Facility: PPL - Susquehanna Date of Examination: August 11, 2002 Examinations Developed by: PPL - Susquehanna						
Target Date*	Task Description / Reference	Chief Examiner's Initials				
02/11/02	Examination administration date confirmed (C.1.a; C.2.a & b)	4/1/02 \$				
04/11/02-TH	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	4/4/02 \$				
04/11/02-TH	3. Facility contact briefed on security & other requirements (C.2.c)	4/4/02 \$				
04/11/02-TH	Corporate notification letter sent (C.2.d)	4/4/02 B				
NA	[5. Reference material due (C.1.e; C.3.c)]	NA				
05/27/02-M	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	5/26/02 \$				
05/31/02-F	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	5/30/02 B				
06/25/02-TU	Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	6/20/02 B				
07/10/02-W	9. Preliminary license applications due (C.1.l; C.2.g; ES-202)	7/11/02 B				
07/26/02-F	10. Final license applications due and assignment sheet prepared (C.1.l; C.2.g; ES-202)	1/24/02				
07/26/02-F	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	1/11/02 8				
07/26/02-F	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	7/18/62 \$				
08/02/02-F	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)					
08/02/02-F	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	8/7/02 B 8/7/02 B				
08/02/02-F	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)					
08/02/02-F	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i).	8/1/02 5				

They are for planning purposes and may be adjusted on a case-by-case basis in coordination

with the facility licensee.

Applies only to examinations prepared by the NRC.

[]

Facility	Date of Examination:				
Item	Task Description	_	Initial	<u> </u>	
		a ,	b*	₽¢#	
1.	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	CHC	WWK	8	
W	b. Assess whether the outline was systematically and randomly prepared in accordance	100			
R	with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	BH of	well	% 0	
<u> </u>	c. Assess whether the outline over-emphasizes any systems, evolutions, or	AIB		1,5	
<u>T</u>	generic topics.	out or	JOH	20	
<u> </u>	d. Assess whether the justifications for deselected or rejected K/A statements are	411	7	<u> </u>	
E	appropriate.	BHI ~	4		
N		8	MATE	8	
2.	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number	est of	11.6	·K	
	of normal evolutions, instrument and component failures, and major transients.	6 6	Mary .	b	
S	b. Assess whether there are enough scenario sets (and spares) to test the projected	GH	. 1	,	
!	number and mix of applicants in accordance with the expected crew composition and	,	NAME OF	•	
M	rotation schedule without compromising exam integrity; ensure each applicant can be	1			
li i	tested using at least one new or significantly modified scenario, that no scenarios are	1			
li l	duplicated from the applicants' audit test(s)*, and scenarios will not be repeated over	8		2	
11	successive days.	וט		A Comment	
 	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and	all.	i Like		
	quantitative criteria specified on Form ES-301-4 and described in Appendix D.	9			
3.	a. Verify that:	Q III		0	
ll 1	(1) the outline(s) contain(s) the required number of control room and in-plant tasks,	BA	ILLAK	T	
w	(2) no more than 30% of the test material is repeated from the last NRC examination,		W	_	
/	(3)* no tasks are duplicated from the applicants' audit test(s), and				
T	(4) no more than 80% of any operating test is taken directly from the licensee's exam	9			
	banks.	ן די			
[] [b. Verify that:	CZKI	// .	2/	
	(1) the tasks are distributed among the safety function groupings as specified in ES-301,	17W	WY.	\sim	
1	(2) one task is conducted in a low-power or shutdown condition,		1		
	(3) 40% of the tasks require the applicant to implement an alternate path procedure,				
i I	(4) one in-plant task tests the applicant's response to an emergency or abnormal				
	condition, and	91			
	(5) the in-plant walk-through requires the applicant to enter the RCA.	1	ľ		
	c. Verify that the required administrative topics are covered, with emphasis on	aug	INDE	B	
	performance-based activities.	8	We'	D	
1	d. Determine if there are enough different outlines to test the projected number and mix of	24 C		-	
	applicants and ensure that no items are duplicated on successive days.	الو سا	NA	150	
4.	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in	OHO	1.00	-	
	the appropriate exam section.	(A)	Mrs	1	
G	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	BN 90	July I	2	
E		au 9	JANK	=	
N		BH 90	11/2		
E		and a	NA.		
R	~:		- Las	2	
A	and and an an appropriate job level (i.e. of offer).	BHQ	W.	D	
L			ינ	_	
a. Author Baug Herwick Signature Date 4/8/02 TOWNOW 5/16/02 b. Facility Reviewer (*) Walter W. Hun Walter 71 5/16/02 c. NRC Chief Examiner (#) Alan Blamey WIRE 5/16/02 With					
d. NRC	* Not applicable for NRC-developed examinations.	nmen			
	# Independent NRC reviewer initial items in Column "c;" chief examiner concurrence require	d			

