

Facility: <u>LG5</u>		Date of Examination: <u>1/10/05</u>
Examinations Developed by: <u>Facility</u> / NRC (circle one)		
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	TF
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	TF
-120	3. Facility contact briefed on security and other requirements (C.2.c)	TF
-120	4. Corporate notification letter sent (C.2.d)	TF
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	N/A
-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)	TF
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	TF
-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 reference materials due (C.1.e, f, g and h; C.3.d)	TF
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	TF
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	TF
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	TF
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	TF
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	TF
-7	14. Final applications reviewed; examination approval and waiver letters sent (C.2.i; Attachment 4; ES-204)	TF
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	TF
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	TF
<p>* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.</p> <p>[ ] Applies only to examinations prepared by the NRC.</p>		

Facility: Limerick		Date of Examination: 1/10/05		
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.	caf	Ⓜ	TF
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all KA categories are appropriately sampled.	caf	Ⓜ	TF
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	caf	Ⓜ	TF
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	caf	Ⓜ	
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.	caf	Ⓜ	TF
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity; ensure each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and scenarios will not be repeated on subsequent days.	caf	Ⓜ	TF
	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.	caf	Ⓜ	TF
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 applicants' 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	caf	Ⓜ	TF
	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	caf	Ⓜ	TF
	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.	caf	Ⓜ	TF
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.	caf	Ⓜ	TF
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	caf	Ⓜ	TF
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	caf	Ⓜ	TF
	d. Check for duplication and overlap among exam sections.	caf	Ⓜ	TF
	e. Check the entire exam for balance of coverage.	caf	Ⓜ	TF
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	caf	Ⓜ	TF
a. Author <u>Craig A. Fritz / <i>[Signature]</i></u> b. Facility Reviewer (*) <u>Mark W. Crim / <i>[Signature]</i></u> c. NRC Chief Examiner (#) <u>Todd Flsh / <i>[Signature]</i></u> d. NRC Supervisor <u>R.J. Conte / <i>[Signature]</i></u>		Printed Name / Signature Date 10/27/04 10/27/04 10/29/04 11/15/04		
NOTE: # Independent NRC Reviewer initial items in Column "c" chief examiner concurrence required.				

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <sup>Jan 10 2005</sup> ~~Jan 17 2005~~ 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 <sup>Jan 10 2005</sup> ~~Jan 17 2005~~. 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. Corey B Goff	INSTRUCTOR / EXAM DEVELOPER	<i>Corey B Goff</i>	7/30/04	<i>Corey B Goff</i>	1-24-05
2. VINCENT HYDRO JR	SIMULATOR CO-ORDINATOR	<i>Vincent Hydro Jr</i>	9/30/04	<i>Vincent Hydro Jr</i>	1/24/05
3. Scott H. Messner	ITSA Analyst / Simulator	<i>Scott H. Messner</i>	7/30/04	<i>Scott H. Messner</i>	1/25/05
4. Kevin Korch	ITC / HARDWARE TECH	<i>Kevin Korch</i>	9/30/04	<i>Kevin Korch</i>	1-24-05
5. Carl E. Rich Jr	OTM	<i>Carl E. Rich Jr</i>	9-30-04	<i>Carl E. Rich Jr</i>	1-24-05
6. TIMOTHY Y KAN	INSTRUCTOR / EXAM DEVELOPER	<i>Timothy Y Kan</i>	9/30/04	<i>Timothy Y Kan</i>	1/24/05
7. Craig A. Fritz	Instructor / Exam Author	<i>Craig A. Fritz</i>	9/30/04	<i>Craig A. Fritz</i>	1/24/05
8. Leland S. Stanford	Instructor / Exam Developer	<i>Leland S. Stanford</i>	10/1/04	<i>Leland S. Stanford</i>	1/24/05
9. MITCHELL CRIM	SM / FAC. REP.	<i>Mitchell Crim</i>	10/2/04	<i>Mitchell Crim</i>	1/24/05
10. JOSEPH H. MURPHY	OPS	<i>Joseph H. Murphy</i>	10/8/04	<i>Joseph H. Murphy</i>	1/24/05
11. Jesse Brown	SSV / Validation	<i>Jesse Brown</i>	11/2/04	<i>Jesse Brown</i>	1/24/05
12. Cynthia N. Curtin	RO / Validation	<i>Cynthia N. Curtin</i>	11/2/04	<i>Cynthia N. Curtin</i>	1/24/05
13. MICHAEL A. CRAMER	RO / VALIDATION	<i>Michael A. Cramer</i>	11/2/04	<i>Michael A. Cramer</i>	1/24/05
14. Jeffrey C. Walton	SRO / Validation	<i>Jeffrey C. Walton</i>	11/2/04	<i>Jeffrey C. Walton</i>	1/24/05
15. HARRY J. BENDON	SRO / Validation	<i>Harry J. Bendon</i>	11/2/04	<i>Harry J. Bendon</i>	1/24/05

