Facility: _	Limerio	ck Date of Examination: 10	0/9/12-10/19/12
Developed	by: W	/ritten - Facility NRC // Operating - Facility NRC	
Target Date*		Task Description (Reference)	Chief Examiner's Initials
-180	1.	Examination administration date confirmed (C.1.a; C.2.a and b)	9l
-120	2.	NRC examiners and facility contact assigned (C.1.d; C.2.e)	91
-120	3.	Facility contact briefed on security and other requirements (C.2.c)	4
-120	4.	Corporate notification letter sent (C.2.d)	ÄL
[-90]	[5.	Reference material due (C.1.e; C.3.c; Attachment 3)]	S)(
{-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)	81
{-70}	{7.	Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	M
{-45}	8.	Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6, and any Form ES-201-3 updates), and reference materials due (C.1.e, f, g and h; C.3.d)	- DL
-30	9.	Preliminary license applications (NRC Form 398's) due (C.1.l; C.2.g; ES-202)	*1
-14	10.	Final license applications due and Form ES-201-4 prepared (C.1.I; C.2.i; ES-202)	M
-14	11.	Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	M
-14	12.	Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	4
-7	13.	Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	A
-7	14.	Final applications reviewed; 1 or 2 (if >10) applications audited to confirm qualifications / eligibility; and examination approval and waiver letters sent (C.2.i; Attachment 5; ES-202, C.2.e; ES-204)	M
-7	15.	Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	A
-7	16.	Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	X

^{*} Target dates are generally based on facility-prepared examinations and are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.
[Applies only] {Does not apply} to examinations prepared by the NRC.

Facility:	Limerick Date of Examination: 10/9/1	_ 2-10/19)/12	
140.00	Tool Description		Initials	S
Item	Task Description	a	b*	c#
1. W	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	g Mg	N/A	
R	 Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled. 	MA	N/A	18
T	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	MA	N/A	W.
E N	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	YMIA	N/AC	X
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. 	/my	N/A	7
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.	TMP B	N/A	() 780
O R	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.	THE	N/A	M
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. 	Thy A	N/A	N.
	 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 	7 M/	N/A	y
	 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. 	MERO	N/A_	M
4.	Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	THE	N/A_	X
G E	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	TAN	N/AC	X /
N E	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	THE	N/A	
R	d. Check for duplication and overlap among exam sections.	OM	N/A	M
Ĺ	e. Check the entire exam for balance of coverage.	THE	N/A	Χ̈́
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	YMP	N/Ac=	
c. NRC	Pripte Name/Signature The pripte Name/Signature		10/4 10/4	1/2
Note:	# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence req * Not applicable for NRC-prepared examination outlines	uired.	_	

1

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) 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 <u>iofs-lefthar</u> 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. WESLEY HENNE	20	Wy Han	8/7/12 Wa	s Henry paremail	1 76.35.12
2. DAVID PROCUPIO	RO.	New Kine	8/2/12 1	al flor	10-24-12
3. Loseph Fessenmer	\$ lo	- Aux	8-7-12 See	Frescenthyer ana: 1)	10-24-12
4. Brian Degue	SRU,	BRITIS	8-8-12 3	ara	10-23-12
5. Leanard E. Pierce	Contract Instructor	Blierce	7/8/12	Rurie	10/23/13
6. Mark of Johnston	_ R0	allured Donte	8/14/12 M	lark Johnstonzneil	6 words
7. Craig A. Fritz	SRO	(raig Cl. And)	8/10/12 Coa	Ta Forty por email	Lplala
8. MAKKERIM	EP MANAGE	College.	8/14/12		10/25/12
9. Charles Rigsbace	Similator Driver	Millelotet	8/23/12	harlie Rigshie feloc	un 10/35/U
10. Robert D. Mandik	5RO	Robert DMandel	8/30/12 1	\ \ 4 _\dagger	10-23-12
11. ROBERT RUFFE	OTM	Pizoth	9/5/12	my man	10/24/12
12. 5274 MITTEN	SRO	White o	9/11/12	to like	10/31/12
13. Vince Bower	Ro	Val Marily	9/11/12	To Much	10/23/R
14. OREW SHAWEN	RO	Drew S Sham	9/11/12 D	n-Both	10/24/12
15. John W Kelle	COMPONET INST	I kalle	9/11/12	Jekuin	10/23/1
NOTES:					

