

Facility: FitzPatrick		Date of Examination: November 5, 2001
Examinations Developed by: NRC		
Target Date*	Task Description / Reference	Chief Examiner's Initials
6/5/01	1. Examination administration date confirmed (C.1.a; C.2.a & b)	5/30/01
6/5/01	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	5/30/01
-120	3. Facility contact briefed on security & other requirements (C.2.c)	5/30/01
06/5/01	4. Corporate notification letter sent (C.2.d)	5/30/01
[8/6/01]	[5. Reference material due (C.1.e; C.3.c)]	7/9/01
8/13/01	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	7/3/01
8/20/01	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	7/11/01
9/17/01	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	9/28/01
10/5/01	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	10/17/01
10/19/01	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	10/24/01
10/26/01	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	10/29/01
10/22/01	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	10/1/01
10/29/01	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	9/28/01 10/29/01
10/29/01	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	10/29/01
10/29/01	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	10/29/01
10/29/01	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	10/29/01
<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>		

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Facility: <u>Fitz Patrick</u>		Date of Examination: <u>Nov. 2001</u>		
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.	AS	NA	gjm
	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.	AS	NA	gjm
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	AS	NA	gjm
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	AS	NA	gjm
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.	AS	NA	gjm
	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.	AS	NA	gjm
	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.	AS	NA	gjm
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 applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	AS	NA	gjm
	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.	AS	NA	gjm
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	AS	NA	gjm
	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.	AS	NA	gjm
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.	AS	NA	gjm
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	AS	NA	gjm
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	AS	NA	gjm
	d. Check for duplication and overlap among exam sections.	AS	NA	gjm
	e. Check the entire exam for balance of coverage.	AS	NA	gjm
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	AS	NA	gjm
a. Author	Printed Name / Signature <u>Alan Blamey / [Signature]</u>		Date <u>10/29/01</u>	
b. Facility Reviewer (*)	NA			
c. NRC Chief Examiner (#)	<u>J.H. Williams / [Signature]</u>		<u>10/29/01</u>	
d. NRC Supervisor	<u>R.J. Cente / [Signature]</u>		<u>10/29/01</u>	
Note:	* Not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.			

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5 Nov 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 Nov 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)	DATENOTE
1. Richard W. DeVercelly	Nuclear Training Specialist	<i>Richard W. DeVercelly</i>	8/28/01	<i>Richard W. DeVercelly</i>	11/14/01 All
2. PETER R. RYAN	Control Room Supervisor	<i>Peter R. Ryan</i>	9/6/01	<i>Peter R. Ryan</i>	11/27/01 written - all
3. TONY ROBERTS	NUCLEAR TRAINING SPECIALIST	<i>Tony Roberts</i>	9/29/01	<i>Tony Roberts</i>	11/14/01 All
4. Murray Hyde	NUC TRG Specialist	<i>Murray Hyde</i>	9/28/01	SEE ATTACHED FAX &	11/27/01 All
5. Randall Kenner	Senior nuclear operator	<i>Randall Kenner</i>	10/3/01	<i>Randall Kenner</i>	11/27/01 written - all
6. DONALD TARBITT	ASSIST. OPS Manager	<i>Donald Tarbitt</i>	10/3/01	<i>Donald Tarbitt</i>	11/26/01 written - all
7. Richards WERNER	Nuclear Control Room OPERATOR	<i>Richards Werner</i>	10/3/01	<i>Richards Werner</i>	11/27/01 written - all
8. Kerry S Allen	Kerry S Allen SM OP.	<i>Kerry S Allen</i>	10/3/01	<i>Kerry S Allen</i>	11/30/01 written - all
9. Michael A Fochtna	Michael A Fochtna Sim Support	<i>Michael A Fochtna</i>	10/3/01	<i>Michael A Fochtna</i>	11/14/01 Sim Operator
10. GARY E. FROER	GARY E. FROER NUC TRG SPECIALIST	<i>Gary E. Froer</i>	10/22/01	<i>Gary E. Froer</i>	11/26/01 written - part
11. Barbara Page	Barbara Page - Clerk	<i>Barbara Page</i>	10/14/01	<i>Barbara Page</i>	11/27/01 written - attach
12. David E. Burch	Senior Design Eng. - EOPs	<i>David E. Burch</i>	10/24/01	<i>David E. Burch</i>	11/26/01 written - attach
13. THOMAS L. HARRIMAN	Nuclear Training Specialist	<i>Thomas L. Harriman</i>	11/6/01	<i>Thomas L. Harriman</i>	11/14/01 Sim Operator
14. MARK A. CARPENTIER	SOFTWARE SPECIALIST	<i>Mark A. Carpentier</i>	11/6/01	<i>Mark A. Carpentier</i>	11/14/01 Sim Support
15. VILDA WALTZ	OPERATIONS SHIFT MANAGER	<i>Vilda Waltz</i>	11/6/01	<i>Vilda Waltz</i>	12/4/01 Sim Observer