May 30, 2002

MEMORANDUM TO:

Exam File

PPL Susquehanna, LLC

Susquehanna Steam Electric Station

FROM:

Alan Blamey

7 5/30/02

Senior Operations Engineer

SUBJECT:

COMMENTS ON SUSQUEHANNA STEAM ELECTRIC STATION

UNITS 1 & 2 FINAL EXAM OUTLINE.

The purpose of this memorandum is to document comments on the Susquehanna final exam outline received on Friday, May 24, 2002. Changes to the exam outline was reviewed by A. Blamey, Senior Operations Engineer. Comments were provided to J. Morris, Examination Developer, Susquehanna on May 30, 2002. The comments are as follows.

ES-201-2,

Examination Outline Quality Checklist

Section 1.

Written

NO COMMENTS

Section 2. Simulator

a. Form ES-301-5, "Transient and Event Checklist," & ES-301-6, "Competencies Checklist."



These forms have been completed by PPL but have not been signed by PPL management. The NRC has completed our review of these forms and determined that the applicants would receive the required evolutions during the simulator exam.

b. No scenarios are duplicated from the applicants audit exam.

&

Since the audit exam has not been developed this must be verified prior to administering the exam. PPL is aware that the simulator exams can not be a duplicated from the audit exam.

c. Does the simulator exam outline confirm to the qualitative and quantitative criteria specified in ES-301-4.

__<u>&___</u>

Scenario 1, Event 2

Failure of the EDG B output breaker in the tripped condition do to overcurrent may allow limited opportunities to evaluate an applicant on a response to an instrument failure.

	_	Scenario 2
		Seems to have a high number of equipment failures that are not related.
		This scenario and scenario 4 seem to be similar ATWS / Turbine Trip (or BPV) / SBL failure
<u> </u>		Scenario 4, Event 2
		Failure of the RHRSW radiation monitor to its high value may provide limited opportunity to evaluate an applicant on a response to an instrument failure. Especially since the RHRSW pump has already been tripped.
		Scenario 5
		Should have event that results in fuel failure. Such as HPCI inadvertent start / inject ect.
Section 3.	Walk	Through - Job Performance Measures (JPM)
occion o.		
	a. (3)	No scenarios are duplicated from the applicants audit exam.
	_	Since the audit exam has not been developed this must be verified prior to administering the exam. PPL is aware that the walk through (JPMs) exams can not be a duplicated from the audit exam.
Section 4.	Gener	ral Control of the Co
	4. b.	Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.
		The outline does not specify which items are SRO / RO questions. This will be reviewed when the questions are developed.
	C.	Ensure the K/A importance ratings are at least 2.5.
\$	_	The facility walk-through exam dose not have K/A importance assigned to the tasks. (ES-301-2)
	d.	Check for duplication and overlap among exam sections.

The outline appears acceptable; however, the NRC can not make a final determination until the exam is drafted and the individual questions can be reviewed.

e. Check the entire exam for balance of coverage.

The outline appears balanced; however, can not make a final determination until the exam is drafted and the individual questions can be reviewed.

f. Assess whether exam fits the appropriate job level. (RO / SRO).

The outline appears acceptable; however, can not make a final determination until the exam is drafted and the individual questions can be reviewed.