1. <u>Pre-Examination</u>

10/8/134

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <u>M/5//2</u> 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 logo persons are 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. Lee Stanford	Exam Author	In St	Sulla	lu Do	10/19/2
Jote	12. John Koello	SEG AUTHOR	A Kar Can	2/14/12	- Kalin	3/27/12
	3. Jeffrey Klenk	EXAM Co Duther	Jeffy Kler	2/15/12)	off KKAK pur telu	con 10/25/12
	4. Scott Messner	Simulator IT	Se 41mg	3/21/12	Six Mu-	10/25/12
	5. EDWARD G. CAPITER	ACTING SIMULATOR COORDINATOR	Clyour	032112 20	d Corter per jeleu	m 1010/12
	6. DARREN A. WENTR	Simulah IT	Dan A Wern	037112 17	Jam R. Wear	10/24/12
	7. Kerin Korch	120	Kon Kon	2/2/12	Kein Kund	60/26/12
	8. FRED J. BRUNS	OTPS	Jonn	_3/26/12_I	red Brown for emai	
	9. John Warshay	OPS Fic Rep		3/24/12		10/23/12
	10. Todd A Byers	LOR Instructor	alle.	5/25/12	augar.	10/22/12
	11 Daviel Weikswar	LOC INSTRUCTOR	16 themes Warkary	4/1/12	Shufflakon	10/53/2
	12. KULINEL SMOLINSKY	clerk	Killel Om Hilbley	_ 61312	MELLOMALIAN	18124112
	13. VINCE Hydro	SIMULATOR COORDINATOR	Until	73/12(uner tes	10/24/12
	14. SAMUEL M. WIRD	SIMULATOR COORD:NATOR	Spril mol	78/38/12	Sommer of the	10/14/12 NA
	15. Croix A. Nottmon	Restorky men Moneyer	30 KM	7/3/12 <	craia Horaman	L.142612
	NOTES: 4	0 1 0) per ama	
				,	1	

Note 1: John Loelle was removed from Exam Security on 3/27/12 due to his involvement with deneloping scenerio guides the was not exposed to any ILT NRC Exam maxerial 455 3-27-12

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Icharlows 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 ICTS-ICHTCHFrom 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. Bill Soleso	OPS SED / Supervisor	Bestin	9/14/12 1	3:11 Sola pereneil	19.25-0
2. John Harkins	Ope SAC/ Syrvina	Style failer !		ohn Hocking per email	10-35-12
3. Dave Warner	OPS RO	All har a	7-19-12-6	- Aller	10-25-12
4. RORGET C. BLOWN	Eof Program Manager	fold C. Bered	<u> 4/21/12</u>	falel C. Drome.	
5. JD WILLIAMSON	OPS 128	Illillist:	9.28.12		10.25.12
6. M.R. Germish	OPS 520	Herboek. Binush	Stepler 1	like Gormish Sma.	(// is 0
7. Jeff Weaver	OPS SEU	Johns K alleaven	9/28/12	12ff Weever par ema	1 640-75-12
8. FICK CONTROLLA	OPS GLE WRITER	of Centulla	10-2-12 1	2. ex Contrilla pec	W-35-012
9. Michael Gillin	Shift Operations Siparinkely	Michael Boll.	10/3/R M	ite Gillin Perusiona	10-26-13
10. Williant Matin	OP5 550	Willia Halles	10/4/12 G	WELLE HETTING	-JUIZ311Z
11. CHELES, TREELA	OPS INST	Thick !	plula (Larlie Tirella Per teles	10/20/12
12-Kote 10-26-12				Par teles	*1
13.					
14.					
15.					
NOTES:					

