

Chief: T. McKernon

Facility/Task: W3 IN EX

Task Start Date: 01/21/2002

ITEM DESCRIPTION	DUE DATE	INIT	DATE
0 Exam/Inspection Schedule Agreement (C.1.a;C.2.a&b)	Jul 25, 2001	ATATG	10/15/2001
1 NRC Staff & Fac. Contact Assigned (C.1.c;C.2.e)	Jul 25, 2001	ATATG	10/15/2001
2 Facility contact briefed on security & other issues (C.2.c)	Jul 25, 2001	JOM	8/2/02
3 Corp. Notification Letter Sent (C.2.d) (Exams only)	Jul 25, 2001	AT	9/7/01
3a Inspection Announcement Letter Sent (PIR & LORT if req'd)	Dec 7, 2001	NK	—
4 Task Expectations, Issues, & Standards Discussed w/ BC	Oct 23, 2001	—	—
5# [Reference Material Due (C.1.d;C.3.c)]	Sep 23, 2001	—	—
6# Integrated Exam Outlines Due (C.1.d&e;C.3.d)	Sep 23, 2001	JOM	10/25/02
7# Outlines reviewed by NRC & Feedback Sent (c.2.h;C.3.e)	Oct 7, 2001	JOM	10/25/01
8# Preliminary Applications Due (C.1.j;C.2.g;ES202)	Dec 22, 2001	JOM	12/22/2001
9# Draft Exams w/ Doc./Ref. Due (C.1.d/e/f;C.3.d)	Nov 22, 2001	JOM	12/10/01
10# Peer Reviewer Initials As Reviewed All Parts*	Dec 2, 2001	JOM	12/2/01
11# NRC Supervisor. Initials Approving for Fac. Rev. (C.2.h;C.3.f)*	Dec 2, 2001	JOM	12/19/01
12# Exams Reviewed w/ Fac. (C.1.h;C.2.f&h;C.3.g)	Dec 2, 2001	JOM	12/19/01
13# Final Appl. Due & Assign. Sheet Prepared (C.1.j;C.2.h;ES202)	Jan 7, 2002	JOM	1/7/02
14# NRC Supervisor Approved Final Exams (C.2.i;C.3.h)*	Jan 14, 2002	AT	1/9/02
15# Final Appl. Rec'd & Waivers Sent (C.2.g)	Jan 14, 2002	JOM	1/15/02
16# Proctor Rules Reviewed w/ Fac. & Written Authorized (C.3.k)	Jan 14, 2002	JOM	1/14/02
17 Exam/Insp Material to Team (C.3.i)	Jan 14, 2002	JOM	1/14/02
18# Fac. graded exam & Comments Rec'd	Feb 2, 2002	JOM	1/20/02
19# NRC Written Grading Completed	Feb 5, 2002	JOM	2/4/02
20# Examiners Finished Grading Op. Tests	Feb 5, 2002	JOM	2/4/02
21# NRC Ch. Ex. Review Completed	Feb 15, 2002	JOM	2/5/02
22 NRC BC Review Completed*	Feb 16, 2002	AT	2/6/02
23# RPS/IP # Examinees Updated Before Report Issued	Feb 21, 2002	JOM	2/6/02
24 License/Denials Signed & Report Issued	Feb 21, 2002	JOM	2/5/02
25 Package Closed Out	Mar 14, 2002	JOM	2/21/02
Final Inspection Report Issued, Exam Package to OLA, Facility. Contact Notified of Results			

Not required for inspections, except as noted.

* Note Supervisor/Peer initials required.

[] Required NRC-auth. exams only.

When complete, for exams, add to pkg & fwd copy to BC, for insp, fwd orig'l to BC.