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 11/5/01 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

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Steve Reinmuthaus	OPS Training Supervisor	<i>[Signature]</i>	11/6/01	<i>[Signature]</i>	11/14/01	Sim Observer
2. Garfield Perrine	Simulator Support	<i>[Signature]</i>	11/6/01	<i>[Signature]</i>	11/26/01	Sim Support
3. FRANK DEVENY	OPSTRAINING LOI PA	<i>[Signature]</i>	11/7/01	<i>[Signature]</i>	11/14/01	Sim Substitute
4. PATRICK BERRY	TRAINING MANAGER	<i>[Signature]</i>	11/7/01	<i>[Signature]</i>	11/27/01	Sim Observer
5. TOM FLUMPTON	SHIFT MANAGER	<i>[Signature]</i>	11/7/01	<i>[Signature]</i>	11/27/01	Sim Substitute
6. JOSEPH ROMANOWSKI	TRAINING INSTRUCTOR	<i>[Signature]</i>	11/8/01	<i>[Signature]</i>	11/14/01	ESCORTE
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

NOTES:

1. Pre-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Richard W. DeVercally	Nuclear Training Specialist	<i>Richard W. DeVercally</i>	8/28/01	<i>Richard W. DeVercally</i>	11/14/01	All
2. PETER R. RYAN	Control Room Supervisor	<i>Peter R. Ryan</i>	9/6/01	<i>Peter R. Ryan</i>	11/27/01	written - all
3. TONY ROBERTS	Nuclear Training Specialist	<i>Tony Roberts</i>	9/27/01	<i>Tony Roberts</i>	11/14/01	All
4. Murray Hildebrand	NRC TPG Specialist	<i>Murray Hildebrand</i>	9/27/01	<i>Murray Hildebrand</i>	11/27/01	written - all
5. W. RANDALL BRADY	Senior Nuclear Operator	<i>W. Randall Brady</i>	10/3/01	<i>W. Randall Brady</i>	11/27/01	written - all
6. DONALD TARRITT	ASSIST. OPS Manager	<i>Donald Tarritt</i>	10/2/01	<i>Donald Tarritt</i>	11/26/01	written - all
7. RICHARD WEAVER	Nuclear Control Room Operator	<i>Richard Weaver</i>	10/3/01	<i>Richard Weaver</i>	11/27/01	written - all
8. KERRY S ALLEN	Nuclear Control Room Operator	<i>Kerry S Allen</i>	10/2/01	<i>Kerry S Allen</i>	11/27/01	written - all
9. MICHAEL A FOCHTMA	Senior Nuclear Operator	<i>Michael A Fochtma</i>	10/3/01	<i>Michael A Fochtma</i>	11/14/01	Simulator - part
10. GRAY E. FRANK	NRC TPG SPECIALIST	<i>Gray E. Frank</i>	10/22/01	<i>Gray E. Frank</i>	11/14/01	written - part
11. BARBARA PAGE	Senior Design Eng. - G003	<i>Barbara Page</i>	10/14/01	<i>Barbara Page</i>	11/14/01	written - attach
12. DAVID E. BURCH	Senior Design Eng. - G003	<i>David E. Burch</i>	10/14/01	<i>David E. Burch</i>	11/27/01	written - attach
13. THOMAS L. HARRIS	Nuclear Training Specialist	<i>Thomas L. Harris</i>	11/6/01	<i>Thomas L. Harris</i>	11/14/01	Sim. Operator
14. MARK A. CARPENTIER	Software Specialist	<i>Mark A. Carpentier</i>	11/6/01	<i>Mark A. Carpentier</i>	11/14/01	Sim Support
15. VICTOR WALL	OPERATIONS SHIFT MANAGER	<i>Victor Wall</i>	11/6/01	<i>Victor Wall</i>	11/14/01	Sim - all

