Examination Preparation Checklist

Form ES-201-1

Developed	by: Written - Facility 🗹 NRC 🗆 // Operating - Facility 🗹 NRC 🗆	ion: $\frac{10/23-34}{11/3/0}$
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	TF
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	TF
-120	3. Facility contact briefed on security and other requirements (C.2.c)	TF
-120	4. Corporate notification letter sent (C.2.d)	TF
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	NA
{-75}	6. Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)	TF
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	TF
{-45}	 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) 	TF
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.I; C.2.g; ES-202)	TF
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.l; C.2.i; ES-202)	TF
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	TF
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	TF
-7	 Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h) 	TF
-7	 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 4; ES-202, C.2.e; ES-204) 	TF
-7	 Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k) 	TF
-7	 Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i) 	TF

case basis in coordination with the facility licensee.

[Applies only] {Does not apply} to examinations prepared by the NRC.

Examination Outline Quality Checklist

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Form ES-201-2

ionity.	Limer	ick Date of Examination: 10/	23/06	1. 	
m		Task Description	<u> </u>	Initials	
		·	a	b*	C#
I. N.L	а.	Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	MR	æ	TF
א ו	b.	Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	WR	R	TF
T T E	с.	Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	Rul	(m)	TF
Ň	d.	Assess whether the justifications for deselected or rejected K/A statements are appropriate.	Rul	Ø	TF
2. S	a.	Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	jur.	P	71
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 scenarios will not be repeated on subsequent days.	luk	œ	TF
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.	fik	Ø	TE
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 	uk	æ	TF
	b.	 Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form (2) at least one task is new or significantly modified (3) no more than one task is repeated from the last two NRC licensing examinations 	hur	Ø	19
	C.	Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	Rul	e	TF
4.	a.	Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	M	B	TI
G E	b.	Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	Kirk	R	17
N	c.	Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	Nel	R	1
E R	d.	Check for duplication and overlap among exam sections.	Kit	æ	11
A	e.	Check the entire exam for balance of coverage.	M4	SH.	1
L .	f,	Assess whether the exam fits the appropriate job level (RO or SRO).	fer	C	1
c. N	acility I RC Ch	Reviewer (*) Mark Crim ief Examiner (#) TODD FLSH JUDDA FIND pervisor MARUN SYKES Manu D.	8 8 8 8 8 9 9 M	106 106 106	

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2006 LIMERICK INITIAL LICENSE EXAM

Examination Security Agreement

Form ES-201-3

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

ES-201

EXAM SECURITY set on June 14, 2006

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <u>10/23/06</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

Exam Security no longer required 11/6/06 enline

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 **10/23/06**. 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	SIGNATIØRE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. Rick Rhode	Facility Author	pillide	6/14/06	Allide	11/6/06
2. Bill What	Exam Olicitar	ut anla	0/14/06	willing	- 1/6/08 + Las
3. JOHN HUNTER	- otim/ Aproven	- July Shutor	6/15/06	Fullione for John ,	Japhone 11/10/06
4. Vince Hydro	Sim COONDINMER	- Chine Dal	6/14/0 b		11/7/06
5. Chris Lally	Ops Training Program Spec.	mailed pm	(j 26/06	Riflinge jos Chris	
6. Kouris holly	Technolog / Mlanager	Mittin Kally	7/12/06_	M. Ken Fally	
7. DAVED MONAHAN	EXAM WRITER	D Monahart	7/17/20-	Monul	
8. Elecu Geiger	EXAM TYDIST	- Ciler Derger		Reflustefor Eiken vie	email 11/7/96
9. Michael Buckner	Ops Training ProgramSped	Michael Buch	7/20/06_	Reflecte for Mike	Vig-email 117/06
10. Scott Messner	Sim Software	Sever Mon	7/24/06	Ser Mun	11/10/05/
11. MARK CRIM	FAculit Reviewen	anti	8/2/26	all lighter Mark in	a errail 11/71/06
12. JOHN KOELLE	GRAM WRITEN	John , Noelle	8-14-06	fullisse for Jann	via priore III:1100
13. Edward Dennin	Fucility Representative	Elita		Allude for Need via	
14. John Weising	QUAT SRO	- the second	<u>8/16/00</u>	Reflecte for John !	la empil 1117100
15. RICK LENTROLLA	RO	glentulla	8-16-66	Alfhade for Kick Vie	erreit 11/7/06
NOTES:				۲	•