Last revised 10/15/01

S:\DRS\OB\EXAMS\W3\January 2002 Exam\exam assignment sheet.wpd

Facility: Waterford III		Date of Examination: 01/21/02		
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.	<input checked="" type="checkbox"/>	WJ	JRM
	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.	<input checked="" type="checkbox"/>	WJ	JRM
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	<input checked="" type="checkbox"/>	WJ	JRM
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	<input checked="" type="checkbox"/>	WJ	JRM
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.	<input checked="" type="checkbox"/>	WJ	JRM
	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.	<input checked="" type="checkbox"/>	WJ	JRM
	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.	<input checked="" type="checkbox"/>	WJ	JRM
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.	<input checked="" type="checkbox"/>	WJ	JRM
	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.	<input checked="" type="checkbox"/>	WJ	JRM
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	<input checked="" type="checkbox"/>	WJ	JRM
	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.	<input checked="" type="checkbox"/>	WJ	JRM
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.	<input checked="" type="checkbox"/>	WJ	JRM
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	<input checked="" type="checkbox"/>	WJ	JRM
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	<input checked="" type="checkbox"/>	WJ	JRM
	d. Check for duplication and overlap among exam sections.	<input checked="" type="checkbox"/>	WJ	JRM
	e. Check the entire exam for balance of coverage.	<input checked="" type="checkbox"/>	WJ	JRM
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	<input checked="" type="checkbox"/>	WJ	JRM
a. Author	<u>Arthur N. Vest, Jr.</u>	Printed Name / Signature	Date	10/17/01
b. Facility Reviewer (*)	<u>Robert W. Fletcher</u>			10/18/01
c. NRC Chief Examiner (#)	<u>Tom Kerney</u>			10/25/01
d. NRC Supervisor	<u>Thomas F. Stetka</u>			12/19/01

Note: * Not applicable for NRC-developed examinations.
Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.

Facility: Waterford III				Date of Exam: 1/18/2002			Exam Level: RO		
Item Description							Initial		
							a	b*	c#
1.	Questions and answers technically accurate and applicable to facility						c	20	M
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available						c	20	M
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401						c	20	M
4.	Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process.								M
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" type="checkbox"/> the audit exam was systematically and randomly developed; or <input 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 duplications; or <input type="checkbox"/> other (explain)						c	20	M
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	c	20	M		
		48	15	37					
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	c	20	M		
		50		50					
8.	References/handouts provided do not give away answers						c	20	M
9.	Question 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						c	20	M
10.	Question psychometric quality and format meet ES, Appendix B, guidelines						c	20	M
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet						c	20	M
							Printed Name / Signature		Date
a. Author	Ardam N. Vest Jr. / <i>Ardam N. Vest Jr.</i>						12/8/01		
b. Facility Reviewer(*)	ROBERT W. FLETCHER / <i>Robert W. Fletcher</i>						12-18-01		
c. NRC Chief Examiner(#)	LE-RYAN LANTIER / <i>Le-Ryan Lantier</i>						12/19/01		
d. NRC Regional Supervisor	ANTHONY GARDY / <i>Anthony Gardy</i>						12/19/01		
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.		

Facility: Waterford III		Date of Exam: 1/18/2002		Exam Level: SRO		
Item Description	Initial					
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	✓	W	M			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	✓	W	M			
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	✓	W	M			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process.			M			
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input type="checkbox"/> the licensee certifies that there is no duplications; or <input type="checkbox"/> other (explain)	✓	W	M			
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	✓	W	M
	33	15	52			
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	✓	W	M
	46		54			
8. References/handouts provided do not give away answers	✓	W	M			
9. Question 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	✓	W	M			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	✓	W	M			
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	✓	W	M			
Printed Name / Signature				Date		
a. Author	ARTHUR N. VEST Sr. <i>Arthur N. Vest Sr.</i>			12/8/01		
b. Facility Reviewer(*)	ROBERT W. FLETCHER <i>Robert W. Fletcher</i>			12-8-01		
c. NRC Chief Examiner(#)	MURRAY LANTZ <i>Murray Lantz</i>					
d. NRC Regional Supervisor	ANTHONY T. BODY <i>Anthony T. Body</i>			1/16/02		
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.						

