

VARIOUS CHECKLISTS

FOR THE DAVIS-BESSE INITIAL EXAMINATION - MAY 2004

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of ~~4/23/04~~ and ~~4/27/04~~ 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.

5/3/04 and 5/10/04
~~4/23/04~~ and ~~4/27/04~~
~~5/11/04~~ and ~~5/13/04~~

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 ~~4/23/04~~ + ~~4/27/04~~. 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 C. House	Staff Instructor	<i>John C House</i>	9/9/03	<i>John C House</i>	5/10/04
2. Scott F. Lindsay	Staff Instructor	<i>Scott Lindsay</i>	1/7/04	<i>Scott Lindsay</i>	5/10/04
3. Scott Wise	Supv - Work Maint	<i>Scott Wise</i>	1/15/04	<i>Scott Wise</i>	5/11/04
4. Kim A. Styer	Qual. Instructor	<i>Kim A Styer</i>	2/10/04	<i>Kim A Styer</i>	5/10/04
5. Tom Cobblestick	Shift Engineer	<i>Tom Cobblestick</i>	2/24/04	<i>Tom Cobblestick</i>	5/10/04
6. RONALD PARK	Reactor Operator	<i>Ronald Park</i>	2/24/04	<i>Ronald Park</i>	5/11/04
7. VINCENT J. VASSILIO	Reactor Operator	<i>Vincent J Vassilio</i>	2/29/04	<i>Vincent J Vassilio</i>	5-11-04
8. Jeffrey D. P. Cuff	Unit Supervisor	<i>Jeffrey D P Cuff</i>	2-24-04	<i>Jeffrey D P Cuff</i>	5-11-04
9. Gina M. O'Leide	Nuc. Admin. Associate	<i>Gina M O'Leide</i>	2-27-4	<i>Gina M O'Leide</i>	5-11-4
10. Don L. Bondy	Staff Instructor	<i>Don L Bondy</i>	3/8/04	<i>Don L Bondy</i>	5/11/04
11. William Bonnett	Unit Supervisor	<i>William Bonnett</i>	3/9/04	<i>William Bonnett</i>	5/11/04
12. Brian R. Young	Instructor	<i>Brian R Young</i>	4/12/04	<i>Brian R Young</i>	5/11/04
13. John D. Baker	Reactor Operator	<i>John D Baker</i>	4/13/04	<i>John D Baker</i>	5/20/04
14. FRED COVY	UNIT SUPERVISOR	<i>Fred Covy</i>	4/13/4	<i>Fred Covy</i>	5/20/4
15. Tim Bolton	Reactor Operator	<i>Tim Bolton</i>	4-13-4	<i>Tim Bolton</i>	5-20-04

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 5/3/04 and 5/10/04 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 5/3/04 + 5/10/04. 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.	ANTHONY STALLARD	Ops Support Supt.	[Signature]	4/15/04	[Signature]	5/20/04
2.	LAWRENCE KENCZKA	Comp Eng Simulator Support	[Signature]	4/26/04	[Signature]	5/11/04
3.	RONALD TOTH	Comp Engineer Simulator Support	[Signature]	5/3/04	[Signature]	5/11/04
4.	David Imray	Ops Superintendent	[Signature]	05/04/04	[Signature]	5/10/04 none
5.	MARTIN J. ROIDL	QUALIFICATION INSTRUCTOR	[Signature]	05/04/04	[Signature]	5/11/04 NONE
6.	MARTIN D GORE	QUALIFICATION INSTRUCTOR	[Signature]	05/04/04	[Signature]	5/11/04 0
7.	DAVID J. LANGE	INSTRUCTOR	[Signature]	5-6-4	[Signature]	5/04
8.	STEVEN L LAENG	INSTRUCTOR	[Signature]	5-6-4	[Signature]	5/10/04
9.	ROBERTS MORRISON	INSTRUCTOR	[Signature]	5-6-04	[Signature]	5/11/04
10.	STEVEN R. MARTIN	INSTRUCTOR	[Signature]	5-6-04	[Signature]	5/10/04
11.	MARTIN D GORE	INSTRUCTOR	[Signature]			5/11/04
12.						
13.						
14.						
15.						