NOTES:

**1. Pre-Examination**

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <sup>11/01/05</sup> 11/17/05 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 <sup>11/01/05</sup> 11/17/05. 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. RICHARD CENTRELLA	REACTOR OPERATOR	<i>Rf Centrella</i>	11-3-04	<i>R Centrella</i>	1-28-05
2. Clarence E. PEAKS JR	SENIOR REACTOR OPERATOR	<i>Clarence E. Peaks Jr</i>	11-3-04	<i>Clarence E. Peaks Jr</i>	1/25/05
3. EUGENE C. MIKHENSON	SENIOR REACTOR OPERATOR	<i>E. C. Michelson</i>	11-3-04	<i>E. C. Michelson</i>	1/26/05
4. NORBERT CHAND	SYSTEM MANAGER	<i>Norbert Chand</i>	11-3-04	<i>Norbert Chand</i>	1-26-05
5. DANIEL J. WEIKNER	OPS INSTRUCTOR	<i>Daniel J. Weikner</i>	12-6-04	<i>Daniel J. Weikner</i>	1/24/05
6. MARK F. SIZAWW	OPS INSTRUCTOR	<i>Mark F. Sizaww</i>	1/4/05	<i>Mark F. Sizaww</i>	1/24/05
7. RANDY S. BUNCE	REACTOR OPERATOR	<i>Randy S. Bunce</i>	1-10-05	<i>Randy S. Bunce</i>	1/27/05 (2)
8. DAVID A. MALGOWSKI	ILT LEAD INSTRUCTOR	<i>David A. Malgowski</i>	1-10-05	<i>David A. Malgowski</i>	1/24/05
9. Joseph L. White	TRAINING DIRECTOR	<i>Joseph L. White</i>	1/10/05	<i>Joseph L. White</i>	1/26/05
10. JEAN BROILLET	SRC	<i>Jean Broillet</i>	1-10-05	<i>Jean Broillet</i>	1/21/05 (1)
11.					
12.					
13.					
14.					
15.					

NOTES:

- ① ON MEDICAL LEAVE SIGNED FOR BY COREY GOFF PER TELECON FOR JEAN BROILLET
- ② SIGNED OFF PER TELECON FOR RANDY BUNCE BY COREY GOFF

