Examination Preparation Checklist

Form ES-201-1

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Facility:	HC Date of Examination	n: <u>6/16-20/03</u>				
Examinati	ons Developed by: Facility / NRC (circle one)					
Target Date*	Task Description / Reference	Chief Examiner's Initials				
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	TF				
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	TF				
-120	3. Facility contact briefed on security & 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)]	<u></u>				
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	TF				
-70	 Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e) 	TF				
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	TF				
-30	9. Preliminary license applications due (C.1.I; C.2.g; ES-202)	TF				
-14	10. Final license applications due and assignment sheet prepared (C.1.I; C.2.g; 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 & h; C.3.g)	TF				
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)					
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	TF				
-7	 Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k) 	TF				
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)					
The with	 * Target dates 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. 					

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Examination Outline Quality Checklist

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Facility	Date of Examination:					
		Initials				
ltem	Task Description	a b* c#				
1. W	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	QET TF				
R I T	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.					
T	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	QET & TF				
Ň	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	QSAR TF				
2.	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients.	REZ OF TF				
S I M	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; ensure 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 over successive days.	QEZ & TF				
	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.	alf of TF				
3. W / T	 a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, (2) no more than 30% of the test material is repeated from the last NRC examination, (3)* no tasks are duplicated from the applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks. 	AEJ & TF				
	 b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, (2) one task is conducted in a low-power or shutdown condition, (3) 40% of the tasks require the applicant to implement an alternate path procedure, (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and (5) the in-plant walk-through requires the applicant to enter the RCA. 	QETR TF				
	c. Verify that the required administrative topics are covered, with emphasis on performance- based activities.	atto TF				
	d. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on successive days.	QE & TF				
4.	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	QE R TF				
G E	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	DE DE TF				
N E	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	at R TF				
R A	d. Check for duplication and overlap among exam sections.	ac & TF				
L	e. Check the entire exam for balance of coverage.	US & TF				
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	DE R TF				
c. NRC	Printed Name / Signature TH ARCHIEE FAULAUR Chance I Signature TH SIGNES G. REID James III Chief Examiner (#) TODD H. FISH JUDIC H. Fish Supervisor Richard J. Conte	Date 4/16/03 4/12/03 4/24/03 4/22/03				
Note:	 Not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required. 					

23 of 24 NUREG-1021, Revision 8, Supplement 1

Dwayne Gartner Jim Noonan Mike Engel Paul Breidenbach Sean Franek Chris Watson David Hall

Fritz Possessky J.R. Trautvetter Kurt Doten Larry Sinclair Steve Nevelos Tom Fowler Tom Kiessling



ATTACHMENT 6 Page 1 of 7 571/03

RECEIVED **REGION 1**

NC.TQ-WB.ZZ-0027(Z)

2003 AUG 12 AN 10: 15

NRC Examination Security Agreement

Pre-Examination 1.

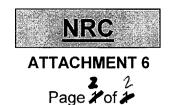
I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 6/16-30/03 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC 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. 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.

Post-Examination 2.

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 6/16-30/03. 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
David M. Rein	Instructor	Dall. Proje	2/24/03	12 MR.	6/5/03	
ARCHIE EFAULKare	- Sopervison	Applie the		and E Ill	6/26/03	
GERALD GALDING	Instructor	Laudin 1	2/25/03	Astandin	6/25/03	
FRANCIS J KAMINE	INSTRUCTOR		2-2503	Francis HRC his	6-26-03	
Donald W. Le Grand	INSTRUCTOR	Jonald W. Lettand	3-24-03	Doyald & Lestiand	6 26/03	······
Donnis Kalsachinski	Intructor	DAbachh	4/9/03	Of preff	6/26/03	
JAMES G. REID	OPSTRNG MOR	Jung to	4/14/03	Jampet D	6/20/03	
Steve Kopsich	NCO	_ / flent	5-6.03		6.26.03	
RICK FICARRA	NCO	- R Micoma	5-6-03	K Manne	8-7-03	
EDWARD G. CHPTER	SRO	ilgourt	050603	ig chil	062603	
		Page 85 of 104		0	Rev. 2	

