

Facility: <u>MILLSTONE 2</u>		Date of Examination: <u>8/7-100</u>
Examinations Developed by: <u>Facility</u> / NRC (circle one)		
Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	<i>YFB</i>
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	<i>YFB 3/17/00</i>
-120	3. Facility contact briefed on security & other requirements (C.2.c)	<i>YFB 3/17/00</i>
-120	4. Corporate notification letter sent (C.2.d)	<i>YFB 3/17/00</i>
[-90]	[5. Reference material due (C.1.e; C.3.c)]	<i>NA YFB</i>
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	<i>YFB 5/15/00</i>
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	<i>YFB 5/18/00</i>
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	<i>YFB 6/21/00</i>
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	<i>YFB 7/10/00</i>
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	<i>YFB 7/20/00</i>
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	<i>7/7/00 YFB 5/18/00</i>
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	<i>YFB 7/10/00</i>
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	<i>YFB 7/20/00</i>
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	<i>Rur YFB 7/20/00 assign sheet YFB 7/27/00</i>
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	<i>YFB 7/20/00</i>
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	<i>YFB 8/7/00</i>
<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>		

March 24, 2000

**MASTER EXAMINATION FILE FOLDER FORMS AND CONTENT REQUIREMENTS
PER ES-501 PARAGRAPH F. (REVISION 8)**

The following items and forms must be included in the Master Exam File:

- Corporate Notification Letter (120 day letter), ES 201, Attachment 3
- Test **outline** for written exam and operating test.
- Initial submitted written exam and operating tests, include comments, if separate
- Inspection/exam report, ES 501-2, with **FINAL** written exam(s) and answer key(s) enclosed
 - ES-201-1, Exam Preparation Checklist
 - ES-201-2, Exam Outline QA Checklist **(COMPLETE BEFORE EXAM REVIEW)**
 - ES-201-3, Exam Security Agreement
 - ES-201, Attachment 4, Exam Assignment Sheet

AS ADMINISTERED JPMs and

- ES-301-1, Administrative Topics Outline
- ES-301-2, Individual Walk-Through Test Outline
- ES-301-3, Operating Test QA Checklist **(COMPLETE BEFORE EXAM)**
- ES-301-4, Simulator Scenario QA Checklist **(COMPLETE BEFORE EXAM)**
- ES-301-5, Transient and Event Checklist
- ES-301-6, Competencies Checklist
- ES-401-7, Written Exam QA Checklist **(COMPLETE BEFORE EXAM)**
- ES-401-9, Written Exam Review Worksheet
- ES-403-1, Written Exam Grading QA Checklist
- ES-501-2, Power Plant Exam Results Summary

AS ADMINISTERED Scenarios including

- ES-D-1, Scenario Outline
- ES-D-2, Operator Actions (simulator scenario)

THIS LIST IS A GUIDE. ADDITIONAL INFORMATION MAY BE REQUIRED

COMPLETE BEFORE EXAM means the Branch Chief has to sign the QA form before the exam is reviewed or administered.

Facility: <u>Millstone Unit 2</u>		Date of Examination: <u>August 2000</u>		
Item	Task Description	Initials		
		a	b*	c
WRITEN	1. a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	SM	B	B
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all knowledge and ability categories are appropriately sampled.	SM	B	B
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	SM	B	B
	d. Assess whether the repetition from previous examination outlines is excessive.	SM	B	B
SIM	2. 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.	SM	B	B*
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity; ensure each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s)*, and scenarios will not be repeated over successive days.	SM	B	B
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.	SM	B	B
W/T	3. a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, (2) no more than 30% of the test material is repeated from the last NRC examination, (3)* no tasks are duplicated from the applicants' audit test(s), and <u>Aud. + Test NOT DEV.</u> (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	SM	B	B
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, (2) one task is conducted in a low-power or shutdown condition, (3) 40% of the tasks require the applicant to implement an alternate path procedure, (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and (5) the in-plant walk-through requires the applicant to enter the RCA.	SM	B	B**
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	SM	B	B
	d. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on successive days.	SM	B	B
GENERAL	4. a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	SM	B	B
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	SM	B	B
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	SM	B	B
	d. Check for duplication and overlap among exam sections.	SM	B	B
	e. Check the entire exam for balance of coverage.	SM	B	B
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	SM	B	B
Co-Author: <u>Robert L. Cimmino, Jr.</u>		Printed Name / Signature: <u>Robert L. Cimmino, Jr.</u>		Date: <u>5/11/00</u>
a. Author	<u>FRED NYGARD</u>	<u>Fred Nygard</u>		<u>5/8/2000</u>
b. Facility Reviewer(*)	<u>Mice Baughman</u>	<u>Mice Baughman</u>		<u>5/9/00</u>
c. Chief Examiner	<u>LARRY E BRIGGS</u>	<u>Larry E Briggs</u>		<u>5/18/00</u>
d. NRC Supervisor	<u>Richard J. Cook</u>	<u>Richard J. Cook</u>		<u>5/18/00</u>

