

Facility: <u>Seabrook</u>		Date of Examination: <u>3/3/00 - written</u> <u>3/6-10/00 op</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)	JS
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	JS
-120	3. Facility contact briefed on security & other requirements (C.2.c)	JS
-120	4. Corporate notification letter sent (C.2.d) <u>11/5/99</u>	JS
[-90]	[5. Reference material due (C.1.e; C.3.c)] <u>N/A</u>	JS
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d) <u>Arrived 12/22/99 as agreed</u>	JS
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e) <u>12/28/99</u>	JS
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d) <u>1/19/00</u>	JS
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202) <u>2/5/00</u>	JS
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	JS
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f) <u>2/11/00</u>	JS
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g) <u>3/11/00 2/14-16</u>	JS
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	JS
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	JS
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	JS
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	JS

* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.

[] Applies only to examinations prepared by the NRC.

Facility: <u>Seabrook</u>		Date of Examination: <u>3/6-10/00</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.	BWL	T	DS
	b. Assess whether the outline was systematically prepared and whether all knowledge and ability categories are appropriately sampled.	BWL	T	DS
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	BWL	T	DS
	d. Assess whether the repetition from previous examination outlines is excessive.	BWL	T	DS
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.	BWL	T	DS
	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.	BWL	T	DS
	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.	BWL	T	DS
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.	BWL	T	DS
	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.	BWL	T	DS
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	BWL	T	DS
	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.	BWL	T	DS
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.	BWL	T	DS
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	BWL	T	DS
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	BWL	T	DS
	d. Check for duplication and overlap among exam sections.	BWL	T	DS
	e. Check the entire exam for balance of coverage.	BWL	T	DS
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	BWL	T	DS
a. Author <u>Steven Kessinger</u>		Printed Name / Signature		Date
b. Facility Reviewer(*) <u>Timothy C. Cassin</u>				<u>12/10/99</u>
c. Chief Examiner <u>David Silk</u>				<u>12/10/99</u>
d. NRC Supervisor <u>Richard J. Cate / Richard J. Cate</u>				<u>1/13/00</u>

(*) Not applicable for NRC-developed examinations.

Facility:		Date of Examination:		Operating Test Number:	
1. GENERAL CRITERIA				Initials	
				a	b
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).	SWK	T	JS	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	SWK	T	JS	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	SWK	T	JS	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	SWK	T	JS	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	SWK	T	JS	
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 	SWK	T	JS	
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	SWK	T	JS	
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.	SWK	T	JS	
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	SWK	T	JS	
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.	SWK	T	JS	
a. Author		Printed Name / Signature		Date	
		Steven Hessinger / Steven Hessinger		1/20/00	
b. Facility Reviewer(*)		TIMOTHY C. CASSIDY / Timothy C. Cassidy		1/20/00	
c. NRC Chief Examiner (*)		David SILK / David Silk		2/25/00	
d. NRC Supervisor (*)		R.T. Conte / R.T. Conte		2/28/00	
(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.					

Facility: <u>Seabrook</u>		Date of Exam: <u>3/6/2000</u>		Scenario Numbers: <u>A1I1</u>		Operating Test No.: <u>1</u>	
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.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
2.	The scenarios consist mostly of related events.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
3.	Each event description consists of <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 	<u>BWR</u>	<u>T</u>	<u>SS</u>			
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.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
5.	The events are valid with regard to physics and thermodynamics.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
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.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
8.	The simulator modeling is not altered.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
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.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
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.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	<u>BWR</u>	<u>T</u>	<u>SS</u>			
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).	<u>BWR</u>	<u>T</u>	<u>SS</u>			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<u>BWR</u>	<u>T</u>	<u>SS</u>			
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes		-	-	-	
1.	Total malfunctions (5-8)	<u>7</u>	<u>1</u>	<u>6</u>	<u>BWR</u>	<u>T</u>	<u>SS</u>
2.	Malfunctions after EOP entry (1-2)	<u>3</u>	<u>1</u>	<u>2</u>	<u>BWR</u>	<u>T</u>	<u>SS</u>
3.	Abnormal events (2-4)	<u>2</u>	<u>1</u>	<u>2</u>	<u>BWR</u>	<u>T</u>	<u>SS</u>
4.	Major transients (1-2)	<u>1</u>	<u>1</u>	<u>1</u>	<u>BWR</u>	<u>T</u>	<u>SS</u>
5.	EOPs entered/requiring substantive actions (1-2)	<u>3</u>	<u>1</u>	<u>3</u>	<u>BWR</u>	<u>T</u>	<u>SS</u>
6.	EOP contingencies requiring substantive actions (0-2)	<u>1</u>	<u>1</u>	<u>1</u>	<u>BWR</u>	<u>T</u>	<u>SS</u>
7.	Critical tasks (2-3)	<u>2</u>	<u>1</u>	<u>1</u>	<u>BWR</u>	<u>T</u>	<u>SS</u>