ES-201 Examination Security Agreement

Form ES-201-3 (R8, S1)

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>08/12/2002</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. <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 2/12/8/16. 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. Bruce A. Hennigan	Project Manager/Developer(WD)	BMb_	ilitoz		<u>, , 1.</u> ~
	2. <u>Jeffery D. Morris</u>	Facility Supervisor (SSES)	DOMOWOW /	1/17/02 8	WOMON!	3/27/02
	3. Terry W. Logsdon	Exam Writer WD	Longe W. Korodon	1/29/02		
	4. WALTER WITHURT	TRN MAR / UTILITY RER	walter at	2/12/02	Jalow Hot	8/22/02
1.4	5. CHUCK HESS	REDUMI SIM INST	6	3/19/02	Cada	<i>ત્રીપો</i> ડ ટ
#0/0	6. Icoll Dieffenbac	Ler Computer Maint.	Scall will when the	3/-4/2/0	2 Xeat Viel ala	L8/2362
015	7. DON KNUPP	Computer Maint	Jon Jako	14/2/02	Jon Lunto	8/22/02
600	8. Grey ressler	Sp-oteraMaint.	the to sale	42/02	Dry tester	319919
009	9. Cleon Dodge	Conjuter Sing Gralace	o Merre Stade	42/62	- Mychoole	8/27/02
124	10. DARVIN DUTTRY	REACTON OPERATOR	The A shall	5/13/02	- Sof Dit	8/22/02
019	11. Thomas P. Greet	L'eactor Goesator	Themas to soe	5-13-02	1 stmat & Olec	8-32-92
•	12. Donald E. Roland	Shift Supervisor	DERoland A s	5-13-02		
003	13. verry Radish str	Operatives Super	Jany Kachaloffer	5.13,00	May achille	e.22.00
016	14. Ronald Klein	Unit Supv.	1. W. Klein	5-30-02	Ca.w. Klein	82202
004	15. Gerald K. Rinehart JR	PCO	Mult	5-30-02	1. walderict	8-22-02

NOTES:

ES-201

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 08/12/2002 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 8/12 8/14 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 NOT	Έ
1.	Jeanine Kittelt	Office Manager	lanine Kittelt_	2:19-02			
2.	DAVID S. BORGER	UNIT SUPERVISOR	Warit S. Bouger	5.31.0Z			_ <
3.	STEPHED L. HUFF	PLADE , RODAROL OPERATION	Stephen At Hull	5-31-02	teekralet Hun	\$ 8/22/02	_
4.	BONALD M. FRY	Sound It Le Unit Suscerse	hound by Ful	6402	Koyald y Just	8-22-02	
5. 🕏	PAULE HOTHNELL	102ANT LONGE 10141	on Buttermull	6/4/02			
6. (RICH E. CHIN	Audit Exam TEAM	Dal E. Chi	Ce-10-03	Rich E. Chi	8-24-02	_
7. <	Tanicet They.	Admin Support	Chance F Fally	6-1202			
8. ີ	SAMUEL M. COHEN	EXAM SUPPORT	Samuel M Col	6-18-02			
_ **	renk Towall	3:m In structor	Dist Tough	フーツル		8-53-65	
10. (Grant Fernsler	Shift MANAger	Trant Leusly Jr.	<u> 7/23/02</u>			
11.	FRANK MURIN	PCO	mellen)	7/27/03	2		
_	Mike Buyle	Unit Supervisor	Mouse	7/27/0	2 0		
13.	CJTYNER	INSTRUCTOR	MA	<u> 2 30 07</u>		8/22/02	
14.	Melody Wasich	Molodo Masichadmio	Mesony Wasich	_ 8/8/22	Milly Maril	8/22/0	2
15.	Samuel L. Hansell	Sand Sale	School	8/13/0	2		
_		NRC Resident Inspector			•		

NOTES:

ES-201

Examination Security Agreement

Form ES-201-3 (R8, S1)

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>08/12/02</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

