

VARIOUS CHECKLISTS

FOR THE DAVIS-BESSE INITIAL EXAMINATION - JULY 2005

Facility: Davis-Besse		Date of Examination: 7/18-22; 25-28/05
Developed by: Written - Facility <input checked="" type="checkbox"/> NRC <input type="checkbox"/> // Operating - Facility <input checked="" type="checkbox"/> NRC <input type="checkbox"/>		
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	MEB
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	MEB
-120	3. Facility contact briefed on security and other requirements (C.2.c)	MEB
-120	4. Corporate notification letter sent (C.2.d)	MEB
{-90}	5. Reference material due (C.1.e; C.3.e; Attachment 2) MEB	
{-75}	6. Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)	MEB
{-70}	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	MEB
{-45}	8. Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6, and any Form ES-201-3 updates), and reference materials due (C.1.e, f, g and h; C.3.d)	MEB
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	MEB
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	MEB
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	MEB
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	MEB
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	MEB
-7	14. Final applications reviewed; 1 or 2 (if >10) applications audited to confirm qualifications / eligibility; and examination approval and waiver letters sent (C.2.i; Attachment 4; ES-202, C.2.e; ES-204)	MEB
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	MEB
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	MEB
<p>* Target dates are generally based on facility-prepared examinations and 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] {Does not apply} to examinations prepared by the NRC.</p>		

Facility:	Davis Besse	Date of Examination:	7/18/2005	
Item	Task Description	Initials		
		a	b*	c#
W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	JGA	JGA Cib	RKW
	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.	JGA	JGA Cib	RKW
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	JGA	JGA Cib	RKW
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	JGA	JGA Cib	RKW
S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	JGA	JGA Cib	RKW
	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; and ensure that 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 on subsequent days.	JGA	JGA Cib	RKW
	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.	JGA	JGA Cib	MGB
W / T	a. Verify that systems walk-through outline meets the criteria specified on Form ES-301-2:	JGA	JGA Cib	MGB
	(1) the outline(s) contain(s) the required number of control room and in-plant tasks, distributed among the safety functions as specified on the form	JGA	JGA Cib	RKW
	(2) task repetition from the last two NRC examinations is within the limits specified on the form,	JGA	JGA Cib	MGB
	(3)* no tasks are duplicated from the applicants' audit test(s)	JGA	JGA Cib	MGB *
	(4) the number of new or modified tasks meets or exceeds the minimum number on the form.	JGA	JGA Cib	RKW
	(5) the number of alternate path, low-power, emergency and RCA tasks meet the criteria on the form.	JGA	JGA Cib	RKW
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1:	JGA	JGA Cib	MGB
	(1) the tasks are distributed among the topics as specified on the form	JGA	JGA Cib	RKW
	(2) at least one task is new or significantly modified	JGA	JGA Cib	RKW
	(3) no more than one task is repeated from the last two NRC licensing examinations	JGA	JGA Cib	MGB
c. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	JGA	JGA Cib	RKW	
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.	JGA	JGA Cib	RKW
	b. Assess whether the 10CFR 55.41/43 and 55.45 sampling is appropriate.	JGA	JGA Cib	MGB
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	JGA	JGA Cib	RKW
	d. Check for duplication and overlap among exam sections.	JGA	JGA Cib	MGB
	e. Check the entire exam for balance of coverage.	JGA	JGA Cib	MGB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	JGA	JGA Cib	MGB
a. Author	Joseph G. Arsenault	Joseph G. Arsenault		Date 4/4/05
b. Facility Reviewer (*)	Craig A. G. 113	Craig A. G. 113		4/14/05
c. NRC Chief Examiner (#)	Ronald Keith Walter	Raymond K. Walter	Michael E. Biehl	4/21/05 4/28/05
d. NRC Supervisor	Aironari Peterson	Aironari Peterson		4/28/05

NOTE: # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.

* Will verify after audit exams administered. MGB prepared.