**Previous outlines NRC Developed*

(*) Not applicable for NRC-developed examinations.

* 5/18/00 Some minor failures do not appear to req. open actions. This will be resolved with the licensee. 24 being resolved during prep week.

** 5/18/00 two walk thru repeated safety function 1. 24 being resolved during prep week

Facility: <i>Millstone Unit 2</i>		Date of Examination: <i>8/7/2000</i>		Operating Test Number: <i>2</i>	
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).	<i>FR</i>	<i>B</i>	<i>B</i>	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	<i>FR</i>	<i>B</i>	<i>B</i>	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	<i>FR</i>	<i>B</i>	<i>B</i>	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	<i>FR</i>	<i>B</i>	<i>B</i>	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	<i>FR</i>	<i>B</i>	<i>B</i>	
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 	<i>FR</i>	<i>B</i>	<i>B</i>	
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	<i>FR</i>	<i>B</i>	<i>B</i>	
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.	<i>FR</i>	<i>B</i>	<i>B</i>	
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	<i>FR</i>	<i>B</i>	<i>B</i>	
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.	<i>FR</i>	<i>B</i>	<i>B</i>	
	Printed Name / Signature	Date			
a.	Author <i>Fred Nygard / Fred Nygard</i>	<i>6/16/2000</i>			
b.	Facility Reviewer(*) <i>Michael Baughman / M.B.</i>	<i>6/20/00</i>			
c.	NRC Chief Examiner (*) <i>LARRY E. BRIGGS / Larry E. Briggs</i>	<i>7/20/00</i>			
d.	NRC Supervisor (*) <i>Richard J. Conte / Rick Conte</i>	<i>2/20/00</i>			
(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.					

Facility: <i>Millstone Unit 2</i>		Date of Exam: <i>8/7/2000</i>	Scenario Numbers: <i>1/2/</i>	Operating Test No.: <i>1</i>
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.	<i>JK</i>	<i>B</i>	<i>B</i>
2.	The scenarios consist mostly of related events.	<i>JK</i>	<i>B</i>	<i>B</i>
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)	<i>JK</i>	<i>B</i>	<i>B</i>
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.	<i>JK</i>	<i>B</i>	<i>B</i>
5.	The events are valid with regard to physics and thermodynamics.	<i>JK</i>	<i>B</i>	<i>B</i>
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<i>JK</i>	<i>B</i>	<i>B</i>
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.	<i>JK</i>	<i>B</i>	<i>NA</i>
8.	The simulator modeling is not altered.	<i>JK</i>	<i>B</i>	<i>B</i>
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.	<i>JK</i>	<i>B</i>	<i>B</i>
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.	<i>JK</i>	<i>B</i>	<i>B</i>
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	<i>JK</i>	<i>B</i>	<i>B</i>
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).	<i>JK</i>	<i>B</i>	<i>B</i>
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<i>JK</i>	<i>B</i>	<i>B</i>
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes	-	-
1.	Total malfunctions (5-8)	<i>8 7</i>	<i>JK</i>	<i>B</i>
2.	Malfunctions after EOP entry (1-2)	<i>2 2</i>	<i>JK</i>	<i>B</i>
3.	Abnormal events (2-4)	<i>3 4</i>	<i>JK</i>	<i>B</i>
4.	Major transients (1-2)	<i>1 1</i>	<i>JK</i>	<i>B</i>
5.	EOPs entered/requiring substantive actions (1-2)	<i>1 1</i>	<i>JK</i>	<i>B</i>
6.	EOP contingencies requiring substantive actions (0-2)	<i>2 1</i>	<i>JK</i>	<i>B</i>
7.	Critical tasks (2-3)	<i>3 3</i>	<i>JK</i>	<i>B</i>

