

Facility: SSES		Date of Examination: 08/11/03		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	RJB	KMR	JM
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	RJB	KMR	JM
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	RJB	KMR	JM
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	RJB	KMR	JM
2. S I M	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.	RJB	KMR	JM
	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 applicant's audit test(s)*, and scenarios will not be repeated on subsequent days.	RJB	KMR	JM
	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.	RJB	KMR	JM
3. W / T	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 applicant's audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	RJB	KMR	JM
	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) 4 - 6 (2 - 3 for SRO-U) 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.	RJB	KMR	JM
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	RJB	KMR	JM
	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 subsequent days.	RJB	KMR	JM
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	RJB	KMR	JM
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	RJB	KMR	JM
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	RJB	KMR	JM
	d. Check for duplication and overlap among exam sections.	RJB	KMR	JM
	e. Check the entire exam for balance of coverage.	RJB	KMR	JM
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	RJB	KMR	JM
Printed Name / Signature		Date		
a. Author	Richard J. Brooks / RJB	05/12/03		
b. Facility Reviewer (*)	Kenneth M. Roise / KMR	05/13/03		
* c. NRC Chief Examiner (#)	John B. Causey / JBC	5/30/03		
* d. NRC Supervisor	Richard J. Gault / RJG	5/30/03		
* with comments Folder 2				
Note: * Not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.				

1. Pre-Examination

Susquehanna

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/11/03 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 8/11/03. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Mike Boyle	SRO / 010	<i>M Boyle</i>	5/29/03	<i>M Boyle</i>	8/19/03	
2. MARK D WOZINSKI	RO / 017	<i>Mark Wozinski</i>	5/29/03	<i>Mark Wozinski</i>	8/15/03	
3. Keith W. Davis	RO / 003	<i>Keith W Davis</i>	6/03/03	<i>Keith W Davis</i>	8/18/03	① of
4. Ronald Klein	SRO / 033	<i>R. W. Klein</i>	6/9/03	<i>R. W. Klein</i>	9/2/03	
5. STEPHEN HUFF	RO / 032	<i>Stephen L Huff</i>	6/19/03	<i>Stephen L Huff</i>	8/18/03	
6. Carl Young	SRO / 044	<i>Carl Young</i>	6/10/03	<i>Carl Young</i>	8/19/03	
7. Vicki A. HARVAT	Clerical Support (43)	<i>Vicki A. Harvat</i>	6/18/03	<i>Vicki A. Harvat</i>	08/19/03	
8. Melody Masich	Clerical Support	<i>Melody Masich</i>	6/19/03	<i>Melody Masich</i>	8/15/03	
9. Arthur Fitch	SRO / 045	<i>Arthur Fitch</i>	7/21/03	<i>Arthur Fitch</i>	8/19/03	
10. JOSEPH HANCOCK	SEQUESTER-ER	<i>Joseph Hancock</i>	8/11/03	<i>Joseph Hancock</i>	9/2/03	
11. Guy Wynd	SEQUESTER	<i>Guy Wynd</i>	8/11/03	<i>Guy Wynd</i>	8/18/03	
12. Jim Seck	Program Lead	<i>Jim Seck</i>	8/12/03	<i>Jim Seck</i>	8/15/03	
13. Jim BUESTEIN	RO SURROGATE	<i>Jim Buestein</i>	8-12-03	<i>Jim Buestein</i>	8-19-03	
14. Michael Kiepert	RO SURROGATE	<i>Michael Kiepert</i>	8-12-03	<i>Michael Kiepert</i>	8-19-03	
15. David T. Walsh	OPS OBSERVOR	<i>David T. Walsh</i>	8/12/03	<i>David T. Walsh</i>	8/19/03	

