Facility:	Seabrack Date of Examinatio	n: <u>7/15/13</u>					
Developed	Developed by: Written - Facility NRC // Operating - Facility NRC						
Target Date*	Task Description (Reference)	Chief Examiner's Initials					
-180	Examination administration date confirmed (C.1.a; C.2.a and b)	PS					
-120	NRC examiners and facility contact assigned (C.1.d; C.2.e)	M					
-120	Facility contact briefed on security and other requirements (C.2.c)	U)					
-120	4. Corporate notification letter sent (C.2.d)	WF					
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 3)]	02					
{-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)	W					
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	W					
{-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)	101					
-30	Preliminary license applications (NRC Form 398's) due (C.1.l; C.2.g; ES-202)	\square 1					
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.l; C.2.i; ES-202)	S					
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	V21					
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	J.					
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	wJ					
-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 5; ES-202, C.2.e; ES-204) 	ye.					
-7	Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	2					
-7	Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	W					

^{*} 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:	Seabrook Date of Examination: 7/15/2013 – 7/	 24/201:	3	
Item	Task Description	а	Initial	s c#
1.	Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.		NOA	
W R I	 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. 	RAB	in	51
T T	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	BB	m	-M
E N	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	RAB	M	M
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. 	RAB	RI1	W
M U L A	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.	143	m	H
O R	 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. 	R43	an	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. 	AB	por	W
	 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 	-RAS	μ	M
	 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. 	AB	KR	W
4.	 Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections. 	RAB	M	义
G E	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	AB	148	H
N E	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	RAB	m	\ZZ
R A	d. Check for duplication and overlap among exam sections.	RAIS	on	W.
L	Check the entire exam for balance of coverage. f. Assess whether the exam fits the appropriate job level (RO or SRO).	TAN3	m	113
c. NRC	, Printed Name/Signature	IMIO	4/13/ 4/25/ 4/25/ 4/26/	//3 //3 //3
Note:	# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence rec * Not applicable for NRC-prepared examination outlines	quired.		

ATTAChiviENT 3 Form ES-210-3, Examination Security Agreement

ES-201	Examination Security Agreement Form	ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) given 1 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 115-13 and 7-24-13. 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 / RESPONSIBILIT	Y SIGNAŢURE (1)	DATE &	IGNATURE (2)	DATE NOTE
1. Ralph Bryant	Lead Author	hald I Buntas	11/6/12 /	aht. Buto	7/25/13
2. Edward F Lyons	AUTHOR	tell to	12/4/12	Utza.	7/28/13
3 Matthew Arschat	Facility Kepp	7926	12/6/APer	elecon Magli 1/0	8/5/13
4. MARK LEUTE	PROJECT MONTHER - SITE	ldub	12/6/12	who mel 1	7/25/13
5. CHurk SizeMORE	PROJECT MER MENTER	Il Siemere	12/4/12 for	teleian Liberte	2 8/7/13
6. Pronc Brant	Facility RED	and Bruant	12/6/12 PER		eg 7 25/13
7. MARK SKETCHRY	CORPORATE OVERSIGHT	VII6 Satist	2/19/13 PI	R TELLON CA	189 129 13
8 Richard Kotzo	A Whit Supervisor	Daylo	35/3 Per	telecon Relowed	Begg 12/13
9. GARY BOGUE	CRO		3-5-13 Per	to Dean Helder	10 F 8-12-13
10. LUAND Commoli	of UniT Syknison	Cel	3/5/13 d	, , , ,	8/5/13
11. Andrew Ferraiol.	CRO	ander Fent	3/5/13	he hut	1 18/5/17
12. Eric Mallett	Shift Manager	Ei Ma	1 3/5/13 Per	telecon Related	19 1 8/3/13
13 JAMES KENNISH	LOCT INSTENCTOR		3/24/13/	The total	2/25/13
14 Michael Gregory	CRO	/ML	3/26/09//	16	8/5/13
15. Marc M'Cathy	CRO	Mm M	3/24/1 M	oc AZ	7/25/13
NOTES:			•		

ATTACHMENT 3 Form ES-210-3, Examination Security Agreement

ES-201	E	
FS-201	Evamination Societiv Adrooment For	m
LO-201	Examination Security Agreement For	

ES-201-3

1. Pre-Examination

l acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) 12-19-25 of 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 1-15-13 con 1-21-13. 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.

