

Facility: <b>Limerick</b>		Date of Examination: <b>07/12/2021</b>	
Developed:	Written:	Facility: <input checked="" type="checkbox"/> NRC: <input type="checkbox"/>	Operating: Facility: <input checked="" type="checkbox"/> NRC: <input type="checkbox"/>
<b>Days from Exam</b>	<b>Target Date*</b>	<b>Task Description (Reference)</b>	<b>Chief Examiner's Initials</b>
-240	11/14/2020	1. Examination administration date confirmed (C.1.a; C.2.a–b). For NRC-prepared exams, arrangements are made for the facility to submit reference materials (C.1.e; C.3.c; Attachment 3).	<i>JD</i> 9/24/2020
-210	12/14/2020	2. NRC examiners and facility contact assigned (C.1.d; C.2.f).	<i>JD</i> 9/24/2020
-210	12/14/2020	3. Facility contact briefed on security and other requirements (C.2.c). As applicable, the facility contact submits to the NRC any prescreened K/As for elimination from the written examination outline, with a description of the facility's prescreening process (ES-401, D.1.b).	<i>JD</i> 9/24/2020
-210	12/14/2020	4. Reference material due for NRC-prepared exams (C.1.e; C.3.c; Attachment 3).	<b>N/A</b>
-210	12/14/2020	5. Corporate notification letter sent (C.2.e).	<i>JD</i> 9/24/2020
-195	12/29/2020	6. NRC-developed written examination outline (ES-401-1/2 or ES-401N-1/2 and ES-401-3 or ES-401N-3) sent to facility contact (must be on the exam security agreement) (C.1.e–f; C.2.h; C.3.d–e).	<i>JD</i> 9/24/2020 (Draft); <i>JD</i> 9/30/2020 (Rev 0)
-150	02/12/2021	7. Operating test outline(s) and other checklists due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, and ES-D-1, as applicable (C.1.e–f; C.3.d–e).	<i>JD</i> 1/28/2021
-136	02/26/2021	8. Operating test outline(s) reviewed by the NRC and feedback provided to facility licensee (C.2.h; C.3.d–e).	<i>JD</i> 2/5/2021
-75	04/28/2021	9. Proposed examinations (written, JPMs, and scenarios, as applicable) and outlines (Forms ES-301-1, ES-301-2, ES-D-1, ES-401-1/2 or ES-401N-1/2, and ES-401-3 or ES-401N-3); supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, ES-401-6, ES-401N-6, and any Form ES-201-2 and ES-201-3 updates); and reference materials due (C.1.e–h; C.3.d).	<i>JD</i> 4/9/2021
-75	04/28/2021	10. Examinations prepared by the NRC are approved by the NRC supervisor and forwarded for facility licensee review (C.1.i; C.2.h; C.3.f–g).	<b>N/A</b>
-60	05/13/2021	11. Preliminary waiver/excusal requests due (C.1.m; C.2.c; ES-202).	<i>JD</i> 5/13/2021
-50	05/23/2021	12. Written exam and operating test reviews completed (C.3.f).	<i>JD</i> 4/30/2021
-35	06/07/2021	13a. Examination review results discussed between the NRC and facility licensee (C.1.i; C.1.k–l; C.2.h; C.3.g).	<i>JD</i> 5/20/2021
-35	06/07/2021	13b. The NRC and the facility licensee conduct exam preparatory week.	<i>JD</i> 6/7/2021
-30	06/12/2021	14. Preliminary license applications and waiver/excusal requests, as applicable (NRC Form 398) due (C.1.m; C.2.i; ES-202).	<i>JD</i> 6/12/2021
-14	06/28/2021	15. Final license applications and waiver/excusal requests, as applicable (NRC Form 398), due and Form ES-201-4 prepared (C.1.m; C.2.k; ES-202).	<i>JD</i> 6/25/2021
-7	07/05/2021	16. Written examinations and operating tests approved by the NRC supervisor (C.2.j–k; C.3.h).	<i>JD</i> 7/6/2021
-7	07/05/2021	17. Request facility licensee management feedback on the examination (C.2.l).	<i>JD</i> 7/6/2021
-7	07/05/2021	18. Final applications reviewed; one or two (if more than 10) applications audited to confirm qualifications/eligibility; and examination approval and waiver/excusal letters sent (C.2.k; Attachment 5; ES-202, C.3.j; ES-204).	<i>JD</i> 6/29/2021
-7	07/05/2021	19. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k).	<i>JD</i> 7/6/2021
-7	07/05/2021	20. Approved scenarios and job performance measures distributed to NRC examiners (C.3.i).	<i>JD</i> 7/6/2021