Facility: Waterford III	Date of Examination: 01/21/02	Operating Test Number: 1
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).	✓	JES M
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	✓	JES M
c. The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	✓	JES M
d. Overlap with the written examination and between operating test categories is within acceptable limits.	✓	JES M
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	✓	JES M
2. WALK-THROUGH (CATEGORY A & B) CRITERIA		-- -- --
a. Each JPM includes the following, as applicable: + 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: - 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	✓	JES M
b. The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	✓	JES M
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.	✓	JES M
d. At least 20 percent of the JPMs on each test are new or significantly modified.	✓	JES M
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.	✓	JES M
	Printed Name / Signature	Date
a. Author	ARTHUR N. VEST JR. / <i>Arthur N. Vest Jr.</i>	12/8/01
b. Facility Reviewer(*)	ROBERT W. FLEMING / <i>Robert W. Fleming</i>	12-8-01
c. NRC Chief Examiner (#)	RYAN LANTIER / <i>Ryan Lantier</i>	12/19/01
d. NRC Supervisor	ANTHONY GOODY / <i>Anthony Goody</i>	12/19/01
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.		

Facility: Waterford III		Date of Examination: 01/21/02		Operating Test Number: 2	
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).	✓	WV	R	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	✓	WV	R	
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	✓	WV	R	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	✓	WV	R	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	✓	WV	R	
2. WALK-THROUGH (CATEGORY A & B) CRITERIA			--	--	--
a.	Each JPM includes the following, as applicable: + 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: - 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		NA	NA	NA
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.		NA	NA	NA
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.		NA	NA	NA
d.	At least 20 percent of the JPMs on each test are new or significantly modified.		NA	NA	NA
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.	✓	WV	R	
Printed Name / Signature		Date			
a. Author	ARTHUR N. VEST JR. <i>[Signature]</i>	12/8/01			
b. Facility Reviewer(*)	ROBERT W. FLETCHER <i>[Signature]</i>	12-8-01			
c. NRC Chief Examiner (#)	RYAN LAUTE / <i>[Signature]</i> / TOM KEARNEY <i>[Signature]</i>	12/19/01			
d. NRC Supervisor	ANTHONY GODY <i>[Signature]</i>	12/19/01			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.					

Facility: Waterford		Date of Exam: 1/21/02	Scenario Numbers: 1 / 2 / 3			Operating Test No.: 1		
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.					<input checked="" type="checkbox"/>	no	R
2.	The scenarios consist mostly of related events.					<input checked="" type="checkbox"/>	no	R
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)					<input checked="" type="checkbox"/>	no	R
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.					<input checked="" type="checkbox"/>	no	R
5.	The events are valid with regard to physics and thermodynamics.					<input checked="" type="checkbox"/>	no	R
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.					<input checked="" type="checkbox"/>	no	R
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.					<input checked="" type="checkbox"/>	no	R
8.	The simulator modeling is not altered.					<input checked="" type="checkbox"/>	no	R
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.					<input checked="" type="checkbox"/>	no	R
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.					<input checked="" type="checkbox"/>	no	R
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					<input checked="" type="checkbox"/>	no	R
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).					<input checked="" type="checkbox"/>	no	R
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.					<input checked="" type="checkbox"/>	no	R
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)					Actual Attributes	--	--	--
1.	Total malfunctions (5-8)				10 / 6 / 7	<input checked="" type="checkbox"/>	no	R
2.	Malfunctions after EOP entry (1-2)				3 / 1 / 1	<input checked="" type="checkbox"/>	no	R
3.	Abnormal events (2-4)				3 / 4 / 3	<input checked="" type="checkbox"/>	no	R
4.	Major transients (1-2)				3 / 2 / 1	<input checked="" type="checkbox"/>	no	R
5.	EOPs entered/requiring substantive actions (1-2)				2 / 1 / 1	<input checked="" type="checkbox"/>	no	R
6.	EOP contingencies requiring substantive actions (0-2)				3 / 0 / 1	<input checked="" type="checkbox"/>	no	R
7.	Critical tasks (2-3)				4 / 2 / 3	<input checked="" type="checkbox"/>	no	R