Dwayne Gartner Jim Noonan Mike Engel Paul Breidenbach Sean Franek Chris Watson David Hall Fritz Possessky J.R. Trautvetter Kurt Doten Larry Sinclair Steve Nevelos Tom Fowler Tom Kiessling



NRC Examination Security Agreement

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <u>6/16-30/03</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. 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>6/16-30/03</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
David M. Rein	Instructor and					
BIN CHERN	Software Engineer	Di Cl	5/7/2003	12 al	0/20/03	
PETE DORAN	HE THAT INST	CITS	6/16/03	Fritz	6/27/03	
MARK PARRISH	HE ILOT INST	MW Park	6/16/03	Mulal	<u>6/24/03</u>	
Nicola F. Coniculle	HC LOT Supt.	4.26	C/16/03	K.r.C.	6/24/03	
SHMESG. REID	OPSTRAINING MOR	James Hert	6/16/03	Jannow det	424/03.	
BEHROUZ SEDIE	IC Tech.	Behnin Sedighi	6-12:03	/ Behron Sechighi	6-26-03	

Operating Test Quality Checklist

Form ES-301-3 (R8, S1)

Facility:	HOPE CREEK Date of Examination: 6/17/03 Operatin	g Test	Numbe	er: {
			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).	ar	\$2	ΤF
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	497	62	TF
с.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	287	X	TF
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	QE7	P	TF
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	QE J	R	TF
	2. WALK-THROUGH (CATEGORY A & B) 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 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 	Q: A	Q,	TF
b.	The prescripted questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	420	R	TF
с.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	ait	R	TF
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	as 1	62	7F
	3. SIMULATOR (CATEGORY C) CRITERIA			
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	04. J	P	1F
c. NRC C d. NRC S	A Reviewer(*) Shief Examiner (#) Supervisor TODD FISH Jodd Fish Supervisor TODD FISH JODD FISH	ام ایک (ک) کا	12/0	03
NOTE:	 The facility signature is not applicable for NRC-developed tests/ # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required. 			

ES-301	Simulator Scenario Quality Checkl	ist Form ES	-301-4	(R8, S		
Facility:	HOPE CREEK Date of Exam: 6/17/03 Scenario Num	bers: 1 / 2 / 3/ Oper	rating Tes	st No.:		
	QUALITATIVE ATTRIBUTES			nitials		
			а	b* c#		
1.	The initial conditions are realistic, in that some equipment and/or instrument service, but it does not cue the operators into expected events.	tation may be out of	arty	PTF		
2.	The scenarios consist mostly of related events.		QE 7 Y	KIF		
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)		as 7 1	RTF		
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated without a credible preceding incident such as a seismic event.	into the scenario	a178	2 TF		
5.	The events are valid with regard to physics and thermodynamics.		657K	2 TF		
6.	Sequencing and timing of events is reasonable, and allows the examination complete evaluation results commensurate with the scenario objectives.	team to obtain	Q07 8	2 TF		
7.	If time compression techniques are used, the scenario summary clearly so indicates. Operators have sufficient time to carry out expected activities without undue time constraints. Cues are given.					
8.	The simulator modeling is not altered.		Q1/2	2 11		
9.	The scenarios have been validated. Any open simulator performance defici evaluated to ensure that functional fidelity is maintained while running the pl	encies have been anned scenarios.	GETY	RTF		
10.	Every operator will be evaluated using at least one new or significantly modi other scenarios have been altered in accordance with Section D.4 of ES-30		aet a	RTF		
11.	All individual operator competencies can be evaluated, as verified using For the form along with the simulator scenarios).	m ES-301-6 (submit	aezz	R TF		
12.	Each applicant will be significantly involved in the minimum number of trans specified on Form ES-301-5 (submit the form with the simulator scenarios).	ients and events	QET E	2 TF		
13.	The level of difficulty is appropriate to support licensing decisions for each c	rew position.	asp &	RIF		
TARGE	QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)	Actual Attributes				
1.	Total malfunctions (5-8)	5151615	arg o	RTF		
2.	Malfunctions after EOP entry (1-2)	1/2/3/2	art 1	PTF		
3.	Abnormal events (2-4)	2/31212	aite	PIF		
4.	Major transients (1-2)	1/1/1/1	ar b	2 TF		
5.	EOPs entered/requiring substantive actions (1-2)	2/31212	as Ar	P TF		
6.	EOP contingencies requiring substantive actions (0-2)	0/11/12	QEP 8	2 TF		
7.	Critical tasks (2-3)	2/2/314	as Ax	2 TF		