AUGIDADA, AUGIGADODA

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 BARC. 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.	Julian H. Williams	WO Park hima Employee / EXAM Pev	ind Julian H. Williams	2/19/02	V
	ROBERT M PEAL	ASST OPS MER - SSES	Knfl	8/13/02	
. 2 3.	Jeffrey M. Helsel	Supr-ORS THETR.	- Mitelself	8/14/02 Jn Delse	8/27/02 1
5.	VICICY A. HOKVAT	WHITE ADMIN SUPPORT	a Lewis O. Thomas	Tucky O Herri	dostalas
6.					D 01 007 47
7.					
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10					
11.					
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13. 14.	· · · · · · · · · · · · · · · · · · ·				-
15.			7		

NOTES: SSES NRC Exam

Form ES-201-3 (R8, S1)

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <u>08/12/2002</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 3/12 3/19 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. Bruce A. Hennigan	Project Manager/Developer(WD)	SM	1/17/02		1
	2. Jeffery D. Morris	Facility Supervisor (SSES)	DROWWOW/0 4	1/17/02		
	3. Terry W. Loasdon	Exam Writer WD	Tarvell Torondor V	1/29/02	Torry Wittonsolon	8/23/02
	4. WALTER WITHURT	TRN MAR / UTILITY RER	Walter IX	2/12/02	The contraction of the contracti	8/22/02
	5. CHUCK HESS	REPORT SIM INST	6-0-1	7/19/02	(ach A to	dirbi
#0/0	6. ICOV Diefferbas	Ler Computer Maint	Scald rolling	_3/-4/2/3	02 Xeat Nielalox	L~8/2362
Ó 15	7. DON Krupp	Computer Maint	Jan Jank	14/2/03	Son Links	8/22/02
-	8. Grey Fessler	Cop-extecutation.	Dres Dosle	TANDO	Dry Kerley	الالالالا
009	9. Cleon Dodge	Contruler Son Goolea	2 Wine Klider	4216	1	
124	10. DARVIN DUTTRY	REACTON OPERATOR	7. 1. 0. 1.	<u> 5/15/0</u>	2 DADA	8/22/0R
019	11. Thomas P. Greet	REACHOT GOSAtos	Thomas to soe	5-13-02	James Go Olec	8-22-92
• •	12. Donald E. Roland	Shift Supervisor	DERoland A's	5-13.02	DERoland	8-26-02
003	13. Jenzy Radish . fx.	Oppositions Supu.	canthochalfer	213.00	- Ming (mobilety	9.72. or
016	14. Ronald Klein	Unit Lupy,	W. Klein	5-30-02		82202
004	15. Gerald K. Rinehart Jr	ρ(0	Mart	5-30-02	juddenity	8-72-02
	_					

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 08/12/2002 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 8/12 8/19. 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. Jeanne Kitlett	Office Manager	leaning Kattel t	214.02		
#27 2. DAVID S. BORGER	UNIT SUPERVISOR	Warit D. Bover	5.31.02	1 Javel S. ROUS IC	8-26-2002
3. STEPHED L. HUFF	PLADE CONTROL OPERATION	Stephen & Hull	5-31-02	There was I'm	\$ 8/22/02
4. Sand of M. FRY	Agriald by Len Unit Sugarge	Sould 14 Ful	6-4-02	Kould 14 test	8.22.02
5. FAULE HOTHNECK	102ANT Contro lovern	on I The tot formull	6/4/02		-
6. Rich E. CHIN	Audit Exam TEHM	Rah E. Chi	6-10-03	Rich E. Chia	8-21-02
7. Mariet. They	Admin Support	Convert Frey	6-1202	Vanci Frey	8-26-02
8. SAMUEL M. COYEN	EXAM SUPPORT	Some motor	6-18-02	Some Mal	8-23-02
9. Frank Tanzell	3in Instructor	Dan Torrida	7-17-12		
10. Grant Fernsler	Shift MANAger	Drant Jewsky In	7/23/02	thant & Sleusler	8/27/02
11. FEDUL MURIN	<u>700</u>	mellen 1	7/27/02	ma	8/27/02
12. Mike Boyle	Unit Supervisor	Morge	7/27/12	Mark	8/27/02
13. CJ 14/160	TUSKULTOC	MA	2/30lo2		8/22/02
14. Melody Masich	Molody Masselldmi	Mesony Mase L	8/8/02	Mishely Maril	8/22/02
15. Sandel L. Hansell	Sand 3 X	School.	8/13/02	Nolla	8/27/2002
	NRC Resident Inspector	•		0	
NOTES:	,				

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_		-2.	