2006 LIMERICK INITIAL LICENSE EXAM

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

ES-201

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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 **10/23/06**. 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. LANEMCHUGH	Reactor O serator	Jsnaph.	8/16/2	purpole for Lane.	ia email 11/7/06
2. Kevin Korch	It c	Kella yout	Elinlos	Kein Vorch	
3. BRETT COSTELLO	REACTOR OPERATOR	wind !!	8.17.96	Ellede for Bre	t via email 11/8/06
4. Dava Amtstield	SRO	Dalates	8/17/6	Rellinde for Do	1 va enai (1113/06
5 EFFRE M STEVENS	SRO	CAR T	8/17/06	Ellipse on Jeff	Vig-engi (,11)8/06
6. Untria White Fin	RO	(MAIM. CALMA	_slinds.	Alphalefor Cindy	via ewait 11/7/060
7. BRIANT. Devine	RO	BIT A.	8.18.06	Pulleter Brian VI	a email 113/00
8. Craig A. Noffmen	580	Man Q. Sola	8/18/00	alludi for Craig vi	a email 11/7/06
9. ROBERTT. BIECHY		abut I Min		Rellica for Dob	
10. Tesse Brown	SRO	Jone Brown	21/06	Ellevele for Jesse	staemail 11/10/06
11. RANDY S. BUNCE	R.O.	- And Kan	8-29-00	6 allude for Ran	
12. KEIS W. STRANSSER	RO,	Kale Stitum	<u>8-29-06</u>	leftysi for Kni	5 v19 email 11 19106
13. Day A. Mr. Norski	LOR LED	Adala to	<u>9/22/20</u>	Ablin	11/0/00 100 100
14. Corey S. GOFF	CORPORATE OTPM	- CUASIAR	<u> </u>	Ellever for Corey	via email 117/00
15. Withher Held	INSTRUCEDE	monte	10/20/04	marker	1 ko/do
NOTES:					

Operating Test Quality Checklist

Form ES-301-3

Facility: Limerick	Date of Examination: 10/23/2006	Operating Test Num	iber:_	LT05-	
<u> </u>	1. GENERAL CRITERIA	<u> </u>	1	nitials	
			a	b*	c#
a. The operating test of sampling requirements	conforms with the previously approved outline; changes a ents (e.g., 10 CFR 55.45, operational importance, safety f	are consistent with function distribution).	4L	4Pr	TF
b. There is no day-to-o this examination.	day repetition between this and other operating tests to be	e administered during	R	900	TF
c. The operating test s	shall not duplicate items from the applicants' audit test(s)	(see Section D.1.a).	if a	(n)	TF
d. Overlap with the wr acceptable limits.	itten examination and between different parts of the oper	ating test is within	K	DA	TP
	operating test will differentiate between competent and le signated license level.	ss-than-competent	4	GM	TF
	2. WALK-THROUGH CRITERIA		-	-	
 initial condition initiating cues references an reasonable an designation if operationally i detailed system r statemer criteria fo identifica 		applicant	er.	GAD	F
outlines (Forms ES	anges from the previously approved systems and admini -301-1 and 2) have not caused the test to deviate from a listribution, bank use, repetition from the last 2 NRC exar I Form ES-201-2.	any of the acceptance	ØK	GD	TF
	3. SIMULATOR CRITERIA		'	-	
The associated simulator oper Form ES-301-4 and a copy is	rating tests (scenario sets) have been reviewed in accord attached.	dance with	lak	úP	TF
 a. Author b. Facility Reviewer (*) c. NRC Chief Examiner (#) d. NRC Supervisor 	Rick Rhode <u>Ned Dennin</u> TOD FISH JUDD FUSH MARVIN SYKES MONIND.	2	 _1/ _10	plate 25 26 18 18	100 06 06
NOTE: * The facility signat # Independent NRC	ure is not applicable for NRC-developed tests C reviewer initial items in Column "c"; chief examiner con	ncurrence is required.			

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Simulator Scenario Quality Checklist