NOTES: PAGE 2 of 2
 3 8/18/03

① Except as documented in AR# A92171 (Attached) NO

1. Pre-Examination

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2. Post-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Terry W. Logsdon	Exam Developer 008	<i>Terry W. Logsdon</i>	3/17/03	<i>Terry W. Logsdon</i>	8/21/03	
2. Richard J. Brooks	Exam Coordinator 009	<i>Richard J. Brooks</i>	3/17/03	<i>Richard J. Brooks</i>	8/19/03	
3. Greg Fessler	Simulator Support	<i>Greg Fessler</i>	3/18/03	<i>Greg Fessler</i>	8/18/03	
4. GJ TUMBLE	EXAM DEVELOPER 023	<i>GJ</i>	3/19/03	<i>GJ</i>	8/18/03	
5. Don Krupp	Simulator Support 007	<i>Don Krupp</i>	3/20/03	<i>Don Krupp</i>	8/18/03	
6. Cleon Dodge	Simulator Support	<i>Cleon Dodge</i>	3/26/03	<i>Cleon Dodge</i>	8/18/03	
7. CHRISTOPHER DAVIS	SIMULATOR SUPPORT 024	<i>Christopher Davis</i>	3/22/03	<i>Chris Davis</i>	8/19/03	
8. Scott Dieffenbacher	Simulator Support 013	<i>Scott Dieffenbacher</i>	3/27/03	<i>Scott Dieffenbacher</i>	8/18/03	
9. Russ Hahn	EXAM DEV 003	<i>RH</i>	3/31/03	<i>RH</i>	8/19/03	
10. M. Jacopetti	Exam reviewer 006	<i>M Jacopetti</i>	04/28/03	<i>M Jacopetti</i>	08/19/03	
11. K.M Rowh	Facility Reviewer 004	<i>K Rowh</i>	5/13/03	<i>K Rowh</i>	8/19/03	
12. Harold M. Fry	OPS Validation 018	<i>Harold M. Fry</i>	5/22/03	<i>H M Fry</i>	8/20/03	
13. JOSEPH A. BRONUS	OPS VALIDATION 015	<i>Joseph A. Bronus</i>	5/22/03	<i>Joseph A. Bronus</i>	8/20/03	
14. James K. Williams	OPS Validation 005	<i>James K. Williams</i>	5/28/03	<i>James K Williams</i>	8-19-03	
15. Gerald K. Rinehart	OPS Validation 022	<i>Gerald K. Rinehart</i>	5-29-03	<i>Gerald K Rinehart</i>	8-18-03	

NOTES:

127 8/13/03

Page 1 of 3

1. Pre-Examination

Susquehanna

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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 8/11/03. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Greg Ruppert</u>	<u>operations manager</u>	<u>[Signature]</u>	<u>8/13/03</u>	<u>[Signature]</u>	<u>8/19/03</u>	
2. <u>A. T. ILIADIS</u>	<u>UNIT SUPERVISOR</u>	<u>[Signature]</u>	<u>8/13/03</u>	<u>[Signature]</u>	<u>8/28/03</u>	
3. <u>Charles Rigbee</u>	<u>Simulator Instructor</u>	<u>[Signature]</u>	<u>8/14/03</u>	<u>[Signature]</u>	<u>08/19/03</u>	
4.						
5.						
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10.						
11.						
12.						
13.						
14.						
15.						

NOTES:

Page 3 of 3

Facility: SSES		Date of Examination: 08/11/03		Operating Test Number: _____	
1. GENERAL CRITERIA		Initials			
		a	b*	c#	
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	RJB	KMR	JM	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	RJB	KMR	JM	
c.	The operating test shall not duplicate items from the applicants audit test(s)(see Section D.1.a).	RJB	KMR	JM	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	RJB	KMR	JM	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	RJB	KMR	JM	
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 	RJB	KMR	JM	
b.	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.	RJB	KMR	JM	
c.	At least 20 percent of the JPMs on each test are new or significantly modified.	RJB	KMR	JM	
3. SIMULATOR CRITERIA		--	--	--	
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	RJB	KMR	JM	
	Printed Name / Signature	Date			
a. Author	<u>Richard J. Brooks / RJB</u>	<u>6/18/03</u>			
b. Facility Reviewer(*)	<u>K.M. Roush / KMR</u>	<u>6/19/03</u>			
c. NRC Chief Examiner (#)	<u>J. Caruso / J.C.</u>	<u>7/30/03</u>			
d. NRC Supervisor	<u>R.P. Caruso / R.P.C.</u>	<u>2/30/05</u>			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c," chiefexaminer concurrence required.					