<b>Exam Date:</b>	<b>07/12/2021</b>	* Target dates are based on facility prepared examinations and the examination date identified in the corporate notification letter. These dates are for planning purposes and may be adjusted on a case by case basis in coordination with the facility licensee.
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## 1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for the week(s) of 7-12-21 to 7-23-21 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's 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's 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 7-12-21 to 7-23-21. 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. Christopher Bihl	Exam Author	C. Bihl	9/24/20	C. Bihl	7/22/21	
2. JOHN MERCURIO	Exam Author	John Mercurio	9/21/20	John Mercurio	7/22/21	
3. SAMUEL M. COHEN	SIMULATOR COORDINATOR	Samuel M. Cohen	9/24/20	Samuel M. Cohen	09/23/21	
4. DAVID M. MONAHAN	REG EXAM EXPERT	David M. Monahan	9/29/20	Dave Monahan, Telecom / C/S	7/22/21	
5. DARREN R. WEAVER	IT ANALYST	Darren R. Weaver	10/26/20	Darren R. Weaver	07/23/21	
6. Stuart McDonald	IT Analyst	Stuart McDonald	12/1/20	Stuart McDonald / Email	07/22/21	
7. Seth Mithun	Ops Instructor	Seth Mithun	1/12/21	Seth Mithun Email / C/S	7/22/21	
8. Jeff Weaver	Shift Manager	Jeff Weaver	1/15/21	J. Weaver Telecom / C/S	7/28/21	
9. Rachel Smolinsky	Plant Admin	Rachel Smolinsky	1/20/21	Rachel Smolinsky Email / C/S	7/22/21	
10. Todd A Byers	Training Core Designer	Todd A Byers	1/29/21	Todd Byers Email / C/S	7/22/21	
11. Sagar Patel	SRO	Sagar Patel	1/29/21	S. Patel / C/S Email	7/23/21	
12. R. LUCAS WEBER	SRO / OPCAT	R. Lucas Weber	2/16/21	L. Weber / Email / C/S	7/29/21	
13. Matthew Carberry	RO	Matthew Carberry	2/16/21	Matthew Carberry	7/22/21	
14. JOE KOSLIK	RO	Joe Koslik	2-16-21	C. Bihl for Joe per Email	7/23/21	
15. DAN MOREN	REG EXAM EXPERT	DAN MOREN BY TELECON / JAM	2/25/21	D. Moren Email / C/S	7/23/21	

NOTES:



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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 7-21-21 to 7-23-21. 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. Christopher Bihl	Exam Author	C. J. Bihl	9/24/20			
2. John Mercurio	Exam Author	John Mercurio	9/24/20			
3. Samuel M. Cohen	Simulator Coordinator	Samuel M. Cohen	9/24/20			
4. DAVID M. MONAHAN	REG EXAM EXPERT	David M. Monahan	9/29/20			
5. DARREN R. WEAVER	IT Analyst	Darren R. Weaver	10/26/20			
6. Hunt M. McCall	IT Analyst	Hunt M. McCall	12/1/20			
7. Seth M. Miller	Ops Instructor	Seth M. Miller	1/12/21			
8. Jeff Weaver	Shift Manager	Jeff Weaver	1/15/21			
9. Daniel Smolinsky	Plant Simulator Admin	Daniel Smolinsky	1/20/21			
10. Chris Burkhardt	Regulatory Exam Expert	Chris Burkhardt	1/27/21	Chris Burkhardt Email/Doc	7/23/21	
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15.						

