27-02</u>
14. <u>Kelly Gassman</u>	<u>Instructor</u>	<u>[Signature]</u>	<u>11-19-02</u>	<u>[Signature]</u>	<u>12/2/02</u>
15. <u>John MacIntyre</u>	<u>INSTRUCTOR</u>	<u>[Signature]</u>	<u>11-19-02</u>	<u>[Signature]</u>	<u>12/2/02</u>

NOTES:

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1.	<u>Wayne Bentley</u>	<u>OSM</u>	<u>[Signature]</u>	<u>11/20/02</u>	<u>[Signature]</u>	<u>12/3/2002</u>
2.						
3.						
4.						
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15.						

NOTES:

ATTACHMENT 1

ES-301

Operating Test Quality Checklist

Form ES-301-3

Facility: DAEC	Date of Examination: 18 Nov 2002	Operating Test Number: 2002 JLC	
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).	x	BP	BP
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	x	BP	BP
c. The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	x	BP	BP
d. Overlap with the written examination and between operating test categories is within acceptable limits.	x	BP	BP
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	x	BP	BP
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 	x	BP	BP
b. The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	N/A	N/A	N/A
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.	x	BP	BP
d. At least 20 percent of the JPMs on each test are new or significantly modified.	x	BP	BP
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.	x	BP	BP
	Printed Name / Signature		Date
a. Author	<u>Steve Brewer</u>		<u>9/17/02</u>
b. Facility Reviewer(*)	<u>Dean Curtland</u>		<u>9/17/02</u>
c. NRC Chief Examiner (#)	<u>BRUCE PALAGI</u>		<u>11-12-02</u>
d. NRC Supervisor	<u>RJ</u>		<u>11/15/02</u>
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.			

ATTACHMENT 2

ES-301

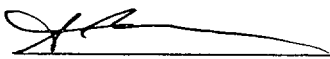
Simulator Scenario Quality Checklist


Form ES-301-4

Facility:	DAEC	Date of Exam:	11/18/02	Scenario Numbers:	1, 2, 3	Operating Test No.:	2002 ELC	
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.	x	BP	BP				
2.	The scenarios consist mostly of related events.	x	BP	BP				
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) 	x	BP	BP				
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.	x	BP	BP				
5.	The events are valid with regard to physics and thermodynamics.	x	BP	BP				
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	x	BP	BP				
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.	N/A	N/A	N/A				
8.	The simulator modeling is not altered.	x	BP	BP				
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.	x	BP	BP				
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.	x	BP	BP				
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	x	BP	BP				
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).	x	BP	BP				
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	x	BP	BP				
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes		-	-	-		
1.	Total malfunctions (5-8)	6	17	6	x	BP	BP	
2.	Malfunctions after EOP entry (1-2)	1	12	2	x	BP	BP	
3.	Abnormal events (2-4)	2	12	2	x	BP	BP	
4.	Major transients (1-2)	1	11	1	x	BP	BP	
5.	EOPs entered/requiring substantive actions (1-2)	1	11	1	x	BP	BP	
6.	EOP contingencies requiring substantive actions (0-2)	1	11	1	x	BP	BP	
7.	Critical tasks (2-3)	3	14	2	x	BP	BP	

OPERATING TEST NO.: DAEC 2002 ILC EXAM

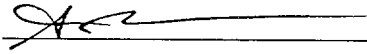
Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1 Event #	2 Event #	3 Event #	Backup
RO	Reactivity	1	3	6		
	Normal	1	1/2/7	2		
	Instrument/ Component	4	4/5/6/8/10/11	1/3/4/5/8/9/10		
	Major	1	9	8		
As RO	Reactivity	1			2	
	Normal	0				
	Instrument/ Component	2			3/5/6/7	
	Major	1			6	
SRO-I	Reactivity	0				
	Normal	1	2/7	2		
	Instrument/ Component	2	5/6/8/9	1/3/7/8/10		
	Major	1	9	8		
SRO-U	Reactivity	0				
	Normal	1	2/7	2		
	Instrument/ Component	2	5/6/8/9	1/3/7/8/10		
	Major	1	9	8		

Author: 

NRC Reviewer: 

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 Event #	2 Event #	3	B/U	1 Event #	2 Event #	3	B/U	1 Event #	2 Event #	3 Event #	B/U
Understand and Interpret Annunciators and Alarms	6/8/9	5/8/9			6/8/9	1/4/5/8			6/8/9	1/4/5/8	3/6	
Diagnose Events and Conditions	4/6/8/9	3/5/9/10/			5/6/8/9	1/3/4/5/8/10			5/6/8/9	1/3/4/5/8/10	3/5/6/7	
Understand Plant and System Response	1/4/6/8/9	3/5/8/9/10			6/8/9/11	1/3/4/5/8/10			6/8/9/11	1/3/4/5/8/10	3/5/6/7	
Comply With and Use Procedures (1)	1/2/3/7	2/8			2/3/4/7/9	2/5/8			2/3/4/7/9	2/5/8	2/3/6	
Operate Control Boards (2)	1/2/3/4/6/8/9	2/8/9			N/A	N/A	N/A	N/A	N/A	N/A	2/3/5/6/7	
Communicate and Interact With the Crew	6/9	5/8/9			9	1/2/4/5/6/8			9	1/2/4/5/6/8	3/6/7	
Demonstrate Supervisory Ability (3)	N/A	N/A	N/A		2/8/9	2/4/6/7/8			2/8/9	2/4/6/7/8	N/A	
Comply With and Use Tech. Specs. (3)	N/A	N/A	N/A		5/8	3			5/8	3	N/A	

Notes:
(1) Includes Technical Specification compliance for an RO.
(2) Optional for an SRO-U.
(3) Only applicable to SROs.