Facility: <u>Seabrook</u>		Date of Exam: <u>3/7/2000</u>		Scenario Numbers: <u>5141</u>		Operating Test No.: <u>2</u>	
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.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
2.	The scenarios consist mostly of related events.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
3.	Each event description consists of <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 	<u>BWL</u>	<u>T</u>	<u>JS</u>			
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.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
5.	The events are valid with regard to physics and thermodynamics.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
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.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
8.	The simulator modeling is not altered.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
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.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
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.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	<u>BWL</u>	<u>T</u>	<u>JS</u>			
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).	<u>BWL</u>	<u>T</u>	<u>JS</u>			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<u>BWL</u>	<u>T</u>	<u>JS</u>			
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes	-	-	-	-	
1.	Total malfunctions (5-8)	<u>8, 5, 1</u>	<u>BWL</u>	<u>T</u>	<u>JS</u>		
2.	Malfunctions after EOP entry (1-2)	<u>3, 3, 1</u>	<u>BWL</u>	<u>T</u>	<u>JS</u>		
3.	Abnormal events (2-4)	<u>2, 2, 1</u>	<u>BWL</u>	<u>T</u>	<u>JS</u>		
4.	Major transients (1-2)	<u>1, 1, 1</u>	<u>BWL</u>	<u>T</u>	<u>JS</u>		
5.	EOPs entered/requiring substantive actions (1-2)	<u>5, 4, 1</u>	<u>BWL</u>	<u>T</u>	<u>JS</u>		
6.	EOP contingencies requiring substantive actions (0-2)	<u>2, 1, 1</u>	<u>BWL</u>	<u>T</u>	<u>JS</u>		
7.	Critical tasks (2-3)	<u>2, 1, 1</u>	<u>BWL</u>	<u>T</u>	<u>JS</u>		

Facility: <u>Seabrook</u>		Date of Exam: <u>3/8/2000</u>		Scenario Numbers: <u>E1 1</u>		Operating Test No.: <u>3</u>	
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.	<u>SW</u>	<u>T</u>	<u>JS</u>			
2.	The scenarios consist mostly of related events.	<u>SW</u>	<u>T</u>	<u>JS</u>			
3.	Each event description consists of <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 	<u>SW</u>	<u>T</u>	<u>JS</u>			
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.	<u>SW</u>	<u>T</u>	<u>JS</u>			
5.	The events are valid with regard to physics and thermodynamics.	<u>SW</u>	<u>T</u>	<u>JS</u>			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<u>SW</u>	<u>T</u>	<u>JS</u>			
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.	<u>SW</u>	<u>T</u>	<u>JS</u>			
8.	The simulator modeling is not altered.	<u>SW</u>	<u>T</u>	<u>JS</u>			
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.	<u>SW</u>	<u>T</u>	<u>JS</u>			
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.	<u>SW</u>	<u>T</u>	<u>JS</u>			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	<u>SW</u>	<u>T</u>	<u>JS</u>			
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).	<u>SW</u>	<u>T</u>	<u>JS</u>			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<u>SW</u>	<u>T</u>	<u>JS</u>			
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes					
1.	Total malfunctions (5-8)	<u>6</u>	<u>1</u>	<u>1</u>	<u>SW</u>	<u>T</u>	<u>JS</u>
2.	Malfunctions after EOP entry (1-2)	<u>4</u>	<u>1</u>	<u>1</u>	<u>SW</u>	<u>T</u>	<u>JS</u>
3.	Abnormal events (2-4)	<u>2</u>	<u>1</u>	<u>1</u>	<u>SW</u>	<u>T</u>	<u>JS</u>
4.	Major transients (1-2)	<u>1</u>	<u>1</u>	<u>1</u>	<u>SW</u>	<u>T</u>	<u>JS</u>
5.	EOPs entered/requiring substantive actions (1-2)	<u>3</u>	<u>1</u>	<u>1</u>	<u>SW</u>	<u>T</u>	<u>JS</u>
6.	EOP contingencies requiring substantive actions (0-2)	<u>0</u>	<u>1</u>	<u>1</u>	<u>SW</u>	<u>T</u>	<u>JS</u>
7.	Critical tasks (2-3)	<u>2</u>	<u>1</u>	<u>1</u>	<u>SW</u>	<u>T</u>	<u>JS</u>