Facili	Limerick Date of Examination: 10/09/12 Operating Test Number	er: 1		
			Initial	s
	1. General Criteria	а	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).	MI	N/A	N/
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	mer/a	N/A	A
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	MY /	N/A	7+1
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	1188/4	N/A S	M
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	MPE/F	N/A	M
	2. Walk-Through Criteria			
a.	 Each JPM includes the following, as applicable: initial conditions initiating cues references and tools, including associated procedures reasonable and validated time limits (average time allowed for completion) and specific 	mpe/	N/A	Ŋ
	 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 	140		
	 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 			
b.	Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.	MPP/	N/A	N
	3. Simulator Criteria			
	ciated simulator operating tests (scenario sets) have been reviewed in accordance with 301-4 and a copy is attached.	MP/	N/A	A
	Printed Name / Signature	D	ate	
а.	nor J.DeMarshall / Morrison M.Patel/ Wills C.Lally	9/	27)	12_
b.	lity Reviewer(*)		N/A	
	C Chief Examiner (#) Supervisor D. Jackson / D. Jackson	9/	<u>27//</u> 3/12	
ļ	<u> </u>			
NOT	* The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c": chief examiner concurrence required.			

Facilty	y: Limerick Date of Exam: 10/09/12	Scenario Numbers: 1/2/4	Operating Test No.: 1
	QUALITATIVE ATT	RIBUTES	Initials
			a b* c#
1.	The initial conditions are realistic, in that some equ of service, but it does not cue the operators into ex	ripment and/or instrumentation may be opected events.	out MPra N/A
2.	The scenarios consist mostly of related events.		MPP/D) N/A
3.	 Each event description consists of the point in the scenario when it is to be initial the malfunction(s) that are entered to initiate the symptoms/cues that will be visible to the control the expected operator actions (by shift position) the event termination point (if applicable) 	the event crew	MP/ N/A
4.	No more than one non-mechanistic failure (e.g., pi without a credible preceding incident such as a sei		rio MP/A N/A
5.	The events are valid with regard to physics and the	ermodynamics.	MAP N/A
6.	Sequencing and timing of events is reasonable, and complete evaluation results commensurate with the		MAPPO N/A G
7.	If time compression techniques are used, the scena Operators have sufficient time to carry out expected Cues are given.		ts. MILA
8.	The simulator modeling is not altered.		MARKO NIA X
9.	The scenarios have been validated. Pursuant to 10 performance deficiencies or deviations from the ref to ensure that functional fidelity is maintained while	ferenced plant have been evaluated	MPP/A N/A
10.	Every operator will be evaluated using at least one All other scenarios have been altered in accordance		MAPAO N/A
11.	All individual operator competencies can be evaluated (submit the form along with the simulator scenarios		MIP/D N/A
12.	Each applicant will be significantly involved in the specified on Form ES-301-5 (submit the form with		nts W/// N/A
13.	The level of difficulty is appropriate to support licen	sing decisions for each crew position.	MI/D N/A
	Target Quantitative Attributes (Per Scenario; Se	e Section D.5.d) Actual A	ttributes
1.	Total malfunctions (5–8)	7/8	/8 W// N/A
2.	Malfunctions after EOP entry (1–2)	2/1	/1 MPP/D N/A
3.	Abnormal events (2–4)	2/5	13 MAP/A N/A
4.	Major transients (1–2)	1/2	/1 // N/A
5.	EOPs entered/requiring substantive actions (1–2)	2/1	12 MAJ A N/A
6.	EOP contingencies requiring substantive actions (0	-2) 1/2	11 N/P/P N/A
7.	Critical tasks (2–3)	3/2	12 marka N/A