	10	
PRINTED NAME , / JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE SIGNATURE DATE NOTE
1. Ansylaunihab 5M	all	3-26-13
2 fele Barry W	20110	3-27-13 7 7 8/5/13
3. Edward Ashala Sin Support	Charles Contraction of the Contr	4-11-13 NNA , D.
4. JYE YUH LEE SIM EMPOORT	Sult of	4/11/13 Julya 7/25/13
5. KOBERT COUTURE Sum Suprement of	Yold Couling	4/25/2/ Deletaring 7/25/13
6. SHIH-WEI TAN Sim Support	Start v. The	04/25/13 for anyly 01/25/13
7. RICH FURNAMEN SIM SUPPORT	Kreden	5/3/12 544 20 6/6/13
8. MARKA THOMPSON US	all on	5-13-13 MACTURE 573
9. ROBERT FANNING LOCT INSTRUCTOR	P. P	5/15/13 Ktv 7/25/13
10. Shaan Miller SM	Sty Mitt	5/15/13 Shopfut 25/13
11. Kewart Krowe Ta Mis	WK.	5/x/13 9xA (1,1 , 1/25/13
12. Rob HowE CRO	Effect !	5-30-13 Per telecon Halay But 8-141
13. Jeseph A. Varya WCS	Julley la	5-30-13 Per telicon Florido By 18-14-13
14. Nicholes H. Theberre RO	man	8-30-13 MAhren 8/5/13
15. Richard S. Morras CRO	La Mours	6/10/13 R&MONWS 7/29/13
NOTES:	,	ŗ

1 Retired from company. no longer on vite.

ATTACHMENT 3 Form ES-210-3, Examination Security Agreement

ES-201	Examination Security Agreement Form	ES-201-
3		

1. Pre-Examination

l acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s)___7/12/13 - 7/19/13_ of 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 7-15 Head 7-24-13. 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.

			1	í , 1
PRINTED NAME	JOB TITLE / RESPONSIBILITY,	JSIGNATURE (1)	DATE, SIGNATURE	DATE NOTE 7.73
1. Robert Koyce	Millstone 3 Ops Instructor/ Sinten	1000	3/13/13 per felecon Fragas	1000
2. JACK CONNOLLY	UNIT SUPERVISION	The Cin.	6/10/13 10/10	7+29-73
3. MAUKEEN LIPMAN	PLANT TELL	Meen Warre	6.10.13 Malukom	1 25 13
4. LOBERT TENKINS	ELECTRICIAN	Autelies	611.13 Per telecon Kalan	Bit 8/5/13
5. JOHN Thomson	HUAC Tech.	Jan 1	6-11-13 per peleion Kalah	18/5/13
6. Lan Purington	Unit Supervisor		6-11-13	2-71-17
7. NICK WAGS	Unit Specisor	Whi	6/21/13 Nous	2,7125/13/2
8. Scott SANSAC	LINE SIE PERUISOR	motor an	word felia Pentelecon Ku	lds f Bunk 8.12.13
9. Sleven Kessinge	r was	Star Kersing	/ april 3 the honers	7/25/43
10. LOUCIAS ECOLE	STON INSTRUCTOR	Doguster Ecolette	07/14/13 Hough Enfects	27/25/13
11. Mask hartellate	Instructo-	141.5	7/15/13/1	7/29/13
12. James Webber	NSO	games Webber	7/15/13 Clares hell	- 7/29/13
13. Circis Adura,	LUT INSTLUCTUR	1(5)	7/16/13	7/2/15
14. Barn Ball	1 AON-T	1///	~ 7/16/13 AUT	7/05//3
15. Att	0			
श्रीतिक	•			
· 100/				

Fac	cility: Seabrook Date of Examination: July 2013 Opera	ting Tes	st Num	ber:
			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).	RAG	MX	W
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	NB	MARY	H
C.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	RAD	MIX	80
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	AB	MS	187
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	RIB	MARS	01
	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 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			
1	 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 	RAP	Mr.	2
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.	PB	M	W
	3. Simulator Criteria			
	associated simulator operating tests (scenario sets) have been reviewed in accordance with m ES-301-4 and a copy is attached.	RAP	M	Z
a. b. c.	Author Facility Reviewer(*) NRC Chief Examiner (#) NRC Supervisor Printed Name / Signature Ralph Bryant / Ralph ABry 5/ Sevant / Ralph ABry 5/ NRC Supervisor Ponald Jackson / Plantage Printed Name / Signature 5/ NRC Supervisor	20/1 21-2 1/13	ate 3	
NO	TE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.			