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Transient and Event Checklist

FORM ES-301-5

Operating Test Number:

Applicant Tupo		pplicant Type Evolution Type Minimum Number	Minimum	Scenario Number				
Applicant Type			1	2	3	4		
	Reactivity	1	3					
	Normal	1		3				
R01	Instrument / Component	4	4	4,5,7	-			
	Major	1	5	6				

	Reactivity	1		1		
As RO	Normal	0				
	Instrument / Component	2		2,5	5,6,7	
	Major	1		6	4	
SRO-I(1)						
	Reactivity	0				
	Normal	1	1			
As SRO	Instrument / Component	2	2,3,4			
	Major	1	5			

SRO-U	Reactivity	0		_	
	Normal	1	 		
	Instrument / Component	2			
	Major	1			

Instructions:

(1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

- (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
- (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.

Author:

NRC Reviewer:

J. Fish



Transient and Event Checklist

FORM ES-301-5

Operating Test Number: (

Applicant Type	Evolution Lyna	Minimum	Scenario Number				
		Number	1	2	3	4	
	Reactivity	1	3				
	Normal	1		3			
RO2	Instrument / Component	4	4	4,5,7			
	Major	1	5	6			

·	Reactivity	1			1	
	Normal	0	1			
As RO	Instrument / Component	2	2,3,4, 6		2,3	
	Major	1	5		4	
SRO-I(2)						-
	Reactivity	0				
	Normal	1		1,3		
As SRO	Instrument / Component	2		2,4,5, 7		
	Major	1		6		

,,	Reactivity	0		
	Normal	1		
SRO-U	Instrument / Component	2		
	Major	1		

Instructions:

- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
- (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
- (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.

<u>_____</u> Author: ť NRC Reviewer:



Transient and Event Checklist

FORM ES-301-5

Operating Test Number:

Applicant Type	Evolution Type	Minimum	Scenario Number				
	Number	Number	1	2	3	4	
RO3	Reactivity	1	3				
	Normal	1		3			
	Instrument / Component	4	4	4,5,7			
	Major	1	5	6			

	Reactivity	1		1		
	Normal	0				
As RO	Instrument / Component	2		2,5	5,6,7	
	Major	1		6	4	
SRO-I(3)				·		
	Reactivity	0				
	Normal	1	1			
As SRO	Instrument / Component	2	2,3,4			
	Major	1	5			

	Reactivity	0		
SRO-U	Normal	1		
	Instrument / Component	2		
	Major	1		

Instructions:

(1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

- (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
- (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.

Author:

NRC Reviewer:

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ES-301

Transient and Event Checklist

FORM ES-301-5

Operating Test Number:

A south a set Tours	Evelution Truce	Minimum Number	Scenario Number				
Applicant Type	Evolution Type		1	2	3	4	
RO4 RO4 Mormal Instrument / Component Major	Reactivity	1					
	Normal	1					
		4					
	1	_					

	Reactivity	1			1	
	Normal	0	1			
As RO	Instrument / Component	2	2,3,4, 6		2,3	
	Major	1	5		4	
SRO-I(4)						-
	Reactivity	0				
	Normal	1		1,3		
As SRO	Instrument / Component	2		2,4,5, 7		
	Major	1		6		

	Reactivity	0		
	Normal	1		
SRO-U	Instrument / Component	2		
	Major	1		

Instructions:

(1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

- (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
- (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.