Facility: <u>Millstone Unit 2</u> Date of Exam: <u>8/7/2000</u> Scenario Numbers: <u>1,3,1</u> Operating Test No.: <u>2</u>				
QUALITATIVE ATTRIBUTES	Initials			
	a	b	c	
	SK			
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.	SK	B	B	
2. The scenarios consist mostly of related events.	SK	B	B	
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)	SK	B	B	
4. No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.	SK	B	B	
5. The events are valid with regard to physics and thermodynamics.	SK	B	B	
6. Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	SK	B	B	
7. If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.	SK	B	NA B	
8. The simulator modeling is not altered.	SK	B	B	
9. The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	SK	B	B	
10. Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.4 of ES-301.	SK	B	B	
11. All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	SK	B	B	
12. Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	SK	B	B	
13. The level of difficulty is appropriate to support licensing decisions for each crew position.	SK	B	B	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)	Actual Attributes	-	-	-
1. Total malfunctions (5-8)	8, 9, 1	SK	B	B
2. Malfunctions after EOP entry (1-2)	2, 3, 1	SK	B	B
3. Abnormal events (2-4)	3, 3, 1	SK	B	B
4. Major transients (1-2)	1, 1, 1	SK	B	B
5. EOPs entered/requiring substantive actions (1-2)	1, 1, 1	SK	B	B
6. EOP contingencies requiring substantive actions (0-2)	2, 2, 1	SK	B	B
7. Critical tasks (2-3)	3, 2, 1	SK	B	B

OPERATING TEST No.: 1

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2		
RO Candidates 1, 3	Reactivity	1	2			
	Normal	1		4		
	Instrument	2	1	2		
	Component	2	5	3		
	Major	1	4	6		

RO 2 Candidates 2, 4	Reactivity	1		4		
	Normal	1	2			
	Instrument	2	3	1		
	Component	2	6	5		
	Major	1	4	6		

SRO-I as RO Candidates A, B, C, D	Reactivity	1				
	Normal	0				
	Instrument	1				
	Component	1				
	Major	1				

SRO-I as SRO Candidates A, B, C, D	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	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.

Author:

Chief Examiner:

Fred I. Nyquist
J. E. Benjey

OPERATING TEST No. 2

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	3		
RO Candidates 5, 7	Reactivity	1	2			
	Normal	1		1		
	Instrument	2	1	3		
	Component	2	5	5		
	Major	1	4	5		

RO 2 Candidates 6, 8	Reactivity	1		1		
	Normal	1	2			
	Instrument	2	3	2		
	Component	2	6	4,5		
	Major	1	4	5		

SRO-I as RO Candidates A, B, C, D	Reactivity	1		1		
	Normal	0				
	Instrument	1		2		
	Component	1		4,5		
	Major	1		5		

SRO-I as SRO Candidates A, B, C, D	Reactivity	0	2			
	Normal	1	2			
	Instrument	1	1, 3			
	Component	1	5,6			
	Major	1	4			

Instructions: (1)

Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

(2)

Reactivity manipulations may be conducted under normal or controlled abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author:

PER TELECON - FRED NYGARD 246

Chief Examiner:

Henry E. Brigg

Operating Test 1

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	2			3	1,4						
Diagnose Events and Conditions	1	2			3	1,4						
Understand Plant and System Response	2	2,4 6			2	1,4						
Comply With and Use Procedures (1)	1,2,4	2,3			1,2,4	1,4 5,6						
Operate Control Boards (2)	1,2,4	2,3			1,2,4	1,4						
Communicate and Interact With the Crew	1,2,4	2,3 5,6			1,3,4	1,4 5,6						
Demonstrate Supervisory Ability (3)												
Comply With and Use Tech. Specs. (3)												

Notes:

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

Instructions:

Circle the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Author:

Chief Examiner:

Spd / Nysund
J. E. Brigg

OPERATING TEST 2

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			
	RO 1	2	SRO 3	4	SRO 1	2	RO 3	4	SRO 1	RO 2	RO 3	4
Understand and Interpret Annunciators and Alarms	1		3		3		2,4		1,3		2,4	
Diagnose Events and Conditions	1		3,5		3		2,4 5		1,3		2,4 5	
Understand Plant and System Response	2		1,3 5		2		1,2		2		1,2	
Comply With and Use Procedures (1)	1,2 4		1,3 5		1,2 4		1,2		1,2 4		1,2	
Operate Control Boards (2)	1,2 4		1,3 5		1,2 4		1,2 4				1,2 4	
Communicate and Interact With the Crew	1,2 4		1,3 5		1,3 4		1,2 4,5		1,2 3,4		1,2 4,5	
Demonstrate Supervisory Ability (3)									1,2 3,4			
Comply With and Use Tech. Specs. (3)									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: Fred J. Hayward
 Chief Examiner: F. J. O'Connell

Facility:		Date of Exam:		Exam Level: <u>RO/SRO</u>			
Item Description				Initial			
				a	b*	c*	
1.	Questions and answers technically accurate and applicable to facility			PK	B	B	
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			PK	B	B	
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			PK	B	B	
4.	No more than 25 questions are duplicated from [practice exams, quizzes, and] the last two NRC licensing exams; enter the actual number of duplicated questions at right	-NRC	Other	N/A	N/A	N/A	
		N/A	N/A				
4.	No (Less than 5 percent) Question duplication from the license screening/audit exam (if independently written) 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			PK	B	B	
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	PK	B	B
		46	39	15			
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		PK	B	B
		44	50B	56			
7.	References/handouts provided do not give away answers			PK	B	B	
8.	Question content conforms with specific K/A statements in the distribution meets previously approved examination outline; deviations are justified			PK	B	B	
9.	Question psychometric quality and format meet ES, Appendix B, guidelines			PK	B	B	
10.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			PK	B	B	
		Printed Name / Signature				Date	
a. Author	<u>Robert L. Cummino, Jr.</u>				<u>6/28/00</u>		
b. Facility Reviewer(*)	<u>Michael Baughman</u>				<u>6/28/00</u>		
c. NRC Chief Examiner(*)	<u>LARRY E BRIGGS</u>				<u>7/20/00</u>		
d. NRC Regional Supervisor(*)	<u>Richard V. Cate</u>				<u>7/20/00</u>		
Note: * The facility reviewer's signature is not applicable for NRC-developed examinations; two independent NRC reviews are required. # See special instructions (Section E.2.c) for Items 1, 4, 5, and 68. [] The items in brackets do not apply to NRC-prepared examinations.							

Facility:		Date of Exam:		Exam Level: RO/SRO			
Item Description				Initial			
				a	b*	c*	
1.	Questions and answers technically accurate and applicable to facility			NRC	B	B	
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			NRC	B	B	
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			NRC	B	B	
4.	No more than 25 questions are duplicated from [practice exams, quizzes, and] the last two NRC licensing exams; enter the actual number of duplicated questions at right	-NRC	Other	N/A	N/A	N/A	
		N/A	N/A	N/A	N/A	B	
4.	No (Less than 5 percent) Question duplication from the license screening/audit exam (if independently written) 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			NRC	B	B	
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	NRC	B	B
		37	46	17			
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		NRC	B	B
		43 (46 B)	57 (54 B)				
7.	References/handouts provided do not give away answers			NRC	B	B	
8.	Question content conforms with specific K/A statements in the distribution meets previously approved examination outline; deviations are justified			NRC	B	B	
9.	Question psychometric quality and format meet ES, Appendix B, guidelines			NRC	B	B	
10.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			NRC	B	B	
		Printed Name / Signature				Date	
a. Author	Robert L. Cimmino, Jr. <i>Robert Cimmino</i>				6/28/00		
b. Facility Reviewer(*)	Michael Baughman <i>Michael Baughman</i>				6/20/00		
c. NRC Chief Examiner(*)	LARRY E BRIGGS <i>Larry E Briggs</i>				7/20/00		
d. NRC Regional Supervisor(*)	Richard J. Cante <i>Richard J. Cante</i>				5/2/00		
Note: * The facility reviewer's signature is not applicable for NRC-developed examinations; two independent NRC reviews are required. # See special instructions (Section E.2.c) for Items 1, 4, 5, and 68. [] The items in brackets do not apply to NRC-prepared examinations.							