Examination Security Agreement

Form ES-201-3 (R8, S1)

Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of __08/12/02 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

AUG 12, 2002, AUG 19, 2002

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 8/46 Ec. 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.

3. Jeffrey M. Helsel Sun-ors TheTR. Mittelself 8/27/		PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE SIGNATURE	(2) DATE NOTE
2. Robert m rene Asst crs mare 15565 3. Jeffrey M. Helsel Supy-003 Thate. Supy-003 Thate.		1. Julian H. Williams	WO Part hime Employee / EXAM Per	ind Online H. Williams	2/19/02	- 1
5. JICICY A. HOKVAT STUDIE AD MIN SUPPORT CHANGE TO STUDIE ON AND AND AND AND AND AND AND AND AND AN			ASST OPS MER - ISSES			9/3/02
6.	1/2 1	3. Jettrey M. Helsel	. ,	miteliel D	8/14/02 Clypn de	liely 8/27/02
6.	المرايع	5. VICICY A. HORVAT	Lucia ADMIN SUPPORT	Challe a Hount		I Amed or helas
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NOTES: SSES NRC Exam

09/03/2002

89:39

1-717-456-9109

Pre-Examination

acknowledge that I have acquired specialized knowledge about the NRC licensing examinations acheduled for the week(s) of _56/12/02 the date of my signature. I egree that I will not knowingly divulge any information about these exeminations 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 concellation 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 succestions that exemination security may have been compromised.

Post Sampled of the set divide to any underly less any information concerning the little according examinations afterward any agreement until the completion of examination administration; I did not instruct, evaluate, or provide performance fisciliarly to those applicants who were administrated three Economy examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE SIGNATURE (2)	DATE NOTE
	1. Julian H. Williams	NO Rolling Employed from Rom ASST OFS MER - SSES	ins John H. William	2/19/02 Julian A Williams	
وايدا دايدا	3. Jeffer M. Helsel	Share of Share	Amthebal DA	Silver Algor Gelsey	8/27/02
6 7	6. VICTO A. HOCURT	Starts BOHIN SUPPORT	Stanja Stand	28 S Mily)	Ed or puter
	7.			7	
	9.				
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	13 14				
	15	-	4 *************************************		-

05:45 골

AUG-27-2002

ASSOCIATES,

ES-

NOTES:

		Examination		Accounting
	and the second of the second o	PASIMINSTICE	1 245CH114	SOMI ACITICAL.
204		T Withlasson or and		
201 ·				

Form ES-201-3 (R8, S1)

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 68/12/2002 as a lacknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 68/12/2002 as of the date of my signature. I agree that I will not knowledge 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 ilcensing 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 examination administered during the week(s) of 8/12. 8/14 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 administrated these licensing examinations, except as specifically noted below and authorized by the NRC.

	examinations, excell as abo	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE SIGNATURE (2)	DATE NOTE
	PRINTED NAME	308 Hire Hear One Printer	1	2140: Jeanine Ketter	P 8-78-02
-	1. Jewine Kitlett	Citia Manager	Janus Bettelt	5.9 02 M 2015 KAN	
412	2. David S. Boures	UNIT SHEETWARE	May by byogether	5-51-2	1 8/28/02
	3. Trepum L. House	Punt Souther Opening		4402 Rivelled Int	P.W.02
	4. Louslo H. Ley	Sould If far fact receive	an 1 2 the most		
	5. PAULE HOTHNELL	Area Service States	TVV CAB CAR CAR	Land Kack C Line	2.71.02
. • .	6 Rich E. CHIN	France Signal	ANTINE SECTION	Contraction of the	11112-
	1 Mail L. Mill				
				1/23/02 New York	TENEL
	10 Gran Penter	Sh. FT MANAger	Manual Charmala	1/3/6: Com	8/27/02
	11. PERUL MURIN	300	200	TITLE Mayer	8/22/0
	12 Mike Buyle	Unit Supervisor	Mayor	23047 (80)	8/22/02
•	13 CV INIER	The sulme	Jemsey Mess &	8/8/02 M. Asta Maris	8122102
• •	14. Melody Masich	Marky Magree Ville	Loan.	1/13/cz	8/27/2002
٠,	15. Samuel L. Honsell	NAC Resident Inspects			