Author:

NRC Reviewer:

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Transient and Event Checklist

NRC

FORM ES-301-5

Operating Test Number: \

Applicant Type	Evolution Type	Minimum Number	Scenario Number				
	Evolution Type		1	2	3	4	
RO5	Reactivity	1					
	Normal	1					
	Instrument / Component	4					
	Major	1					

	Reactivity	1		1		
	Normal	0				
As RO	Instrument / Component	2		2,5	5,6,7	
	Major	1		6	4	
SRO-I(5)						
	Reactivity	0				
	Normal	1	1			·
As SRO	Instrument / Component	2	2,3,4			
	Major	1	5			

	Reactivity	0		
SRO-U	Normal	1		
	Instrument / Component	2		
	Major	1		

Instructions:

(1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

- (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
- (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.

Author:

NRC Reviewer:

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Transient and Event Checklist

FORM ES-301-5

Operating Test Number: 1

Applicant Type	Evolution Type	Minimum Number	Scenario Number				
			1	2	3	4	
RO In	Reactivity	1					
	Normal	1					
	Instrument / Component	4					
	Major	1					

	Reactivity	1			1	
	Normal	0	1			
As RO	Instrument / Component	2	2,3,4, 6		2,3	
	Major	1	5		4	
SRO-I(6)					·	
	Reactivity	0				
	Normal	1		1,3		
As SRO	Instrument / Component	2		2,4,5, 7		
	Major	1		6		

SRO-U	Reactivity	0		
	Normal	1		
	Instrument / Component	2		
	Major	1		

Instructions:

- (1) Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
- (2) Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.
- (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.

Author:

NRC Reviewer:

J. Fish



ES-301

Competencies Checklist

FORM ES-301-6

	R	Applic	ant #1 -I/SRC)-U	RC	Applic	ant #2 -I/SRC)-U	R)-U		
Competencies		SCEN	IARIO			SCEN	IARIO			SCEN	IARIO	
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	3,4, 5	4,5, 6,7			3,4, 5	4,5, 6,7			3,4, 5	4,5, 6,7		
Diagnose Events and Conditions	3,4, 5	4,5, 6,7			3,4, 5	4,5, 6,7			3,4, 5	4,5, 6,7		
Understand Plant and System Response	3,5	4,5, 6			3,5	4,5, 6			3,5	4,5, 6		
Comply With and Use Procedures (1)	3,4, 5	3,4, 6,7			3,4, 5	3,4, 6,7			3,4, 5	3,4, 6,7		
Operate Control Boards (2)	3,4, 5	3,4, 6,7			3,4, 5	3,4, 6,7			3,4, 5	3,4, 6,7		
Communicate and Interact With the Crew	3,4, 5	3,4, 5,6, 7			3,4, 5	3,4, 5,6, 7			3,4, 5	3,4, 5,6, 7		
Demonstrate Supervisory Ability (3)												
Comply With and Use Tech. Specs. (3)												
Notes:	ı <u></u>	.	L	L	<u> </u>	1	I		и <u> </u>	•	·	

(1) Includes Technical Specification compliance for an RO.

(2) Optional for an SRO-U.

(3) Only applicable to SROs.

Instructions: Circle 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.

Author: A.R.	
NRC Reviewer: <u>J-</u> Jush	



ES-301

Competencies Checklist

FORM ES-301-6

			Applicant #4 RO/SRO-J/SRO-U			Applicant #5 RO(SRO-I/SRO-U				Applicant #6 RO(SRO-I)SRO-U			
Competencies	SCENARIO		SCENARIO				SCENARIO						
	1	2	3	4	1	2	3	4	1	2	3	4	
Understand and Interpret Annunciators and Alarms	2,3, 4,5	5,6	2,4, 5,6, 7		2,3, 4,5	4,5, 6	2,3, 4		2,3, 4,5	5,6	2,4, 5,6, 7		
Diagnose Events and Conditions	2,3, 4,5	2,6	2,4, 5,6, 7		2,3, 4,5, 6	2,4, 5,6	2,3, 4		2,3, 4,5	2,6	2,4, 5,6, 7		
Understand Plant and System Response	2,3, 5	2,6	2,4, 5,6, 7		2,3, 5,6	2,4, 5,6, 7	1,2, 3,4		2,3, 5	2,6	2,4, 5,6, 7		
Comply With and Use Procedures (1)	2,3, 4,5	1,2, 5,6	4,7		2,3, 4,5, 6	2,4, 5,6, 7	1,2, 3,4		2,3, 4,5	1,2, 5,6	4,7		
Operate Control Boards (2)		1,2, 5,6	4,5, 6,7		2,3, 4,5, 6		1,2, 3,4			1,2, 5,6	4,5, 6,7		
Communicate and Interact With the Crew	1,2, 3,4, 5	1,2, 5,6	2,4, 5,6, 7		2,3, 4,5	1,2, 3,4, 5,6, 7	1,2, 3,4		1,2, 3,4, 5	1,2, 5,6	2,4, 5,6, 7		
Demonstrate Supervisory Ability (3)	1,2, 3,4, 5					2,4, 5,6, 7			1,2, 3,4, 5				
Comply With and Use Tech. Specs. (3)	2,3					4			2,3				