NOTES:

Facility: <i>Fritz Patrick</i>		Date of Examination: <i>11/5-9/01</i>		Operating Test Number: <i>1</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>B</i>	<i>N/A</i>	<i>QW</i>	<i>N3</i>
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	<i>B</i>	<i>N/A</i>	<i>QW</i>	
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	<i>B</i>	<i>N/A</i>	<i>QW</i>	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	<i>B</i>	<i>N/A</i>	<i>QW</i>	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	<i>B</i>	<i>N/A</i>	<i>QW</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 · 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 	<i>B</i>	<i>N/A</i>	<i>QW</i>	<i>N1 N2</i>
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	<i>B</i>	<i>N/A</i>	<i>QW</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>B</i>	<i>N/A</i>	<i>QW</i>	
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	<i>B</i>	<i>N/A</i>	<i>QW</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>B</i>	<i>NA</i>	<i>QW</i>	
		Printed Name / Signature		Date	
a.	Author	<i>Alan Blamey / [Signature]</i>		<i>9/28/01</i>	
b.	Facility Reviewer(*)	<i>NA</i>			
c.	NRC Chief Examiner (#)	<i>J. Herb Williams / [Signature]</i>		<i>9/28/01</i>	
d.	NRC Supervisor	<i>Richard Conte / [Signature]</i>		<i>9/28/01</i>	
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.					

Notes

Review based on validation comments

*JH Williams 10/25/01
RJC 10/27/01*

Notes

Facility: <i>FitzPatrick</i>		Date of Exam: <i>11/5-9/01</i>		Scenario Numbers: <i>11 213</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>B</i>	NA	<i>g/h/r</i>			
2.	The scenarios consist mostly of related events.	<i>B</i>	NA	<i>g/h/r</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>10/12/01</i> <i>B</i>	NA	<i>g/h/r</i>	N4		
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>B</i>	NA	<i>g/h/r</i>			
5.	The events are valid with regard to physics and thermodynamics.	<i>B</i>	NA	<i>g/h/r</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>10/12/01</i> <i>B</i>	NA	<i>g/h/r</i>	N5		
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>B</i>	NA	<i>g/h/r</i>			
8.	The simulator modeling is not altered.	<i>B</i>	NA	<i>g/h/r</i>	N5		
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>10/12/01</i> <i>B</i>	NA	<i>g/h/r</i>	N5		
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>B</i>	NA	<i>g/h/r</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>B</i>	NA	<i>g/h/r</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>B</i>	NA	<i>g/h/r</i>			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<i>B</i>	NA	<i>g/h/r</i>			
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes		-	-	-	
1.	Total malfunctions (5-8)	<i>6</i>	<i>16</i>	<i>7</i>	<i>B</i>	NA	<i>g/h/r</i>
2.	Malfunctions after EOP entry (1-2)	<i>3</i>	<i>12</i>	<i>2</i>	<i>B</i>	NA	<i>g/h/r</i>
3.	Abnormal events (2-4)	<i>4</i>	<i>13</i>	<i>5</i>	<i>B</i>	NA	<i>g/h/r</i>
4.	Major transients (1-2)	<i>2</i>	<i>11</i>	<i>2</i>	<i>B</i>	NA	<i>g/h/r</i>
5.	EOPs entered/requiring substantive actions (1-2)	<i>2</i>	<i>12</i>	<i>2</i>	<i>B</i>	NA	<i>g/h/r</i>
6.	EOP contingencies requiring substantive actions (0-2)	<i>1</i>	<i>10</i>	<i>1</i>	<i>B</i>	NA	<i>g/h/r</i>
7.	Critical tasks (2-3)	<i>2</i>	<i>12</i>	<i>2</i>	<i>B</i>	NA	<i>g/h/r</i>