ES-301

Form ES-301-4

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1

		and the second				
·	QUALITATIVE A	TRIBUTES			Initials	
				a	b*	c#
	initial conditions are realistic, in that some ice, but it does not cue the operators into a		on may be out of	in	40	TF
2. The	scenarios consist mostly of related events	š	· .	Her	G81	TT
3. Ead	n event description consists of the point in the scenario when it is to be the malfunction(s) that are entered to in the symptoms/cues that will be visible to the expected operator actions (by shift p the event termination point (if applicable	itiate the event o the crew position)		f.u.	ÚŊ	TF
4. No r with	nore than one non-mechanistic failure (e. out a credible preceding incident such as	g., pipe break) is incorporated int a seismic event.	o the scenario	UK.	GR	TF
5. The	events are valid with regard to physics an	d thermodynamics.		hal	90	TF
6. Seq	uencing and timing of events is reasonable plete evaluation results commensurate with the second sec	le, and allows the examination te ith the scenario objectives.	am to obtain	jul.	Ŵ	TF
Ope	ne compression techniques are used, the arators have sufficient time to carry out exp is are given.	scenario summary clearly so ind pected activities without undue ti	icates. ne constraints.	Kal	GPD	TF
8. The	simulator modeling is not altered.	• • • • • • • • • • • • • • • • • • •	•	/k	611	14
perf	scenarios have been validated. Pursuan ormance deficiencies or deviations from the nsure that functional fidelity is maintained	he referenced plant have been e	valuated	Keh	GPO	-14
10. Eve All o	ry operator will be evaluated using at leas other scenarios have been altered in acco	t one new or significantly modifie rdance with Section D.5 of ES-30	ed scenario. 01.	pl	PO	TF
	ndividual operator competencies can be e omit the form along with the simulator scen		ES-301-6	fil	(P)	1
	h applicant will be significantly involved in cified on Form ES-301-5 (submit the form		nts and events	KK	60	T
13. The	level of difficulty is appropriate to support	t licensing decisions for each cre	w position.	IK	10	1
Targe	et Quantitative Attributes (Per Scenario	; See Section D.5.d)	Actual Attributes		-	–
1. Tota	al malfunctions (5-8)		7/7/8	ikk	40	TF
2. Mal	functions after EOP entry (1-2)		1/3/3	Il	190	1
3. Abn	ormal events (2-4)		4/3/3	MR	100	R
4. Maj	or transients (1-2)		1/1/1	RR	an	1
5. EO	Ps entered/requiring substantive actions (1	-2)	2/1/2	Per	alo	~
6. EO	^D contingencies requiring substantive action	ons (0-2)	2/1/1	pl	40	1
7. Crit	cal tasks (2-3)		A1313	Ref	(AID)	K