**NOTES:**

THIS PAGE WAS EMAILED BACK FROM CHRIS BURKHART ON 1/27/2021. JAM 1/27/2021

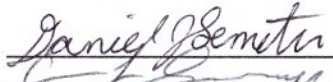
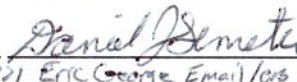
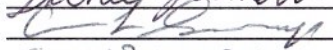
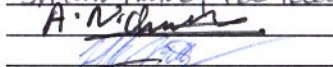


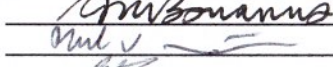

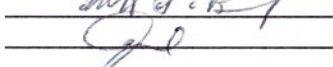








## 1. Pre-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Daniel Semeter	OTM / Exam Approver		3/9/21		7/22/21	
2. Eric L. George	LORT / Ops Instructor		03/17/2021	Eric George Email / CS	7/22/21	
3. SHAWN PINNEY	RE MGR / RE SUPPORT	Shawn Pinney PER TELECON	3/18/21	Shawn Pinney Email / CS	7/22/21	
4. Nnamdi Onuorah	SRO / Unit CRS	A. Onuorah	3/19/21	Nnamdi Onuorah Email / CS	7/28/21	
5. Jeffrey Miller	RO / Validator		3/19/21	Jeff Miller Email / CS	7/27/21	
6. Tim WEBB	SRO Validator		3/29/21	Tamabb. / C. Bhl	7/23/21	
7. CASSEY COYLE	SRO / EXAM VALIDATOR		04/02/21	Cassey Coyle Email / CS	7/23/21	
8. Joe Jordan	RO / Validator		4/2/21	J. Jordan Email / CS	7/28/21	
9. JOHN FRANZ	RO / VALIDATOR		4-2-21	J. Franz Email / CS	7/28/21	
10. M. Bonanno	Operations Director	M. Bonanno	4-5-21	M. Bonanno Email / CS	7/26/21	
11. M. V. V. V.	RO / Validator	M. V. V. V.	4-5-21	M. V. V. V.	7/12/21	
12. B. Potos	RO / Validator		4-5-21	B. Potos Per Telecon / CS	7/29/21	
13. K. COREY	RO / VALIDATOR		4/6/21		7/22/21	
14. ROBERT BIECHY	RO / VALIDATOR		4/6/21		7/22/21	
15. Jason Belair	SRO / Validator		4/8/21		7/24/21	

NOTES:



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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 7-12-21 to 7-22-21. 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. <u>WILL PRATT</u>	<u>SRO / VALIDATOR</u>	<u>Will Pratt</u>	<u>4/14/21</u>	<u>Will Pratt Email / CS</u>	<u>7/28/21</u>	
2. <u>Paul Krueger</u>	<u>Senior ops Specialist / EUP Coordinator</u>	<u>Paul Krueger</u>	<u>5/13/21</u>	<u>Paul Krueger Email / CS</u>	<u>7/22/21</u>	
3. <u>Paul Isham</u>	<u>Reg Exam Expert / Review</u>	<u>Paul Isham</u>	<u>5/19/21</u>	<u>Paul Isham Email / CS</u>	<u>7/23/21</u>	
4. <u>Maft Jones</u>	<u>SRO / Validator</u>	<u>Maft Jones</u>	<u>5/27/21</u>	<u>M. Jones Telecon / CS</u>	<u>7/28/21</u>	
5. <u>SD WILLIAMSON</u>	<u>SRO /</u>	<u>SD Williamson</u>	<u>6/7/21</u>	<u>J. D. Williamson Telecon / CS</u>	<u>7/28/21</u>	
6. <u>Wesley Hume</u>	<u>RO / Validator</u>	<u>Wesley Hume</u>	<u>6/7/21</u>	<u>Wesley Hume</u>	<u>7/22/21</u>	
7. <u>MICHAEL DAVIS</u>	<u>EP</u>	<u>Michael Davis</u>	<u>6/22/21</u>	<u>Michael Davis</u>	<u>7-23-21</u>	
8. <u>Elic Roga</u>	<u>Instructor</u>	<u>Elic Roga</u>	<u>6/22/21</u>	<u>Elic Roga</u>	<u>7-22-21</u>	
9. <u>Ben Sawyer</u>	<u>Instructor</u>	<u>Ben Sawyer</u>	<u>6/25/21</u>	<u>Ben Sawyer Email / CS</u>	<u>7/22/21</u>	
10. <u>JARRETT GRISHAM</u>	<u>Instr.</u>	<u>Jarrett Grisham</u>	<u>6/25/21</u>	<u>Jarrett Grisham</u>	<u>7-22-21</u>	
11. <u>ALEXANDER POLAR</u>	<u>RO / VALIDATOR</u>	<u>Alex Polar</u>	<u>6/30/21</u>	<u>Alex Polar Email / CS</u>	<u>7/23/21</u>	
12. <u>JIM ROBERTS</u>	<u>RO / VALIDATOR</u>	<u>Jim Roberts</u>	<u>6/30/21</u>	<u>J. Roberts Email / CS</u>	<u>7/26/21</u>	
13. <u>Daniel Nugent</u>	<u>SRO / Validator</u>	<u>Daniel Nugent</u>	<u>6/30/21</u>	<u>Daniel Nugent Email / CS</u>	<u>7/22/21</u>	
14. <u>KRIS STRAUSSER</u>	<u>SM / Validator</u>	<u>Kris Strausser</u>	<u>7/2/21</u>	<u>Kris Strausser Email / CS</u>	<u>7/22/21</u>	
15. <u>Scott Miller</u>	<u>INSTRUCTOR</u>	<u>Scott Miller</u>	<u>7/7/21</u>	<u>Scott Miller</u>	<u>7/23/21</u>	

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1. <u>Jesse Stoudt</u>	<u>Instructor</u>	<u>Jesse Stoudt</u>	<u>7/9/21</u>	<u>Jesse Stoudt Email / CS</u>	<u>7/27/21</u>	
2. <u>Richard Weiler</u>	<u>Instructor</u>	<u>Richard Weiler</u>	<u>7/12/21</u>	<u>Richard Weiler</u>	<u>7/22/21</u>	
3. <u>Tim Kan</u>	<u>INSTRUCTOR</u>	<u>Tim Kan</u>	<u>7/12/21</u>	<u>Tim Kan</u>	<u>7/26/21</u>	
4. <u>Evan Stone</u>	<u>Instructor</u>	<u>Evan Stone</u>	<u>7/12/21</u>	<u>Evan Stone per Email / CS</u>	<u>7/23/21</u>	
5. <u>Frank Brown</u>	<u>Instructor</u>	<u>Frank Brown</u>	<u>7/12/21</u>	<u>Frank Brown</u>	<u>7/22/21</u>	
6. <u>Terrell Brown</u>	<u>INSTRUCTOR</u>	<u>Terrell Brown</u>	<u>7/12/21</u>	<u>Terrell Brown</u>	<u>7/22</u>	
7. <u>Jeffrey Walter</u>	<u>Instructor</u>	<u>Jeffrey Walter</u>	<u>7/12/21</u>	<u>J. Walter Email / CS</u>	<u>7/23/21</u>	
8. <u>Keith Kemper</u>	<u>Sr Mg - Trn</u>	<u>Keith Kemper</u>	<u>7/12/21</u>	<u>Keith Kemper Email / CS</u>	<u>7/22/21</u>	
9. <u>MICHAEL CAMEL</u>	<u>INSTRUCTOR</u>	<u>Michael Camel</u>	<u>7/12/21</u>	<u>Michael Camel</u>	<u>7/22/21</u>	
10. <u>Andrew Yanger</u>	<u>Instructor</u>	<u>Andrew Yanger</u>	<u>7/13/21</u>	<u>A. Yanger / Email CS</u>	<u>7/26/21</u>	
11. <u>Rachel Heath</u>	<u>SOS</u>	<u>Rachel Heath</u>	<u>7/14/21</u>	<u>Rachel Heath / Email / CS</u>	<u>7/22/21</u>	
12. _____	_____	_____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____	_____

