

Facility: BEAVER VALLEY 2 Date of Examination: 8/16/13/20 2010

 Developed by: Written - Facility NRC // Operating - Facility NRC

Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	
-120	3. Facility contact briefed on security and other requirements (C.2.c)	
-120	4. Corporate notification letter sent (C.2.d)	
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 3)]	
{-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)	
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	
{-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)	
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	
-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 5; ES-202, C.2.e; ES-204)	
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	

* 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.

Facility: **Beaver Valley Unit 2** Date of Examination: **Weeks of 8/16 & 8/23 2010**

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.	RJB	QWA	✓	
	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.	RJB	QWA	✓	
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	RJB	QWA	✓	
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	RJB	QWA	✓	
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, technical specifications and major transients.	RJB	QWA	✓	
	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 applicant's audit test(s), and scenarios will not be repeated on subsequent days.	RJB	QWA	✓	
	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.	RJB	QWA	✓	
3. W / T	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: (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. (2) task repetition from the last two NRC examinations is within the limits specified on the form. (3) no tasks are duplicated from the applicant's audit test(s). (4) the number of new or modified tasks meets or exceeds the minimums specified on the form. (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.	RJB	QWA	✓	
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form. (2) at least one task is new or significantly modified. (3) no more than one task is repeated from the last two NRC licensing examinations.	RJB	QWA	✓	
	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.	RJB	QWA	✓	
	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.	RJB	QWA	✓
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	RJB	QWA	✓	
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	RJB	QWA	✓	
d. Check for duplication and overlap among exam sections.	RJB	QWA	✓		
e. Check the entire exam for balance of coverage.	RJB	QWA	✓		
f. Assess whether the exam fits the appropriate job level (RO or SRO).	RJB	QWA	✓		

	Printed Name / Signature	Date
a. Author	Richard J. Brooks / <i>RJB</i>	6/1/10
b. Facility Reviewer (*)	DAVID W HELD / <i>David W Held</i>	6/1/10
c. NRC Chief Examiner (#)	J. J. ... / <i>...</i>	6/3/10
d. NRC Supervisor	Sam Hansell / <i>SH</i>	6/30/10

Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.
* Not applicable for NRC-prepared examination outlines

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/16 & 8/23 2010 at Beaver Valley Unit 2 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

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Richard J. Brooks</u>	<u>FLEET Exam LEAD</u>	<u>[Signature]</u>	<u>1/13/10</u>			
2. <u>DAVE HELD</u>	<u>SM Facility Reviewer</u>	<u>[Signature]</u>	<u>1/13/10</u>			
3. <u>Jan Forbes</u>	<u>Exam Developer</u>	<u>[Signature]</u>	<u>1/13/10</u>			
4. <u>PAUL EISENMANN</u>	<u>EXAM DEVELOPER</u>	<u>[Signature]</u>	<u>1/19/10</u>			
5. <u>WILLIAM J. RUDOLPH II</u>	<u>SUPP. OPS. TRAINING</u>	<u>[Signature]</u>	<u>1/22/10</u>			
6. <u>Russell C. Fenfield</u>	<u>Sim developer</u>	<u>[Signature]</u>	<u>3/29/10</u>			
7. <u>William Brooks</u>	<u>REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>5-17-10</u>			
8. <u>RICHARD E WORST</u>	<u>REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>5-17-10</u>			
9. <u>Donna Hundenski</u>	<u>Intermed. Clerk / Clerical</u>	<u>[Signature]</u>	<u>5/17/10</u>			
10. <u>William Koester</u>	<u>Hardware Support</u>	<u>[Signature]</u>	<u>5-18-10</u>			
11. <u>Hugh E Bruner</u>	<u>Hardware Support</u>	<u>[Signature]</u>	<u>5-18-10</u>			
12. <u>R. GREG LOOSE</u>	<u>SHIFT MANAGER</u>	<u>[Signature]</u>	<u>5-18-10</u>			
13. <u>Ray Intinnen</u>	<u>Unit Supervisor</u>	<u>[Signature]</u>	<u>5-18-10</u>			
14. _____	_____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____	_____

