Examination Preparation Checklist

Form ES-201-1

-	by: Written - Facility 🗹 NRC 🗌 // Operating - Facility 🗹 N	Examination: $\frac{ \iota 26 2\iota_2 }{26}$
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	لع
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	H.
-120	3. Facility contact briefed on security and other requirements (C.2.c) WL
-120	4. Corporate notification letter sent (C.2.d)	S
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 3)]	SA.
{-75}	 Integrated examination outline(s) due, including Forms ES-201-2, E ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3 ES-401-4, as applicable (C.1.e and f; C.3.d) 	S-201-3, 3, and
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided licensee (C.2.h; C.3.e)}	to facility
{-45}	 Proposed examinations (including written, walk-through JPMs, a scenarios, as applicable), supporting documentation (including F ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6, and a ES-201-3 updates), and reference materials due (C.1.e, f, g and 	orms ny Form
-30	 Preliminary license applications (NRC Form 398's) due (C.1.l; C. ES-202) 	2.g;
-14	10. Final license applications due and Form ES-201-4 prepared (C.1 ES-202)	I.I; C.2.i;
-14	 Examination approved by NRC supervisor for facility licensee rev (C.2.h; C.3.f) 	view YL
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C	C.3.g)
-7	 Written examinations and operating tests approved by NRC super (C.2.i; C.3.h) 	ervisor VH
-7	 Final applications reviewed; 1 or 2 (if >10) applications audited to qualifications / eligibility; and examination approval and waiver le (C.2.i; Attachment 5; ES-202, C.2.e; ES-204) 	o confirm htters sent
-7	 Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k) 	WL
-7	 Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i) 	Ĵ)
identified in t case basis ir	es are generally based on facility-prepared examinations and are keyed he corporate notification letter. They are for planning purposes and ma i coordination with the facility licensee.] {Does not apply} to examinations prepared by the NRC.	d to the examination date ay be adjusted on a case-by-

Examination Outline Quality Checklist

Form ES-201-2

	Salem 1 = 2 Date of Examination:		Initia	
em	Task Description	а	b*	c#
1. N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	A	B	Ĥ
R I	b. Assess whether the outline was systematic ally and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/ A categories are appropriately sampled.	A	B	S)
T T	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	A	B	Z
E N	d. Assess whether the justifications for deselec ted or rejected K/A statements are appropriate.	ß	В	NO
2. S	 Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and com ponent failures, technical specifications, and major transients. 	Å	B	Ì
	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.	Å	B	S)
2 2	c. To the extent possible, assess whether t he outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.	A	B	X
3. V -	 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 func tions as specified on the form (2) task repetition from the last two NRC examinat ions 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. 	H	В	Ľ
	 b. Verify that the administrative outline m eets 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 	Å	Z	À
	c. Determine if there are enough different outli nes to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	Ŀ	B	s)
	 Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections. 	Å	B	Ŵ
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	Å	В	A
i	c. Ensure that K/A importance ratings (except fo r plant-specific priorities) are at least 2.5.	15	K	8
	d. Check for duplication and overlap among exam sections.	A	ß	VA
	e. Check the entire exam for balance of coverage.	14	B	U
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	13	Б	A
NRC	y Reviewer (*) Thomas By KRONENTESAMO	/z5/17	9.13 9.13 2.11 1.11	-1 <u>)</u> -1 2 -1 2 -12
e:	# Independent NRC reviewer initial items in Co lumn "c"; chief examiner concurrence requ	ired		

Salen 11-01 ILOT

ES-201	
C3-201	

Examination Security Agreement

Form ES-201-3

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

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <u>il/24/2</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. <u>Post-Examination</u>