OPERATING TEST NO.:1

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			A	A	I	I
RO	Reactivity	1	N/A	N/A	N/A	N/A
	Normal	1	N/A	N/A	N/A	N/A
	Instrument	2	N/A	N/A	N/A	N/A
	Component	2	N/A	N/A	N/A	N/A
	Major	1	N/A	N/A	N/A	N/A

As RO	Reactivity	1	N/A	N/A	N/A	N/A
	Normal	0	N/A	N/A	N/A	N/A
	Instrument	1	N/A	N/A	N/A	N/A
	Component	1	N/A	N/A	N/A	N/A
	Major	1	N/A	N/A	N/A	N/A
SRO-I	Reactivity	0	N/A	N/A	N/A	N/A
	Normal	1	N/A	N/A	N/A	N/A
	Instrument	1	N/A	N/A	N/A	N/A
	Component	1	N/A	N/A	N/A	N/A
	Major	1	N/A	N/A	N/A	N/A

SRO-U	Reactivity	0	N/A	N/A	N/A	N/A
	Normal	1	2	2	2	2
	Instrument	1	3	3	1	1
	Component	1	1	1	3	3
	Major	1	4	4	4	4

- Instructions:
- (1) Enter each operating test number and Form ES-D-1 event number 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:

OPERATING TEST NO.:2

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			G	G	H	H
RO	Reactivity	1	N/A	N/A	N/A	N/A
	Normal	1	N/A	N/A	N/A	N/A
	Instrument	2	N/A	N/A	N/A	N/A
	Component	2	N/A	N/A	N/A	N/A
	Major	1	N/A	N/A	N/A	N/A

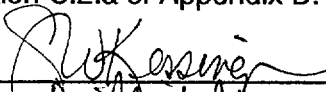

As RO	Reactivity	1	N/A	N/A	N/A	N/A
	Normal	0	N/A	N/A	N/A	N/A
	Instrument	1	N/A	N/A	N/A	N/A
	Component	1	N/A	N/A	N/A	N/A
	Major	1	N/A	N/A	N/A	N/A
SRO-I						
As SRO	Reactivity	0	N/A	N/A	N/A	N/A
	Normal	1	N/A	N/A	1	1
	Instrument	1	N/A	N/A	2	2
	Component	1	N/A	N/A	3	3
	Major	1	N/A	N/A	4	4

SRO-U	Reactivity	0	N/A	N/A	N/A	N/A
	Normal	1	1	1	N/A	N/A
	Instrument	1	2	2	N/A	N/A
	Component	1	3	3	N/A	N/A
	Major	1	4	4	N/A	N/A

- Instructions:
- (1) Enter each operating test number and Form ES-D-1 event number for each evolution type.
 - (3) 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:

OPERATING TEST NO.:3

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			E	E		
RO	Reactivity	1	N/A	N/A		
	Normal	1	N/A	N/A		
	Instrument	2	N/A	N/A		
	Component	2	N/A	N/A		
	Major	1	N/A	N/A		
As RO	Reactivity	1	2	2		
	Normal	0	N/A	N/A		
	Instrument	1	3	3		
	Component	1	3	3		
	Major	1	4	4		
SRO-I	Reactivity	0	N/A	N/A		
	Normal	1	N/A	N/A		
	Instrument	1	N/A	N/A		
	Component	1	N/A	N/A		
	Major	1	N/A	N/A		
As SRO	Reactivity	0	N/A	N/A		
	Normal	1	N/A	N/A		
	Instrument	1	N/A	N/A		
	Component	1	N/A	N/A		
	Major	1	N/A	N/A		
SRO-U	Reactivity	0	N/A	N/A		
	Normal	1	1	1		
	Instrument	1	3	3		
	Component	1	2	2		
	Major	1	4	4		

- Instructions:
- (1) Enter each operating test number and Form ES-D-1 event number for each evolution type.
 - (4) 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:

DeKessinger

John R. H.

Rev.1

Competencies	Applicant # U1 SRO - U			Applicant # U2 SRO - U			Applicant # U3 SRO - U			Applicant # U4 SRO - U		
	SCENARIO			SCENARIO			SCENARIO			SCENARIO		
	I	G	E	A	I	H	A	G	E	A	I	H
Understand and Interpret Annunciators and Alarms	3,4	2,3 4	2,3 4	3,4	1,4	2,4	3,4	ALL	2,4	3,4	1,3 4	3,4
Diagnose Events and Conditions	3,4	2,3 4	2,3 4	1,3 4	1,4	2,4	1,3 4	2,3 4	2,4	1,3 4	1,3 4	3,4
Understand Plant and System Response	3,4	2,3 4	2,3 4	ALL	1,2 4	1,2 4	1,3 4	ALL	1,2 4	1,3 4	ALL	1,3 4
Comply With and Use Procedures (1)	2,3 4	2,3 4	ALL	ALL	1,2 4	1,2 4	ALL	ALL	1,2 4	1,2 4	ALL	1,3 4
Operate Control Boards (2)	2,3 4	2,3 4	US	US	1,2 4	1,2 4	2,3 4	US	1,2 4	1,2 4	US	1,3 4
Communicate and Interact With the Crew	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
Demonstrate Supervisory Ability (3)	NA	NA	ALL	ALL	NA	NA	NA	ALL	NA	NA	ALL	NA
Comply With and Use Tech. Specs. (3)	3	3	2,3	3	1	—	3	2,3	—	3	1,3	3

Notes:

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

Instructions:

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

Author:

Chief Examiner:

Rev 1

Competencies	Applicant # U5 SRO - U			Applicant # U6 SRO - U			Applicant # U7 SRO - U			Applicant # U8 SRO - U		
	SCENARIO			SCENARIO			SCENARIO			SCENARIO		
	A	G	E	A	I	H	A	I	G	I	H	E
Understand and Interpret Annunciators and Alarms	3,4	2,3,4	2,3,4	3,4	1,4	2,4	3,4	3,4	ALL	1,3,4	3,4	2,4
Diagnose Events and Conditions	1,3,4	2,3,4	2,3,4	1,3,4	1,4	2,4	1,3,4	3,4	2,3,4	1,3,4	3,4	2,4
Understand Plant and System Response	1,3,4	2,3,4	ALL	ALL	1,2,4	1,2,4	1,3,4	3,4	ALL	ALL	3,4	1,2,4
Comply With and Use Procedures (1)	1,3,4	2,3,4	ALL	ALL	1,2,4	1,2	ALL	2,3,4	ALL	ALL	1,3,4	1,2,4
Operate Control Boards (2)	1,2,4	2,3,4	US	US	1,2,4	1,2,4	2,3,4	2,3,4	US	US	1,3,4	1,2,4
Communicate and Interact With the Crew	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL
Demonstrate Supervisory Ability (3)	NA	NA	ALL	ALL	NA	NA	NA	NA	ALL	ALL	NA	NA
Comply With and Use Tech. Specs. (3)	3	2,3	2,3	3	1	—	3	3	2,3	1,3	3	—

Notes:

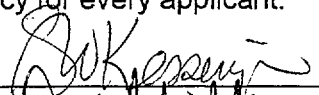
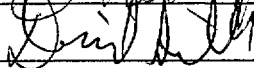
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 (2) Optional for an SRO-U.
 (3) Only applicable to SROs.