Notes:

(1) Includes Technical Specification compliance for an RO.

(2) Optional for an SRO-U.

(3) Only applicable to SROs.

Instructions: Circle 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.

Author _____ Įť. Л, NRC Reviewer:

NRC

NC.TQ-WB.ZZ-0027(Z)

ES-301

Competencies Checklist

FORM ES-301-6

	Ap pli RO(SRC		Ap pli cant #7 RO(SRO-I) SRO-U			Applicant #8 ROISRO-I/SRO-U				Applicant #9 ROISRO-I/SRO-U				
Competencies	SCENARIO				SCENARIO				SCENARIO					
	1	2	3	4	1	2	3	4	1	2	3	4		
Understand and Interpret Annunciators and Alarms	2,3, 4,5	4,5, 6	2,3, 4		2,3, 4,5	5,6	2,4, 5,6, 7		2,3, 4,5	4,5, 6	2,3, 4			
Diagnose Events and Conditions	2,3, 4,5, 6	2,4, 5,6	2,3, 4		2,3, 4,5	2,6	2,4, 5,6, 7		2,3, 4,5, 6	2,4, 5,6	2,3, 4			
Understand Plant and System Response	2,3, 5,6	2,4, 5,6, 7	1,2, 3,4		2,3, 5	2,6	2,4, 5,6, 7		2,3, 5,6	2,4, 5,6, 7	1,2, 3,4			
Comply With and Use Procedures (1)	2,3, 4,5, 6	2,4, 5,6, 7	1,2, 3,4		2,3, 4,5	1,2, 5,6	4,7		2,3, 4,5, 6	2,4, 5,6, 7	1,2, 3,4			
Operate Control Boards (2)	2,3, -4,5, 6		1,2, 3,4			1,2, 5,6	4,5, 6,7		2,3, 4,5, 6		1,2, 3,4			
Communicate and Interact With the Crew	2,3, 4,5	1,2, 3,4, 5,6, 7	1,2, 3,4		1,2, 3,4, 5	1,2, 5,6	2,4, 5,6, 7		2,3, 4,5	1,2, 3,4, 5,6, 7	1,2, 3,4			
Demonstrate Supervisory Ability (3)		2,4, 5,6, 7			1,2, 3,4, 5					2,4, 5,6, 7				
Comply With and Use Tech. Specs. (3)		4			2,3					4				

Notes:

(1) Includes Technical Specification compliance for an RO.

(2) Optional for an SRO-U.

(3) Only applicable to SROs.

Instructions: Circle 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.