NOTES:

Facility: Limerick Gen Station		Date of Examination: 7/12/2021		Operating Test Number: 001	
1. General Criteria		Initials			
		a	b*	c#	
a.	The operating test conforms to the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	CS	dmw	JD	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	CS	dmw	JD	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a.).	CS	dmw	JD	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	CS	dmw	JD	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	CS	dmw	JD	
2. Walkthrough Criteria		--	--	--	
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>	CS	dmw	JD	
b.	Ensure that any changes from the previously approved systems and administrative walkthrough outlines (Forms ES-301-1 and ES-301-2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last two NRC examinations) specified on those forms and Form ES-201-2.	CS	dmw	JD	
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.		CS	dmw	JD	
a.	Author	Chris Bihl / <i>Chris Bihl</i>		Date	
b.	Facility Reviewer (*)	Jeff Weaver / <i>Jeff Weaver</i>		04/07/21	
c.	NRC Chief Examiner (#)	Joseph DeMantall / <i>Joseph DeMantall</i>		04/07/21	
d.	NRC Supervisor	Donald E. Jackson / <i>Donald E. Jackson</i>		4/30/21	
<p>* The facility licensee signature is not applicable for NRC-developed tests.</p> <p># The independent NRC reviewer initials items in column "c"; the chief examiner concurrence is required.</p>					



Facility: Limerick Gen Station Date of Exam: 7/12/2021 Scenario Numbers: 5006E / 6215E / 2158E Operating Test No.: 001				
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.	CS	mw	AD
2.	The scenarios consist mostly of related events.	CS	mw	AD
3.	Each event description consists of the following: <ul style="list-style-type: none"> <li>the point in the scenario when it is to be initiated</li> <li>the malfunction(s) or conditions 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>	CS	mw	AD
4.	The events are valid with regard to physics and thermodynamics.	CS	mw	AD
5.	Sequencing and timing of events is reasonable and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	CS	mw	AD
6.	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.	CS	mw	AD
7.	The simulator modeling is not altered.	CS	mw	AD
8.	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.	CS	mw	AD
9.	Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.	CS	mw	AD
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	CS	mw	AD
11.	The scenario set provides the opportunity for each applicant to be evaluated in each of the applicable rating factors. (Competency rating factors as described on Forms ES-303-1 and ES-303-3.)	CS	mw	AD
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).	CS	mw	AD
13.	Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.	CS	mw	AD
14.	The level of difficulty is appropriate to support licensing decisions for each crew position.	CS	mw	AD
<b>Target Quantitative Attributes per Scenario (See Section D.5.d)</b>		<b>Actual Attributes</b>	--	--
1.	Malfunctions after EOP entry (1-2)	2 / 2 / 2	CS	mw
2.	Abnormal events (2-4)	4 / 3 / 4 / 4	CS	mw
3.	Major transients (1-2)	1 / 1 / 1	CS	mw
4.	EOPs entered/requiring substantive actions (1-2)	2 / 2 / 2	CS	mw
5.	Entry into a contingency EOP with substantive actions ( $\geq 1$ per scenario set)	1 / 1 / 1	CS	mw
6.	Preidentified critical tasks ( $\geq 2$ )	2 / 3 / 2	CS	mw
<p>* The facility licensee signature is not applicable for NRC-developed tests.</p> <p># An independent NRC reviewer initials items in column "c"; chief examiner concurrence is required.</p>				