Facilit	ty: Seabrook	Date of Exam: July 2013	Scenario Num	bers: 1/2/3 Operati	ing Test	No.:			
		QUALITATIVE ATTR	IBUTES			Initials			
					а	b*	c#		
1.		ditions are realistic, in that some equip it does not cue the operators into expe		ation may be out	ALL	rest.	8		
2.	The scenarios	consist mostly of related events.			RAB	NA	8		
3.	 Each event description consists of the point in the scenario when it is to be initiated the malfunction(s) 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.		one non-mechanistic failure (e.g., pipe ble preceding incident such as a seisn		nto the scenario	RAB	in	W		
5.	The events are	valid with regard to physics and therm	nodynamics.		RNB	rin	W		
6.		d timing of events is reasonable, and a ation results commensurate with the so		eam to obtain	RAB	μA	W)		
7.		sion techniques are used, the scenario sufficient time to carry out expected a			RAB	PT.	W		
8.	The simulator m	nodeling is not altered.			RB	iesa	W		
9.	The scenarios he performance de to ensure that	evaluated	RAB	cith4	W				
10.		will be evaluated using at least one narios have been altered in accordance			PAB	WA	W		
11.		perator competencies can be evaluate m along with the simulator scenarios).	ed, as verified using Form	m ES-301-6	PAB	nom	M		
12.	Each applicant specified on Fo	t will be significantly involved in the mir form ES-301-5 (submit the form with the	nimum number of transic e simulator scenarios).	ents and events	RNS	MA	J.S		
13.	The level of diff	ficulty is appropriate to support licensing	ng decisions for each cre	ew position.	RB	7014	NO.		
	Target Quantita	ative Attributes (Per Scenario; See S	Section D.5.d)	Actual Attributes			-		
1.	Total malfunction	ons (5–8)		71616	RAS	rom?	Ø		
2.	Malfunctions aft	er EOP entry (1–2)		21212	RAB	MA	B		
3.	Abnormal event	s (2-4)		31313	RAB	ters	01		
4.	Major transients	s (1–2)		1/1/1	RAB	NOA	B		
5.	EOPs entered/r	requiring substantive actions (1-2)		31212	RAB	niA	M		
6.	EOP contingend	cies requiring substantive actions (0-2)	1/1/0	RAB	non	A		
7.	Critical tasks (2-	-3)		31213	RAB	MON	W2		

Facili	ty: Seabrook Date of Exam: July 2	2013 Scenario I	Numbers: 년 / / Opera	ating Test	No.:	
	QUALITAT	IVE ATTRIBUTES			Initials	
				а	b*	c#
1.	The initial conditions are realistic, in that s of service, but it does not cue the operato	RAS	ws	B		
2.	The scenarios consist mostly of related ev	ents.		AB	No	W.
3.	Each event description consists of the point in the scenario when it is to the malfunction(s) that are entered to the symptoms/cues that will be visible the expected operator actions (by sh the event termination point (if applications)	PAB	n A	W		
4.	No more than one non-mechanistic failure without a credible preceding incident such		ed into the scenario	200	ngu	B
5.	The events are valid with regard to physics	and thermodynamics.		RNB	NA	至
6.	Sequencing and timing of events is reason complete evaluation results commensurate		on team to obtain	AB	in	ME.
7.	If time compression techniques are used, to Operators have sufficient time to carry out Cues are given.	PAB	wh	(H		
8.	The simulator modeling is not altered.			RAB	M	M
9.	The scenarios have been validated. Pursu performance deficiencies or deviations from to ensure that functional fidelity is maintain	RAB	was	OH)		
10.	Every operator will be evaluated using at last other scenarios have been altered in a			RAB	Mar	D
11.	All individual operator competencies can be (submit the form along with the simulators		Form ES-301-6	RAB	nsa	Ø
12.	Each applicant will be significantly involve specified on Form ES-301-5 (submit the form			RAB	m	Ø
13.	The level of difficulty is appropriate to supp	ort licensing decisions for each	r crew position.	RAS	AL	00
	Target Quantitative Attributes (Per Scen	ario; See Section D.5.d)	Actual Attributes			=
1.	Total malfunctions (5–8)		711	RNS	MA	ψŅ
2.	Malfunctions after EOP entry (1-2)		311	RNB	M	Ø
3.	Abnormal events (2–4)		4//	PAG	ma	W
4.	Major transients (1–2)		(1)	RNS	wa	13
5.	EOPs entered/requiring substantive actions	s (1–2)	21 1	RAB	MA	W
6.	EOP contingencies requiring substantive ac	ctions (0–2)	1//	ANS	NA.	NX.
7.	Critical tasks (2–3)		211	1863	non	t Of

4s per 6/28/13 telecom with R. Bryant (licensee) DS.