EVENT TYPE X OR C IAJ S X IOR C IAJ S X IOR	PC S R O 1 2,3,4,5,7 6 2,4 1	1 CREW DSITIO A T C	DN B O P	Pr S R O	2 CREW OSITIC A T C	N B O P		enarios 3 CREW DSITIO A T C 2 3,5,7,9 6		PC S R O	4 CREW DSITIC A T C	P P	T O T A L 0 0 0 6 1 2 1 1 9	R 1 1 4 2 0 1 1	M I N U M(*) I 1 1 4 2 2 1	U 0 1 2 1 2 0 1
TYPE NOR CIAJ SXIOR CIAJ SXIOR	PC S R O 1 2,3,4,5,7 6 2,4		B O	P	CREW	N B O	PC S R O 3.4.5.7.8. 9 6	2 3,5.7,9	N	P		N	O T A L 0 0 6 1 2 1 1 1	1 1 4 2 0 1	I M U M(*) I I 1 4 2 2 1	U 0 1 2 1 2 0
TYPE NOR CIAJ SXIOR CIAJ SXIOR	PC S R O 1 2,3,4,5,7 6 2,4	DSITIO A T	B O	P	OSITIC	N B O	PC S R O 3.4.5.7.8. 9 6	2 3,5.7,9	N	P	DSITIC	N	A L 0 0 6 1 2 1 1	1 1 4 2 0 1	I M U M(*) I 1 1 4 2 2 1	U 0 1 2 1 2 0
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IAJ S IX IOR C IAJ S X	2,3,4,5,7 6 2,4						9	3,5,7,9					1 2 1 1	2 0 1	2 2 1	1 2 0
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IOR C IAJ S RX	2,3,4,5,7 6 2,4						3,4	3,5,7,9					1	1	1	0
IOR C IAJ S X	2,3,4,5,7 6 2,4							3,5,7,9					1	1		
C 1AJ S IX	2,3,4,5,7 6 2,4														1	1
IAJ S X	6 2,4												9	ł		,
s x	2,4							6		1				4	4	2
x							L						2	2	2	1
	1			1									2	0	2	2
IOR	1				4								1	1	1	0
													1	1	1	1
С	2,3,4,5,7				2,6								7	4	4	2
IAJ	6				5								2	2	2	1
S	2,4												2	0	2	2
ex					4								1	1	1	0
IOR	1												1	1	1	1
'C	2,3,4,5,7				2,6								7	4	4	2
/AJ 	6				5								2	2	2	1
'S 	2,4											1	2	0	2	2
TS ar balan nstrun tivity i	e not a ce-of-pi nent or manipu 5.d) but may be practica	pplical lant (B compo lations t must replac al, boti	ble for l OP)" p onent (l s may b be sigr ced wit h instru	RO app osition: I/C) ma be cond nificant h addit ument a pat prov	olicants s; Insta Ilfunctic lucted I per Se ional in and cor	a. ROs Int SRC Ins and Instrume Instrume Instrume	must s os musi i one m iormal o 2.2.a of ent or co nt malfu	erve in t do one ajor tra or <i>conti</i> Appen ompone nictions	both ti e sceni ansient rolled a dix D. ent ma s shoul	he "at-t ario, ind , in the abnorm (*) Rea Ifunctio d be in- petence	he-con cluding ATC p al conc activity ns on a cluded	trois (A at lease osition litions and no a 1-for- toward	(refei rmal 1 ba 1 ba hose	r to sis.		/ent
k bans	the S ar alan trun vity i b D.t ons	the applica S are not a alance-of-p trument or vity manipu on D.5.d) but ons may be ever practic	2,4 the applicant leve S are not applical alance-of-plant (B trument or compo vity manipulations on D.5.d) but must ons may be repla ever practical, bot	2.4 the applicant level and e S are not applicable for alance-of-plant (BOP)" p trument or component (i vity manipulations may be n D.5.d) but must be sign ons may be replaced wit ever practical, both instru- pure verifiable actions the	the applicant level and enter th S are not applicable for RO ap alance-of-plant (BOP)" position trument or component (I/C) ma vity manipulations may be conc on D.5.d) but must be significant ons may be replaced with addit ever practical, both instrument a pure verifiable actions that pro-	the applicant level and enter the oper- S are not applicable for RO applicants alance-of-plant (BOP)" positions; Insta trument or component (I/C) malfunction wity manipulations may be conducted to b D.5.d) but must be significant per Se ons may be replaced with additional in ever practical, both instrument and cor pure verifiable actions that provide inst	the applicant level and enter the operating te S are not applicable for RO applicants. ROs alance-of-plant (BOP)" positions; Instant SRC trument or component (I/C) malfunctions and vity manipulations may be conducted under r b D.5.d) but must be significant per Section C ons may be replaced with additional instrume ever practical, both instrument and componer pure verifiable actions that provide insight to	the applicant level and enter the operating test num S are not applicable for RO applicants. ROs must s alance-of-plant (BOP)" positions; Instant SROs must trument or component (I/C) malfunctions and one m vity manipulations may be conducted under normal of D.5.d) but must be significant per Section C.2.a of ons may be replaced with additional instrument or co ever practical, both instrument and component malfu	the applicant level and enter the operating test number and S are not applicable for RO applicants. ROs must serve in alance-of-plant (BOP)" positions; Instant SROs must do on- trument or component (I/C) malfunctions and one major tra- vity manipulations may be conducted under normal or <i>cont</i> . n D.5.d) but must be significant per Section C.2.a of Appen ons may be replaced with additional instrument or compon- ever practical, both instrument and component malfunctions applies werfiable actions that provide inside to the applicant?	the applicant level and enter the operating test number and Form S are not applicable for RO applicants. ROs must serve in both t alance-of-plant (BOP)" positions; Instant SROs must do one scen trument or component (I/C) malfunctions and one major transient vity manipulations may be conducted under normal or <i>controlled</i> a n D.5.d) but must be significant per Section C.2.a of Appendix D. ons may be replaced with additional instrument or component ma ever practical, both instrument and component malfunctions shoul puire verifiable actions that provide insight to the applicant's comr	the applicant level and enter the operating test number and Form ES-D- S are not applicable for RO applicants. ROs must serve in both the "at-t alance-of-plant (BOP)" positions; Instant SROs must do one scenario, ind trument or component (I/C) malfunctions and one major transient, in the vity manipulations may be conducted under normal or <i>controlled</i> abnorm on D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Rea ons may be replaced with additional instrument or component malfunctions ever practical, both instrument and component malfunctions should be in pure verifiable actions that provide insight to the applicant's competence	the applicant level and enter the operating test number and Form ES-D-1 even S are not applicable for RO applicants. ROs must serve in both the "at-the-con alance-of-plant (BOP)" positions; Instant SROs must do one scenario, including trument or component (I/C) malfunctions and one major transient, in the ATC p vity manipulations may be conducted under normal or <i>controlled</i> abnormal cond on D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity ons may be replaced with additional instrument or component malfunctions on a ever practical, both instrument and component malfunctions should be included pure verifiable actions that provide inside to the applicant's competence count	the applicant level and enter the operating test number and Form ES-D-1 event numb S are not applicable for RO applicants. ROs must serve in both the "at-the-controls (<i>I</i> alance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at lea- trument or component (I/C) malfunctions and one major transient, in the ATC position wity manipulations may be conducted under normal or <i>controlled</i> abnormal conditions on D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and no ons may be replaced with additional instrument or component malfunctions on a 1-for ever practical, both instrument and component malfunctions should be included; only to pure verifiable actions that provide insight to the applicant's competence count toward	the applicant level and enter the operating test number and Form ES-D-1 event numbers f S are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" alance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least trument or component (I/C) malfunctions and one major transient, in the ATC position. <i>vity</i> manipulations may be conducted under normal or <i>controlled</i> abnormal conditions (refer b D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal ons may be replaced with additional instrument or component malfunctions on a 1-for-1 ba	the applicant level and enter the operating test number and Form ES-D-1 event numbers for each S are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" alance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least trument or component (I/C) malfunctions and one major transient, in the ATC position. with manipulations may be conducted under normal or <i>controlled</i> abnormal conditions (refer to n D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal ons may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.	the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event S are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" alance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least trument or component (I/C) malfunctions and one major transient, in the ATC position.