Facility: FitzPatrick Date of Exam: Nov. 2001 Scenario Numbers: 11213 Operating Test No.:

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.	~		
2.	The scenarios consist mostly of related events.			
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)			
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.			
5.	The events are valid with regard to physics and thermodynamics.			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			
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.			
8.	The simulator modeling is not altered.			
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.			
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.			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			
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).			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			

See main ES-301-4 form for other signatures

Revised After Validation

TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes	-	-	-
1.	Total malfunctions (5-8)	6 1 5 1 6	B	NA	GM
2.	Malfunctions after EOP entry (1-2)	3 1 1 2	B	NA	GM
3.	Abnormal events (2-4)	3 1 3 1 5	B	NA	GM
4.	Major transients (1-2)	2 1 1 3	B	NA	GM
5.	EOPs entered/requiring substantive actions (1-2)	2 1 1 2	B	NA	GM
6.	EOP contingencies requiring substantive actions (0-2)	1 1 0 1 1	B	NA	GM
7.	Critical tasks (2-3)	2 1 2 1 2	B	NA	GM

Notes for ES-301-03

N1 Administrative JPM A.1 Verification of Core Thermal Power

The JPM requires a computer Power & flow log for 80% power. This must be inserted into both the RO and SRO JPM.

Completed During validation week.

N2 Control Room JPM B.1.d Failure of the "A" Reactor Recirculation Pump no. 1 & no. 2 Seal.

This is a new JPM and must have a time validation on the simulator.

Complete. This task was changed to "A" Reactor Recirculation Pump high vibration during validation week. The seal leak would provide too much distraction to other personnel in the control during the exam.

N3 Duplication of JPMs.

There were four JPM that were identified as being duplicates. The licensee will change these duplicate JPMs in the audit exam before administration.

Complete. The JPMs were not duplicated.

Notes for ES-301-4

N4 Event Descriptions

The event descriptions will be completed at the simulator during the validation week.

Completed and included into the scenarios.

N5 These items will be completed during the simulator validation week.

Completed during validation week.

Review
Validation

OPERATING TEST NO.: TEAM-1 (A1, B1)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1		E1		
	Normal	1	E2			
	Instrument / Component	4	E7, E8	E3, E6		
	Major	1	E4, E6	E5		
As RO	Reactivity	1	E1			
	Normal	0				
	Instrument / Component	2	E3, E5			
	Major	1	E4, E6			
SRO-I	Reactivity	0		E1		
	Normal	1		E2		
	Instrument / Component	2		E3, E4, E6, E7, E8		
	Major	1		E5		
SRO-U	Reactivity	0	E1			
	Normal	1	E2			
	Instrument / Component	2	E3, E5, E7, E8			
	Major	1	E4, E6			

- 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.

Author: Alan Blamey / [Signature]

NRC Reviewer: [Signature] / [Signature]

OPERATING TEST NO.: TEAM-2 (A2, B2)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1		E1		
	Normal	1	E2			
	Instrument / Component	4	E7, E8	E3, E6		
	Major	1	E4, E6	E5		

As RO	Reactivity	1	E1			
	Normal	0				
	Instrument / Component	2	E3, E5			
	Major	1	E4, E6			
SRO-I	Reactivity	0		E1		
	Normal	1		E2		
	Instrument / Component	2		E3, E4, E6, E7, E8		
	Major	1		E5		

SRO-U	Reactivity	0	E1			
	Normal	1	E2			
	Instrument / Component	2	E3, E5, E7, E8			
	Major	1	E4, E6			

- 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.