Facility: Se	abrook		Date of Exam: July 2013 Operating Test No.:														
A P	E V		Scenarios														
P	E		1_			2			4			Back-u		Т	N		
L	N T	CRE	N POS	ITION	CRE	N POSI	TION	CRE	W POSIT	ION	CRE	W POS	TION	О Т	,	1	
C A N 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	A L	_	Л Л(*)	1
М	RX		1			1			1			3			R 1	1	0
A S	NOR	1	<u>'</u>	1	1	'	1	1	<u> </u>	1	3	-	3		1	1	1
T E	I/C	2,3,4	3,4,7		2,3,4	2,4,7	2,3,6	2,3,5	2,3,7,9	3,5,8	1,2	1,2	5,6		2	2	2
R	MAJ	6	6	6	5	5	5	6	6	6	4	4	4		1	1	1
	TS	2,4,5		-	2,3	-	-	3,4			1,2	<u> </u>			0	2	2
	RX					1		<u> </u>						1	1	1	0
SRO	NOR	1								1				2	1	1	1
I-1	I/C	2,3,4				2,4,7				3,5,8				9	4	4	2
	MAJ	6				5				6				3	2	2	1
	TS	2,4,5												3	0	2	2
	RX		1											1	1	1	0
SRO	NOR						1	1						2	1	1	1
I-2 	I/C		3,4,7				2,3,6	2,3,5						9	4	4	2
	MAJ		6				5	6						3	2	2	1
9	TS							3,4						2	0	2	2
SRO	RX								1					1	1	1	0
I-3	NOR			1	1									2	1	1	1
	I/C			2,4,8	2,3,4				2,3,7,9					10	4	4	2
	MAJ			6	5				6					3	2	2	1
	TS				2,3									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 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.
- 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.
- 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: Se	abrook	Date of Exam: July 2013 Operating Test No.:															
A	E V							S	cenarios								
P P	E		1			2			4			Back-u		Т	Ŋ		
<u> </u>	N T	CREW	POSIT	TION		V POS	SITION	CREW POSITION				V POSI	TION	O T	N	1	
C	т	S R	A T	ВО	S R	A T	. B	S	A T	ВО	S R	A T	В	A	l I		
A N	Υ	ò	ċ	P	Ö	Ċ	P	ô	Ċ	P	Ö	ċ	P	L	lι		
Т	P E														R	1	U
	RX													0	1	1	0
SRO	NOR							1						1	1	1	1
U-1	I/C							2,3,5						3	4	4	2
\boxtimes	MAJ							6						1	2	2	1
	TS							3,4						2	0	2	2
	RX													0	1	1	0
SRO	NOR							1						1	1	1	1
U-2	I/C							2,3,5						3	4	4	2
\boxtimes	MAJ							6						1	2	2	1
	TS							3,4						2	0	2	2
	RX								1					1	1	1	0
SRO	NOR	1			1									2	1	1	1
1-4 X	I/C	2,3,4			2,3,4				2,3,7,9					10	4	4	2
	MAJ	6			5				6					3	2	2	1
	TS	2,4,5			2,3									5	0	2	2
	RX								1					1	1	1	0
SRO	NOR	1			1									2	1	1	1
I-5	1/C	2,3,4			2,3,4				2,3,7,9					10	4	4	2
	MAJ	6			5				6					3	2	2	1
	TS	2,4,5			2,3									5	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.
- 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: Sea	abrook						Date	of Exa	m: July 2	2013		C	peratin	g Tes	t No.		
A P	E							S	cenarios								
P	E		1			2			4			Back-		Т	Ŋ		
L	N T	CREV	V POSI	TION	CRE	N POS	ITION	CRE	W POSI	TION		W POS	ITION	O T	N N		
C	т	S R	A T	ВО	S R	A	В	S R	A T	В	S R	A T	B O	A			
N	Υ	Ö	Ċ	P	Ô	Ċ	P	Ö	Ċ	P	0	C	Р	L	Ĺ	} ∕((*)	
Т	P E														R	1	U
	RX		1											1	1	1	0
RO-1	NOR						1			1				2	1	1	1
\boxtimes	I/C		3,4,7				2,3,6			3,5,8				9	4	4	2
	MAJ		6				5			6				3	2	2	1
	TS													0	0	2	2
RO-2	RX					1								1	1	1	0
	NOR			1										1	1	1	1
$ \boxtimes $	I/C			2,4,8		2,4,7								6	4	4	2
	MAJ			6		5								2	2	2	1
	TS													0	0	2	2
	RX		1											1	1	1	0
RO-3	NOR						1			1				2	1	1	1
\boxtimes	I/C		3,4,7				2,3,6			3,5,8				9	4	4	2
	MAJ		6				5			6				3	2	2	1
	TS													0	0	2	2
	RX					1								1	1	1	0
RO-4	NOR			1										1	1	1	1
	I/C			2,4,8		2,4,7								6	4	4	2
	MAJ			6		5								2	2	2	1
	TS													0	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.
- 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: Seabrook	D	ate o	f Ex	amir	natio	n: Ju	ly 2	013		Ope	rat	ing T	est I	SCENARIO 2 3 4 23 56 12 45 9			
							AP	PLIC	CANT	rs							
		SRO-I-1 X				SRO-I-2 X				SRO-I-3 X				SRO-U-1 X			
Competencies	1	2	3	4	1	2	3	4	1	2	3	4	1			4	
Interpret/Diagnose Events and Conditions	23 45 6	23 45 6		35 68	34 7	24 8		23 45 69	24	23 45 67		23 47 9				234 569	
Comply With and Use Procedures (1)	12 34 56	13 46 7		13 58	13 46	12 46 8		12 34 56 9	12 68	12 34 57		12 35 79				123 456 9	
Operate Control Boards (2)		13 47		13 58	13 46 7	12 48			12 48			12 36 79					
Communicate and Interact	12 34 56 78	13 46 7		13 56 8	13 45 67	12 46 8		12 34 56 78 9	12 46 8	12 34 56 7		12 34 67 9				123 456 789	
Demonstrate Supervisory Ability (3)	12 34 56							12 34 56 9		12 34 56 7						123 456 9	
Comply With and Use Tech. Specs. (3)	24 5							34		24						34	