NOTES:

Facility: Davis Besse NPS		Date of Examination: 5/3/04 – 5/7/04		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).	JCH	SW	NAU	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	JCH	SW	NAU	
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	JCH	SW	NAU	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	JCH	SW	NAU	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	JCH	SW	NAU	
2. WALK-THROUGH CRITERIA			--	--	--
a.	Each JPM includes the following, as applicable: <input type="checkbox"/> initial conditions <input type="checkbox"/> initiating cues <input type="checkbox"/> references and tools, including associated procedures <input type="checkbox"/> reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee <input type="checkbox"/> 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	JCH	SW	NAU	
b.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	JCH	SW	NAU	
c.	At least 20 percent of the JPMs on each test are new or significantly modified.	JCH	SW	NAU	
3. SIMULATOR CRITERIA			--	--	--
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	JCH	SW	NAU	
	Printed Name / Signature	Date			
a. Author	<u>John C House / John C House</u>	<u>3/11/04</u>			
b. Facility Reviewer(*)	<u>Scott Wise / Scott Wise</u>	<u>3/11/04</u>			
c. NRC Chief Examiner (#)	<u>Nicholas A. Valos / Nicholas A. Valos</u>	<u>4/22/04</u>			
d. NRC Supervisor	<u>RD Lanksbury / RD Lanksbury</u>	<u>4/28/04</u>			
NOTE:	<ul style="list-style-type: none"> • The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required 				

Facility: Davis Besse NPS	Date of Examination: 5/3/04 – 5/7/04	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).	JCH SW JAV
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	JCH SW JAV
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	JCH SW JAV
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	JCH SW JAV
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	JCH SW JAV
2. WALK-THROUGH CRITERIA		-- -- --
a.	Each JPM includes the following, as applicable: <input type="checkbox"/> initial conditions <input type="checkbox"/> initiating cues <input type="checkbox"/> references and tools, including associated procedures <input type="checkbox"/> reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee <input type="checkbox"/> 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	JCH SW JAV
b.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	JCH SW JAV
c.	At least 20 percent of the JPMs on each test are new or significantly modified.	JCH SW JAV
3. SIMULATOR CRITERIA		-- -- --
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	JCH SW JAV
Printed Name / Signature		Date
a. Author	<u>John C House / John C House</u>	<u>3/11/04</u>
b. Facility Reviewer(*)	<u>Scott Wise / Scott Wise</u>	<u>3/11/04</u>
c. NRC Chief Examiner (#)	<u>Nicholas A. Valos / Nicholas A Valos</u>	<u>4/22/04</u>
d. NRC Supervisor	<u>RD Linksburg / RD Linksburg</u>	<u>4/25/04</u>
NOTE: • The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required		

Facility: Davis Besse NPS		Date of Examination: 5/3/04 – 5/7/04		Operating Test Number: 3	
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).		JLH	SW	NAV
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.		JLH	SW	NAV
c.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).		JLH	SW	NAV
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.		JLH	SW	NAV
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.		JLH	SW	NAV
2. WALK-THROUGH CRITERIA			--	--	--
a.	Each JPM includes the following, as applicable: <input type="checkbox"/> initial conditions <input type="checkbox"/> initiating cues <input type="checkbox"/> references and tools, including associated procedures <input type="checkbox"/> reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee <input type="checkbox"/> 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		JLH	SW	NAV
b.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.		JLH	SW	NAV
c.	At least 20 percent of the JPMs on each test are new or significantly modified.		JLH	SW	NAV
3. SIMULATOR CRITERIA			--	--	--
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.		JLH	SW	NAV
		Printed Name / Signature	Date		
a. Author	<u>John C House / John C House</u>		<u>3/11/04</u>		
b. Facility Reviewer(*)	<u>Scott Wise / Scott Wise</u>		<u>3/11/04</u>		
c. NRC Chief Examiner (#)	<u>Nicholas A. Valas / Nicholas A. Valas</u>		<u>4/22/04</u>		
d. NRC Supervisor	<u>R D Lankburg / R D Lankburg</u>		<u>4/28/04</u>		
NOTE: • The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required					