Author: 

NRC Reviewer: Bruce Palag

Facility: <u>DAEC</u>				Date of Exam: <u>12/15/02</u>			Exam Level: <u>RO/SRO</u>		
Item Description							Initial		
							a	b*	c*
1.	Questions and answers technically accurate and applicable to facility						*	<u>pl</u>	<u>BP</u>
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available						*	<u>pl</u>	<u>BP</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>pl</u>	<u>BP</u>
4.	Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process								<u>BP</u>
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)						*	<u>pl</u>	<u>BP</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>pl</u>	<u>BP</u>		
		<u>28</u>	<u>0</u>	<u>72</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>pl</u>	<u>BP</u>		
		<u>43</u>		<u>57</u>					
8.	References/handouts provided do not give away answers						*	<u>pl</u>	<u>BP</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>pl</u>	<u>BP</u>
10.	Question psychometric quality and format meet ES, Appendix B, guidelines						*	<u>pl</u>	<u>BP</u>
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet						*	<u>pl</u>	<u>BP</u>
							Printed Name / Signature		Date
a.	Author	<u>Steve Brewer / <i>[Signature]</i></u>					<u>11/8/02</u>		
b.	Facility Reviewer (*)	<u>Dean Curtland / <i>[Signature]</i></u>					<u>11/11/02</u>		
c.	NRC Chief Examiner (#)	<u>BRUCE PALAMY / <i>[Signature]</i></u>					<u>11/12/02</u>		
d.	NRC Regional Supervisor	<u>RD Linksburg / <i>[Signature]</i></u>					<u>11/15/02</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.									

Attachment 2

Facility: <u>DAEC</u>				Date of Exam: <u>18 Nov 2002</u>				Exam Level: <u>RO/SRO</u>		
Item Description							Initial			
							a	b*	c*	
1.	Questions and answers technically accurate and applicable to facility						x	me	BP	
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available						x	me	BP	
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401						x	me	BP	
4.	Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process								BP	
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)						x	me	BP	
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	x	me	BP			
		31	0	69						
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	x	me	BP			
		45		55						
8.	References/handouts provided do not give away answers						x	me	BP	
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						x	me	BP	
10.	Question psychometric quality and format meet ES, Appendix B, guidelines						x	me	BP	
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet						x	me	BP	
Printed Name / Signature							Date			
a. Author	<u>Steve Brown / [Signature]</u>						<u>11/8/02</u>			
b. Facility Reviewer (*)	<u>Dean Cortland / Dean Cortland [Signature]</u>						<u>11/11/02</u>			
c. NRC Chief Examiner (#)	<u>BRUCE PALAGI / Bruce Palagi [Signature]</u>						<u>11/12/02</u>			
d. NRC Regional Supervisor	<u>[Signature] / RD Leaksburg</u>						<u>11/15/02</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.										

Facility: <u>DAEC</u>		Date of Exam: <u>11/22/02</u>		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	**	**	BP		
2. Answer key changes and question deletions justified and documented	N/A	N/A	BP		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	X	BP	BP		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	N/A	N/A	NA		
5. All other failing examinations checked to ensure that grades are justified	N/A	N/A	NA		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	X	BP	BP		
Printed Name / Signature		Date			
a. Grader	<u>[Signature]</u>	<u>12/10/02</u>			
b. Facility Reviewer(*)	<u>[Signature]</u>	<u>29 Dec 02</u>			
c. NRC Chief Examiner (*)	<u>[Signature]</u>	<u>12/18/02</u>			
d. NRC Supervisor (*)	<u>[Signature]</u>	<u>12/18/02</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

1. ** The NRC examiner was present for the machine grading of the exam.
 3. Eric Roberts exam answer sheet had question #14 graded incorrectly due to an incomplete erasure.
 2, 4, 5 were not applicable.
 2, 4, 5

Attachment 3

Facility: <u>DAEC</u>		Date of Exam: <u>11/22/02</u>		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	xx	xx	BBP		
2. Answer key changes and question deletions justified and documented	N/A	N/A	BBP		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	SA	(initials)	BBP		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	N/A	N/A	N/A		
5. All other failing examinations checked to ensure that grades are justified	N/A	N/A	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	X	(initials)	BBP		
Printed Name / Signature		Date			
a. Grader	<u>[Signature]</u>	<u>12/4/02</u>			
b. Facility Reviewer(*)	<u>[Signature]</u>	<u>09 Dec 02</u>			
c. NRC Chief Examiner (*)	<u>[Signature]</u>	<u>12/18/02</u>			
d. NRC Supervisor (*)	<u>[Signature]</u>	<u>12/18/02</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

1. xx - The NRC examiner was present for the machine grading of the exam.

2, 4, 5 were not applicable.