Facility:	Date of Exam:	Exam Level: RO/SRO		
Item Description	Initials			
	a	b	c	
1. Clean answer sheets copied before grading			YEB	
2. Answer key changes and question deletions justified and documented	TF		YEB	
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	TF		YEB	
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	NA		NA YEB	
5. All other failing examinations checked to ensure that grades are justified	NA		NA YEB	
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	NA		YEB	
		Printed Name / Signature		Date
a. Grader	TODD FISH / <i>Todd Fish</i>			8/15/00
b. Facility Reviewer(*)	_____			_____
c. NRC Chief Examiner (*)	LARRY E. BRIGGS / <i>Larry E. Briggs</i>			8/16/00
d. NRC Supervisor (*)	<i>Richard J. Conte / R.J. Conte</i>			8/17/00
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.				



**Northeast
Utilities
System**

RECEIVED
REGION I
2000 AUG 28 PM 2: 17

Power Plant Road, Waterford, CT 06385

Northeast Utilities Service Company
P. O. Box 128
Waterford, CT 06385
(860) 437-2647

August 21, 2000
MDB-00-009

Mr. Larry Briggs
U. S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

Dear Larry,

Enclosed please find the original examination security agreement from the recent Millstone Unit 2 Initial Operator License exam.

If you have any questions, please feel free to contact me at (860) 437-2647.

Sincerely,

Michael D. Baughman
Manager, Operator Training

MDB/slc

ENCLOSURE

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 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 . 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>Michael G. Mandolakis</u>	<u>Fac. Admin. / Site Serv.</u>	<u>[Signature]</u>	<u>2/24/00</u>	<u>[Signature]</u>	<u>8/14/00</u>	
2. <u>FRED NYGARD</u>	<u>Ops. Instructor/Exam Dev.</u>	<u>Fred Nygard</u>	<u>2/28/00</u>	<u>Fred Nygard</u>	<u>8/14/00</u>	
3. <u>Robert L. Cimmino, Jr.</u>	<u>Ops. Instructor/Exam Dev.</u>	<u>Robert Cimmino</u>	<u>2/29/00</u>	<u>Robert Cimmino</u>	<u>8/14/00</u>	
4. <u>Mark Baughman</u>	<u>MP2 OPS TRNG</u>	<u>[Signature]</u>	<u>3/14/00</u>	<u>[Signature]</u>	<u>8/17/00</u>	
5. <u>Kenneth G. Truesdale</u>	<u>Shift Manager/ops MP2</u>	<u>[Signature]</u>	<u>5/3/00</u>	<u>[Signature]</u>	<u>8/17/00</u>	
6. <u>PETE PATTASSON</u>	<u>NOIA / ADMIN SUPPORT</u>	<u>Pete Pattasson</u>	<u>5/16/00</u>	<u>Pete Pattasson</u>	<u>8/17/00</u>	
7. <u>William Soder</u>	<u>MP2 SOA</u>	<u>William Soder</u>	<u>5/9/00</u>	<u>Wm. Soder</u>	<u>8/14/00</u>	
8. <u>Hsin-Cheng Gary Huang</u>	<u>MP2 Software Engineer</u>	<u>[Signature]</u>	<u>5/22/00</u>	<u>[Signature]</u>	<u>8/14/00</u>	
9. <u>Mark Munro</u>	<u>MP2 Hardware Tech.</u>	<u>Mark Munro</u>	<u>5/22/00</u>	<u>Mark Munro</u>	<u>8/14/00</u>	
10. <u>CONSTANTIN VOUREZOS</u>	<u>ENGINEER</u>	<u>[Signature]</u>	<u>5/25/00</u>	<u>[Signature]</u>	<u>8/14/00</u>	
11. <u>David C Rittler</u>	<u>SCE Hardware Tech</u>	<u>David C Rittler</u>	<u>5/25/00</u>	<u>David C Rittler</u>	<u>8/15/00</u>	
12. <u>Shih-Kao CHANG</u>	<u>SCE software engineer</u>	<u>S.K. Chang</u>	<u>5/25/00</u>	<u>S.K. Chang</u>	<u>8/21/00</u>	
13. <u>RAMON E. PARRETTE</u>	<u>UNIT SUPERVISOR / MP2</u>	<u>[Signature]</u>	<u>6-3-00</u>	<u>[Signature]</u>	<u>8-15-00</u>	
14. <u>L.E. MAUSTELER</u>	<u>CO MP 2</u>	<u>[Signature]</u>	<u>6-4-00</u>	<u>[Signature]</u>	<u>8-17-00</u>	
15. <u>HOWARD A DUFFY</u>	<u>CO MP 2</u>	<u>[Signature]</u>	<u>6-4-00</u>	<u>[Signature]</u>	<u>8-17-00</u>	

