Facility:	Limerick Units 1 & 2 Date of Examination: 11/26/2018	3		
Develope	ed by: Written: Facility 🛛 NRC 🔲 // Operating: Facility 🖾 NRC 🔲			
Target Date*	Task Description (Reference)	Chief Examiner's Initials		
-240	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).	BF		
-210	NRC examiners and facility contact assigned (C.1.d; C.2.f).	BF		
-210	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).	BF		
-210	4. Reference material due for NRC-prepared exams (C.1.e; C.3.c; Attachment 3).	N/A		
-210	5. Corporate notification letter sent (C.2.e).	BF		
-195	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).	BF		
-150	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).	BF		
-136	8. Operating test outline(s) reviewed by the NRC and feedback provided to facility licensee (C.2.h; C.3.d–e).	BF		
-75	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).	BF		
-75	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).	BF		
-60	11. Preliminary waiver/excusal requests due (C.1.m; C.2.c; ES-202).	BF		
-50	12. Written exam and operating test reviews completed (C.3.f).	BF		
-35	13. Examination review results discussed between the NRC and facility licensee (C.1.i; C.1.k– I; C.2.h; C.3.g). The NRC and the facility licensee conduct exam preparatory week.	BF		
-7	14. Preliminary license applications and waiver/excusal requests, as applicable (NRC Form 398) due (C.1.m; C.2.i; ES-202).	BF		
-7	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).	BF		
-7	16. Written examinations and operating tests approved by the NRC supervisor (C.2.j–k; C.3.h).	BF		
-7	17. Request facility licensee management feedback on the examination (C.2.I).	BF		
-7	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).	BF		

^{*} 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.

tem	Task Description		Initia	s					
	Task 2000 Ipalon	а	b*	С					
1.	a. Verify that the outline(s) fit(s) the appropriate model in accordance with ES-401 or ES-401N.	TAS	NIA	F					
W R I	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 or ES-401N and whether all K/A categories are appropriately sampled.	TAS	ΝIA	F					
T	c. Assess whether the outline overemphasizes any systems, evolutions, or generic topics.	TDS	NIA	F					
E N	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	TAG	NIA	F					
2. S	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.	TAS	ઇન્હ	F					
I M U L A T	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and that scenarios will not be repeated on subsequent days.	TAS	590	F					
O R	c. To the extent possible, assess whether the outline(s) conforms with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D and in Section D.5, "Specific Instructions for the 'Simulator Operating Test," of ES-301 (including overlap).	as	Surg	6					
3. W A L K T H	 a. Verify that the systems walkthrough outline meets the criteria specified on Form ES-301-2: (1) The outline(s) contains 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 radiologically controlled area tasks meets the criteria on the form. 								
R O U G H	 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. 	DUS.	SIAB	F					
	 Determine whether there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days. 	TAB	5993	F					
4.	Assess whether plant-specific priorities (including probabilistic risk assessment and individual plant examination insights) are covered in the appropriate exam sections.	TAS	sæs	F					
G E	b. Assess whether the 10 CFR 55.41, 55.43, and 55.45 sampling is appropriate.	TPa	508	F					
N E	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	-	\$43	F					
R	d. Check for duplication and overlap among exam sections and the last two NRC exams.	TAI	SIMS.	F					
A L	e. Check the entire exam for balance of coverage.	TAS	SPC	F					
	f. Assess whether the exam fits the appropriate job level (RO or SRO).		5340	F					
b. c.	Author Facility Reviewer (*) NRC Chief Examiner (#) NRC Supervisor Printed Name/Signature Severy Savery Severy S	ngs/cz	Da 6/27 6/28 7/10 7/10	. / .					

does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements the week(s) of 11/26/15 - 12/07/17 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 I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for the week(s) of 112618 - 120418 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to 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 (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 feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, examiner any indications or suggestions that examination security may have been compromised.