Author:

Alan Blamey / [Signature]

NRC Reviewer:

[Signature] / [Signature]

OPERATING TEST NO.: TEAM 3 (A3, B3)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1		E1		
	Normal	1	E2			
	Instrument / Component	4	E7, E8	E3, E6		
	Major	1	E4, E6	E5		

As RO	Reactivity	1	E1			
	Normal	0				
	Instrument / Component	2	E3, E5			
	Major	1	E4, E6			

As SRO	Reactivity	0		E1		
	Normal	1		E2		
	Instrument / Component	2		E3, E4 E6, E7 E8		
	Major	1		E5		

SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	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.
 - (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:

Alan Blamey / ALB

NRC Reviewer:

J. Williams / JAW

OPERATING TEST NO.: TEAM 4 (A4, B4)

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1		E1		
	Normal	1	E2			
	Instrument / Component	4	E7, E8	E3, E6		
	Major	1	E4, E6	E5		

As RO	Reactivity	1	E1			
	Normal	0				
	Instrument / Component	2	E3, E5			
	Major	1	E4, E6			

SRO-I As SRO	Reactivity	0		E1		
	Normal	1		E2		
	Instrument / Component	2		E3, E4 E6, E7 E8		
	Major	1		E5		

SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	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.
 - (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:

Alan Blaney / [Signature]

NRC Reviewer:

J. B. Williams / [Signature]

OPERATING TEST NO.: SRO U - 1

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

- 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.

Author:

Alan Blawie / Alan Blawie

NRC Reviewer:

Julian H. Williams / Julian H. Williams

OPERATING TEST NO.: SROU-2

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

- 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.

Author:

Alan Blamey / Carl Bost

NRC Reviewer:

J.H. Williams / G.H. Williams

OPERATING TEST NO.: SRO1-1

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1				
	Normal	1				
	Instrument / Component	4				
	Major	1				
As RO	Reactivity	1	2			
	Normal	0	1,7			
	Instrument / Component	2	8,9			
	Major	1	4,6			
SRO-I	Reactivity	0		2		
	Normal	1		1		
	Instrument / Component	2		3,4,6 7		
	Major	1		5		
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	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.
 - (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: Alan Blamey / Alan Blamey

NRC Reviewer: J.H. Williams / J.H. Williams

OPERATING TEST NO.: *SROI - 2*

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1				
	Normal	1				
	Instrument / Component	4				
	Major	1				
As RO	Reactivity	1	2			
	Normal	0	1,7			
	Instrument / Component	2	8,9			
	Major	1	4,6			
SROI						
As SRO	Reactivity	0		2		
	Normal	1		1		
	Instrument / Component	2		3,4,6 7		
	Major	1		5		
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	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.
 - (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:

Alan Blaney / Alan Blaney

NRC Reviewer:

J.H. Williams / J.H. Williams

OPERATING TEST NO.: *SRO I-3*

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1				
	Normal	1				
	Instrument / Component	4				
	Major	1				
As RO	Reactivity	1		2		
	Normal	0		1		
	Instrument / Component	2		4,7		
	Major	1		5		
SRO-I						
As SRO	Reactivity	0	2			
	Normal	1	1,7			
	Instrument / Component	2	3,5,8 9			
	Major	1	4,6			
SRO-U						
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	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.
 - (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:

Alan Blaney / [Signature]

NRC Reviewer:

J.H. Williams / [Signature]

OPERATING TEST NO.: *RO-1*

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1	2			
	Normal	1	1,7			
	Instrument / Component	4	8,9	3,6		
	Major	1	4,6	5		
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I						
As SRO	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	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.
 - (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:

Alan Blamey / *AB*

NRC Reviewer:

J. H. Williams / *JHW*

OPERATING TEST NO.: RO-2

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1		2		
	Normal	1		1		
	Instrument / Component	4	3,5	4,7		
	Major	1	4,6	5		
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	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.
 - (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:

Alan Blamey / AB

NRC Reviewer:

J.H. Williams / JHW

OPERATING TEST NO.: *RO-3*

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1		2		
	Normal	1		1		
	Instrument / Component	4	3, 5	4, 7		
	Major	1	4, 6	5		
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	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.
 - (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:

Alan Blamey / A.B.

NRC Reviewer:

J.H. Williams / J.H.W.