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2. <u>DAVE HELD SM</u>	<u>Facility Reviewer</u>	<u>[Signature]</u>	<u>1/13/10</u>			
3. <u>Jan Forbes</u>	<u>Exam Developer</u>	<u>[Signature]</u>	<u>1/13/10</u>			
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6. <u>Russell C. Fernfield</u>	<u>Sim developer</u>	<u>[Signature]</u>	<u>3/29/10</u>			
7. <u>William Brooks</u>	<u>Reactor Operator</u>	<u>[Signature]</u>	<u>5-17-10</u>			
8. <u>RICHARD E WORST</u>	<u>REACTOR OPERATOR</u>	<u>[Signature]</u>	<u>5-17-10</u>			
9. <u>Donna Hundenski</u>	<u>Intermed. Clerk / Clerical</u>	<u>[Signature]</u>	<u>5/17/10</u>			
10. <u>William Koschel</u>	<u>Hardware Support</u>	<u>[Signature]</u>	<u>5-18-10</u>			
11. <u>Hugh E Bruce</u>	<u>Hardware Support</u>	<u>[Signature]</u>	<u>5-18-10</u>			
12. <u>R. GREG LOOSE</u>	<u>SHIFT MANAGER</u>	<u>[Signature]</u>	<u>5-18-10</u>			
13. <u>Ray Intermari</u>	<u>Unit Supervisor</u>	<u>[Signature]</u>	<u>5-18-10</u>			
14. <u>Robert W. Huston</u>	<u>Rx Eng. Support</u>	<u>[Signature]</u>	<u>6/9/10</u>			
15. <u>Geoffrey S Wadley</u>	<u>Unit Supervisor</u>	<u>[Signature]</u>	<u>6/11/10</u>			

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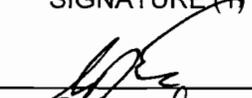
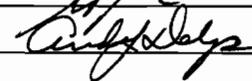
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1.	MATTHEW S ENOS	UNIT SUPERVISOR		6/14/10			
2.	ANDREW J. DORY III	REACTOR OPERATOR		6/14/10			
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2. DAVE HELD	SM Facility Reviewer	<i>Dave Held</i>	1/13/10	<i>Dave Held</i>	8/24/10	
3. Ian Forbes	Exam Developer	<i>I Forbes</i>	1/13/10	<i>I Forbes</i>	8/24/10	
4. PAUL EISENMANN	EXAM DEVELOPER	<i>Paul Eisenmann</i>	1/19/10	<i>Paul Eisenmann</i>	8/24/10	
5. WILLIAM J. RUDOLPH II	SUPV. OPS. TRAINING	<i>William J. Rudolph II</i>	1/22/10	<i>William J. Rudolph II</i>	8-24-10	
6. Russell C. ERNFELD	Sim developer	<i>Russell C. Ernfeld</i>	3/29/10	<i>Russell C. Ernfeld</i>	8/26/10	
7. William Brooks	REACTOR OPERATOR	<i>W. Brooks</i>	5-17-10	<i>W. Brooks</i>	9-7-10	
8. RICHARD E WORST	REACTOR OPERATOR	<i>Richard E Worst</i>	5-17-10	<i>Richard E Worst</i>	9-7-10	
9. Donna Hundenski	Intermed. Clerk / Clerical	<i>Donna Hundenski</i>	5/17/10	<i>Donna Hundenski</i>	8/24/10	
10. William Koester	HARDWARE SUPPORT	<i>William Koester</i>	5-18-10	<i>RJ Brooks</i>	8/27/10	①
11. Hugh E Bruner	Hardware Support	<i>Hugh E Bruner</i>	5-18-10	<i>Hugh E Bruner</i>	8-24-10	
12. R. GREG LOOSE	SHIFT MANAGER	<i>R. Greg Loose</i>	5-18-10	<i>R. Greg Loose</i>	8-30-10	
13. Ray Intrieri	Unit Supervisor	<i>Ray Intrieri</i>	5-18-10	<i>Ray Intrieri</i>	8-30-10	
14. Robert W. Huston	Rx Eng. Support	<i>Robert W. Huston</i>	6/9/10	<i>Robert W. Huston</i>	8/30/10	
15. Geoffrey S Woolsey	Unit Supervisor	<i>Geoffrey S Woolsey</i>	6/11/10	<i>Geoffrey S Woolsey</i>	8/25/10	