ES-301 Transient and Event Checklist Form ES-301-5

Facility: Lim	erick				Da	te of E	xam: 1	0/23/20	06	(Operatii	ng Tes	t Numb	er: I	LT05	5-1	···
A P	EV							Sc	enario	s				 ``			
APP.L-CAZH	E E N T		1			2			3			4		O T		M I N	
Ċ		PC		N	P	CREW	N	PC)N	P		DN	Á		Î M	
Ť	T P E	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	S R O	A T C	B O P		R	U M(*)	Ū
RO	RX															1	
	NOR					4								1	1		0
SRO-I-4	I/C	1												1	1	1	1
SRO-U	MAJ	2,3,4,5,7				2,6								7	4	4	2 1
	TS	6				5								2	2	2	2
RO	RX	2,4					["		<u> </u>			2	1	1	0
	NOR		1											1	1	1	1
SRO-1-5	I/C		3,4,5					3,4,5,7,8,						9	4	4	2
SRO-U	MAJ		6					9						2	2	2	1
	TS							3,4			<u> </u>			2	0	2	2
RO	RX							0,1						-	1	1	0
SRO-I-6	NOR		1				<u> </u>							1	1	1	1
	I/C		3,4,5					3,4,5,7,8, 9						9	4	4	2
SRO-U	MAJ		6				<u></u>	6						2	2	2	1
	TS		·					3,4	· · · · ·				-	2	0	2	2
RO	RX													0	1	1	0
SRO-1-7	NOR		1		1									1	1	1	1
\boxtimes	I/C		3,4,5				1	3,4,5,7,8, 9						9	4	4	2
SRO-U	MAJ		6					6						2	2	2	1
	TS							3,4						2	0	2	2
l an	neck the a be; TS ard d "balance o instrum	ce-ot-pla	ant (BC	JP)" DO	sitions;	instan	it SRU	s musi (uo one	scena	no, inc	luaing	acieasi	ers fo TC)" t	r ead	ch eve	ent
2. Re Se ev	ectivity n ection D.5 olutions r	nanipula 5.d) but may be	ations i must b replace	may be e signi ed with	condu ficant p additio	icted ui ber Sec bnal ins	nder ne tion C	ormal or .2.a of A nt or cor	<i>contro</i> ppend mpone	olled al lix D. (nt malf	onorma *) Read functior	l condi ctivity a is on a	itions (r and nor 1-for-1	mal bas			
I tha	henever i at require e minimu	verifial	ole acti	ons the	at provi	de insi	aht to t	the appl	icant's	compe	etence	count t	loward				