Facility: Limerick	Date of Examination: 1/10/05	Operating Test Number:	
<b>1. GENERAL CRITERIA</b>			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).	CAF	CAF TF
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	CAF	CAF TF
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	CAF	CAF TF
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	CAF	CAF TF
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	CAF	CAF TF
<b>2. WALK-THROUGH CRITERIA</b>			--
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> <li>· initial conditions</li> <li>· initiating cues</li> <li>· references and tools, including associated procedures</li> <li>· reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee</li> <li>· operationally important specific performance criteria that include: <ul style="list-style-type: none"> <li>- detailed expected actions with exact criteria and nomenclature</li> <li>- system response and other examiner cues</li> <li>- statements describing important observations to be made by the applicant</li> <li>- criteria for successful completion of the task</li> <li>- identification of critical steps and their associated performance standards</li> <li>- restrictions on the sequence of steps, if applicable</li> </ul> </li> </ul>	CAF	CAF TF
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-20102.	CAF	CAF TF
<b>3. SIMULATOR CRITERIA</b>			--
	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	CAF	CAF TF
	Printed Name / Signature	Date	
a. Author	Craig A. Fritz <i>Craig A. Fritz</i>	1/5/05	
b. Facility Reviewer(*)	MARK W. CRIM <i>Mark W. Crim</i>	1/5/05	
c. NRC Chief Examiner (#)	TODD FISH <i>Todd Fish</i>	1/6/05	
d. NRC Supervisor (*)	STEVE DENNIS <i>Steve Dennis</i> for RJC	1/6/05	
NOTE: • The facility signature is not applicable for NRC-developed tests # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence is required.			

Facility: Limerick		Date of Exam: 1/10/05		Scenario Numbers: 1 / 3 / 4		Operating Test No.:		
QUALITATIVE ATTRIBUTES						Initials		
						a	b*	c#
1.	The initial conditions are realistic, in that some equipment and/or instrumentation maybe out of service, but it does not cue the operators into expected events.	Caf	EW	TF				
2.	The scenarios consist mostly of related events.	Caf	EW	TF				
3.	Each event description consists of <ul style="list-style-type: none"> <li>· the point in the scenario when it is to be initiated</li> <li>· the malfunction(s) that are entered to initiate the event</li> <li>· the symptoms/cues that will be visible to the crew</li> <li>· the expected operator actions (by shift position)</li> <li>· the event termination point (if applicable)</li> </ul>	Caf	EW	TF				
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.	Caf	EW	TF				
5.	The events are valid with regard to physics and thermodynamics.	Caf	EW	TF				
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	Caf	EW	TF				
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.	Caf	EW	TF				
8.	The simulator modeling is not altered.	Caf	EW	TF				
9.	The scenarios have been validated. Pursuant to 10CFR55.46(d) any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	Caf	EW	TF				
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.	Caf	EW	TF				
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	Caf	EW	TF				
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).	Caf	EW	TF				
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	Caf	EW	TF				
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)				Actual Attributes				
1.	Total malfunctions (5-8)	6 / 7 / 9		Caf	EW	TF		
2.	Malfunctions after EOP entry (1-2)	2 / 3 / 3		Caf	EW	TF		
3.	Abnormal events (2-4)	3 / 2 / 2		Caf	EW	TF		
4.	Major transients (1-2)	1 / 1 / 1		Caf	EW	TF		
5.	EOPs entered/requiring substantive actions (1-2)	2 / 2 / 2		Caf	EW	TF		
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 2		Caf	EW	TF		
7.	Critical tasks (2-3)	2 / 4 / 2		Caf	EW	TF		

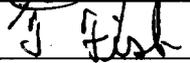


Facility: Limerick		Date of Exam: 1/10/05									Operating Test Number: 1				
APPLICANT	EVENT TYPE	Scenarios												TOTAL	MINIMUM
		1			2			3			4				
		Crew Position			Crew Position			Crew Position			Crew Position				
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		
RO	RX													0	1*
	NOR													0	1*
SRO-I	I/C											1,2,3 4,5 7,8,9		8	4*
SRO-U	MAJ											6		1	2
	TS											1,3		2	2
RO	RX													0	1*
	NOR													0	1*
SRO-I	I/C											1,2,3 4,5 7,8,9		8	4*
SRO-U	MAJ											6		1	2
	TS											1,3		2	2
RO	RX													0	1*
	NOR													0	1*
SRO-I	I/C											1,2,3 4,5 7,8,9		8	4*
SRO-U	MAJ											6		1	2
	TS											1,3		2	2
RO	RX	1												1	1*
	NOR													0	1*
SRO-I	I/C	2,3,4, 6,7											1,4,7	8	4*
SRO-U	MAJ	5										6		2	2
	TS	3,4												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 serve 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 requirement.