Post-Examination તં

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 \(1/\delta 1/\del	SIGNATURE (2) DATE NOTE	124/18 (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2001) (2
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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 <u>11/26/18-12/03/18</u> . From the date that I entered into this security agreement until the completion of examination administration, I 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.	JOB TITLE/RESPONSIBILITY	Exam Anthor SIMULAND CORRUPTED EXAM ANTHON EXAM ANTHON OPS SERVICE MANAGE TO AMUNT T
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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 the week(s) of W/36/18 - 12/3/18 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 I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, 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.

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Post-Examination તં

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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 11/26/11 - 14/07/18 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.	SIGNATURE (1)	and Market	
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does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for the week(s) of white information about these examinations to 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 as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC's chief 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 examiner any indications or suggestions that examination security may have been compromised

Post-Examination ri

during the week(s) of /126/18 - 12-67-18. 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 To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered noted below and authorized by the NRC. ES-201, Page 31 of 31

E NOTE	26618 20618 1240kB
DATE	20 mg/s
DATE SIGNATURE (2)	172618 Jan S. Lew (2-mail) 11-27-18 The for Briss Marin (2-mail) 12/57/18
SIGNATURE (1)	The Suit
JOB TITLE/RESPONSIBILITY	MATTRUGAGE
PRINTED NAME	1. TODO SLICKES 2. JOANNA LEW 3. Beied Devine 4. RAY BOHNOR 5. 6 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6. 6

Facilit	y: Limerick Date of Examination: 11/26/18 Operating Test N	umber:	001							
	1. General Criteria		Initia	ls						
		а	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).	TAS	æ	F						
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	TUS	e	F						
C.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a.).	103	C	F						
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	103	Q	F						
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	TIM	a	F						
	2. Walkthrough Criteria									
a.	Each JPM includes the following, as applicable: initial conditions initiating cues references and tools, including associated procedures reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee operationally important specific performance criteria that include— detailed expected actions with exact criteria and nomenclature system response and other examiner cues statements describing important observations to be made by the applicant criteria for successful completion of the task identification of critical steps and their associated performance standards restrictions on the sequence of steps, if applicable	119	æ	F						
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.	193	C	F						
	3. Simulator Criteria									
	ssociated simulator operating tests (sceпario sets) have been reviewed in accordance with ES-301-4, and a copy is attached.	Tes	e	F						
a. b. c. d. * The	Form ES-301-4, and a copy is attached. Printed Name/Signature a. Author b. Facility Reviewer (*) c. NRC Chief Examiner (#) d. NRC Supervisor * The facility licensee signature is not applicable for NRC-developed tests.									

Fac	ility: Limerick Date of Exam:11/26/18 Scenario Numbers: 1 / 2 / 3 Op	erating Test	No.: 00	1
	QUALITATIVE ATTRIBUTES		Initials	1
		а	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.	ce, 710	0	F
2.	The scenarios consist mostly of related events.	TAS	0	F
3.	1730	Q	F	
4.	The events are valid with regard to physics and thermodynamics.	1/14	e	F
5.	1738	e	F	
6.	NA M	Mr C	F	
7.	1713	@	F	
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.	rps	Q	F
9.	Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.	100	@	F
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	TPS	O	F
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.)	ממ	Q	F
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).	ed Ma	P	F
13.	Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.	TPS	a	F
14.	The level of difficulty is appropriate to support licensing decisions for each crew position.	100	æ	F
	Target Quantitative Attributes per Scenario (See Section D.5.d) Actual Attribute	s		
1.	Malfunctions after EOP entry (1–2) 2 / 2 / 2	TM	0	F
2.	Abnormal events (2–4) 4 / 3 / 4	1116	0	F
3.	Major transients (1–2) 1 / 1 / 1	103	P	F
4.	EOPs entered/requiring substantive actions (1–2) 2 / 2 / 2	TPS	0	F
5.	Entry into a contingency EOP with substantive actions (≥ 1 per scenario 1 / 2 / 1 set)	119	0	F
—— 6.	Preidentified critical tasks (≥ 2) 3 / 3 / 4	The	P	5

^{*} The facility licensee signature is not applicable for NRC-developed tests.
An independent NRC reviewer initials items in column "c"; chief examiner concurrence is required.