ES-301 Transient and Event Checklist Form ES-301-5

SRO-I	EVENT TYPE	P	1 CREW					So	enario	e							
RO-1	т	P								<u> </u>							
RO-1		P	CDENN			2			3	-		4		T O T		M-N	
RO-1	P E		OSITIC	N	P	CREW	N i			N	P	CREW	N	À		Î M	
SRO-I	1	S R O	A T C	B O P	S R O	A T C	BOP	S R O	A T C	B O P	SRO	A T C	B O P			Ü M(*)	
SRO-I															R		U
SRO-I	RX						*							0	1	1	0
	NOR		1				1							2	1	1	1
	I/C		3,4,5				4,8,9							6	4	4	2
	MAJ		6				6							2	2	2	1
	TS													0	0	2	2
	RX			3					2					2	1	1	0
SRO-I	NOR			1										1	1	1	1
	I/C			2,4,5,7					3,5,7,9					8	4	4	2
	MAJ			6					6			•		2	2	2	1
	TS													0	0	2	2
	RX					[2					1	1	1	0
SRO-I	NOR						1							1	1	1	1
	I/C						4,8,9		3,5,7,9					7	4	4	2
SRO-U	MAJ						6		6					2	2	2	1
	TS													0	0	2	2
	RX								2					1	1	1	0
SRO-I	NOR						1							1	1	1 -	1
	I/C						4,8,9		3,5,7,9					7	4	4	2
SRO-U	MAJ						6		6					2	2	2	1
	TS													0	0	2	2
Instructions	:		<u> </u>			L <u></u>		L 				<u></u>	L				
and	eck the a ; TS are "balanc instrum	ce-ot-p	lant (B	OP)" po	ositions	s: Insta	nt SRO	s musi	: do one	e scena	ario. Ind	cluding	atleas	St	or ea	ich ev	/ent
Sec	activity n tion D.5 lutions r	i.d) bu	t must	be sign	ificant	per Se	ction C	.2.a of	Append	dix D.	(*) Rea	ctivity a	and no	rmal			
that	enever require minimu	verifia	able act	tions th	at prov	ide ins	ight to t	the app	plicant's	s comp	etence	count	toward				

ES-301 Transient and Event Checklist Form ES-301-5

ES-301, Page 26 of 27

Competencies Checklist

Form ES-301-6

Facility: Limerick		Date	of Ex	amin	ation:	10/2	3/2000	3			Oper	ating	Test	No.: I	LT05	-1
							A	PLI	CAN	ГS						
Competencies	5	ro Bro- Bro-	· •		S	0 RO- RO-			S	0 RO-I RO-I			s	20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	S	SCEN	IARIC	2	5	SCEN	VARIO	2	S	SCEN	IARIO	C	5	SCEN	IARI	C
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/ Diagnose Events and Conditions			1,2,3,4, 5,6,7,8, 9		1,2,3,4, 5,6,7		2,3,4,5, 6,7,9		1,2,3,4, 5,6,7	1,2,4,5, 6,7			1,2,3,4, 5,6,7	1,2,4,5, 6,7		
Comply With and Use Procedures (1)			1,2,3,4, 5,6,7,8, 9		1,2,3,4, 5,6,7		2,3,4,5, 6,7,9		1,2,3,4, 5,6,7	1,2,4,5, 6,7			1,2,3,4, 5,6,7	1,2,4,5, 6,7		
Operate Control Boards (2)							2,3,5,6, 7,9			2,4,5,6				2,4,5,6		
Communicate and Interact			1,2,3,4, 5,6,7,8, 9		1,2,3,4, 5,6,7		1,2,3,4, 5,6,7,9		1,2,3,4, 5,6,7	1,2,4,5, 6,7			1,2,3,4, 5,6,7	1,2,4,5, 6,7		
Demonstrate Supervisory Ability (3)			1,2,3,4, 5,6,7,8, 9		1,2,3,4, 5,6,7				1,2,3,4, 5,6,7				1,2,3,4, 5,6,7			
Comply With and Use Tech Specs. (3)			3,4		2,4				2,4				2,4			
Notes: (1) Includes Technica (2) Optional for an SR (3) Only applicable to	0-U.		ion co	ompli	ance f	or ar	n RO.									

Instructions:

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

Competencies Checklist

Form ES-301-6

Facility: Limerick		Date	of Ex	amin	ation:	10/2:	3/2000	6			Oper	ating	Test I	No.: I	LT05-	1
							AF	PLIC	CANT	S						
	R	0]	R	0			R	0			R	0]
Compotonoios	S	RO-I	-4 🗵	3	S	RO-l	-5 🛛	\triangleleft	S	RO-l	-6 [\triangleleft	S	RO-	-7 [3
Competencies	S	RO-L	ן ר]	S	RO-I	U [S	RO-I	J [S	RO-	υ[
	S	CEN	ARIC)	S	SCEN	JARIO)	S	SCEN	IARIC	2	S	SCEN	JARIC)
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/ Diagnose Events and Conditions	1,2,3,4,5 ,6,7	1,2,4,5, 6,7			1,3,4,5, 6		1,2,3,4, 5,6,7,8, 9		1,3,4,5, 6		1,2,3,4, 5,6,7,8, 9		1,3,4,5, 6		1,2,3,4, 5,6,7,8, 9	
Comply With and Use Procedures (1)	1,2,3,4,5 ,6,7	1,2,4,5, 6,7			1,3,4,5, 6		1,2,3,4, 5,6,7,8, 9		1,3,4,5, 6		1,2,3,4, 5,6,7,8, 9		1,3,4,5, 6		1,2,3,4, 5,6,7,8, 9	
Operate Control Boards (2)		2,4,5,6			1,3,4,5, 6				1,3,4,5, 6				1,3,4,5, 6			
Communicate and Interact	1,2,3,4,5 ,6,7	1,2,4.5, 6,7			1,2,3,4, 5,6,7		1,2,3,4, 5,6,7,8, 9		1,2,3,4, 5,6,7		1,2,3,4, 5,6,7,8, 9		1,2,3,4, 5,6,7		1,2,3,4, 5,6,7,8, 9	
Demonstrate Supervisory Ability (3)	1,2,3,4,5 ,6,7						1,2,3,4, 5,6,7,8, 9				1,2,3,4, 5,6,7,8, 9				1,2,3,4, 5,6,7,8, 9	
Comply With and Use Tech Specs. (3)	2,4						3,4				3,4				3,4	
Notes: (1) Includes Technica (2) Optional for an SI (3) Only applicable to	RO-U.		ion co	ompli	ance	for ar	n RO.									