Instructions:

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

Author:

Chief Examiner:

Rev 1

Competencies	Applicant # 11 SRO - I			Applicant # 12 SRO - I			Applicant # SRO -			Applicant # SRO -		
	SCENARIO			SCENARIO			SCENARIO			SCENARIO		
	G	H	E	G	H	E						
Understand and Interpret Annunciators and Alarms	1,4	2,3,4	2,3,4	1,4	2,3,4	2,3,4						
Diagnose Events and Conditions	4	2,3,4	2,3,4	4	2,3,4	2,3,4						
Understand Plant and System Response	1,4	ALL	ALL	1,4	ALL	ALL						
Comply With and Use Procedures (1)	1,4	ALL	ALL	1,4	ALL	ALL						
Operate Control Boards (2)	1,4	US	ALL	1,4	US	ALL						
Communicate and Interact With the Crew	ALL	ALL	ALL	ALL	ALL	ALL						
Demonstrate Supervisory Ability (3)	NA	ALL	NA	NA	ALL	NA						
Comply With and Use Tech. Specs. (3)	-	3	2,3	-	3	2,3						

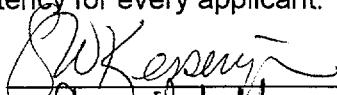
Notes:

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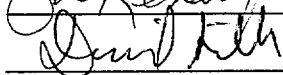
Instructions:

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

Author:



Chief Examiner:



REV. 01

Facility: <u>Seabrook</u>		Date of Exam: <u>3-3-00</u>		Exam Level: <u>RO/SRO</u>																																					
Item Description				Initial																																					
				a	b*	c*																																			
1.	Questions and answers technically accurate and applicable to facility			<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
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	<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
		<u>24</u>	<u>0</u>																																						
5.	[No (Less than 5 percent) question duplication from the license screening/audit exam (if independently written)]			<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
6.	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	<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
		<u>31</u>	<u>29</u>																																						
7.	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory	C/A	<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
		<u>46</u>	<u>54</u>																																						
8.	References/handouts provided do not give away answers			<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
9.	Question distribution meets previously approved examination outline; deviations are justified			<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			<u>OK</u>	<u>✓</u>	<u>OK</u>																																			
<table border="0"> <tr> <td></td> <td colspan="5">Printed Name / Signature</td> <td>Date</td> </tr> <tr> <td>a. Author</td> <td colspan="5"><u>Steven W. Kessinger</u></td> <td><u>2/23/00</u></td> </tr> <tr> <td>b. Facility Reviewer(*)</td> <td colspan="5"><u>TIMOTHY C. CASSIDY</u></td> <td><u>2/23/00</u></td> </tr> <tr> <td>c. NRC Chief Examiner(*)</td> <td colspan="5"><u>David M. Silk</u></td> <td><u>2/25/00</u></td> </tr> <tr> <td>d. NRC Regional Supervisor(*)</td> <td colspan="5"><u>P.J. Conter</u></td> <td><u>2/28/00</u></td> </tr> </table>								Printed Name / Signature					Date	a. Author	<u>Steven W. Kessinger</u>					<u>2/23/00</u>	b. Facility Reviewer(*)	<u>TIMOTHY C. CASSIDY</u>					<u>2/23/00</u>	c. NRC Chief Examiner(*)	<u>David M. Silk</u>					<u>2/25/00</u>	d. NRC Regional Supervisor(*)	<u>P.J. Conter</u>					<u>2/28/00</u>
	Printed Name / Signature					Date																																			
a. Author	<u>Steven W. Kessinger</u>					<u>2/23/00</u>																																			
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<p>Note: * The facility reviewer's signature is not applicable for NRC-developed examinations; two independent NRC reviews are required.</p> <p># See special instructions (Section E.2.c) for Items 1, 4, 5, and 6.</p> <p>[] The items in brackets do not apply to NRC-prepared examinations.</p>																																									