_____ NI.C Author: Ĩ _____ NRC Reviewer:

Written Examination Quality Checklist

2. 3.	 a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available 		to facil	itv		a GE)	Initial b*	с*			
2. 3.	Questions and answers technically accurate and a a. NRC K/As referenced for all questions b. Facility learning objectives referenced as availa		to facil	itv			b*	с#			
2. 3.	 a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available 		to facil	itv		AC1					
3.	b. Facility learning objectives referenced as available	abla	Questions and answers technically accurate and applicable to facility								
		 a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available 									
	RO/SRO overlap is no more than 75 percent, and per Section D.2.d of ES-401	as f	- &	TF							
	Question selection and duplication from the last tw appears consistent with a systematic sampling pro			TF							
	 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 AND the audit exam was completed before the license exam was started; or the examinations were developed independently; or X the licensee certifies that there is no duplication; or other (explain) 						¥	TF			
	Bank use meets limits (no more than 75 percent from the bank at least 10 percent new, and the rest modified); enter the actual question	Bank Modified New			QEJ	\mathcal{A}	TF				
	distribution at right			ur g							
	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory C/A 4357			QEJ	R	TF				
	References/handouts provided do not give away a	answers				aet	K	TF			
	Question content conforms with specific K/A state approved examination outline and is appropriate f assigned; deviations are justified				are	az J	R	TF			
10.	Question psychometric quality and format meet E	S, Append	lix B, g	uideline	es	QET	R	TF			
	The exam contains 100, one-point, multiple choice agrees with value on cover sheet	e items; th	e total	is corre	ect and	aeJ	R	TF			
Printed Name / Signature Date a. Author Arctfić E Fav (KNER / Inch & J/L 5/11/03 b. Facility Reviewer (*) JAMES G. RED / James / Jack 5/11/03 c. NRC Chief Examiner (#) TODD FISH / Job / Fish 6/9/03 d. NRC Regional Supervisor R.U. Con fac 6/9/03 Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations.											

Written Examination Quality Checklist

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				1					
Facility:	Hope CREEK Da	te of Exam	: 6/1	7/03		Exam Le	vel: RC		
							Initial		
	Item Description					а	b*	c#	
1.	Questions and answers technically accurate and	applicable	to faci	lity		GEJ	82	TF	
2.	 a. NRC K/As referenced for all questions b. Facility learning objectives referenced as avail 	NRC K/As referenced for all questions Facility learning objectives referenced as available							
3.	ropriate	427	R	TF					
4.	 Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process 								
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 AND the audit exam was completed before the license exam was started; or the examinations were developed independently; or X the licensee certifies that there is no duplication; or other (explain)						R	TF	
6.	Bank use meets limits (no more than 75	Bank	Mod	ified	New				
	percent from the bank at least 10 percent new, and the rest modified); enter the actual question distribution at right	440	1816 44		44	QEJ	R	ボ	
7.	Between 50 and 60 percent of the questions on	Memo	ry		C/A				
	the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	40)	6	0	GEJ	\$2	TF	
8.	References/handouts provided do not give away a	answers				QEJ	Q	TF	
	Question content conforms with specific K/A state approved examination outline and is appropriate f assigned; deviations are justified	ments in th or the Tier	ne prev to whi	viously ch they	are	BET	Q	τF	
10.	Question psychometric quality and format meet E	S, Appendi	x B, g	uideline	es	QEJ.	R	TF	
11.	The exam contains 100, one-point, multiple choice agrees with value on cover sheet	e items; the	e total	is corre	ect and	QEF	R	TF	
a. Author b. Facility Reviewer (*) c. NRC Chief Examiner (#) d. NRC Regional Supervisor Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations.								/	
	# Independent NRC reviewer initial items in Colur	mn "c;" chie	efexar	niner co	oped exa	ce requi	red.		

ES-403

Written Examination Grading Quality Checklist

Facilit	ty: HOPE CREEK Date of Exam: 6/6/03	Exam Le	evel	O/SRO						
			Initials	5						
	Item Description	а	Ь	с						
1.	Clean answer sheets copied before grading	QET	in	TF.						
2.	Answer key changes and question deletions justified and documented	Q57	n	TF						
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	aet	r	TF/A						
4.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	ast	~	TF/A						
5.	All other failing examinations checked to ensure that grades are justified	asr	m	TF/A						
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	q=J	~	TF						
	Printed Name / Signature		D	ate						
a. Gr	ader and The	_	71:	28/03						
b. Fa	cility Reviewer(*)	_	<u>F/a</u>	8/03						
c. NR	C. NRC Chief Examiner (*) GILBERT A JULANSON (Milbert a Johnson 4/6/03)									
d. NR	RC Supervisor (*) (+) R.J. Con te 1.69 Cm	-	sh	2/07						
(*)	(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.									
((+) BC involved in resultation of t,)) pl-log - 38/6/03 out of to	feich	f C	en net						

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