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: Seabrook Da	te of	Exa	mina	tion:	July	2013	3		Оре	eratir	ng -	Γest	No.:			
							APF	PLIC	ANT	S						
	S	SRO-U-2X			S	SRO-I-4 X			SRO-I-5 X				RO-1			X
Competencies	S	SCENARIO			S	SCENARIO			SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1_	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions				23 45 69	23 45 6	23 45 67		23 47 9	23 45 6	23 45 67		23 47 9	23 45 6	24		35 68
Comply With and Use Procedures (1)				12 34 56 9	12 34 56	12 34 57		12 35 79	12 34 56	12 34 57		12 35 79	13 46 7	12 46 8		13 58
Operate Control Boards (2)								12 36 79				12 36 79	13 47	12 48		13 58
Communicate and Interact				12 34 56 78 9	12 34 56 78	12 34 56 7		12 34 67 9	12 34 56 78	12 34 56 7		12 34 67 9	13 46 7	12 46 8		13 56 8
Demonstrate Supervisory Ability (3)				12 34 56 9	12 34 56	12 34 56 7			12 34 56	12 34 56 7						
Comply With and Use Tech. Specs. (3)				34	24 5	24			24 5	24						

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:	D	ate o	f Exa	amin	ation	:			(Opera	atin	ıg T	est	No.:			
							ΑP	PLIC	ANT	S_							
	F	RO-2 X			F	RO-3 X			RO-4 X								
Competencies	S	SCENARIO			s	SCENARIO			SCENARIO				SCENARIO				
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
Interpret/Diagnose Events and Conditions	24	23 45 6			23 45 6	24 8		356 8	24 8	23 45 6							
Comply With and Use Procedures (1)	12 68	13 46 7			13 46 7	12 46 8		135	12 68	13 46 7							
Operate Control Boards (2)	12 48	13 47			13 47	12 48		135 8	12 48	13 47							
Communicate and Interact	12 46 8	13 46 7			13 46 7	12 46 8		135 68	12 46 8	13 46 7							
Demonstrate Supervisory Ability (3)																	
Comply With and Use Tech. Specs. (3)																	

Notes:

- (1) Includes Technical Specification compliance for an RO.
- (2) Optional for an SRO-U.
- (3) Only applicable to SROs.