Facility: SSES Date of Exam: 08/11/03 Scenario Numbers: PC017-102/103/104 Operating Test No.:		Initials		
QUALITATIVE ATTRIBUTES		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>RJB</i>	<i>KME</i>	<i>Y</i>
2.	The scenarios consist mostly of related events.	<i>RJB</i>	<i>KME</i>	<i>Y</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>RJB</i>	<i>KME</i>	<i>Y</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>RJB</i>	<i>KME</i>	<i>Y</i>
5.	The events are valid with regard to physics and thermodynamics.	<i>RJB</i>	<i>KME</i>	<i>Y</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>RJB</i>	<i>KME</i>	<i>Y</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>N/A</i>	<i>N/A</i>	<i>Y</i>
8.	The simulator modeling is not altered.	<i>RJB</i>	<i>KME</i>	<i>Y</i>
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	<i>RJB</i>	<i>KME</i>	<i>Y</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.5 of ES-301.	<i>RJB</i>	<i>KME</i>	<i>Y</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>RJB</i>	<i>KME</i>	<i>Y</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>RJB</i>	<i>KME</i>	<i>Y</i>
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<i>RJB</i>	<i>KME</i>	<i>Y</i>
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)		Actual Attributes	--	--
		102/103/104		
1.	Total malfunctions (5-8)	6 / 6 / 7	<i>RJB</i>	<i>KME</i>
2.	Malfunctions after EOP entry (1-2)	2 / 2 / 2	<i>RJB</i>	<i>KME</i>
3.	Abnormal events (2-4)	2 / 4 / 3	<i>RJB</i>	<i>KME</i>
4.	Major transients (1-2)	2 / 2 / 1	<i>RJB</i>	<i>KME</i>
5.	EOPs entered/requiring substantive actions (1-2)	2 / 3 / 3	<i>RJB</i>	<i>KME</i>
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 0	<i>RJB</i>	<i>KME</i>
7.	Critical tasks (2-3)	3 / 2 / 4	<i>RJB</i>	<i>KME</i>

OPERATING TEST NO.:

Applicant Type	Evolution Type	Minimum Number	Scenario Number					
			1		2		3	
			RO	BOP	RO	BOP	RO	BOP
RO	Reactivity	1*	2		2		2	
	Normal	1*	1		1		1	
	Instrument / Component	4*	4,6	3,5,7,8	6,	3,7	3,4,5,6,9	3,4,5,6,8,9
	Major	1	5	6	7	6	7	7

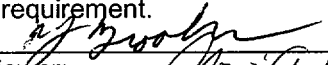
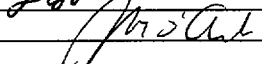
As RO	Reactivity	1*	2		2		2	
	Normal	0	1		1		1	
	Instrument / Component	2*	4,6	3,5,7,8	6	3,7	3,4,5,6,9	3,4,5,6,8
	Major	1	5	6	7	6	7	7

SRO-I

As SRO	Reactivity	0						
	Normal	1*	1,2			1,2	1,2	
	Instrument / Component	2*	4,6	3,5,7,8	6,	3,7	3,5,9	4,6,8
	Major	1	5	6	7	6	7	

SRO-U	Reactivity	0						
	Normal	1*	1,2			1,2	1,2	
	Instrument / Component	2*	4,6	3,5,7,8	6,	3,7	3,5,9	4,6,8
	Major	1	5	6	7	6	7	

- 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.45.d) but must be significant per Section C.2.a of Appendix D. * Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one for-one basis.
 - (3) Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirement.