Facility: <u>Seabrook</u>		Date of Exam: <u>3/3/2000</u>		Exam Level: RO <u>(SRO)</u>	
Item Description		Initials			
		a	b	c	
1.	Answer key changes and question deletions justified and documented	N/A	N/A	N/A	
2.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	KPW 4/8	✓	WMS	
3.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	N/A	N/A	N/A	
4.	All other failing examinations checked to ensure that grades are justified	N/A	N/A	N/A	
5.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	KPW 4/8	✓	WMS	
a. Grader		Printed Name / Signature <u>LARRY E. BRIGGS</u> / <u>[Signature]</u>		Date <u>3/14/00</u>	
b. Facility Reviewer(*)		<u>TIMOTHY CASSIDY</u> / <u>[Signature]</u>		<u>3/3/00</u>	
c. NRC Chief Examiner (*)		<u>DAVID M. SILK</u> / <u>[Signature]</u>		<u>3/22/00</u>	
d. NRC Supervisor (*)		<u>BOB CANTO</u> / <u>[Signature]</u>		<u>4/3/00</u>	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 3/6/00* 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 3/6/00*. 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. Steven Kessinger	Simulator Instructor / POC	<i>Steven W. Kessinger</i>	10/1/99	<i>Steven W. Kessinger</i>	3/14/00	
2. TIMOTHY C. CASSIDY	OPS TRAINING SUPV	<i>Timothy C. Cassidy</i>	10/18/99	<i>Timothy C. Cassidy</i>	3/14/00	
3. JYE-YUH LEE	Simulator Engineer	<i>Jye-Yuh Lee</i>	11/22/99	<i>Jye-Yuh Lee</i>	3/14/00	
4. Amy G. Holmes	Support Staff	<i>Amy G. Holmes</i>	11/30/99	<i>Amy G. Holmes</i>	3/14/00	
5. R. Scott Anderson	Sim Support	<i>R. Scott Anderson</i>	12/9/99	<i>R. Scott Anderson</i>	3/22/00	
6. MING VIN	Sim Support Engineer	<i>Ming Vin</i>	1/10/00	<i>Ming Vin</i>	3/14/00	
7. Westley C. Spruker	Unit Supervisor	<i>Westley C. Spruker</i>	1/10/00	<i>Westley C. Spruker</i>	3/17/00	
8. Peter M. Klevitch	Control Room Operator	<i>Peter M. Klevitch</i>	01-10-00	<i>Peter M. Klevitch</i>	3-17-2000	
9. Michael Kiley	Shift Manager	<i>Michael Kiley</i>	01-10-00	<i>Michael Kiley</i>	3-17-00	
10. Greg Coy	SNuclear Tech	<i>Greg Coy</i>	01-10-00	<i>Greg Coy</i>	3/14/00	
11. MARVIN BOYLE	Simulator Engineer	<i>Marvin Boyle</i>	1/18/00	<i>Marvin Boyle</i>	3/14/00	
12. MICHAEL S. BILTZBERG	Simulation Instructor	<i>Michael S. Biltzberg</i>	1/19/00	<i>Michael S. Biltzberg</i>	3/14/00	
13. Ron Strickland	Shift Manager	<i>Ron Strickland</i>	1/19/00	<i>Ron Strickland</i>	3/15/00	
14. JOHN KIMBALL	OPERATOR INSTRUCTOR	<i>John Kimball</i>	1/19/00	<i>John Kimball</i>	3/15/00	
15. William Upman	Nuclear Tech	<i>William Upman</i>	2/3/00	<i>William Upman</i>	3/14/00	

NOTES:


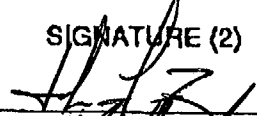

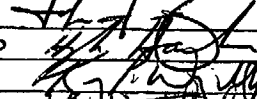
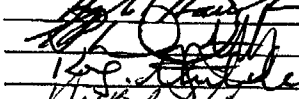
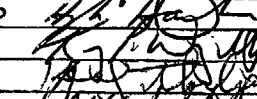
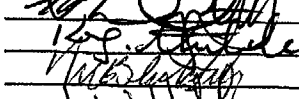
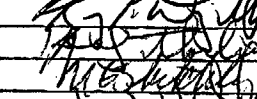
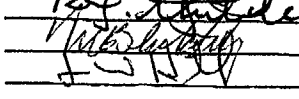
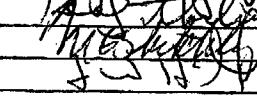
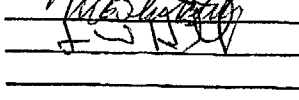
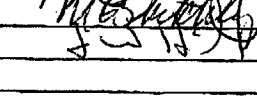
* Written exam administered on 3/3/00.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of March 6, 2000^{*} 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 3/6/00^{*}. 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>JOHN FINNIGAN</u>	<u>CRO / PROCEDURE WRITER</u>		<u>1/10/00</u>		<u>3/17/00</u>	
2. <u>HUGH HAWKINS</u>	<u>US</u>		<u>1/16/00</u>		<u>3/22/00</u>	
3. <u>KERRY WRIGHT</u>	<u>LOUT PROGRAM COOR.</u>		<u>3/2/00</u>		<u>3/10/00</u>	
4. <u>KEVIN THIBODEAU</u>	<u>LOUT INSTRUCTOR</u>		<u>3/2/00</u>		<u>3/14/00</u>	
5. <u>MARK SKETCHLEY</u>	<u>US / LOUT INSTRUCTOR</u>		<u>3/6/00</u>		<u>3/14/00</u>	
6. <u>JAMES W. HILL</u>	<u>OPS SUP</u>		<u>3/6/00</u>		<u>3/14/00</u>	
7. _____	_____	_____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____	_____	_____
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12. _____	_____	_____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____	_____

NOTES:

* Written exam administered on 3/3/00.

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2. TIMOTHY C. CASSIDY	OPS TRAINING SUPV	<i>Timothy C. Cassidy</i>	10/18/99	<i>T. Cassidy</i>	3/14/00
3. JYE-YUH LEE	Simulator Engineer	<i>Jye-Yuh Lee</i>	11/22/99	<i>Jye-Yuh Lee</i>	3/14/00
4. Amy C. Holmes	Support Staff	<i>Amy C. Holmes</i>	11/30/99	<i>Amy C. Holmes</i>	3/14/00
5. R. Scott Anderson	Sim Support	<i>R. Scott Anderson</i>	12/9/99	<i>R. Scott Anderson</i>	3/14/00
6. MING YIN	Sim Support Engineer	<i>Ming Yin</i>	1/10/00	<i>Ming Yin</i>	3/14/00
7. Westley C. Sprunk	Unit Supervisor	<i>Westley C. Sprunk</i>	1/10/00	<i>Westley C. Sprunk</i>	3/17/00
8. Peter M. Klevitch	Control Room Operator	<i>Peter M. Klevitch</i>	01-10-00	<i>Peter M. Klevitch</i>	3-17-2000
9. Michael Kiley	Shift Manager	<i>Michael Kiley</i>	01-10-00	<i>Michael Kiley</i>	3-17-00
10. Greg Coy	AT Nuclear Tech	<i>Greg Coy</i>	01-10-00	<i>Greg Coy</i>	3/14/00
11. MARVIN BOYLE	Simulator Engineer	<i>Marvin Boyle</i>	1/18/00	<i>Marvin Boyle</i>	3/14/00
12. MICHAEL S. BRIDGEMAN	Simulation Instruction	<i>Michael S. Bridgeman</i>	1/19/00	<i>Michael S. Bridgeman</i>	3/14/00
13. Ron Strickland	Shift Manager	<i>Ron Strickland</i>	1/19/00	<i>Ron Strickland</i>	3/15/00
14. JOHN KIMBALL	OPERATOR INSTRUCTOR	<i>John Kimball</i>	1/19/00	<i>John Kimball</i>	3/15/00
15. MARVIN LIPMAN	Nuclear Tech	<i>Marvin Lipman</i>	2/3/00	<i>Marvin Lipman</i>	3/14/00