NOTES: ① via telecon

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1. <u>MATTHEW S ENOS</u>	<u>UNIT SUPERVISOR</u>		<u>6/14/10</u>		<u>9/1/10</u>	
2. <u>ANDREW J. DOBYN</u>	<u>REACTOR OPERATOR</u>		<u>6/14/10</u>		<u>8-30-10</u>	
3. <u>Marina Jones</u>	<u>Intermediate Clerk</u>		<u>7/8/10</u>		<u>8/24/10</u>	
4. <u>ERIC GUENZ</u>	<u>REACTOR OPERATOR</u>		<u>7-13-10</u>		<u>8-25-10</u>	
5. <u>David Judd</u>	<u>Reactor Operator</u>		<u>7-13-10</u>		<u>8-25-10</u>	
6. <u>Foy Price</u>	<u>Instructor</u>		<u>7-27-10</u>		<u>8-24-2010</u>	
7. <u>Cassandra Washington</u>	<u>Sim Support</u>		<u>7/27/10</u>		<u>8/24/10</u>	
8. <u>Owen McElligott</u>	<u>Sr. Nuc. Specialist</u>		<u>7-27-10</u>		<u>8/24/10</u>	
9. <u>THOMAS AGAYDOSIK</u>	<u>SUPERVISOR</u>		<u>8-12-10</u>		<u>8/24/10</u>	
10. <u>Wayne Heurich</u>	<u>Staff Nuclear Instructor</u>		<u>8/16/10</u>		<u>8/24/10</u>	
11. <u>Michael Klingensmith</u>	<u>Staff Nuclear Instructor</u>		<u>8/16/10</u>		<u>8/24/10</u>	
12. <u>Edward Hyden</u>	<u>Contractor Nuclear Instr.</u>		<u>8/16/10</u>		<u>8/24/10</u>	
13. <u>DENNIS W CATLETT</u>	<u>CONTRACTOR NUC INST</u>		<u>8-16-10</u>		<u>8-24-10</u>	
14. <u>SAMUEL V. HENDERSON II</u>	<u>CONTRACTOR NUCLEAR INSTRUCTOR</u>		<u>8/16/10</u>		<u>8/24/10</u>	
15. <u>GEORGE CHRISTOPHE</u>	<u>SENIOR NUC OP INST</u>		<u>081610</u>		<u>082410</u>	

NOTES:
 ID Date 8-16-10

pg 3

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1. <u>Ray Tennis</u>	<u>Py EXAM Writer / EXAM</u>	<u>[Signature]</u>	<u>8-17-10</u>	<u>[Signature]</u>	<u>8-17-10</u>	<u>①</u>
2. <u>CHRIS HYNES</u>	<u>TRAINING MANAGER</u>	<u>[Signature]</u>	<u>8-18-10</u>	<u>[Signature]</u>	<u>8-24-10</u>	
3. <u>Charles McFeaters</u>	<u>Ops Manager</u>	<u>[Signature]</u>	<u>8/18/10</u>	<u>[Signature]</u>	<u>8/27/10</u>	
4. <u>BLASE BARTKO</u>	<u>SHIFT MANAGER</u>	<u>[Signature]</u>	<u>8-18-10</u>	<u>[Signature]</u>	<u>8-1-10</u>	
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NOTES: ① see attached original signature on page 3 copy. [Signature] 9/2/10

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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 8/16 & 8/23 2010 at Beaver Valley Unit 2. 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.	Ray Tenney	EXAM WRITER / EXAM	<i>[Signature]</i>	8-17-10	<i>[Signature]</i>	8-24-10	
2.	CHRIS HYNES	TRAINING MANAGER	<i>[Signature]</i>	8-18-10			
3.	Charles McFeater	Op Manager	<i>[Signature]</i>	8/18/10			
4.	BLASE BARTKO	SHIFT MANAGER	<i>[Signature]</i>	8-18-10			
5.							
6.							
7.							
8.							
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10.							
11.							
12.							
13.							
14.							
15.							