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>introduce</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. G.Gauding 2. Thomas Buy Klowen 3. Ed Gallaghun 4. Tom Headman	Exam Author Frie. Rep. Hum Aculawan Sim Condicator	Blanding The Station	5-3-12 7-3-12 7-6-12	Bland Ball Heller	12/1/12 12/1/12 12-10-12
5. <u>INgune Maran</u> 6. william Neiheiser 7. Jim Klein.	NCO	William William	<u>7-l-)</u> <u>8-25-17</u> <u>8-27-2</u>	nation	12/5/p 12.6-12 12.5 p
8. David F. Ta-t 9. Kvin pitamule 10. Tom Wathey	NCO NCO SRO	Tenin. Rullh	812312 8·23-12 8-23-12	Alexint Riedmille	12-7-12 12-7-12
11. Bring Boos 12. SCOTT RYDELL 13. John Brennen	SKO NCO NCO	Lett Rolling	08-23-12 8-23-12 8-23-12 8-23-12	Lott Flet	12-20-2012
14. Nich Mulfold 15. <u>A. CLAMPto-</u> NOTES:	nco CRS	alen Tupt	8/23/12 8/10/1-	M.M.F.	12/1/12
	Page	1.f 3			

11/20/12

ES-201

Examination Security Agreement

Form ES-201-3

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

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <u>utilize</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 **i** best of 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) PATE NOTE
1. THOMAS MALHOLLAND	CBS	Filmelle	9-10-12	Multer 12-11-12
2. DENNERY	NCO	Ram	9.10.12	12.18.12
3. Rachel Stove	Training Admin	-KKSK	<u> 9/12/12</u>	RICYA- 12-05-12
4. Marthallonghiz	The Trust (SRS)	- for	- t/ifa	12-5-12
6. JEFF BRICKER	- M Barto 10 0/4/12 CRS	- But	- aluta	MMKBuhn 12/4/12
7. Scoll HESS		The		11/1 Dufin 10/1/2
8. Steven B. Miller	CRS (10/19/2	12/4/12
9. KAREN CARLSON	TRAINING ADMIN	Konth Eneson	10/10/12	Karin Carlson 12/5/12/
10. David Norgaand	SRD/CRS	Hend Rosper	11-7-12	Alaudin in D Norand 12/6/12 *
11. mollion portal	1. 1. The American			
12-William Kassell	- and - funder +			1. 1 01 A A A
13. William Russell 14. Michael SPero	NCO	William Hundle	_1(17/12_	Willighture 12/20/12
14. Michael Stend		The spen	- <u>117112</u> 119/2	NATA ICIN
NOTES:				

Vie email. page 2 of 3

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

11-DI NRC

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of $\frac{11/26/12}{2}$ 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 <u>ulge-red</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	OSIGNATUR€(1)	DATE GNATURE (2)	DATE NOTE
1. GARYM MATERA	Sim INSTRUCTOR	Day M. Mul	11-26-12 Pr/MM	12-5-12
2. Barson Sincheli 3. TETER, ATT	Sinclator INStructor	/ Barsan Bregel	11-26-12 Brisen & galt	12/4/12
3. METER, OTT W	JIMULATER INFAULTON	(Kitabia	11-20-12 Rosto P	12/1/12
4. JOHN COV 5. Peter Harsh	SIMULATOR INSTRUCTOR	- John W. Corr 1 Pas H US-	11/26/12 John W. Cor 11-26-12 John W.	12/5/12
6. John Carray	OTM	Jun	11-26-12 11/1	12/10/12
7. Evic Towell	Ops Mgt	0 3 Mit	11-26-12 51 6	121-19-12
8. GLENN MARSHAll	-DOS INSTRUCTOR	Mayblek	11/27/12 Marstally	145/12
9. KEVIN THIBODEAN	_ JAS IMT	129. thill	1122/12 Kp. Lullu	12/5/12
10				
11				
12				
13				
14				
15				
NOTES:				

page 3 of 3

Operating Test Quality Checklist

Form ES-301-3

Facility	r: Salem Date of Examination: 11/26/12 Operating	Test N	umber	:
			Initial	s
	1. General Criteria	а	b*	c#
а.	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).	لير*	Ь	et
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	Å	В	N
с.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	Ľ	B	W
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	Ŋ	6	1D
е.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	Å	B	W
	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 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 	* 13	B	Ŋ
Ъ.	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.	* A	ß	ØJ
	3. Simulator Criteria			
	sociated simulator operating tests (scenario sets) have been reviewed in accordance with ES-301-4 and a copy is attached.	1.J	B	V\$
	Printed Name / Signature,	D	ate	
b. F c. N	uthor Gerald Gauding Audd Dauding 11.9.	9-1. 1/12	2	
NOTE	 * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. 			