Faci	lity: Limerick Date of Exam:11/26/18 Scenario Numbers: 1 /	2 / 3 Operatin	ng Test	No.: 00	1					
	QUALITATIVE ATTRIBUTES			Initials	ı					
			а	b*	c#					
1.	The initial conditions are realistic in that some equipment and/or instrumentation but it does not cue the operators into expected events.	may be out of service,								
2.	The scenarios consist mostly of related events.									
3.										
	 the point in the scenario when it is to be initiated the malfunction(s) or conditions 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) 									
4.										
5.	Sequencing and timing of events is reasonable and allows the examination team evaluation results commensurate with the scenario objectives.	to obtain complete								
6.										
7.										
8.	nulator performance ure that functional									
9.	Scenarios are new or significantly modified in accordance with Section D.5 of ES	S-301.								
10.	All individual operator competencies can be evaluated, as verified using Form Esform along with the simulator scenarios).	S-301-6 (submit the								
11.	The scenario set provides the opportunity for each applicant to be evaluated in ear rating factors. (Competency rating factors as described on Forms ES-303-1 and									
12.	Each applicant will be significantly involved in the minimum number of transients on Form ES-301-5 (submit the form with the simulator scenarios).	and events specified								
13.	Applicants are evaluated on a similar number of preidentified critical tasks across possible.	scenarios, when								
14.	The level of difficulty is appropriate to support licensing decisions for each crew p	oosition.								
	Target Quantitative Attributes per Scenario (See Section D.5.d)	Actual Attributes								
1.	Malfunctions after EOP entry (1-2)	2 / 2 / 2								
2.	Abnormal events (2–4)	4 / 3 / 4								
3.	3. Major transients (1–2) 1 / 1 / 1									
4.	EOPs entered/requiring substantive actions (1–2)	2 / 2 / 2								
5.										
6.	Preidentified critical tasks (≥ 2)	3 / 3 / 4								

^{*} The facility licensee signature is not applicable for NRC-developed tests.
An independent NRC reviewer initials items in column "c"; chief examiner concurrence is required.