NOTES:

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Facility: Beaver Valley Unit 2		Date of Exam Weeks of 8/16 & 8/23 2010	Operating Test No.: NRC 2LOT7	
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).	RJB	DMS	2
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	RJB	DMS	✓
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	RJB	DMS	2
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	RJB	DMS	1
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	RJB	DMS	-
2. WALK-THROUGH CRITERIA				
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> • initial conditions • initiating cues • references and tools, including associated procedures • reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee • specific performance criteria that include: <ul style="list-style-type: none"> - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable 	RJB	DMS	2
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.	RJB	DMS	2
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.	RJB	DMS	2
Printed Name / Signature		Date		
a. Author	Richard J. Brooks / <i>[Signature]</i>	6/29/10		
b. Facility Reviewer (*)	DAVE HELD / <i>[Signature]</i>	6/30/10		
c. NRC Chief Examiner (#)	J. D'AMICO / <i>[Signature]</i>	8/4/10		
d. NRC Supervisor	Sam Hansell / <i>[Signature]</i>	8/15/10		
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

Facility: <u>Beaver Valley Unit 2</u>		Date of Exam <u>Weeks of 8/16 & 8/23 2010</u>				Operating Test No.: <u>2LOT7</u>		
QUALITATIVE ATTRIBUTES					Initials			
					a	b*	c#	
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
2.	The scenarios consist mostly of related events.	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
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) 	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
5.	The events are valid with regard to physics and thermodynamics.	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.	<i>N/A</i>	<i>NA</i>	<i>r/2</i>				
8.	The simulator modeling is not altered.	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
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.	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
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.	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	<i>PJB</i>	<i>Qunt</i>	<i>r</i>				
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)					Actual Attributes			
1.	Total malfunctions (5-8)	7	7	7	8	<i>PJB</i>	<i>Qunt</i>	<i>r</i>
2.	Malfunctions after EOP entry (1-2)	3	3	3	4	<i>PJB</i>	<i>Qunt</i>	<i>r</i>
3.	Abnormal events (2-4)	2	3	4	2	<i>PJB</i>	<i>Qunt</i>	<i>r</i>
4.	Major transients (1-2)	1	1	2	1	<i>PJB</i>	<i>Qunt</i>	<i>r</i>
5.	EOPs entered/requiring substantive actions (1-2)	2	2	3	3	<i>PJB</i>	<i>Qunt</i>	<i>r</i>
6.	EOP contingencies requiring substantive actions (0-2)	0	0	1	1	<i>PJB</i>	<i>Qunt</i>	<i>r</i>
7.	Critical tasks (2-3)	3	3	3	3	<i>PJB</i>	<i>Qunt</i>	<i>r</i>

Facility: **Beaver Valley Unit 2**

Date of Exam **Weeks of 8/16 & 8/23 2010**

Operating Test No.: **2LOT7**

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 Spare							
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION							
		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	
M A S T E R	RX		3			1			2			1				1	1	0
	NOR	3		3	1		1		2		2	1		1		1	1	1
	I/C	1,2,4 5,7,8	1,4,5 7	2,4,8	2,3,4 5,7,8	2,3,4 5	2,4,7 8	1,3,6 7	1,3	1,6,7	2,3,4 5,7,8 9	2,5,8 9	3,4,5 7,9		4	4	2	
	MAJ	6	6	6	6	6	6	4,5	4,5	4,5	6	6	6		2	2	1	
	TS	1,4			2,3,4			1,3			2,3				0	2	2	
SROI-1 <input checked="" type="checkbox"/>	RX								2						1	1	1	0
	NOR	3					1								2	1	1	1
	I/C	1,2,4 5,7,8					2,4,7 8		1,3						12	4	4	2
	MAJ	6					6		4,5						4	2	2	1
	TS	1,4													2	0	2	2
SROI-2 <input checked="" type="checkbox"/>	RX		3												1	1	1	0
	NOR				1					2					2	1	1	1
	I/C		1,4,5 7		2,3,4 5,7,8					1,6,7					13	4	4	2
	MAJ		6		6				4,5						4	2	2	1
	TS				2,3,4										3	0	2	2
SROI-3 <input checked="" type="checkbox"/>	RX					1									1	1	1	0
	NOR			3				2							2	1	1	1
	I/C			2,4,8		2,3,4 5		1,3,6 7							11	4	4	2
	MAJ			6		6		4,5							4	2	2	1
	TS							1,3							2	0	2	2

Instructions:

1. Check 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 serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for 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: <u>Beaver Valley Unit 2</u>		Date of Exam <u>Weeks of 8/16 & 8/23 2010</u>									Operating Test No.: <u>2LOT7</u>						
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 Spare						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		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 -4 <input checked="" type="checkbox"/>	RX							2					1	1	1	0	
	NOR	3					1						2	1	1	1	
	I/C	1,2,4 5,7,8					2,4,7 8		1,3				12	4	4	2	
	MAJ	6					6		4,5				4	2	2	1	
	TS	1,4											2	0	2	2	
SROI -5 <input checked="" type="checkbox"/>	RX		3										1	1	1	0	
	NOR				1					2			2	1	1	1	
	I/C		1,4,5 7		2,3,4 5,7,8				1,6,7				13	4	4	2	
	MAJ		6		6				4,5				4	2	2	1	
	TS				2,3,4								3	0	2	2	
SROI -6 <input checked="" type="checkbox"/>	RX					1							1	1	1	0	
	NOR			3				2					2	1	1	1	
	I/C			2,4,8		2,3,4 5		1,3,6 7					11	4	4	2	
	MAJ			6		6		4,5					4	2	2	1	
	TS							1,3					2	0	2	2	
	RX													1	1	0	
	NOR													1	1	1	
	I/C													4	4	2	
	MAJ													2	2	1	
	TS													0	2	2	

Instructions:

1. Check 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 serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for 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: <u>Beaver Valley Unit 2</u>		Date of Exam <u>Weeks of 8/16 & 8/23 2010</u>									Operating Test No.: <u>2LOT7</u>						
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 Spare						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		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 -7 <input checked="" type="checkbox"/>	RX							2						1	1	1	0
	NOR	3				1								2	1	1	1
	I/C	1,2,4 5,7,8				2,4,7 8		1,3						12	4	4	2
	MAJ	6				6		4,5						4	2	2	1
	TS	1,4												2	0	2	2
SROI -8 <input checked="" type="checkbox"/>	RX		3											1	1	1	0
	NOR				1			2						2	1	1	1
	I/C		1,4,5 7		2,3,4 5,7,8			1,3,6 7						14	4	4	2
	MAJ		6		6			4,5						4	2	2	1
	TS				2,3,4			1,3						5	0	2	2
RO -1 <input checked="" type="checkbox"/>	RX					1								1	1	1	0
	NOR			3						2				2	1	1	1
	I/C			2,4,8		2,3,4 5				1,6,7				10	4	4	2
	MAJ			6		6				4,5				4	2	2	1
	TS													0	0	2	2
	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check 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 serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
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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: <u>Beaver Valley Unit 2</u>	Date of Exam <u>Weeks of 8/16 & 8/23 2010</u>	Operating Test No.: <u>2LOT7</u>																						
Competencies	APPLICANTS																							
	ATC <input checked="" type="checkbox"/>				BOP <input checked="" type="checkbox"/>				SRO-I <input checked="" type="checkbox"/>				RO <input type="checkbox"/>											
	SRO-I <input type="checkbox"/>				SRO-U <input type="checkbox"/>																			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO											
1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4									
Interpret/Diagnosis Events and Conditions	1,3 4,5 6,7	1,2 3,4 5,6	1,2 3,4 5	1,2 5,6 8,9	2,3 4,6 8	1,2 4,6 7,8	1,2 4,5 6,7	1,3 4,5 6,7 9	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6 7,8 9												
Comply With and Use Procedures (1)	1,3 4,5 6,7	1,2 3,4 5,6	1,2 3,4 5	1,2 5,6 8,9	2,3 4,6 8	1,2 4,6 7,8	1,2 4,5 6,7 9	1,3 4,5 6,7 9	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6 7,8 9												
Operate Control Boards (2)	1,3 4,5 6,7	1,2 3,4 5,6	1,2 3,4 5	1,2 5,6 8,9	2,3 4,6 8	1,2 4,6 7,8	1,2 4,5 6,7 9	1,3 4,5 6,7 9																
Communicate and Interact	1,3 4,5 6,7	1,2 3,4 5,6	1,2 3,4 5	1,2 5,6 8,9	2,3 4,6 8	1,2 4,6 7,8	1,2 4,5 6,7 9	1,3 4,5 6,7 9	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6 7,8 9												
Demonstrate Supervisory Ability (3)									1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6 7,8 9												
Comply With and Use Tech. Specs. (3)									1,4	2,3 4	1,3	2,3												

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

Instructions:

Check 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.