DAVIS-BESSE

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 7/18/05 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 (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). 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 7/18-7/25/05 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. James K. Lloyd	Exam Developer	James K. Lloyd	11/15/04			
2. Jacqueline G. Schukly	Admin	Jacqueline G. Schukly	12/29/04			
3. Joseph G. Arsenault	Exam Developer	Joseph G. Arsenault	2/10/05			
4. Kim H. Stigel	Simulator Operator	Kim H. Stigel	2/28/05		8/12/05	
5. John C. O'Hara	Staff Instructor	John C. O'Hara	2/29/05	J.C. O'Hara	7/29/05	
6. Craig A. Gullig	Ops Shift Manager	Craig A. Gullig	4/12/05	Craig A. Gullig	8/1/05	
7. Daniel T. Hartnett	Ops Shift Manager	Daniel T. Hartnett	4-26-05	Daniel T. Hartnett	8-2-05	
8. Robert H. Becker	Reactor Operator	Robert H. Becker	4/26/05	Robert H. Becker	8/1/05	
9. Paul Ferrell	Reactor Operator	Paul K. Ferrell	4/26/05	Paul Ferrell	8/1/05	
10. BAKER, John D.	Reactor Operator	John D. Baker	4/26/05	John D. Baker	8/1/05	
11. Wise, Scott	Unit Supervisor	Scott Wise	5/19/05	Scott Wise	8/1/05	
12. Scherger, Gina	Nuc. Admin. Associate	Gina Scherger	5/25/05	Gina Scherger	7/29/05	
13. STALLARD, Anthony	Ops Team Supervisor	Anthony Stallard	5/25/05	Anthony Stallard	7/29/05	
14. Trump, Mark	Mng. Trng	Mark Trump	6/15/05	Mark Trump	7/29/05	
15. STEVEN LAURE	Simulator Operator	Steven Laure	7/18/05	Steven Laure	7/29/05	

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 7/18/05 + 7/25/05 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 (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). 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 _____. 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.	DAVID LANGE	INSTRUCTOR	<i>David Lange</i>	7-20-05	<i>David Lange</i>	7-29-05
2.	Lee D. Klett	Instructor	<i>Lee D. Klett</i>	7/20/05	<i>Lee D. Klett</i>	8/1/05
3.	HARRY KENCOPKA	Sim SOFTWARE	<i>Harry Kencopka</i>	7/20/05	<i>Harry Kencopka</i>	7/28/05
4.	Steven K. Martin	Instructor	<i>Steven K. Martin</i>	7/25/05	<i>Steven K. Martin</i>	7/29/05
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NOTES:

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations procedures (or the work) on 7/18-7/25 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 (or administered these licensing examinations from this date until completion of examination administration, except as specifically noted below or authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training (or provide direct or indirect feedback). 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 enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any incident or suggestion that examination security may have been compromised.

2. Exam-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 7/18-7/25. From the date that I entered into this security agreement until the completion of examination administration I will 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
1.	James K. Lloyd	Exam Developer	James K. Lloyd	11/15/04	See other page	
2.	William G. Schell	Author	William G. Schell	11/15/04	William G. Schell	
3.	JOSEPH ARSENAULT	AUTHOR - CONSULTANT	Joseph Arsenault	12/30/04	Joseph Arsenault	
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PROT James

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1. Pre-Examination *DAVIS-BESSE*

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of *7/18/05* 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 (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). 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 *7/18-7/25*. 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.	<i>James K. Lloyd</i>	<i>Exam Developer</i>	<i>James K Lloyd</i>	<i>11/15/04</i>	<i>James K Lloyd</i>	<i>7/29/05</i>
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JUL 30 05 03:21P
JUL 29 05 05:32P

Joe Arsenault
James Lloyd

(623) 535-1307
856-339-4008

P.1
P.3

Facility:	Davis Besse	Date of Examination:	7/18/2005	Operating Test Number:	NRC	
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).			JPL	I nd	MES
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.			JPL	I nd	MES
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).			JPL	I nd	MES
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.			JPL	I nd	MES
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.			JPL	I nd	MES
2. WALK-THROUGH 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 * operationally important 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			JPL	I	MES
b.	Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.			JPL	I	MES
3. SIMULATOR CRITERIA						
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.				JPL	I	MES
		Printed Name / Signature		Date		
a.	Author	Joseph G. Arsenault	<i>Joseph G. Arsenault</i>	5/22/2005		
b.	Facility Reviewer (*)	JC House / JC House	<i>A. SHILLARD</i>	5/31/05		
c.	NRC Chief Examiner (#)	Michael E. Bielby	<i>Michael E. Bielby</i>	6/7/05		
d.	* NRC Supervisor	Hironori Peterson	<i>Hironori Peterson</i>	7/15/05		
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.						