Facility: Davis-Besse NPS		Date of Examination: 5/3/04		Scenario Numbers: 1 / 2		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.	sch	SW	NAV					
2.	The scenarios consist mostly of related events.	sch	SW	NAV					
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) 	sch	SW	NAV					
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.	sch	SW	NAV					
5.	The events are valid with regard to physics and thermodynamics.	sch	SW	NAV					
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives	sch	SW	NAV					
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.	N/A	N/A	N/A					
8.	The simulator modeling is not altered.	sch	SW	NAV					
9.	The scenarios have been validated. Pursuant to 10CFR 55.46(d) any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	sch	SW	NAV					
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.	sch	SW	NAV					
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	sch	SW	NAV					
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).	sch	SW	NAV					
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	sch	SW	NAV					
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)		Actual Attributes		-	-	-			
1.	Total malfunction (5-8)	7 / 9	sch	SW	NAV				
2.	Malfunctions after EOP entry (1-2)	2 / 1	sch	SW	NAV				
3.	Abnormal events (2-4)	4 / 1	sch	SW	NAV				
4.	Major transients (1-2)	1 / 1	sch	SW	NAV				
5.	EOPs entered/requiring substantive actions (1-2)	1 / 2	sch	SW	NAV				
6.	EOP contingencies requiring substantive actions (0-2)	2 / 1	sch	SW	NAV				
7.	Critical tasks (2-3)	2 / 2	sch	SW	NAV				

Facility: Davis-Besse NPS		Date of Examination: 5/3/04		Scenario Numbers: 1 / 2 / 3		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.	SLH	SW	NAV					
2.	The scenarios consist mostly of related events.	SLH	SW	NAV					
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) 	SLH	SW	NAV					
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.	SLH	SW	NAV					
5.	The events are valid with regard to physics and thermodynamics.	SLH	SW	NAV					
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives	SLH	SW	NAV					
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.	N/A	N/A	N/A					
8.	The simulator modeling is not altered.	SLH	SW	NAV					
9.	The scenarios have been validated. Pursuant to 10CFR 55.46(d) any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	SLH	SW	NAV					
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.	SLH	SW	NAV					
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	SLH	SW	NAV					
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).	SLH	SW	NAV					
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	SLH	SW	NAV					
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)		Actual Attributes		-	-	-			
1.	Total malfunction (5-8)	7	9	5	SLH	SW	NAV		
2.	Malfunctions after EOP entry (1-2)	2	1	1	SLH	SW	NAV		
3.	Abnormal events (2-4)	4	1	2	SLH	SW	NAV		
4.	Major transients (1-2)	1	1	1	SLH	SW	NAV		
5.	EOPs entered/requiring substantive actions (1-2)	1	2	2	SLH	SW	NAV		
6.	EOP contingencies requiring substantive actions (0-2)	2	1	0	SLH	SW	NAV		
7.	Critical tasks (2-3)	2	2	1	SLH	SW	NAV		

Facility: Davis-Besse NPS		Date of Examination: 5/3/04		Scenario Numbers: 1 / 2 / 3		Operating Test No.: 3			
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.	SLH	SW	NAV					
2.	The scenarios consist mostly of related events.	SLH	SW	NAV					
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) 	SLH	SW	NAV					
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.	SLH	SW	NAV					
5.	The events are valid with regard to physics and thermodynamics.	SLH	SW	NAV					
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives	SLH	SW	NAV					
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.	N/A SLH	N/A	N/A					
8.	The simulator modeling is not altered.	SLH	SW	NAV					
9.	The scenarios have been validated. Pursuant to 10CFR 55.46(d) any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	SLH	SW	NAV					
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.	SLH	SW	NAV					
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	SLH	SW	NAV					
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).	SLH	SW	NAV					
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	SLH	SW	NAV					
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)		Actual Attributes		-	-	-			
1.	Total malfunction (5-8)	7	9	5	SLH	SW	NAV		
2.	Malfunctions after EOP entry (1-2)	2	1	1	SLH	SW	NAV		
3.	Abnormal events (2-4)	4	1	2	SLH	SW	NAV		
4.	Major transients (1-2)	1	1	1	SLH	SW	NAV		
5.	EOPs entered/requiring substantive actions (1-2)	1	2	2	SLH	SW	NAV		
6.	EOP contingencies requiring substantive actions (0-2)	2	1	0	SLH	SW	NAV		
7.	Critical tasks (2-3)	2	2	1	SLH	SW	NAV		