Instructions:

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

Competencies Checklist

Form ES-301-6

Facility: Limerick		Date	of Ex	amin	ation:	10/2:	3/2000	6			Oper	ating	Test	No.: I	LT05-	-1
							A	PLI	CAN	ГS						
	1	RO-1		3		0-2	E	3	8	0-3	-	ЗI I	1	20-4		3
Competencies	1	SRO-I SRO-I			-	ro-I ro-I				RO-I RO-I			ł	RO-I RO-I		-
	J			<u></u>	<u> </u>											
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
				·										-	<u> </u>	·····
Interpret/ Diagnose Events and Conditions	1,3,4,5, 6	1,3,4,5, 7			1,2,3,4, 5,6,7		2,3,4,5, 6,7,9			1,3,4,5, 7	2,3,4,5, 6,7,9			1,3,4,5, 7	2,3,4,5, 6,7,9	
Comply With and Use Procedures (1)	1,3,4,5, 6	1,3,4,5, 7			1,2,3,4, 5,6,7		2,3,4,5, 6,7,9			1,3,4,5, 7	2,3,4,5, 6,7,9			1,3,4,5, 7	2,3,4,5, 6,7,9	
Operate Control Boards (2)	1,3,4,5, 6	1,3,4,5, 7			2,3,4,5, 6,7		2,3,5,6, 7,9			1,3,4,5, 7	2,3,5,6. 7,9			1,3,4,5, 7	2,3,5,6, 7,9	
Communicate and Interact	1,2,3,4, 5,6,7	1,2,3,4, 5,7			1,2,3,4, 5,6,7		1,2,3,4, 5,6,7,9			1,2,3,4, 5,7	1,2,3,4, 5,6,7,9			1,2,3,4, 5,7	1,2,3,4, 5,6,7,9	
Demonstrate																
Supervisory Ability (3)																
Comply With and																
Use Tech Specs. (3)							L		L				L	L		
Notes:(1)Includes Technica(2)Optional for an SF(3)Only applicable to	RO-U.		on co	omplia	ance f	or an	RO.									

Instructions:

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

)

Written Examination Quality Checklist

Form ES-401-6

Facility: Limerick Date of Exam: 10/23/2006 Exam Level: RO SRO SI									
						1	Initial		
	Item Description						а	b*	c#
1.	Questions and answers ar	e technically accurate and appl	icable to the f	acility.			Rul	792	TE
2.						111	CAD	TF	
	b. Facility learning objectives are referenced as available. SRO questions are appropriate in accordance with Section D.2.d of ES-401						dil	40	
3.			·····				pa	MU -	TF
4.		s random and systematic (If mo st 2 NRC licensing exam, consu							TF
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: X the audit exam was systematically and randomly developed; or the audit exam was completed before the license exam was started; or the examinations were developed independently; or the licensee certifies that there is no duplication; or other (explain)					Kuk	6P	TF	
6.	Bank use meets limits (no from the bank, at least 10 new or modified); enter the question distribution(s) at t	percent new, and the rest actual RO / SRO-only	Bank 11 10 /100 TF	Mod -9/1 TF		New 82/100	<i>Lik</i>	ÉO	TF
7.	exam are written at the con the SRO exam may excee	nt of the questions on the RO nprehension /analysis level; d 60 percent if the randomly higher cognitive levels; enter tion distribution(s) at right.	Memory C/A 38 62 -37/100 63/100 TF TF			Kurk	10	TF	
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.					ful	40	TF	
 Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the Tier to which they are assigned; deviations are justified 					fik	GD.	TF		
10.							RIF	40	TF
11.	11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet					Kuk	(1)	TF	
b. Faci c. NRC	Printed Name / Signature a. Author Rick Rhode Willing b. Facility Reviewer (*) Ned Dennin Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2" d. NRC Regional Supervisor MARVIN SYXES Manuel						· · · · · · · · · · · · · · · · · · ·	9/8	ate 3 01, 5 66 18 06 18 06
Note:		itials/signature are not applical wer initial items in Column "c";		•				-	•