* see page ES-401-600

Facility:	Davis Besse	Date of Exam:	7/18/2005	Scenario Numbers:	1/2/3/4/5	Operating Test No.:	NRC			
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.					JAB	S	MSB		
2.	The scenarios consist mostly of related events.					JAB	S	MSB		
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) 					JAB	S	MSB		
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.					JAB	S	MSB		
5.	The events are valid with regard to physics and thermodynamics.					JAB	S	MSB		
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.					JAB	S	MSB		
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.					N/A	N/A	MSB		
8.	The simulator modeling is not altered.					JAB	S	MSB		
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the referenced plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.					JAB	S	MSB		
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.					JAB	S	MSB		
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					JAB	S	MSB		
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).					JAB	S	MSB		
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.					JAB	S	MSB		
Target Quantitative Attributes (Per Scenario; See Section D.5.d)						Actual Attributes (Scenario)				
						1	2	3	4	5
1.	Total malfunctions (5-8)	6	6	7	6	6	JAB	S	MSB	
2.	Malfunctions after EOP entry (1-2)	2	2	1	1	2	JAB	S	MSB	
3.	Abnormal events (2-4)	2	3	3	4	3	JAB	S	MSB	
4.	Major transients (1-2)	2	1	1	1	1	JAB	S	MSB	
5.	EOPs entered/requiring substantive actions (1-2)	2	2	2	1	1	JAB	S	MSB	
6.	EOP contingencies requiring substantive actions (0-2)	0	0	1	1	1	JAB	S	MSB	
7.	Critical tasks (2-3)	2	2	2	2	2	JAB	S	MSB	

Facility:		Davis Besse		Date of Exam:		7/18/2005		Operating Test No.:		NRC							
A P P L I C A N T	E V E N T T Y P E	Scenarios															
		1			2			3			4			T O T A L	M I N I M U M		
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
SROI-1	RX				2								1	1	1	0	
	NOR	3											1	1	1	1	
	I/C	2,4			3,4,6								5	4	4	2	
	MAJ	5,7			5								3	2	2	1	
	TS	1,3											2	0	2	2	
SROI-2	RX				2								1	1	1	0	
	NOR	3											1	1	1	1	
	I/C	2,4			3,4,6								5	4	4	2	
	MAJ	5,7			5								3	2	2	1	
	TS	1,3											2	0	2	2	
SROI-3	RX							1					1	1	1	0	
	NOR	3											1	1	1	1	
	I/C	2,4						3,4,8,9					6	4	4	2	
	MAJ	5,7						7					3	2	2	1	
	TS	1,3											2	0	2	2	
SROI-4	RX							1					1	1	1	0	
	NOR	3											1	1	1	1	
	I/C	2,4						3,4,8,9					6	4	4	2	
	MAJ	5,7						7					3	2	2	1	
	TS	1,3											2	0	2	2	

A P P L I C A N T	E V E N T T Y P E	Scenarios															
		1			2			3			4			T O T A L	M I N I M U M		
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
SROI-5	RX								1					1	1	1	0
	NOR													1	1	1	1
	I/C				2,3,4				3,4,8,9					7	4	4	2
	MAJ				5				7					2	2	2	1
	TS				1,4									2	0	2	2
SROI-6	RX					2								1	1	1	0
	NOR											3		1	1	1	1
	I/C					3,4,6						1,2,4,5		7	4	4	2
	MAJ					5						6		2	2	2	1
	TS											1,5		2	0	2	2
SROI-7	RX								1					1	1	1	0
	NOR													1	1	1	1
	I/C				2,3,4				3,4,8,9					7	4	4	2
	MAJ				5				7					2	2	2	1
	TS				1,4									2	0	2	2
SROI-8	RX					2								1	1	1	0
	NOR											3		1	1	1	1
	I/C					3,4,6						1,2,4,5		7	4	4	2
	MAJ					5						6		2	2	2	1
	TS											1,5		2	0	2	2

A P P L I C A N T	E V E N T T Y P E	Scenarios													T O T A L	M I N I M U M		
		1			2			3			4							
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N							
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P					
RO-1	RX		3											1	1	1	0	
	NOR													0	1	1	1	
	I/C		2,4, 6,8				3,6, 7							7	4	4	2	
	MAJ		5,7				5							3	2	2	1	
	TS													0	0	2	2	
RO-2	RX		3											1	1	1	0	
	NOR													0	1	1	1	
	I/C		2,4, 6,8				3,6, 7							7	4	4	2	
	MAJ		5,7				5							3	2	2	1	
	TS													0	0	2	2	
RO-3	RX		3											1	1	1	0	
	NOR													0	1	1	1	
	I/C		2,4, 6,8							2,6, 8				7	4	4	2	
	MAJ		5,7							7				3	2	2	1	
	TS													0	0	2	2	
RO-4	RX		3											1	1	1	0	
	NOR													0	1	1	1	
	I/C		2,4, 6,8							2,6, 8				7	4	4	2	
	MAJ		5,7							7				3	2	2	1	
	TS													0	0	2	2	

Instructions:

1. Circle the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
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 1-for-1 basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility: Davis Besse		Date of Examination: 7/18/2005					Operating Test No.: NRC								
Competencies	APPLICANTS														
	SRO					RO					BOP				
	SCENARIO					SCENARIO					SCENARIO				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Interpret/Diagnose Events and Conditions	2,4 .6, 7	1,2 .3, 4,6 .7	2,3 .4, 6,9	1,2 .4, 5,6	2,3 .5, 8	2,4 .6, 7	1,3 .4, 9	3,4 .9, 7	1,2 .5, 7	2,4 .5	4,6	1,2 .3, 6,7	2,3 .6	2,4	3,7 .8
Comply With and Use Procedures (1)	2,4 .5, 6,8	1,2 .3, 4,5 .6	1,2 .4, 6,9	1,2 .3, 4,5 .6	1,2 .5, 8	2,3 .4, 6,8	1,3 .4, 5	1,2 .3, 4,9	1,3 .5, 6,7	1,2 .5	2,4 .6	1,2 .3, 7	1,2 .6, 7	2,3 .4	1,3 .5, 7,8
Operate Control Boards (2)	NA	NA	NA	NA	NA	2,3 .4, 6,8	3,4 .5	1,3 .4, 9	1,3 .5, 6,7	1,2 .5	4,6	1,2 .3, 7	1,2 .6, 7	2,4	1,3 .7, 8
Communicate and Interact	1-8	1-7	1-9	1-6	1-8	2,3 .4, 6,8	1,3 .4, 5	1,3 .4, 6,9	1,2 .3, 5,6 .7	1,2 .5, 8	2,3 .4, 6	1,2 .3, 6,7	1,2 .3, 6,7	2,3 .4	1,3 .5, 7,8
Demonstrate Supervisory Ability (3)	1-8	1-7	1-9	1-6	1-8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Comply With and Use Tech. Specs. (3)	1,3	1,4	4,5	1,5	3,4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
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 applicable competency for every applicant.

Facility:	Davis Besse	Date of Exam:	7/18/2005	Exam Level:	RO/SRO	
Item Description				Initial		
				a	b*	c#
1.	Questions and answers technically accurate and applicable to facility.			JAB	1 no	NAV
2.	a. NRC K/As referenced for all questions. b. Facility learning objectives referenced as available.			JAB	1 no	NAV
3.	SRO questions are appropriate in accordance with Section D.2.d of ES-401			JAB	1 no	NAV
4.	The sampling process was random and systematic. (If more than 4 RO and 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL Program Office)			JAB	1 no	NAV
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 checked="" type="checkbox"/> the licensee certifies that there is no duplication, or <input type="checkbox"/> other (explain)			JAB	1 no	NAV
6.	Bank use meets limits (no more than 75 percent from the bank at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.	Bank NS 39 / 10 38	Modified NS 6 / 1 7	New 30/14	JAB	1 no NAV
7.	Between 50 and 60 percent of the question on the RO exam are written at the comprehension/analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right	Memory NS 35 / 9 34	C/A NS 42 / 16 41		JAB	1 no NAV
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.			JAB	1 no	NAV
9.	Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the tier to which they are assigned; deviations are justified.			JAB	1 no	NAV
10.	Question psychometric quality and format meet the guidelines in ES Appendix B.			JAB	1 no	NAV
11.	The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet.			JAB	1 no	NAV
		Printed Name / Signature		Date		
a.	Author	Joseph G. Arsenault <i>Joseph G. Arsenault</i>		5/25/2005		
b.	Facility Reviewer (*)	J.C. House / J.C. House <i>A. R. SMALLARD</i>		5/31/05		
c.	NRC Chief Examiner (#)	Michael E. Bielby / <i>Michael E. Bielby</i>		6/7/05		
d.	*NRC Regional Supervisor	Hironori Peterson / <i>Hironori Peterson</i>		7/15/05		
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.						

* Reviewed comments w/ acting branch ch. EP prior to discussion w/ licensee on 6/7/05

Facility: <u>Davis-Besse</u>		Date of Exam: <u>7/28/05</u>		Exam Level: RO <input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	<u>T</u>	<u>MSB</u>	<u>MSB</u>		
2. Answer key changes and question deletions justified and documented	<u>T</u>	<u>MSB</u>	<u>MSB</u>		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>T</u>	<u>MSB</u>	<u>MSB</u>		
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	<u>T</u>	<u>MSB</u>	<u>MSB</u>		
5. All other failing examinations checked to ensure that grades are justified	<u>N/A</u>	<u>N/A</u>	<u>MSB</u>		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<u>T</u>	<u>MSB</u>	<u>MSB</u>		
Printed Name/Signature		Date			
a. Grader	<u>John C House / John C House</u>	<u>8/1/05</u>			
b. Facility Reviewer(*)	<u>Anthony Stallard / [Signature]</u>	<u>8/2/05</u>			
c. NRC Chief Examiner (*)	<u>Michael E. Bielby / Michael E. Bielby</u>	<u>8/9/05</u>			
d. NRC Supervisor (*)	<u>Charles, Kulin</u>	<u>8/5/05</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					