* Updated after Prep Neek A 11.9.12

Simulator Scenario Quality Checklist

Form ES-301-4

Facilty	Salem Units 1 # 2 Date of Exam: 1/26/18 cenario Numbers: 1/	よろ/4 Operating Test	No.:								
	QUALITATIVE ATTRIBUTES			Initials							
			а	b*	c#						
1.	The initial conditions are realistic, in that some equipment and/or instrumenta of service, but it does not cue the operators into expected events.	ation may be out	L	в	iAJ						
2.	The scenarios consist mostly of related events.		A	В	Sr.						
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.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated i without a credible preceding incident such as a seismic event.	nto the scenario	A	B	Å,						
5.	The events are valid with regard to physics and thermodynamics.		A	B							
6.	Sequencing and timing of events is reasonable, and allows the examination te complete evaluation results commensurate with the scenario objectives.	eam to obtain	A	6	Å						
7.											
8.	The simulator modeling is not altered.		Å	B	A						
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open performance deficiencies or deviations from the referenced plant have been to ensure that functional fidelity is maintained while running the planned scer	evaluated	N	Ь	Å						
10.	Every operator will be evaluated using at least one new or significantly modif All other scenarios have been altered in accordance with Section D.5 of ES-		H	Ь	A						
11.	All individual operator competencies can be evaluated, as verified using Forr (submit the form along with the simulator scenarios).	n ES-301-6	A	В	(d)						
12.	Each applicant will be significantly involved in the minimum number of transic specified on Form ES-301-5 (submit the form with the simulator scenarios).	ents and events	A	6	Y						
13.	The level of difficulty is appropriate to support licensing decisions for each cre		A	B	\mathcal{P}						
	Target Quantitative Attributes (Per Scenario; See Section D.5.d)	Actual Attributes									
1.	Total malfunctions (5–8)	8 17 1319	Ŋ	B	Ť						
2.	Malfunctions after EOP entry (1-2)	4 131213	B	B	\bigotimes						
3.	Abnormal events (2–4)	2121312	Ø	B	Δ						
4.	Major transients (1–2)	1 11 11/2	B	В	Ð						
5.	EOPs entered/requiring substantive actions (1-2)	2 12/1/3	U	B	\gg						
6.	EOP contingencies requiring substantive actions (0-2)	1 11/1/0	Ø	\mathcal{B}	X						
7.	Critical tasks (2–3)	4 121212	Å	B	A						