Facility: Waterford		Date of Exam: 1/21/02		Scenario Numbers: 1 / 2 / 3 / 4		Operating Test No.: 2	
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.	✓	NO	R			
2.	The scenarios consist mostly of related events.	✓	NO	R			
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)	✓	NO	R			
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.	✓	NO	R			
5.	The events are valid with regard to physics and thermodynamics.	✓	NO	R			
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	✓	NO	R			
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.	✓	NO	R			
8.	The simulator modeling is not altered.	✓	NO	R			
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.	✓	NO	R			
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.	✓	NO	R			
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	✓	NO	R			
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).	✓	NO	R			
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	✓	NO	R			
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes		--	--	--	
1.	Total malfunctions (5-8)	7 / 8 / 6 / 6		✓	NO	R	
2.	Malfunctions after EOP entry (1-2)	2 / 2 / 1 / 1		✓	NO	R	
3.	Abnormal events (2-4)	4 / 4 / 3 / 3		✓	NO	R	
4.	Major transients (1-2)	2 / 2 / 1 / 1		✓	NO	R	
5.	EOPs entered/requiring substantive actions (1-2)	1 / 1 / 1 / 1		✓	NO	R	
6.	EOP contingencies requiring substantive actions (0-2)	1 / 2 / 1 / 1		✓	NO	R	
7.	Critical tasks (2-3)	4 / 3 / 3 / 2		✓	NO	R	

OPERATING TEST NO.: 1

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1	1	1	1	N/A
	Normal	1	1	1	1	N/A
	Instrument / Component	4	6	4	4	N/A
	Major	1	2	2	2	N/A

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	1	1	1	N/A
	Normal	1	1	1	1	N/A
	Instrument / Component	2	4	4	3	N/A
	Major	1	2	2	2	N/A

- 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:

Arthur N. Vest Jr. 10/17/01

NRC Reviewer:

[Signature]

OPERATING TEST NO.: 2

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

As RO	Reactivity	1	1	1	1	1
	Normal	0	0	0	0	0
	Instrument / Component	2	3	2	3	2
	Major	1	1	2	1	1
SRO-I	Reactivity	0	1	1	1	1
	Normal	1	1	1	1	1
	Instrument / Component	2	5	4	5	3
	Major	1	1	2	1	1

SRO-U	Reactivity	0	1	1	1	1
	Normal	1	1	1	1	1
	Instrument / Component	2	5	4	5	3
	Major	1	1	2	1	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:

NRC Reviewer:

ARTHUR N. VEST, JR. Arthur N. Vest, 10/17/01
70 MCF

OPERATING TEST NO.: 1

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

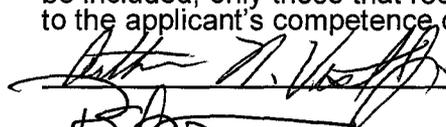
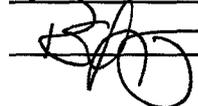
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I						
As SRO	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				

SRO-U	Reactivity	0				
	Normal	1	1	1	2	
	Instrument / Component	2	2-5	2-5	1, 3-5	
	Major	1	6,7	6	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:

NRC Reviewer:

OPERATING TEST NO.: 2

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

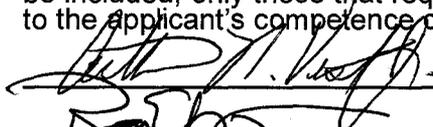
As RO	Reactivity	1				
	Normal	0				
	Instrument / Component	2				
	Major	1				
SRO-I	Reactivity	0				
	Normal	1				
	Instrument / Component	2				
	Major	1				