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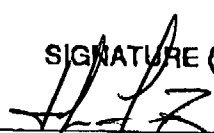
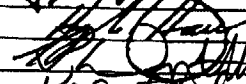
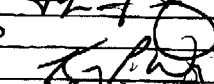
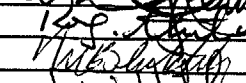
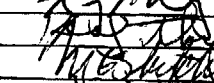
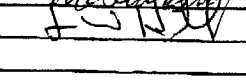
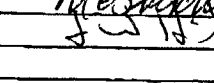
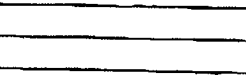
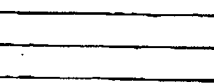
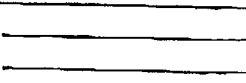
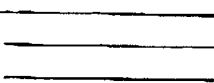
* Written exam administered on 3/3/00.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of March 6, 2000^{*} 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 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 3/6/00^{*}. 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. JOHN FINNIGAN	CRO / PROCEDURE WRITER		1/16/00		3/17/00	
2. HUGH HAWKINS	US		1/16/00		3/18/00	
3. KERRY WRIGHT	LOUT PROGRAM COOR.		3/3/00		3/18/00	
4. KEVIN THIBODEAU	LOUT INSTRUCTOR		3/2/00		3/14/00	
5. MARK SKETCHLEY	US / LOUT INSTRUCTOR		3/4/00		3/14/00	
6. JAMES W. HILL	OPS SJP		3/4/00		3/14/00	
7.						
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

NOTES:

* Written exam administered on 3/3/00.

NORTH ATLANTIC ENERGY SERVICE CORPORATION

PO Box 300
Seabrook, NH 03874

March 23, 2000

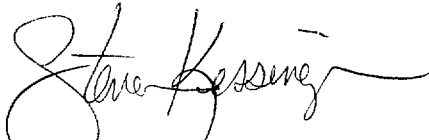
David Silk
United States Nuclear Regulatory Commission
475 Allendale Road
King of Prussia, PA 19406-1415

Dave:

Enclosed you will find the completed Forms ES-210-3 for the two remaining individuals that did not sign the post-examination section prior to the previous mailing.

This completes Seabrook's submittal of items required by ES-501.

Sincerely,



Steven Kessinger

ADAMS DOCUMENT COVER SHEET

DOCUMENT(S) TITLE: F1 - Power Plant Examination Results
Summary Sheet

ESTIMATED PAGE COUNT: 11

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PRIVACY ACT INFORMATION - FOR OFFICIAL USE ONLY**POWER PLANT EXAMINATION RESULTS SUMMARY**

Facility: Seabrook

Circle Plant Status: **Hot** / Cold

Written Examination Date: March 3, 2000

Operating Test Dates: March 6-9, 2000

NRC Examiners: David Silk (Chief), Larry Briggs, and Todd Fish

OVERALL RESULTS

Applicants: Total #		# Passed	% Passed	# Failed	% Failed
RO	N/A				
SRO	10	10	100	0	0

INDIVIDUAL RESULTS

Name	Docket # 55-()	Type (1)	Written Grade	Operating Test(2)		
				A	B	C
Kenneth G. Doyle	60963	2	93	P	P	P
C. J. Wing	62061	2	90	P	P	P
Robert K. Fanning	61645	3	85	P	P	P
Matthew A. Forrest	61835	3	86	P	P	P
Calvin R. Jarvis	61248	3	94	P	P	P
James L. Kennish	61836	3	91	P	P	P
Michael A. Taylor	61546	3	97	P	P	P
Norman W. Walker	61840	3	92	P	P	P
Nicholas G. Walts	61841	3	91	P	P	P
Richard V. Wright	61650	3	87	P	P	P

NOTES:

- (1) 1=RO; 2=SRO-I; 3=SRO-U; 4=RO-Retake; 5=SRO-I-Retake; 6=SRO-U-Retake; 7=SRO-Fuel
 (2) P=Passed; F=Failed; W=Waived

PRIVACY ACT INFORMATION - FOR OFFICIAL USE ONLY**NUREG-1021, Revision 8**