Author: 

NRC Reviewer: 

Facility: Limerick		Date of Exam: 1/10/05						Operating Test Number: 1							
APPLICANT	EVENT TYPE	Scenarios												TOTAL	MINIMUM
		1			2			3			4				
		Crew Position			Crew Position			Crew Position			Crew Position				
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		
RO	RX	1												1	1*
	NOR													0	1*
SRO-I	I/C	2,3,4,6,7										1,4,7		8	4*
SRO-U	MAJ	5										6		2	2
	TS	3,4												2	2
RO	RX	1												1	1*
	NOR													0	1*
SRO-I	I/C	2,3,4,6,7										1,4,7		8	4*
SRO-U	MAJ	5										6		2	2
	TS	3,4												2	2
RO	RX	1												1	1*
	NOR													0	1*
SRO-I	I/C	2,3,4,6,7										1,4,7		8	4*
SRO-U	MAJ	5										6		2	2
	TS	3,4												2	2
RO	RX														1*
	NOR														1*
SRO-I	I/C														4*
SRO-U	MAJ														2
	TS														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 serve 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 requirement.

Author:

Craig A. July

NRC Reviewer:

J. Fisher

Facility: Limerick		Date of Examination: 1/10/05								Operating Test No.: 1							
Competencies	APPLICANTS																
	RO SRO-I/SRO-U				RO SRO-I/SRO-U				RO SRO-I/SRO-U				RO SRO-I/SRO-U				
	SCENARIO				SCENARIO				SCENARIO				SCENARIO				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
	ATC			BOP	ATC			BOP	ATC			BOP	ATC			BOP	
Interpret/ Diagnose Events and Conditions	2,3, 4			1,2, 3,5, 6,8, 9	2,3, 4			1,2, 3,5, 6,8, 9	2,3, 4			1,2, 3,5, 6,8, 9	2,3, 4			1,2, 3,5, 6,8, 9	
Comply With and Use Procedures(1)	3,4, 5			1,4, 5,6, 8,9	3,4, 5			1,4, 5,6, 8,9	3,4, 5			1,4, 5,6, 8,9	3,4, 5			1,4, 5,6, 8,9	
Operate Control Boards (2)	1,2, 4,5			1,2, 3,5, 6,8, 9	1,2, 4,5			1,2, 3,5, 6,8, 9	1,2, 4,5			1,2, 3,5, 6,8, 9	1,2, 4,5			1,2, 3,5, 6,8, 9	
Communicate and Interact	1,2, 3,4, 5,6			1,2, 3,4, 5,6, 8,9	1,2, 3,4, 5,6			1,2, 3,4, 5,6, 8,9	1,2, 3,4, 5,6			1,2, 3,4, 5,6, 8,9	1,2, 3,4, 5,6			1,2, 3,4, 5,6, 8,9	
Demonstrate Supervisory Ability (3)																	
Comply With and Use Tech Specs. (3)																	
Notes:																	
(1) Includes Technical Specification compliance for an RO.																	
(2) Optional for an SRO-U.																	
(3) Only applicable to SROs.																	

Instructions:

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

Author: Raig B. Furlong

NRC Reviewer: J. Fish

Facility: Limerick		Date of Examination: 1/10/05								Operating Test No.: /							
Competencies	APPLICANTS																
	RO/SRO-I(SRO-U)				RO/SRO-I(SRO-U)				RO/SRO-I(SRO-U)				RO(SRO-I)SRO-U				
	SCENARIO				SCENARIO				SCENARIO				SCENARIO				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
				SRO				SRO				SRO	SRO			ATC	
Interpret/ Diagnose Events and Conditions				1,3, 4,6, 7,8, 9				1,3, 4,6, 7,8, 9				1,3, 4,6, 7,8, 9	2,3, 4,5, 7			1,4, 6,7	
Comply With and Use Procedures(1)				1,4, 5,6, 8,9				1,4, 5,6, 8,9				1,4, 5,6, 8,9	3,4, 5,7			1,4, 6,7	
Operate Control Boards (2)																1,6, 7	
Communicate and Interact				1,2, 3,4, 5,6, 7,8, 9				1,2, 3,4, 5,6, 7,8, 9				1,2, 3,4, 5,6, 7,8, 9	1,2, 3,4, 5,6, 7			1,4, 6,7, 9	
Demonstrate Supervisory Ability (3)				1,2, 3,4, 5,6, 7,8, 9				1,2, 3,4, 5,6, 7,8, 9				1,2, 3,4, 5,6, 7,8, 9	2,3, 4,5, 6,7				
Comply With and Use Tech Specs. (3)				1,3				1,3				1,3	3,4				
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: Raig A. Fry

NRC Reviewer: J Fish



Facility: Limerick		Date of Exam: 1/10/05		Exam Level: RO/SRO		
Item Description	Initial					
	a	b*	c*			
1. Questions and answers are technically accurate and applicable to the facility	caf	☑	TF			
2. a. NRC K/As are referenced for all questions b. Facility learning objectives are referenced as available	caf	☑	TF			
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	caf	☑	TF			
4. If more than four RO and two SRO questions are repeated from the last two NRC licensing exam, the facility licensee's sampling process was random and systematic.	N/A caf	N/A ☑	N/A			
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: ___ the audit exam was systematically and randomly developed; ___ the audit exam was completed before the license exam was started; ___ the examinations were developed independently; ___ the licensee certifies that there is no duplication; or ___ other (explain)	caf	☑	TF			
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	caf	☑	TF
	0 / 0	0 / 0	75 / 25			
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 KAs support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right	Memory		C/A	caf	☑	TF
	30 / 5		45 / 20			
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	caf	☑	TF			
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	caf	☑	TF			
10. Question psychometric quality and format meet the guidelines in ES, Appendix B.	caf	☑	TF			
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet	caf	☑	TF			
Printed Name / Signature		Date				
a. Author	Craig A. Fritz		Craig A. Fritz		1/13/05	
b. Facility Reviewer (*)	MARTIN W. COVINO		MARTIN W. COVINO		1/13/05	
c. NRC Chief Examiner (#)	TODD FISH		TODD FISH		1/14/05	
d. NRC Regional Supervisor	P.J. COVINO		P.J. COVINO		1/20/05	
Note:	* The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c;" chiefexaminer concurrence required.					

ES-401, Page 29 of 33 \* Wrt 2 g. test separately done  
2 Review rest Ltr.

Facility: <u>LGS</u>		Date of Exam: <u>1/21/05</u>		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	<u>CBA</u>	<u>M</u>	<u>Had</u> <del>TF</del>		
2. Answer key changes and question deletions justified and documented	<u>CBA</u>	<u>M</u>	<u>Had</u> <del>TF</del>		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>CBA</u>	<u>M</u>	<u>Had</u> <del>TF</del>		
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	<u>CBA</u>	<u>M</u>	<u>Had</u> <del>TF</del>		
5. All other failing examinations checked to ensure that grades are justified	<u>CBA</u>	<u>M</u>	<u>Had</u> <del>TF</del>		
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>CBA</u>	<u>M</u>	<u>Had</u> <del>TF</del>		
		Printed Name/Signature	Date		
a. Grader	<u>Corey Goff</u>	<u>[Signature]</u>	<u>1/25/05</u>		
b. Facility Reviewer(*)	<u>Mark Crim</u> <u>GILBERT A JOHNSON</u>	<u>[Signature]</u>	<u>1/25/05</u>		
c. NRC Chief Examiner (*)	<u>TOOD FISH</u>	<u>[Signature]</u>	<u>1/31/05</u> <u>1/31/05</u>		
d. NRC Supervisor (*)	<u>Richard V. Conte</u>	<u>[Signature]</u>	<u>2/4/05</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					