Notes:

ES-201 Examination Security Agreement Form ES-201-3

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{PRIVATE}PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Martin L Fues</u>	<u>Unit Supervisor</u>	<u>[Signature]</u>	<u>6/4/2000</u>	<u>[Signature]</u>	<u>8/22/00</u>	
2. <u>Sandra Dobbe</u>	<u>Unit Supervisor</u>	<u>[Signature]</u>	<u>6/6/00</u>	<u>[Signature]</u>	<u>8/15/00</u>	
3. <u>Bruce J. Ferguson</u>	<u>Unit Supervisor - Candidate</u>	<u>[Signature]</u>	<u>6/6/00</u>	<u>[Signature]</u>	<u>8/22/00</u>	
4. <u>John Claire</u>	<u>Unit Supervisor</u>	<u>[Signature]</u>	<u>6/6/00</u>	<u>[Signature]</u>	<u>8/15/00</u>	
5. <u>Richard Cox</u>	<u>Reactor operator</u>	<u>[Signature]</u>	<u>6/14/00</u>	<u>[Signature]</u>	<u>8/18/00</u>	
6. <u>Lisa MarcAurele</u>	<u>Process Computer Engineer</u>	<u>[Signature]</u>	<u>7/11/00</u>	<u>[Signature]</u>	<u>8/15/00</u>	
7. <u>Richard Ashley</u>	<u>Ops Instructor</u>	<u>[Signature]</u>	<u>7/11/00</u>	<u>[Signature]</u>	<u>8/15/00</u>	
8. <u>CHA-HSIANG TAN</u>	<u>SCE Software Engineer</u>	<u>[Signature]</u>	<u>8/2/00</u>	<u>[Signature]</u>	<u>8/17/00</u>	
9. <u>ARTHUR A. WICKSON</u>	<u>SCE ENGINEER</u>	<u>[Signature]</u>	<u>8/2/00</u>	<u>[Signature]</u>	<u>8/14/00</u>	
10. <u>Rocco Kurpas</u>	<u>OPS INSTRUCTOR</u>	<u>[Signature]</u>	<u>8/2/00</u>	<u>[Signature]</u>	<u>8/15/2000</u>	
11. <u>John W. Hampton</u>	<u>ops Instructor</u>	<u>[Signature]</u>	<u>8/10/00</u>	<u>[Signature]</u>	<u>8/15/2000</u>	
12. <u>KILIE T. ALLBRITTON</u>	<u>OPS INSTRUCTOR</u>	<u>[Signature]</u>	<u>8-10-00</u>	<u>[Signature]</u>	<u>8-14-00</u>	
13. <u>Jim Barba</u>	<u>OPS Instructor</u>	<u>[Signature]</u>	<u>8-10-00</u>	<u>[Signature]</u>	<u>8/15/00</u>	
14. <u>Cliff Chapin</u>	<u>OPS UNIT SUPERVISOR</u>	<u>[Signature]</u>	<u>8-10-00</u>	<u>[Signature]</u>	<u>8-11-00</u>	
15. <u>Stephen M. Dean</u>	<u>OPS Instructor</u>	<u>[Signature]</u>	<u>8-11-00</u>	<u>[Signature]</u>	<u>8/14/00</u>	

Notes:

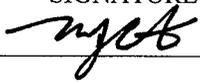
ES-201 Examination Security Agreement Form ES-201-3

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	{PRIVATE}PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	Michael Gte	OTBZ INSTRUCTOR		8/11/00 ^{'100}		8/11/00 ^{'1645}	
2.							
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