Facility: **Beaver Valley Unit 2**

Date of Exam **Weeks of 8/16 & 8/23 2010**

Operating Test No.: **2LOT7**

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 Spare							
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION							
		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			
M A S T E R	RX		3			1			2			1				1	1	0
	NOR	3		3	1		1		2		2	1		1		1	1	1
	I/C	1,2,4 5,7,8	1,4,5 7	2,4,8	2,3,4 5,7,8	2,3,4 5	2,4,7 8		1,3,6 7	1,3	1,6,7	2,3,4 5,7,8 9	2,5,8 9	3,4,5 7,9		4	4	2
	MAJ	6	6	6	6	6	6	4,5	4,5	4,5		6	6	6		2	2	1
	TS	1,4			2,3,4				1,3			2,3				0	2	2
SROI-1 <input checked="" type="checkbox"/>	RX								2						1	1	1	0
	NOR	3						1							2	1	1	1
	I/C	1,2,4 5,7,8					2,4,7 8		1,3						12	4	4	2
	MAJ	6					6		4,5						4	2	2	1
	TS	1,4													2	0	2	2
SROI-2 <input checked="" type="checkbox"/>	RX		3												1	1	1	0
	NOR				1					2					2	1	1	1
	I/C		1,4,5 7		2,3,4 5,7,8					1,6,7					13	4	4	2
	MAJ		6		6					4,5					4	2	2	1
	TS				2,3,4										3	0	2	2
SROI-3 <input checked="" type="checkbox"/>	RX					1									1	1	1	0
	NOR			3					2						2	1	1	1
	I/C			2,4,8		2,3,4 5		1,3,6 7							11	4	4	2
	MAJ			6		6		4,5							4	2	2	1
	TS							1,3							2	0	2	2

Instructions:

1. Check 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 serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for 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: <u>Beaver Valley Unit 2</u>		Date of Exam <u>Weeks of 8/16 & 8/23 2010</u>		Operating Test No.: <u>2LOT7</u>													
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 Spare						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		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 -4 <input checked="" type="checkbox"/>	RX							2						1	1	1	0
	NOR	3					1							2	1	1	1
	I/C	1,2,4 5,7,8					2,4,7 8		1,3					12	4	4	2
	MAJ	6					6		4,5					4	2	2	1
	TS	1,4												2	0	2	2
SROI -5 <input checked="" type="checkbox"/>	RX		3											1	1	1	0
	NOR				1					2				2	1	1	1
	I/C		1,4,5 7		2,3,4 5,7,8				1,6,7					13	4	4	2
	MAJ		6		6				4,5					4	2	2	1
	TS				2,3,4									3	0	2	2
SROI -6 <input checked="" type="checkbox"/>	RX					1								1	1	1	0
	NOR			3				2						2	1	1	1
	I/C			2,4,8		2,3,4 5		1,3,6 7						11	4	4	2
	MAJ			6		6		4,5						4	2	2	1
	TS							1,3						2	0	2	2
	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check 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 serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for 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: <u>Beaver Valley Unit 2</u>		Date of Exam <u>Weeks of 8/16 & 8/23 2010</u>		Operating Test No.: <u>2LOT7</u>													
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 Spare						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		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 -7 <input checked="" type="checkbox"/>	RX							2						1	1	1	0
	NOR	3				1								2	1	1	1
	I/C	1,2,4 5,7,8				2,4,7 8		1,3						12	4	4	2
	MAJ	6				6		4,5						4	2	2	1
	TS	1,4												2	0	2	2
SROI -8 <input checked="" type="checkbox"/>	RX		3											1	1	1	0
	NOR				1			2						2	1	1	1
	I/C		1,4,5 7		2,3,4 5,7,8			1,3,6 7						14	4	4	2
	MAJ		6		6			4,5						4	2	2	1
	TS				2,3,4			1,3						5	0	2	2
RO -1 <input checked="" type="checkbox"/>	RX					1								1	1	1	0
	NOR			3						2				2	1	1	1
	I/C			2,4,8		2,3,4 5				1,6,7				10	4	4	2
	MAJ			6		6				4,5				4	2	2	1
	TS													0	0	2	2
	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check 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 serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for 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: <u>Beaver Valley Unit 2</u>	Date of Exam <u>Weeks of 8/16 & 8/23 2010</u>	Operating Test No.: <u>2LOT7</u>														
Competencies	APPLICANTS															
	ATC <input checked="" type="checkbox"/>				BOP <input checked="" type="checkbox"/>				SRO-I <input checked="" type="checkbox"/>				RO <input type="checkbox"/>			
	SRO-I <input type="checkbox"/>				SRO-U <input type="checkbox"/>				SCENARIO				SCENARIO			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnosis Events and Conditions	1,3 4,5 6,7	1,2 3,4 5,6	1,2 3,4 5	1,2 5,6 8,9	2,3 4,6 8	1,2 4,6 7,8	1,2 4,5 6,7	1,3 4,5 6,7 9	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6 7,8 9				
Comply With and Use Procedures (1)	1,3 4,5 6,7	1,2 3,4 5,6	1,2 3,4 5	1,2 5,6 8,9	2,3 4,6 8	1,2 4,6 7,8	1,2 4,5 6,7 9	1,3 4,5 6,7 9	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6 7,8 9				
Operate Control Boards (2)	1,3 4,5 6,7	1,2 3,4 5,6	1,2 3,4 5	1,2 5,6 8,9	2,3 4,6 8	1,2 4,6 7,8	1,2 4,5 6,7 9	1,3 4,5 6,7 9								
Communicate and Interact	1,3 4,5 6,7	1,2 3,4 5,6	1,2 3,4 5	1,2 5,6 8,9	2,3 4,6 8	1,2 4,6 7,8	1,2 4,5 6,7 9	1,3 4,5 6,7 9	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6 7,8 9				
Demonstrate Supervisory Ability (3)									1,2 3,4 5,6 7,8	1,2 3,4 5,6 7,8	1,2 3,4 5,6 7	1,2 3,4 5,6 7,8 9				
Comply With and Use Tech. Specs. (3)									1,4	2,3 4	1,3	2,3				