OPERATING TEST NO.: *RO-4*

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1		2		
	Normal	1		1		
	Instrument / Component	4	3,5	4,7		
	Major	1	4,6	5		
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				
SRO-U	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	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.
 - (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: Alan Blamey / AIB

NRC Reviewer: J.H. Williams / JHW

ES-301 Competencies Checklist Form ES-301-6 (R8, S1)

RO-1, RO-2
RO-3, RO-4

SROI -1
SROI -2
SROI -3

SROU-1
SROU-2

Competencies	Applicant #1 RO/SRO-U/SRO-U				Applicant #2 RO/SRO-U/SRO-U				Applicant #3 RO/SRO-U/SRO-U			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	1,3 4,6 8,9	3,4 5,6 7			1,4 7,8 9	1,3 4,5 6,7			4,5 6,8 9			
Diagnose Events and Conditions	3,4,5 6,8,9	3,4 6			4,6 8,9	3,4 5,6 7			3-8			
Understand Plant and System Response	3,4,5 6,7	4,5 6,7			3,4 6,7 8,9	3,4 5,6 7			3,4 6,8			
Comply With and Use Procedures (1)	1,3 7,8	1-7			1,2 7,8 9	3,5 6,7			1,3 4,5 6,7			
Operate Control Boards (2)	1-9	1-7			1,2 4,6 7,8,9	NA			NA			
Communicate and Interact With the Crew	1-9	1-7			ALL	ALL			ALL			
Demonstrate Supervisory Ability (3)	NA	NA			NA	3,4 5,6 7			ALL			
Comply With and Use Tech. Specs. (3)	NA	NA			NA	3			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:

Alan Blomay / [Signature]

NRC Reviewer:

J. H. Williams / [Signature]

ES-301 Competencies Checklist Form ES-301-6 (R8, S1)

RO-1, RO-2
RO-3, RO-4

SROI-1, SROI-2
SROI-3, SROI-4

SROU-1, SROU-2

Competencies	Applicant #1 RO/SRO-U/SRO-U				Applicant #2 RO/SRO-U/SRO-U				Applicant #3 RO/SRO-U/SRO-U			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	4,6 7,8	3,6			3,5 6	2-8			3-8			
Diagnose Events and Conditions	4,6 7,8	3,6			3,5 7	2-8			2-8			
Understand Plant and System Response	4,6 7,8	3,1 6,7			1,3 5,7	3,4, 5,6, 7			2-8			
Comply With and Use Procedures (1)	2,6 7,8	3,1 6			1,3 5	3,6 7			ALL			
Operate Control Boards (2)	2,6 7,8	3,1 6			1,3 5	NA			NA			
Communicate and Interact With the Crew	2,6 7,8	3,1 6,7			1,3	ALL			ALL			
Demonstrate Supervisory Ability (3)	NA	NA				1 3-8			ALL			
Comply With and Use Tech. Specs. (3)	NA	NA			3	3			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: Alan Blamey / [Signature]

NRC Reviewer: J.A. Williams / [Signature]

Facility: FitzPatrick		Date of Exam: Nov. 5, 2001		Exam Level: SRO		
Item Description	Initial					
	a	b*	c*			
1. Questions and answers technically accurate and applicable to facility	B	-	gHW			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	B	-	gHW			
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	B	-	gHW			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process			gHW			
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 checked="" 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)	B	-	gHW			
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	B	-	gHW
	14	5	81			
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		B	-	gHW
	45	55				
8. References/handouts provided do not give away answers	B	-	gHW			
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	B	-	gHW			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	B	-	gHW			
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	B	-	gHW			
		Printed Name / Signature		Date		
a. Author	Alan Blamey		[Signature]		9/14/01	
b. Facility Reviewer (*)	N/A					
c. NRC Chief Examiner (#)	Julian H. Williams		[Signature]		9/24/01	
d. NRC Regional Supervisor	R.D. Cant		[Signature]		9/26/01	
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.						