ES-301, Rev. 9, Supp. 1

Transient and Event Checklist

Form ES-301-5

Facility: S	alem Ge	enerating Sta	ation	0	Date of Ex	xam: 11	/26/201	12 Ope	rating T	est No.: 1	1-01 NF	RC					
A	E							Scen	arios								
P P	E		ESG-1			ESG-2				ESG-	4	Т		М			
L	N	CRE	W POSITI	2N	CREV	V POSI		CREW POSITION			CRI	EW POS	O T		I N		
I C	Т	S	A	В	S	A	в	S	A	В	s	A	В	A		I	
A	т	R	Т	0	R	Т	0	R	Т	0	R	Т	0	L		М	
N	Y	0	С	Р	0	С	Р	0	С	Р	0	С	Р			U M(*	ŋ
Т	P E														R		U
	RX	3			3			5				4		4	1	1	0
SROI-1	NOR	1						1						2	1	1	1
Crew A CRS with	I/C	4,6,7			1,2,5,			3,4,7,8				3,5,7, 9		15	4	4	2
Crew B for	MAJ	5			6 4			6				6		4	2	2	1
ESG-2	TS	1,2			1,2			2,3						6	0	2	2
	RX		3		3						4			3	1	1	0
	NOR													0*	1	1	1
SROI-2 Crew A	I/C		6,7,8		1,2,5, 6						1,2,3 5,8,9			13*	4	4	2
	MAJ		5		4						6			3	2	2	1
	TS				1,2						1,2,5			5	0	2	2
	RX			3		3				5	ļ			3	1	1	0
RO-1	NOR			1						1				2	1	1	1
Crew A RO-5	I/C			4,6		1,2,5, 6				4,7,8				9	4	4	2
Crew C	MAJ			5		4				6				3	2	2	1
Ciewe	TS			5		4				0				0	0	2	2
	RX	3				3		5			·			3	1	1	0
SROI-3	NOR	1						1						2	1	1	1
Crew B	I/C	4,6,7				1,2,5, 6		3,4,7,8						11	4	4	2
	MAJ	5				4		6						3	2	2	1
	TS	1,2						2,3						-4	0	2	2
	RX		3		3			5						3	1		0
SROI-5	NOR							1							1	1	1
Crew C	I/C		6,7,8		1,2,5, 6			3,4,7,8						м	4	4	2
	MAJ		5		4			6						3	2	2	1
	TS				1,2			2,3						4	0	2	2

Instructions:

Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs 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 1. 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 1-2. 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. 3.

ES-301, Rev. 9, Supp. 1

Transient and Event Checklist

Form ES-301-5

Facility: S	Salem Ge	enerating Sta	ation		ate of E	xam: 11	/26/201	2 Ope	rating T	est No.: 1	1-01 NF	، ۲С					
А	E							Scen	arios								
P P	V E		ESG-1			ESG-2			ESG-3			ESG	-4	Т		М	
L	N	CRE	W POSITI	 	CREV	V POSI		CRE	N POSI		CR	EW PO	SITION	O T		l N	
I	Т	s	A	В	S	A	в	S	A	В	s	A	в	A		I I	
C A	т	R	Т	ō	R	Т	0	R	Т	0	R	Т	0	L		М	
N	Y	0	С	Р	0	С	Р	0	С	Р	0	С	P			U M(*	*\
Т	P F														R	1	, U
	E RX						3		5				4	3	1	1	0
	NOR								1					1	* 1 %	1	1
RO-2	I/C				-		2,5		3,8				2,3,,8	7	4	4	2
Crew A	MAJ				┢───		4		6		·		6	3	2	2	1
	TS				<u> </u>		<u> </u>						-	0	0	2	2
	RX		3		1		3			5				3	1	1	0
	NOR							<u> </u>		1				1.	1	1	1
RO-3 Crew B	i/C		6,7,8				2,5			4,7,8				8	4	4	2
	MAJ		5				4			6				3	2	2	1
	TS													0.44	0	2	2
	RX			3					5					2	1	1	0
RO-4	NOR			1					1					2	1	1	1
Crew B	I/C			4,6					3,8					4	4	4	2
	MAJ			5					6					2	2	2	1
	TS								_					0	0	2	2
	RX	3					3		5					3	1	1	0
SROI-4	NOR	1							1					2	1	13	1
Crew C	I/C	4,6,7					2,5		3,8					7	4	4	2
	MAJ	5					4		6					3	2	2	1
	ΤS	1,2												2	0	2 -	2
	RX												_				
	NOR				<u> </u>												
	I/C				<u> </u>												
	MAJ																
Instruction	TS							l									

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 1. 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 1-2. for-1 basis.

Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight 3. to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Competencies Checklist

Form ES-301-6

Facility: Salem Date o	:	11/2	11/26/12 Operating Test No.:													
	APPLICANTS															
	RO-1, RO-5 SRO-1 SRO-U				RO SROI-1 SRO-U					RO SROI-3 SRO-U			RO SR SR	01-4	01-4 🗹	
Competencies	s	CEN	ARIC)	S	CEN	ARIC)	s	CEN	IARIC)		SCE	NARI	S
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	2,3, 4,5, 6,7, 8	1,2, 4,5, 6	4,6, 7,8		5,8	1,2, 3,5, 6	3,4, 6,7, 8	1,2 ,5, 6,7 ,9	5,8	1,2, 4,5, 6	3,4,6, 7,8		5,8	2,5,6	2,3,4, 6,7,8	
Comply With and Use Procedures (1)	1,3, 4,5, 6,7, 8	1,2, 3,4, 5,6	1,4, 5,6, 7,8		1,2,3, 4,5,6, 7,8	1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7,8	4,5 ,6, 7,8 ,9	1,2, 3,4, 5,6, 7,8	1,2, 3,4, 5,6	1,2,3, 4,5,6, 7,8		1,2,3, 4,5,6, 7,8	2,3,4, 5,6	1,2,3, 4,5,6, 7,8	
Operate Control Boards (2)	1,3, 4	1,3, 4,5, 6	1,4, 5,6, 7,8					3,4 ,5, 6,7 ,9		1,3, 4,5, 6				2,3,4, 5,6	1,3,5, 7,8	
Communicate and Interact	1,2, 3,4, 5,6, 7,8	1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7,8		2,4,5, 6,7,8	1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7,8	1,2 ,3, 4,5 ,6, 7,8 ,9	2,4, 5,6, 7,8	1,2, 3,4, 5,6	1,2,3, 4,5,6, 7,8		2,4,5, 6,7,8	2,3,4, 5,6	1,2,3, 4,5,6, 7,8	
Demonstrate Supervisory Ability (3)					1,3,4	1,2, 3,4, 5,6	1,2, 3,4, 5,7, 8		1,3, 4		1,2,3, 4,5,7, 8		1,3,4			
Comply With and Use Tech. Specs. (3)					1,2	1,2	2,3		1,2		2,3		1,2			
Notes: (1) Includes Technical S	pecifi	catio	n con	npli	ance f	or an	RO.									

Optional for an SRO-U. (2) (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.

Competencies Checklist

Form ES-301-6

Facility: Salem Date of Examination: 11/26/12 Operating Test No.:																
						APPLICANTS										
		D ROI-2 RO-U			RO SRO - SRO-	_			SRC	RO-2 SRO SRO-U				RO-3 SRO-I SRO-U1		
Competencies	S	CEN	ARI	0	SCENA		ARIC)	S	CEN)		SCE	NARIO	
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	2,3, 4,5, 6,7, 8	1,2, 3,5, 6		5,6	2,3,4, 5,6,7, 8	1,2, 3,5, 6	3,4, 6,7, 8			2,5, 6	2,3,4, 6,7,8	3,7 ,8	2,3,4, 5,6,7, 8	2,5,6	4,6,7,8	
Comply With and Use Procedures (1)	1,3, 4,5, 6,7, 8	1,2, 3,4, 5,6		1,2 ,3, 4,5 ,6, 7,8 ,9	1,3,4, 5,6,7, 8	1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7,8			2,3, 4,5, 6	1,2,3, 4,5,6, 7,8	2,4 ,6, 8	1,3,4, 5,6,7, 8	2,3,4, 5,6	1,4,5,6,7 ,8	
Operate Control Boards (2)	1,3, 4				1,3,4					2,3, 4,5, 6	1,3,5, 7,8	2,4 ,6, 8	1,3,4	2,3,4, 5,6	1,4,5,6,7 ,8	
Communicate and Interact	1,2, 3,4, 5,6, 7,8	1,2, 3,4, 5,6		1,2 ,3, 4,5 ,6, 7,8 ,9,	1,2,3, 4,5,6, 7,8	1,2, 3,4, 5,6	1,2, 3,4, 5,6, 7,8			2,3, 4,5, 6	1,2,3, 4,5,6, 7,8	1,2 ,3, 4,5 ,6, 7,8 ,9	1,2,3, 4,5,6, 7,8	2,3,4, 5,6	1,2,3,4,5 ,6,7,8	
Demonstrate Supervisory Ability (3)		1,2, 3,4, 5,6		1,2 ,3, 4,5 ,6, 7,8 ,9		1,2, 3,4, 5,6	1,2, 3,4, 5,7, 8									
Comply With and Use Tech. Specs. (3)		1,2		1,2 ,5		1,2	2,3									
	Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U.															