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Written Examination Quality Checklist

Form ES-401-6

							Initial	
Item Description						a	b*	с#
1.	Questions and answers are technically accurate and applicable to the facility.					WK	90	TF
2.							Ma	
	b. Facility learning objectives are referenced as available.					la	411/	TP
3.	SRO questions are appropriate in accordance with Section D.2.d of ES-401					un	4P!)	TF
4. .	The sampling process was random and systematic (If mo were repeated from the last 2 NRC licensing exam, cons							TF
 5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: X. the audit exam was systematically and randomly developed; or the audit exam was completed before the license exam was started; or the examinations were developed independently; or the licensee certifies that there is no duplication; or other (explain) 						Кiк	420	TF
6.	Bank use meets limits (no more than 75 percent	Bank	Mod	ified	New			
	from the bank, at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.	9 0 /75	3 -57 -74	75	63 62 /75 14	fix	Gn	TF
7. Between 50 and 60 percent of the questions on the RO exam are written at the comprehension /analysis level; the SRO exam may exceed 60 percent if the randomly selected KAs support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.			Memory C/A 33 42 36/75 46/75 16 175				cm	TF
		-20/75			KUK	<i>V • 5</i> .		
 References/handouts provided do not give away answers or aid in the elimination of distractors. 					K4K	60	TF	
 Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the Tier to which they are assigned; deviations are justified 					N4L	EB	TF	
10. Question psychometric quality and format meet the guidelines in ES Appendix B.						14h	40	77-
11.	 The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet 					Rup	9))	TF
	Prin	ited Name / S	igņatur	e			D	ate
a. Author Rick Rhode Allocale						9	s þ	
b. Facility Reviewer (*) <u>Ned Dennín</u>						<u>9/</u>	8/0	
c. NRC Chief Examiner (#) TODD FISH Sudatur)	10	18/	
	CRegional Supervisor MARUIN SYKES	Mari	D	\leq	<u> </u>		À	/18/6

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Written Examination Grading Quality Checklist

Form ES-403-1

Facility: LIMERICK Date of Exam: 11 3 06 Exam Level: ROX SRO									
		Initials							
Item Description	а	b	с						
1. Clean answer sheets copied before grading	MR	giv	TER						
2. Answer key changes and question deletions justified and documented	Rik	Jord	THE						
 Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations) 	fik	and	THE						
4. Grading for all borderline cases ($80 \pm 2\%$ overall and 70 or 80, as applicable, $\pm 4\%$ on the SRO-only) reviewed in detail	Put	Spit	1. Kg						
5. All other failing examinations checked to ensure that grades are justified	NA	aut	NA						
 Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants 	fir	get-	THE REAL						
Printed Name/Signature		C	Date						
a. Grader <u>Rick Phode Murde</u>	_	11/	13/06						
b. Facility Reviewer(*) 20HN HWIER & August	_	11	13/06						
c. NRC Chief Examiner (*) TODD H. FISH Judd H. Fint	>	-14	14/02 14/26						
d. NRC Supervisor (*) MARVIN SYKES / 1/10/10/15/									
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.									

ES-403, Page 5 of 5

Written Examination Grading Quality Checklist

Form ES-403-1

Facility: LIMERICK Date of Exam: 11 3 0 Exam Level: RO SRO								
		Initials						
Item Description	а	b	с					
1. Clean answer sheets copied before grading	Pul	god-	IEB					
2. Answer key changes and question deletions justified and documented	pix	gjød-	IR					
 Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations) 	put	gythe	TE					
4. Grading for all borderline cases ($80 \pm 2\%$ overall and 70 or 80, as applicable, $\pm 4\%$ on the SRO-only) reviewed in detail	NA	45A	TX Roo					
5. All other failing examinations checked to ensure that grades are justified	NIA	984	NA					
 Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants 	MR	gjød	TE					
Printed Name/Signature		Ē	Date					
a. Grader Rick Rhade Milliode	2	11/13/de						
b. Facility Reviewer(*) JOHN HINTER A AMANDER			13/06					
c. NRC Chief Examiner (*) TODD H. FISCH Jorda H. Fis	<u>ly</u>	<u></u>	114/06					
d. NRC Supervisor (*) MARVIN SYKES MONIL	K	.44	16/06					
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.								

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