Instructions:

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:	Seabrook	E	Date of Exam:	July 2013	Exam Level:	RO X	SRO	X			
-							Initial				
		Item Description				а	b*	c#			
1.	Ouestions and answers are	technically accurate and app	licable to the fa	ecility		RAB	avs	W			
			neaple to the le	zonity.		1		41			
2.		eferenced for all questions. objectives are referenced as	available.			RAB	MM	(0)			
3.	SRO questions are appropri	ate in accordance with Section	n D.2.d of ES-	401		RAB	porto	W			
4.	The sampling process was re repeated from the last 2 NR/	andom and systematic (If mo C licensing exams, consult th	re than 4 RO o	or 2 SRO que gram office)	estions were			W			
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: the audit exam was systematically and randomly developed; 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)										
6.	Bank use meets limits (no m	ore than 75 percent	Bank	Modified	New						
	from the bank, at least 10 pe new or modified); enter the a		41 / 11	7 / 1	27 / 13						
	question distribution(s) at rig		54.7% / 44% 9.3%/ 4%		36% / 52%	MB	WA				
7.	Between 50 and 60 percent exam are written at the com		Memory								
	the SRO exam may exceed selected K/As support the hithe actual RO / SRO question	60 percent if the randomly gher cognitive levels; enter	33 / 6 44% / 24%	% 5	42 / 19 6% / 76%	RAB	NATA	W			
8.	References/handouts provid	led do not give away answers	or aid in the	elimination of	of distractors.	AB	in	Wy			
9.		with specific K/A statements i r the tier to which they are as				PAB	/vo/}	\$			
10.	Question psychometric qual	ity and format meet the guide	lines in ES Ap	pendix B.		PAB	AON	(1)			
1 1.	The exam contains the requiand agrees with the value or	ired number of one-point, mu n the cover sheet.	Itiple choice ite	ems; the tot	tal is correct	AB	ans	as			
c. NRC	or ty Reviewer (*) Chief Examiner (#) Regional Supervisor	Printed Ralph Bryan Matt Arsen David Silk Donald Jeck	Name / Signat	ure	Buyla		7/8 7/8 2/2 7/ 1	ate /13 7/13 1/13 1/13			

Γ								
Facility: Seabrook Date of Exam: 7/24/13 Exam	Level: F	ROIXI S	RO					
		Initials						
Item Description	а	b	С					
Clean answer sheets copied before grading	AB	le	Ø2					
Answer key changes and question deletions justified and documented **Na** Mathematical Contents of the contents of th	RAB	lh	ø)					
Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	RHS	h	₽					
4. Grading for all borderline cases (80 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	RAB	lh	wl					
All other failing examinations checked to ensure that grades are justified	RAB	lh	W					
Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	MB	le	W					
Printed Name/Signature			ate					
a. Grader Ralph Bryant Rulph Algany	Jak .	7/25	1/13					
b. Facility Reviewer(*) MARK LEONE Joyce Tim lines			5/13 a/13					
c. NRC Chief Examiner (*) David Silk / David Silk	$\overline{}$	7/20	1//3					
d. NRC Supervisor (*) Donald lack son / White		7/3	3413					
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.								

Facility:	Seabrook	Date of Exam: 7/24/1	3 Exam	Level: R	.o□ s	ROX			
					Initials	,			
	Item	Description		а	b	С			
1. C	lean answer sheets co	ppied before grading		RAS	h	8			
19	nswer key changes an nd documented	nd question deletions justifie	ed	AB	Û	N			
		ked for addition errors 25% of examinations)		RHS	a.	UP.			
		e cases (80 ±2% overall ar he SRO-only) reviewed in c		RB	G.	D			
	ll other failing examina re justified	itions checked to ensure th	at grades <i>NA</i>	RAB	h	D			
de	eficiencies and wording	questions checked for trai g problems; evaluate validi half or more of the applicar	ty	RAB	lh.	M			
		Printed Name/Signat	ure		D	ate			
a. Grade	er 🗾	Ralph Bs yent Kalp	cht By		7/2	15/13			
b. Facilit	y Reviewer(*)	MARK LEONE IN-	<u></u>	- -	7/2	5/13			
c. NRC (Chief Examiner (*)	lavid sinc / Aga	lath	-	7/2	1/13			
d. NRC	Supervisor (*)	Donald Jackson / Wx	Mar	-	7/31	13			
H ' '	(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.								