OPERATING TEST NO.: 1

Applicant Type	Evolution Type	Minimum Number	Scenario Number							
			1		2		3		4	
			RO	BOP	RO	BOP	RO	BOP	RO	BOP
RO	Reactivity	1*	1	0	6	0				
	Normal	1*	0	0	0	0				
	Instrument / Component	4*	3,7,8	2,4,5	1,5,8	2,4,7,9				
	Major	1	6	6	10	10				
As RO	Reactivity	1*								
	Normal	0								
	Instrument / Component	2*								
	Major	1								
As SRO	Reactivity	0								
	Normal	1*								
	Instrument / Component	2*								
	Major	1								
SRO-U	Reactivity	0	1	----	6	----				
	Normal	1*	0	----	0	----				
	Instrument / Component	2*	2, 3, 4, 5, 7, 8	----	1, 2, 3, 4, 5, 7, 8, 9	----				
	Major	1	6	----	10	----				

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

Author: John C House / John C. House

NRC Reviewer: Nicholas A. Valos / Nicholas A. Valos

OPERATING TEST NO.: 2

Applicant Type	Evolution Type	Minimum Number	Scenario Number							
			1		2		3		4	
			RO	BOP	RO	BOP	RO	BOP	RO	BOP
RO	Reactivity	1*	1	0	6	0	1	0		
	Normal	1*	0	0	0	0	0	0		
	Instrument / Component	4*	3,7,8	2,4,5	1,5,8	2,4,7,9	2,3	5,7		
	Major	1	6	6	10	10	6	6		
As RO	Reactivity	1*	1	0	6	0	1	0		
	Normal	0	0	0	0	0	0	0		
	Instrument / Component	2*	3,7,8	2,4,5	1,5,8	2,4,7,9	2,3	5,7		
	Major	1	6	6	10	10	6	6		
SRO-I										
As SRO	Reactivity	0	1	---	6	---	1	---		
	Normal	1*	0	---	0	---	0	---		
	Instrument / Component	2*	2,3,4,5,7,8	---	1,2,3,4,5,7,8,9	---	2,3,4,5,7	---		
	Major	1	6	---	10	---	6	---		
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.5.d) but must be significant per Section C.2.a of Appendix D. * Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (3) Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicants competence count toward the minimum requirement.

Author: John C House / John C. House

NRC Reviewer: Nicholas A. Valos / Nicholas A. Valos

OPERATING TEST NO.: 3

Applicant Type	Evolution Type	Minimum Number	Scenario Number							
			1		2		3		4	
			RO	BOP	RO	BOP	RO	BOP	RO	BOP
RO	Reactivity	1*								
	Normal	1*								
	Instrument / Component	4*								
	Major	1								
As RO	Reactivity	1*	1	0	6	0	1	0		
	Normal	0	0	0	0	0	0	0		
	Instrument / Component	2*	3,7,8	2,4,5	1,5,8	2,4,7,9	2,3	5,7		
	Major	1	6	6	10	10	6	6		
SRO-I	Reactivity	0	1	---	6	---	1	---		
	Normal	1*	0	---	0	---	0	---		
	Instrument / Component	2*	2,3,4,5,7,8	---	1,2,3,4,5,7,8,9	---	2,3,4,5,7	---		
	Major	1	6	---	10	---	6	---		
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.5.d) but must be significant per Section C.2.a of Appendix D. * Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
 - (3) Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicants competence count toward the minimum requirement.

Author: John C House / John C. House

NRC Reviewer: Nicholas A. Valos / Nicholas A. Valos

Competencies	SRO				RO				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	2,3,4,5,6	1,2,4,8	6	----	2,3,6,7,8	1,5,8,10	2,3,6	----	2,3,4,5,6	2,4,7,9	5,6,7	----
Understand Plant and System Response	2,3,4,5,6	2,4,8,10	2,5	----	3,6,7	5	2,3	----	4,5,6	2,4,9	5	----
Comply With and Use Procedures (1)	1,2,3,4,5,6,7,8	1,2,3,4,5,6,7,8,9,10	1,2,3,5,6,7	----	1,3,6,7,8	1,5,6,7,8,10	1,2,3,6	----	1,2,4,5,6	2,4,7,9,10	5,6,7	----
Operate Control Boards (2)	----	----	----	----	1,3,5,6,7,8	1,5,6,8,10	1,2,3,5,6	----	2,4,5,6	2,4,7,9,10	6,7	----
Communicate and Interact With the Crew	1,2,3,4,5,6	2,4,5,6,8,10	1,2,3,5,6	----	1,2,3,6,7,8	1,3,5,7,8,10	1,2,3,6	----	1,2,4,5,6	2,4,7,9,10	5,6,7	----
Demonstrate Supervisory Ability (3)	1,3,5	3,5,10	1,5,6	----	----	----	----	----	----	----	----	----
Comply With and Use Tech. Specs. (3)	3,5	1,3	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:

John C House / John C. House

NRC Reviewer:

Nicholas A. Valos / Nicholas A. Valos

Facility: <u>DAVIS-BESSE</u>		Date of Exam: <u>5/3-5/7/04</u>		Exam Level: <u>RO/SRO</u>		
Item Description	Initial					
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	ND	SW	NAU			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	ND	SW	NAU			
3. SRO questions are appropriate per Section D.2.d of ES-401	ND	SW	NAU			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process	ND	SW	NAU			
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 duplication; or <input type="checkbox"/> other (explain)	ND	SW	NAU			
6. Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest modified); enter the actual RO/SRO-only question distribution at right	Bank	Modified	New	ND	SW	NAU
	35 / 5	14 / 3	26 / 17			
7. Between 50 and 60 percent of the questions on the RO exam are written at the comprehension / analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual question RO/SRO question distribution(s) at right	Memory		C/A	ND	SW	NAU
	34 / 9		41 / 16			
8. References/handouts provided do not give away answers	ND	SW	NAU			
9. Question distribution meets previously approved examination outline; deviations are justified	ND	SW	NAU			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	ND	SW	NAU			
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet	ND	SW	NAU			
			Printed Name / Signature	Date		
a. Author	<u>Scott F. Lindsay / Scott Lindsay</u>			<u>4/16/04</u>		
b. Facility Reviewer(*)	<u>Scott Wise / Scott Wise</u>			<u>4/19/04</u>		
c. NRC Chief Examiner(#)	<u>Nicholas A. Valos / Nicholas A. Valos</u>			<u>4/22/04</u>		
d. NRC Regional Supervisor	<u>RD Linksburg / RD Linksburg</u>			<u>4/28/04</u>		
<u>updated to reflect changes from NRC validation work comments</u>						
Note: * The facility reviewer's initials/signature is not applicable for NRC-developed examinations; # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required						

Facility: Davis-Besse		Date of Exam: 05/10/04		Exam Level: RO/SRO	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	RKW	jm	nav		
2. Answer key changes and question deletions justified and documented	N/A RKW	N/A jm	N/A nav		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	RKW	jm	nav		
4. Grading for all borderline cases (80 +/- 2% overall and 70 +/- 4% on the SRO-only) reviewed in detail	RKW	jm	nav		
5. All other failing examinations checked to ensure that grades are justified	RKW N/A	N/A jm	N/A nav		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	RKW	jm	nav		
Printed Name / Signature		Date			
a. Grader	<u>Raymond K. Walton / Raymond K. Walton</u>	<u>5/12/04</u>			
b. ^{NRC} Facility Reviewer(*)	<u>Del R. McNeil / Del R. McNeil</u>	<u>5/12/04</u>			
c. NRC Chief Examiner (*)	<u>Nicholas A. Valos / Nicholas A. Valos</u>	<u>5/13/04</u>			
d. NRC Supervisor (*)	<u>R D Lanksbury / R D Lanksbury</u>	<u>6/3/04</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Facility: Davis-Besse		Date of Exam: 05/10/04		Exam Level: (RO)SRO	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	RKW	bn	nav		
2. Answer key changes and question deletions justified and documented	N/A RKW	N/A bn	N/A nav		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	RKW	bn	nav		
4. Grading for all borderline cases (80 +/- 2% overall and 70 +/- 4% on the SRO-only) reviewed in detail	N/A RKW	N/A bn	N/A nav		
5. All other failing examinations checked to ensure that grades are justified	N/A RKW	N/A bn	N/A nav		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	RKW	bn	nav		
Printed Name / Signature		Date			
a. Grader	<u>Raymond Keith Walter / Raymond Keith Walter</u>	<u>5/12/04</u>			
b. ^{NRC} Facility Reviewer(*)	<u>Dell R. McNeil / Dell R. McNeil</u>	<u>5/12/04</u>			
c. NRC Chief Examiner (*)	<u>Nicholas A. Valos / Nicholas A. Valos</u>	<u>5/13/04</u>			
d. NRC Supervisor (*)	<u>RD Lanksbury / RD Lanksbury</u>	<u>6/3/04</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					