Facility: LGS			Date of Exam: 07/12/21										Operating Test No.: 1					
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(*)		
		SEG-5006E			SEG-6215E			SEG-2158E										
		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	
SRO-U (1)	RX														0	1	1	0
	NOR	1													1	1	1	1
	I/C	3,4,5, 6,8,9			2,3,4,5 7,8										12	4	4	2
	MAJ	7			6										2	2	2	1
	TS	2,5			3,4,5										5	0	2	2
SRO-I (1)	RX		4												1	1	1	0
	NOR							1							1	1	1	1
	I/C		3,5,6, 8,9			3,7,8		2,3,4,5, 6,8,9							14 15	4	4	2
	MAJ		7			6		7							3	2	2	1
	TS							3,4,5							3	0	2	2
SRO-I (2)	RX		4												1	1	1	0
	NOR														0	1	1	1
	I/C		3,5,6, 8,9		2,3,4,5 7,8										10 11	4	4	2
	MAJ		7		6										2	2	2	1
	TS				3,4,5										3	0	2	2
SRO-I (3)	RX					1									1	1	1	0
	NOR	1						1							2	1	1	1
	I/C	3,4,5, 6,8,9				2,4,5		2,3,4,5, 6,8,9							16	4	4	2
	MAJ	7				6		7							3	2	2	1
	TS	2,5						3,4,5							5	0	2	2

Instructions:

- 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 (SRO-I) 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 SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- 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 I/C malfunctions on a one-for-one basis.
- 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.
- For new reactor facility licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.



Facility: LGS		Date of Exam: 7/12/21		Operating Test No.: 1													
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(*)		
		SEG-5006E			SEG-6215E			SEG-2158E									
		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
SRO-I (4)	RX					1								1	1	1	0
	NOR	1									1			2	1	1	1
	I/C	3,4,5, 6,8,9				2,4,5					3,4,5 8,9			14	4	4	2
	MAJ	7				6					7			3	2	2	1
	TS	2,5												2	0	2	2
SRO-I (5)	RX								1					1	1	1	0
	NOR			1										1	1	1	1
	I/C			5,8	2,3,4,5 7, 8				2,6					<del>10</del> 9	4	4	2
	MAJ			7	6				7					3	2	2	1
	TS				3,4,5									3	0	2	2
RO-1	RX		4											1	1	1	0
	NOR									1				1	1	1	1
	I/C		3,5,6, 8,9				3,7,8				3,4,5 8,9			<del>12</del> 13	4	4	2
	MAJ		7				6				7			3	2	2	1
	TS													0	0	2	2
RO-2	RX					1								1	1	1	0
	NOR			1										1	1	1	1
	I/C			5,8		2,4,5								<del>5</del> 4	4	4	2
	MAJ			7		6								2	2	2	1
	TS													0	0	2	2

Instructions:

- 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 (SRO-I) 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 SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- 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 I/C malfunctions on a one-for-one basis.
- 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.
- For new reactor facility licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.

Facility: LGS		Date of Exam: 7/12/21										Operating Test No.: 1						
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(*)			
		SEG-5006E			SEG-6215E			SEG-2158E										
		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
RO-3	RX								1						1	1	1	0
	NOR			1											1	1	1	1
	I/C			5,8			3,7,8		2,6						7 6	4	4	2
	MAJ			7			6		7						3	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
	RX															1	1	0
	NOR															1	1	1
	I/C															4	4	2
	MAJ															2	2	1
	TS															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:

- 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 (SRO-I) 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 SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- 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 I/C malfunctions on a one-for-one basis.
- 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.
- For new reactor facility licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.