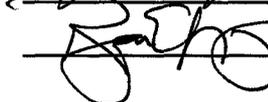
SRO-U	Reactivity	0				
	Normal	1	1	1	3	1
	Instrument / Component	2	2-6	2-6	1, 2,5	2-4
	Major	1	6,7	6,7	6,7	5

- 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:

NRC Reviewer:





OP-TEST 1

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

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: _____

NRC Reviewer: _____

OP-TEST 2

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

Notes:

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

Instructions:

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

Author:

[Signature]

NRC Reviewer:

[Signature]

Facility: Waterford III		Date of Exam: 1/18/02		Exam Level: RO/SRO	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	✓	WWS	WWS		
2. Answer key changes and question deletions justified and documented	✓	WWS	WWS		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	✓	WWS	WWS		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	✓	WWS	WWS		
5. All other failing examinations checked to ensure that grades are justified	✓	WWS	WWS		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	✓	WWS	WWS		
Printed Name / Signature			Date		
a. Grader	<u>ARTHUR W. VEST JR. / [Signature]</u>		<u>1/28/02</u>		
b. Facility Reviewer(*)	<u>ROBERT W. FLETCHER / [Signature]</u>		<u>1-29-02</u>		
c. NRC Chief Examiner (*)	<u>T.O. M'KERNON / [Signature]</u>		<u>1-31-02</u>		
d. NRC Supervisor (*)	<u>Anthony Goddy / ANTHONY T. GODDY</u>		<u>2/5/02</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Facility: Waterford III	Date of Exam: 1/18/02	Exam Level: <u>RO</u> /SRO		
Item Description	Initials			
	a	b	c	
1. Clean answer sheets copied before grading	✓	RW	JOM	
2. Answer key changes and question deletions justified and documented	✓	RW	JOM	
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	✓	RW	JOM	
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	✓	RW	JOM	
5. All other failing examinations checked to ensure that grades are justified	✓	RW	JOM	
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	✓	RW	JOM	
Printed Name / Signature		Date		
a. Grader	<u>ARTHUR N. VESS, JR. / Arthur N. Vess, Jr.</u>	<u>1/28/02</u>		
b. Facility Reviewer(*)	<u>ROBERT W. FLETCHER / Robert W. Fletcher</u>	<u>1-29-02</u>		
c. NRC Chief Examiner (*)	<u>T. D. McKERNON / T. D. McKernon</u>	<u>1-31-02</u>		
d. NRC Supervisor (*)	<u>Anthony T. Gody / ANTHONY T. GODY</u>	<u>2-5-02</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.				