Facility: Limerick Date of Exam: 11/26/2018 Operating Test No.: 001																	
Α	Е							Sce	enarios								
P P	V E	(1) 3005	E	(:	2) 4058	E	(3) 6221	E	(4) 20	Т		М			
L	N	CRE	W POSI	TION	CRE\	W POSI	TION	CRE	W POS	ITION	CREV	0		l N			
I C A N T	T T Y P E	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	T A L	I M U M(*) R I		U
	RX													0	1	1	0
	NOR													0*	1	1	1
SRO-U (1)	I/C	1,2,3 4,5,6												6	4	4	2
	MAJ	7												1	2	2	1
	TS	1,2												2	0	2	2
	RX				1									1	1	1	0
	NOR													0*	1	1	1
SRO-U (2)	I/C				2,3,4 5									4	4	4	2
	MAJ				6									1	2	2	1
	TS				2,4									2	0	2	2
	RX							3						1	1	1	0
SRO-I (1)	NOR							1						1	1	1	1
SKU-I (1)	I/C		3,4,5				3,4,5	2,4 5,6						10	4	4	2
	MAJ		7				6	7						3	2	2	1
	TS							2,4						2	0	2	2
	RX								3					1	1	1	0
	NOR													0*	1	1	1
SRO-I (2)	I/C	1,2,3 4,5,6					3,4,5		5,6					11	4	4	2
	MAJ	7				-	6		7					3	2	2	1
	TS	1,2												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 (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.
- 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 I/C malfunctions on a one-for-one basis.
- 3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
- 4. 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: Lim	nerick		Date of Exam: 11/26/2018 Operating Test No.: 001														
A	E							Sce	narios								
P P	V E	(1) 3005	E	(2) 4058E			(3	3) 6221	E	(4) 20	016E S	pare	T M		М	
Ļ	N	CRE	W POSI	TION	CREW POSITION			CREV	V POS	ITION	CREV	ITION	0	١,	I N		
C A N T	T T Y P	S R O	A T C	B O P	S R O	A T C	В О Р	S R O	A T C	B O P	S R O	A T C	B O P	T A L	1	I M U M(*)	
	Е														R	I	U
SRO-I (3)	RX				1									0*	1	1	0
	NOR													0*	1	1	1
	I/C		3,4,5		2,3,4 5									7	4	4	2
	MAJ		7		6									2	2	2	1
	TS				2,4									2	0	2	2
	RX					1								1	1	1	0
	NOR													0*	1	1	1
RO-1	I/C			1,2,3 6		2,5								6	4	4	2
	MAJ			7		6								2	2	2	1
	TS													0	0	2	2
	RX					1								1	1	1	0
	NOR									1				1	1	1	1
RO-2	I/C			1,2,3 6		2,5				2,4				8	4	4	2
	MAJ			7		6				7				3	2	2	1
	TS													0	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 (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.
- 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 I/C malfunctions on a one-for-one basis.
- 3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
- 4. 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	Da	te of E	xami	nat	ion:	11/26	/2018		Operating Test No.: 001										
							APPL	_IC/	ANTS	3									
	;	SRO-U	(1)			SRO	-U (2)	Ş	SRO-I	(1)		SRO-I (2)							
Competencies	S	CENA	RIO		,	SCE	NARIO		S	CENA	ARIO		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			3-5, 7	3-8	2-9		1-9	3-8	3 5-8				
Comply with and Use Procedures (1)	1-9					1-8			3-5, 7	3-8	2-9		1-9	3-8	3 5-8				
Operate Control Boards (2)									3-5, 7	3-8				3-8	3 5-8				
Communicate and Interact	1-9					1-8			3-5, 7	3-8	1-9		1-9	3-8	3 5-8				
Demonstrate Supervisory Ability (3)	1-9					1-8					1-9		1-9						
Comply with and Use TS (3)	1,2					2,4					2,5		1,2						

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: 12/18/17				Operating Test No.: 001											
	APPLICANTS															
	SRO-I (3)			RO-1				RO-2								
Competencies	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	3-5, 7	1-8			1-3, 6-9	1,2 5,6			1-3, 6-9	1,2 5,6	1,2 4,7 9					
Comply with and Use Procedures (1)	3-5, 7	1-8			1-3, 6-9	1,2 5,6			1-3, 6-9	1,2 5,6	1,2 4,7 9					
Operate Control Boards (2)	3-5, 7				1-3, 6-9	1,2 5,6			1-3, 6-9	1,2 5,6	1,2 4,7 9					
Communicate and Interact	3-5, 7	1-8			1-3, 6-9	1,2 5,6			1-3, 6-9	1,2 5,6	1,2 4,7 9					
Demonstrate Supervisory Ability (3)		1-8														
Comply with and Use TS (3)		2,4														

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.)

Fa	cility: Limerick	Date of Exam: /2/06/18 Exam Level:	RO 🎙	SRO	文					
	Ite	Initials								
			а	b	С					
1,	Clean answer sheets	Ps	GB	F						
2.	Proposed answer key justified and documer (N/R) if NO post-exan	Org	CB	F						
3.	Applicants' scores ch (reviewers spot check	Ms	CB.	F						
4.	Grading for all border 80%, as applicable, ± detail	Op	OB	F						
5.	All other failing exami	Ves	CB	F						
6.	Performance on miss deficiencies and word questions missed by	Ob	CB	F						
	Prin	Date								
a.	Grader Todd A Byers 2/18									
b.	Facility Reviewer(*)	Christopher J. Bihl/C. Just QBih	[] TZ+T 1	2/07/18	ig					
c.	3 3 12 12 12 12 12 12 12 12 12 12 12 12 12									
d.	NRC Supervisor (*)	Donald Jackson Jel (1977)		12/17/1	8					
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.										