Notes:

(1) Includes Technical Specification compliance for an RO.

(2) Optional for an SRO-U.

(3) Only applicable to SROs.

Instructions:

Check 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.

Facility: **Beaver Valley Unit 2** Date of Exam **Weeks of 8/16 & 8/23 2010**

Exam Level: RO SRO

Item Description	Initial		
	a	b*	c#
1. Questions and answers technically accurate and applicable to facility	A	Quint	
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	A	Quint	
3. SRO questions are appropriate per Section D.2.d of ES-401	A	Quint	
4. The sampling process was random and systematic (If more than 4 RO or 2 SRO questions are repeated from the last two NRC licensing exams, consult the NRR OL program office.)			
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 checked="" 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 checked="" type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	A	Quint	
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	Modified	New
	23/3	16/6	36/16
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 RO / SRO question distribution(s) at right.	Memory	C/A	
	34/7 (45.3%)/(28%)	41/18 (54.7%)/(72%)	
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	A	Quint	
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	A	Quint	
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	A	Quint	
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet	A	Quint	

	Printed Name / Signature	Date
a. Author	Jan Forbes / <i>[Signature]</i>	6/30/10
b. Facility Reviewer (*)	DAVE HELD / <i>[Signature]</i>	6/30/10
c. NRC Chief Examiner (#)	J. P. ... / <i>[Signature]</i>	7/14/10
d. NRC Supervisor	Sam Hansell / <i>[Signature]</i>	8/15/10

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:		Date of Exam:		Exam Level: RO <input type="checkbox"/> SRO <input type="checkbox"/>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	RJB	DWB	2		
2. Answer key changes and question deletions justified and documented	N/A	N/A	2		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	RJB	DWB	2		
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	RJB	DWB	2		
5. All other failing examinations checked to ensure that grades are justified	RJB	DWB	2		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	RJB	DWB	2		
Printed Name/Signature		Date			
a. Grader	<u>Richard J. Brooks</u>	<u>8/26/10</u>			
b. Facility Reviewer(*)	<u>DAVE HELD / Dave Held</u>	<u>8/26/10</u>			
c. NRC Chief Examiner (*)	<u>J. O'Connell / J. D'Amico</u>	<u>9/2/10</u>			
d. NRC Supervisor (*)	<u>Samuel L. Hansell</u>	<u>9/7/10</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					