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.

Competencies Checklist

Form ES-301-6

Facility: Salem Date of Examination: 11/2						0/26/12 Operating Test No.:										
						APPLICANTS										
	SF	RO-4 ☑ SROI □ SRO-U □			RO SRO-I SRO-U				RO SRO-I SRO-U					RO- SRO-I SRO-U		
Competencies	SCENARIO			SCENARIO			SCENARIO			SCENARIO						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	2,3, 4,5, 6,7, 8		2,3, 4,6, 7,8													
Comply With and Use Procedures (1)	1,3, 4,5, 6,7, 8		1,2, 3,4, 5,6, 7,8													
Operate Control Boards (2)	1,3, 4		1,3, 5,7, 8													
Communicate and Interact	1,2, 3,4, 5,6, 7,8		1,2, 3,4, 5,6, 7,8													
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.

Page 3 of 3

Written Examination Quality Checklist

Form ES-401-6

Facility:	Salem	Date of Exam:	1/26/12-	Exam Level:	RO	SR	٥V			
	Item Description									
1.	Questions and answers are technically accurate and app	Ľ	B	us						
2.	a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as	Ŀ	В	V2						
3.	SRO questions are appropriate in accordance with Section	للحر	Б	WZ						
4.	The sampling process was random and systematic (If mo were repeated from the last 2 NRC licensing exams, con-			A						
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 more than 75 percent 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.	Bank Modified New 40/10 6/2 29/13		14	ıs	A				
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 K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.	and 60 percent of the questions on the RO tten at the comprehension/ analysis level; m may exceed 60 percent if the randomly s support the higher cognitive levels; enter 36 / 10 39 / 15					XJ			
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.	3			A	В	ø			
9.	A	B	W							
10.	Question psychometric quality and format meet the guide	lines in ES Ap	pendix B.		A	B	W			
11.	The exam contains the required number of one-point, mu the total is correct and agrees with the value on the cover		ems;		Ŋ	Ь	A.			
Printed Name / Signature a. Author b. Facility Reviewer (*) c. NRC Chief Examiner (#) d. NRC Regional Supervisor Paral Council of Sills /										
Note:	 The facility reviewer's initials/signature are not applicat # Independent NRC reviewer initial items in Column "c"; 									

Updated after NRC comments incorporated on exam. A 11-8-12

Written Examination Grading Form ES-403-1 Quality Checklist

Facility: Se	alem	Date of Exam: 12/3/12 Exa	im Level: I	ROVE			
		Initials					
	lt	em Description	а	b	с		
1. Clear	answer sheet	s copied before grading	M	N	63		
	er key changes locumented	s and question deletions justified	14	A	isy		
		necked for addition errors k > 25% of examinations)	1J	R	ex)		
		rline cases (80 ±2% overall and 70 or 8 on the SRO-only) reviewed in detail	0, A	A	w)		
	ner failing exam stified	ninations checked to ensure that grades	Ą	N	od		
defici	encies and wor	sed questions checked for training ding problems; evaluate validity by half or more of the applicants	A	M	W		
		Printed Name/Signature			Date		
a. Grader		Gerald Gauding / Duald Day	uding	12/	3/12		
b. Facility Reviewer(*) Clew MARShall Marshall 12/3/12							
c. NRC Chief Examiner (*) David SILK / Dun all <u>iz/12/12</u>							
d. NRC Supe	ervisor (*)	Donald Jackson all K	\geq	12/	17/12		
		signature is not applicable for examination	ons graded	by the	NRC;		

ES-403