Operator Licensing Exam Schedule

From 10/01/2001 To 09/30/2002

Region: 4

Phase Code: 5 Operational

Exam Week	Site/Docket No./Insp Rpt #	# Candidates	Type	Exam Author	Chief Examiner	Examiners Assigned
10/01/2001	Waterford / 05000382 / 2001007 Procedure #: 7111111B				JOHNSTON, GARY W.	JOHNSTON, GARY W. MCCRORY, STEPHEN L.
01/07/2002	Waterford / 05000382 / 2002301		Prep		MCKERNON, THOMAS O.	MCKERNON, THOMAS O.
01/07/2002	Waterford / 05000382 / 2002301		Prep		MCKERNON, THOMAS O.	MCCRORY, STEPHEN L. MCKERNON, THOMAS O.
01/21/2002	Waterford / 05000382 / 2002301	RO - 8 SROU - 3	Admin	FFF	MCKERNON, THOMAS O.	LANTZ, RYAN E. MCCRORY, STEPHEN L. MCKERNON, THOMAS O. WERNER, G E.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 1/21/02 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 1/21/02. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATENOTE
1. <u>ARTHUR VEST</u>	<u>SR. INSTRUCTOR / FACILITY EXAM LEAD</u>	<u>Arthur M. Vest Jr.</u>	<u>8/1/01</u>	<u>Arthur M. Vest Jr.</u>	<u>1/23/02</u>
2. <u>ROBERT GLAZE</u>	<u>SR. INSTRUCTOR / FACILITY EXAM LEAD</u>	<u>Robert Glaze</u>	<u>8/1/01</u>	<u>Robert Glaze</u>	<u>1/28/02</u>
3. <u>ROBERT FLETCHER</u>	<u>OPERATIONS TRAINING SUPERVISOR</u>	<u>Robert Fletcher</u>	<u>10/18/01</u>	<u>Robert Fletcher</u>	<u>1-20-02</u>
4. <u>Kirk B. Kirkpatrick</u>	<u>SR. INSTRUCTOR / FACILITY EXAM LEAD</u>	<u>Kirk B. Kirkpatrick</u>	<u>11/14/01</u>	<u>Kirk B. Kirkpatrick</u>	<u>1/24/02</u>
5. <u>DENNIS WESLEY</u>	<u>NPO / TRAINING INST.</u>	<u>Dennis Wesley</u>	<u>12/3/01</u>	<u>Dennis Wesley</u>	<u>1/28/02</u>
6. <u>Gerald Thompson</u>	<u>SR. INSTRUCTOR / VALIDATION</u>	<u>Gerald Thompson</u>	<u>12/3/01</u>	<u>Gerald Thompson</u>	<u>1/24/02</u>
7. <u>Victor Collins</u>	<u>OPS TRAINING SUPERVISOR / VALIDATION</u>	<u>Victor Collins</u>	<u>12/3/01</u>	<u>Victor Collins</u>	<u>1/24/02</u>
8. <u>William K. Gordon</u>	<u>CRS / OPERATIONS</u>	<u>William K. Gordon</u>	<u>12/3/01</u>	<u>William K. Gordon</u>	<u>1-28-02</u>
9. <u>KEITH ROCKWOOD</u>	<u>SR TECH INSTRUCTOR / TECH</u>	<u>Keith Rockwood</u>	<u>12/7/01</u>	<u>Keith Rockwood</u>	<u>1-28-02</u>
10. <u>GLENN M. DOUGLAS</u>	<u>SR. TECH SPEC IV</u>	<u>Glenn M. Douglas</u>	<u>1/7/02</u>	<u>Glenn M. Douglas</u>	<u>1/28/02</u>
11. <u>PETE PETRI</u>	<u>I&C TECH / SIMULATOR</u>	<u>Pete Petri</u>	<u>1-8-02</u>	<u>Pete Petri</u>	<u>1-28-02</u>
12. <u>James M. Labry</u>	<u>SR. INSTRUCTOR / SRO CLASS LEAD</u>	<u>James M. Labry</u>	<u>1-21-02</u>	<u>James M. Labry</u>	<u>1/24/02</u>
13. <u>THOMAS RUTHE</u>	<u>SR. INSTRUCTOR - OPERATIONS</u>	<u>Thomas Ruthe</u>	<u>1-2-02</u>	<u>Thomas Ruthe</u>	<u>1/29/02</u>
14. <u>DAVID LITOLFF</u>	<u>Shift Tech. Advisor / Simulator Exam</u>	<u>David Litolff</u>	<u>1-22-02</u>	<u>David Litolff</u>	<u>1-29-02</u>
15. <u>ARVEL HALL</u>	<u>CRS/OPS TRAINING INSTRUCTOR</u>	<u>Arvel Hall</u>	<u>1/23/02</u>	<u>Arvel Hall</u>	<u>1/29/2002</u>
16. <u>Ernest R. Vinton Jr.</u>	<u>CRS / OPS</u>	<u>Ernest R. Vinton Jr.</u>	<u>1-23-02</u>	<u>Ernest R. Vinton Jr.</u>	<u>1-28-02</u>

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE/NOTE
1.	<u>William M. Crowley</u>	<u>STA</u>	<u>William M. Crowley</u>	<u>1/23/02</u>	<u>W. Crowley</u>	<u>1-29-02</u>
2.						
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