Facility:	imerick				Date	e of E	xam: 10)/9/12-1	10/12/1	2		(Operati	ng Te	est N	o.: 1	
Α	Е							Sc	enari	os							
P P	V E		1			2			3			4		Т		М	
	N		REW			CRE\			CREV			CREV OSITIO		O T A	 	N I	
C A N	TY	S R O	A T C	ВОР	ØRO	A T C	ВОР	S R O	A T C	B O P	S R O	A T C	B O P	L	- 1	M U M(*)	Γ
Ť	P E														R		U
RO [RX			0		1							0	1	1	1	0
SRO-I	NOR			0		0							0	0	1	1	1
	I/C			4		2							3	9	4	4	2
SRO-U	MAJ			1		2							1	4	2	2	1
	TS			0		0							0	0	0	2	2
RO Z	RX			0								1		1	1	1	0
SRO-I	NOR			0								0		0	1	1	1
	1/C			4								3		7	4	4	2
SRO-U	MAJ			1								1		2	2	2	1
	TS			0				<u></u>				0		0	0	2	2
RO 3	RX			0			0	ļ. <u> </u>				1		1	1	1	0
SRO-I	NOR I/C			0			0					0		0	1	1	1
SRO-U	MAJ			4			3					3		10	4	4	2
	TS			0			0					0		0	0	2	2
RO 4	RX			U		1	0					U	0	1	1	1	0
 	NOR					0							0	0	1	1	1
SRO-I	I/C					2							3	5	4	4	2
SRO-U	MAJ					2							1	3	2	2	1
	TS					0							0	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 must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO additionally serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- 2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
- 3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility: L	imerick				Date	e of E	xam: 10	/9/12-1	10/12/1	2			Operati	ng Te	est N	o.: 1	
Α	E							Sc	enari	os							
P P	V E		1			2			3	_		4		Т	l .	М	
L	N		REW			CRE			CREV			CREV		O T	l	۱ ۱	
l l	Т	PO	SITIC	N	PC	SIT	ON	PC	SITIO	NC	PC	SITIO	ИС	A	l	I M	
C A	T	S R O	A T C	В О Р	S R O	A T C	B O P	S R O	A T C	В О Р	S R O	A T C	В О Р	L	(VI J M(*)	
N T	Y P E	0		F	0	C	r		C	F	O	C			R	1	U
RO	RX	1					0					1		2	1	1	0
SRO-I (NOR	0					0					0			1	1	1
SRO-I	I/C	6					3					3		12	4	4	2
SRO-U	MAJ	1					2					1		4	2	2	1
	TS	2					0					0		2	0	2	2
RO	RX	1				1							0	2	1	1	0
SRO-l Z	NOR	0				0							0	0	1	1	1
	I/C	6				2							3	11	4	4	2
SRO-U	MAJ	1				2							1	4	2	2	1
	TS	2				0							0	2	0	2	2
RO	RX		1		1						1			3	1	1	0
SRO-I 3	NOR		0		0						0			0	1	1	1
SRO-U	I/C		4		5						6			15	4	4	2
	MAJ		1		2						1			4	2	2	1
RO	TS RX		0		<u>3</u> 1						3			6 3	0	1	0
	NOR		0		0						0			0	1	1	1
SR0-14	I/C		4		5						6			15	4	4	2
SRO-U	MAJ		1		2						1			4	2	2	1
	TS		0		3						3			6	0	2	2

Instructions:

- 3. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO additionally serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- 4. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
- 3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility: L	imerick				Date	e of E	xam: 10	/9/12-1	0/12/1	2		(Operati	ng Te	est N	o.: 1	
Α	E							Sc	enari	os							
P P	V E		1			2			3			4		Т		М	
L	N		REW			CRE			CREV			CREV		O T		N	
	Т		SITIC			SITI			SITIO			SITIO	1	Α		ı M	
C A N	T	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	В О Р	L		U M(*)	
T	Y P E			,	Ŭ	Ü			Ü	'	Ü				R	1	U
RO	RX		1				0				1			2	1	1	0
SRO-1 5	NOR		0				0				0			0	1	1	1
SRO-1 S	I/C		4				3				6			13	4	4	2
SRO-U	MAJ		1				2				1			4	2	2	1
	TS		0				0				3			3	0	2	2
RO	RX				1									1	1	1	0
SRO-I	NOR				0									0	1	1	1
	I/C				5									5	4	4	2
SRO-U I	MAJ				2									2	2	2	1
	TS				_3									3	0	2	2
RO	RX	1												1	1	1	0
SRO-I	NOR	0												0	1	1	1
	I/C	6												6	4	4	2
SRO-U Z		1												1	2	2	1
	TS	2												2	0	2	2
RO	RX														1	1	0
SRO-I	NOR														1	1	1
SRO-U	1/C														4	4	2
SKO-0	MAJ							-							2	2	1
	TS							L							0	2	2

Instructions:

- 5. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO additionally serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- 6. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
- 3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility: Limerick	Date o	f Exa	mina	tion:	10/9/	12-10/	/12/12		Ope	rating	g Tes	t No).:			
					APPLICANTS											
	S	(SRO) RO SRO-I SRO-U				(ATC) RO ■ SRO-I ■ SRO-U □				(BC) RO-I RO-U	P)		RO [SRO-I [SRO-U [
Competencies	5	SCENARIO)	5	CENA	RIO		SCENARIO				SCENARIO			
·	1	2	4		1	2	4		1	2	4		1	2	4	
Interpret/Diagnose Events and Conditions	2-8	1-8	1-8		1-2, 4-7	1,3- 4,6,8	1-2, 5,7- 8		3-8	2, 5-8	3-4, 6-7					
Comply With and Use Procedures (1)	1-8	1-8	1-8		1-2, 4-7	1,3- 4,6,8	1-2, 5,7- 8		3-8	2, 5-8	3-4, 6-7					
Operate Control Boards (2)	N/A	N/A	N/A		1-2, 4-7	1,3- 4,6,8	1-2, 5,7- 8		3-8	2, 5-8	3-4, 6-7					
Communicate and Interact	1-8	1-8	1-8		1-2, 4-7	1,3- 4,6,8	1-2, 5,7- 8		3-8	2, 5-8	3-4, 6-7					
Demonstrate Supervisory Ability (3)	1-8	1-8	1-8		N/A	N/A	N/A		N/A	N/A	N/A					
Comply With and Use Tech. Specs. (3)	2,5	1,4, 5	1,2, 6		N/A	N/A	N/A		N/A	N/A	N/A					

Notes:

- (1) Includes Technical Specification 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.

Facility:	Limerick	Date of Exam: 10/9/12-10/	19/12 ————		Exam Level:	RO 🔜	SF	RO
							Initial	
		Item Description	<u> </u>			a	b*	c#
1.	Questions and answ	wers are technically accurate and ap	plicable to the	facility.		3 mp	N/A	A
2.		As are referenced for all questions. learning objectives are referenced a	s available.			3 MP	N/A	d
3.	SRO questions are	appropriate in accordance with Sect	on D.2.d of ES	S-401		MA	N/A	Atv.
4.		ess was random and systematic (If m				8 MA	N/A	À
5.	as indicated below the audit examents the audit examents X the examinat	n from the license screening/audit ex (check the item that applies) and app m was systematically and randomly of m was completed before the license ions were developed independently; certifies that there is no duplication; of	pears appropria developed; or exam was star or	ate:		44	N/A	A
6.	Bank use meets lim	nits (no more than 75 percent	Bank	Modified	New		N/A	
	from the bank, at le	ast 10 percent new, and the rest nter the actual RO / SRO-only	14/5	25/8	36/12	The		Al
7.	Between 50 and 60	percent of the questions on the RO	Memor	у	C/A		N/A	
	the SRO exam may selected K/As supp	the comprehension/ analysis level; exceed 60 percent if the randomly ort the higher cognitive levels; enter O question distribution(s) at right.	36/5		39/20	ing.		N
8.		its provided do not give away answe	rs			MA	N/A	M
9.		onforms with specific K/A statements and is appropriate for the tier to whi ied.				THY	N/A	
10.	Question psychome	etric quality and format meet the guid	elines in ES A	ppendix B.		THE	N/A <	*
11.		the required number of one-point, mend agrees with the value on the covered		tems;		YM	N/A	6/
c. NRC	or <u>J. De</u> lity Reviewer (*) Chief Examiner (#) Regional Supervisor	Marshall/ M. Pa J. Caruso/ D. Jackson/	Name / Signa	C. Lal	iv (Mrzy)	<u> </u>	[0] [0])

(*)

Facilit	y: Limerick	Date of Exam: 10/19/13	Exam	Level: R	o / s	RO 🗸
				Initials		
Item Description			a	b	۶	
Clean answer sheets copied before grading				O	*	
2.	Answer key changes and documented	and question deletions justified		NA	NIA C	NA
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)				@	X
4.	Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail				@	M
5.	 All other failing examinations checked to ensure that grades are justified 				(P)	X
6.	6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants			1	æ	%
Printed Name/Signature				Date		
a. Gr	ader	Caland Stanford/	M	Str	10.	24-17
b. Fa	cility Reviewer(*)	Cort Walton / J. Cal	Hall	5	10/	21/12
c. NRC Chief Examiner (*) John Curvo					<u> ///</u>	12/12
d. NF	RC Supervisor (*)	Donald Lack son / Why			ul	14/12
			$\overline{}$			

The facility reviewer's signature is not applicable for examinations graded by the NRC;

two independent NRC reviews are required.