Author: 
 NRC Reviewer: 

Competencies	SRO			RO			BOP		
	SCENARIO			SCENARIO			SCENARIO		
	1	2	3	1	2	3	1	2	3
Interpret/Diagnosis Events and Conditions	3, 4, 6	2, 3, 4, 5, 6	3, 4, 5, 7, 8, 9	4, 5, 6	2, 4, 5, 6, 7	3, 4, 5, 7, 9	3, 5, 6, 7, 8	3, 4, 7	4, 7, 8, 9
Comply With and Use Procedures (1)	1, 2, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7	1, 3, 4, 5, 7, 8, 9	1, 2, 4, 5, 6	2, 4, 5, 6, 7	1, 2, 3, 4, 5, 7, 8, 9	3, 4, 5, 6, 7, 8	1, 3, 4, 6, 7	4, 5, 7, 8, 9
Operate Control Boards (2)				1, 2, 4, 5, 6	2, 4, 5, 6, 7	1, 2, 3, 4, 5, 7, 9	4, 5, 6, 7, 8	1, 3, 4, 6, 7	4, 5, 7, 8, 9
Communicate and Interact .	1, 2, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 7, 8, 9	1, 2, 4, 5, 6	2, 4, 5, 6, 7	1, 2, 3, 4, 5, 7, 8, 9	3, 4, 5, 6, 7, 8	1, 3, 4, 6, 7	3, 4, 5, 7, 8, 9
Demonstrate Supervisory Ability (3)	1, 2, 3, 4, 5, 6, 7, 8	1, 2, 3, 4, 5, 6, 7	1, 2, 3, 4, 5, 7, 8, 9						
Comply With and Use Tech. Specs. (3)	3, 4	3, 4	4						

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: _____

[Handwritten Signature]

NRC Reviewer: _____

[Handwritten Signature]

Facility:		Date of Exam:		Exam Level: RO/SRO		
Item Description	Initial					
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	RJB	KML	JL			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	RJB	KML	JL			
3. SRO questions are appropriate per Section D.2.d of ES-401	RJB	KML	JL			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process			JL			
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" type="checkbox"/> the audit exam was systematically and randomly developed; or <input checked="" type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	RJB	KML	JL			
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 RO / SRO-only question distribution(s) at right	Bank 0/0	Modified 55/51/10	New 20/24/15	RJB	KML	JL
7. Between 50 and 60 percent of the questions on the RO exam are written at the comprehension/analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.	M/F 33/35/7	C/A 42/40/18	RJB	KML	JL	
8. References/handouts provided do not give away answers	RJB	KML	JL			
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	RJB	KML	JL			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	RJB	KML	JL			
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet	RJB	KML	JL			
Printed Name / Signature		Date				
a. Author	Richard J. Brooks / <i>[Signature]</i>	6/19/03				
b. Facility Reviewer (*)	K-M Roush / <i>[Signature]</i>	6/19/03				
c. NRC Chief Examiner (#)	J.G. Caruso / <i>[Signature]</i>	7/30/03				
d. NRC Regional Supervisor	R.V. Conzel / <i>[Signature]</i>	7/30/03				
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column Ac; # chief examiner concurrence required.						

Facility: SUSQUEHANNA		Date of Exam: 8/11-8/15 2003		Exam Level: RC SRO	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	RJB	RRB	JM		
2. Answer key changes and question deletions justified and documented	RJB	RRB	JM		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	RJB	RRB	JM		
4. Grading for all borderline cases (80% +/- 2% overall and 70 +/- 4% on the SRO-only) reviewed in detail	RJB	RRB	JM		
5. All other failing examinations checked to ensure that grades are justified	RJB	RRB	JM		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	RJB	RRB	JM		
Printed Name / Signature		Date			
a. Grader	<u>Richard J. Brooks / RJB</u>	<u>8/19/03</u>			
b. Facility Reviewer(*)	<u>Robert R. Boesch / RRB</u>	<u>8/19/03</u>			
c. NRC Chief Examiner (*)	<u>Jo Ann G. Canuso / JAC</u>	<u>9/4/03</u>			
d. NRC Supervisor (*)	<u>M. J. Anton / MJA</u>	<u>9/9/03</u> <u>9/12/03</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					