Facility: Limerick		Date of Examination: 07/12/21								Operating Test No.: 001							
Competencies	APPLICANTS																
	SRO-U (1)				SRO-I (1)				SRO-I (2)				SRO-I (3)				
	SCENARIO				SCENARIO				SCENARIO				SCENARIO				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Interpret/Diagnose Events and Conditions	1-9	1-8			1-9	1-8	1-9		1-9	1-8			1-9	1-8	1-9		
Comply with and Use Procedures (1)	1-9	1-8			1-9	1-8	1-9		1-9	1-8			1-9	1-8	1-9		
Operate Control Boards (2)					1-9	1-8			1-9					1-8			
Communicate and Interact	1-9	1-8			1-9	1-8	1-9		1-9	1-8			1-9	1-8	1-9		
Demonstrate Supervisory Ability (3)	1-9	1-8					1-9			1-8			1-9		1-9		
Comply with and Use TS (3)	2, 5	3,4, 5					3,4, 5			3,4, 5			2, 5		3,4, 5		
Notes: (1) Includes TS compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.																	

**Instructions:**

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant. (This includes all rating factors for each competency.) (Forms ES 303 1 and ES 303 3 describe the competency rating factors.)

Facility: Limerick		Date of Examination: 07/12/21				Operating Test No.: 001										
Competencies	APPLICANTS															
	SRO-I (4)				SRO-I (5)				RO (1)				RO (2)			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	1-9	1-8	1-9		1-9	1-8	1-9		1-9	1-8	1-9		1-9	1-8		
Comply with and Use Procedures (1)	1-9	1-8	1-9		1-9	1-8	1-9		1-9	1-8	1-9		1-9	1-8		
Operate Control Boards (2)		1-8	1-9		1-9		1-9		1-9	1-8	1-9		1-9	1-8		
Communicate and Interact	1-9	1-8	1-9		1-9	1-8	1-9		1-9	1-8	1-9		1-9	1-8		
Demonstrate Supervisory Ability (3)	1-9					1-8										
Comply with and Use TS (3)	2, 5					3,4,5										
Notes: (1) Includes TS compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.																

**Instructions:**

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant. (This includes all rating factors for each competency.) (Forms ES 303 1 and ES 303 3 describe the competency rating factors.)



Facility: Limerick		Date of Examination: 07/12/21				Operating Test No.: 001											
Competencies	APPLICANTS																
	RO-3																
	SCENARIO				SCENARIO				SCENARIO				SCENARIO				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Interpret/Diagnose Events and Conditions	1-9	1-8	1-9														
Comply with and Use Procedures (1)	1-9	1-8	1-9														
Operate Control Boards (2)	1-9	1-8	1-9														
Communicate and Interact	1-9	1-8	1-9														
Demonstrate Supervisory Ability (3)																	
Comply with and Use TS (3)																	
Notes: (1) Includes TS compliance for an RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.																	

**Instructions:**

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant. (This includes all rating factors for each competency.) (Forms ES 303 1 and ES 303 3 describe the competency rating factors.)

Facility: <b>LGS</b>		Date of Exam: 07/22/21 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	CB	DJS	AD
2. Proposed answer key changes and question deletions justified and documented (facility reviewer initials not required (N/R) if NO post-examination comments are submitted) <i>N/R</i>	<i>N/A</i> CB	DJS	<i>N/R</i> AD
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	CB	DJS	AD
4. Grading for all borderline cases (80% $\pm$ 2% overall and 70% or 80%, as applicable, $\pm$ 4% on the SRO-only exam) reviewed in detail	CB	DJS	AD
5. All other failing examinations checked to ensure that grades are justified <i>N/A</i>	CB	DJS	AD
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by one-half or more of the applicants	CB	DJS	AD

Printed Name/Signature	Date
a. Grader <u>Christopher Bihl / Christopher Bihl</u>	<u>7/27/21</u>
b. Facility Reviewer(*) <u>Daniel J Semeter / Daniel Semeter</u>	<u>7/28/21</u>
c. NRC Chief Examiner (*) <u>Joseph DeMarshall / Joseph DeMarshall</u>	<u>8/9/21</u>
d. NRC Supervisor (*) <u>Donald E. Jackson</u>	<u>8/18/21</u>

(\*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.