Reviewed based on validation comments

gHW 10/27/01
 R.D. Cant 10/29/01

NI

Facility: FitzPatrick		Date of Exam: Nov. 5, 2001		Exam Level: RO		
Item Description	Initial					
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	B	-	gpm			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	B	-	gpm			
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	B	-	gpm			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process			gpm			
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 checked="" 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)	B	-	gpm			
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	B	-	gpm
	19	5	76			
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	B	-	gpm
	46		54			
8. References/handouts provided do not give away answers	B	-	gpm			
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	B	-	gpm			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	B	-	gpm			
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	B	-	gpm			
Printed Name / Signature					Date	
a. Author	Alan Blawey <i>[Signature]</i>			9/14/01		
b. Facility Reviewer (*)	N/A					
c. NRC Chief Examiner (#)	Julian H. Williams / <i>[Signature]</i>			9/24/01		
d. NRC Regional Supervisor	R.J. Carter / <i>[Signature]</i>			9/26/01		
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.						

Reviewed based on validation comments

[Signature] 10/29/01
[Signature] 10/29/01

NI

401-7
Notes for ES-301-03.

- N1** The written exam was reviewed in detail by the author, chief examiner and facility reviewer. The group 1 & 2 question were also reviewed in detail by the NRC regional supervisor but the group 3 & 4 questions were not reviewed in detail by the supervisor.

FitzPatrick Written Exam Reviews

NRC Region I Reviews:

July 9, 2001, through September 7, 2001, the questions were reviewed via the chief examiner and branch chief. The final product was the DRAFT EXAM. This copy is in the FitzPatrick Written Exam Book 2.

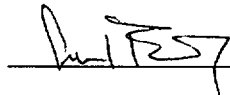
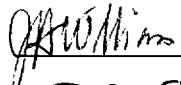

NRC Review with Facility

During the week of September 10, 2001, two facility SROs reviewed the draft exam. This "DRAFT EXAM WITH FACILITY" is in the FitzPatrick Written Exam Book 2.

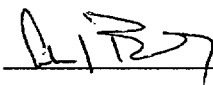

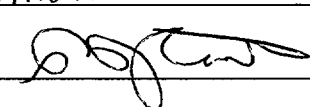
These comments were included into the "FINAL DRAFT." ES-401-9, Written Exam Review Worksheet," was completed for the FINAL DRAFT copy.

FitzPatrick Validation

October 3, 2001, FitzPatrick validated the FINAL DRAFT with 2 ROs and 2 SROs. Comments were incorporated into the "FITZ. FINAL WRITTEN EXAM." Changes made to the FINAL DRAFT to create the FITZ. FINAL WRITTEN EXAM were documented on a ES-401-9, "Written Exam Review Worksheet."

Facility: FitzPatrick		Date of Exam: November 5, 2001		Exam Level: RO	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	AB	-	ABW		
2. Answer key changes and question deletions justified and documented	AB	-	ABW		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	AB ①	-	ABW ①		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	NA	NA	NA		
5. All other failing examinations checked to ensure that grades are justified	NA	NA	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	AB	-	ABW		
Printed Name / Signature			Date		
a. Grader	A. Blamey		11/15/01		
b. Facility Reviewer(*)		N/A	-		
c. NRC Chief Examiner (*)	H. Williams		11/21/01		
d. NRC Supervisor (*)	R. Conte		11/27/01		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

① All exams were 100% reviewed.

Facility: FitzPatrick		Date of Exam: November 5, 2001		Exam Level: SRO		
Item Description				Initials		
				a	b	c
1.	Clean answer sheets copied before grading			B	-	gjh
2.	Answer key changes and question deletions justified and documented			B	-	gjh
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)			B ^①	-	gjh ^②
4.	Grading for all borderline cases (80% +/- 2%) reviewed in detail			NA	NA	NA
5.	All other failing examinations checked to ensure that grades are justified			NA	NA	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			B	-	gjh
		Printed Name / Signature			Date	
a. Grader	A. Blamey				11/15/01	
b. Facility Reviewer(*)		N/A			-	
c. NRC Chief Examiner (*)	H. Williams				11/21/01	
d. NRC Supervisor (*)	R. Conte				11/27/01	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.						

① All exams were 100% reviewed.