S-201

Examination Security Agreement

Form ES-201-3 (R8, S1)

1. Pre-Examination

i acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of <u>09/12/2002</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 ticensing 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 2/12 //// 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. Bruce A. Hennigan	Project Manager/Developer(WD)	BM2	dirloz	B111_	8/28/021
	2. Jeffery D. Morris	Facility Supervisor (SSES)	THE POWER OF THE PARTY OF THE P	1/17/02		· — —
	3. Terry W. Lagsdan	Fram Writer WD	Visibility London	_1/39/02.	Total (1) Kervery	The second second
	4. LIACTEL WILLIAM	TRN MER JUTILITY REP	Walt all IV	-4140t		180 red 0 %
	5. CHICK HESS	Reaman Sim Inst	64-1	40/02	A Plant	_XW0.1
0/0	6. Scall Dieffeabor	Lor Computer Majort	XCALL BULL	3 4/4	OZ Stall Million	
015	7. DON Koven	Computer Maint	TOPO MANAGE		- Company	1/3/02
(V) &	1. Gran Coller	Constant and the second		THE RESERVE AND ADDRESS OF THE PARTY.	May Redding	777-
0.04	9. 10 25 25 25 25 25		J. Charles St. Committee of the Committe		1- 101	
52.4	10 Declar 201124	The Control				glese.
019	11. Tours to Cores	Reacher Gossator	The said to see		THE RESERVE AND ASSESSMENT OF THE PERSON NAMED IN COLUMN TWO PARTY OF THE PERSON NAMED	0 H 92
	12 Donald E. Roland	Shift Supervisor	BEKOGAN P. 17		Milder 7/)	8-24-02
003	13. Jeany Radio 4 sta.	Operations of speci	consolid askuliffer		- fary (mediffy	822.02
016		Unit Lupy	GP W. Klen		July V. Relein	
. 1064	15. Gedald K. Rivehant M.	<u> </u>	Agranta	<u> </u>	in Wenty	8-71-62

MOTES

Examination Security Agreement

Form ES-201-3 (R8

nowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 18/12/200 date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those cants acheduled to be administered these licensing examinations from this date until completion of examination administration, exc lfically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as mented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancell e examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or

chief examiner any indications or suggestions that examination security may have been compromised.

he best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations inistered during the week(s) of 8/12/8:14 From the date that I entered into this security agreement until the completion of examina inistration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing minations, except as specifically noted balow and authorized by the NRC.

minations, except as spe	chically noted balon and admini-		DATE	SIGNATURE (2)	DATE
PRINTED NAME	JOB TITLE ! RESPONSIBILITY	SIGNATURE (1)	214.02		
Jeanne K.Helt	Office Manager	same Kaltilit	5.9.02	1 Kirl 5 501	8-26 8/22/2
MANIE S. DORGE	DOOR SUPPLIED OPPRIEDD	Market Hall	5-31-0		Pull
STEPHEN HUSE	The HILL I WILL DECAME		(6/40)	20145 4 TY	8 /2 8 - 20x - 6
PAULE HOTHOUTEL	Audi Exam Tray	The E. Com	C10-0	Jugue John	w 1.266
Rich E. CHIN	Admin Support	Typus of They	6.11-1	2 March 4 Cal	8230
SAMUEL M. 19400	Bam supplet	Des Torrett	7/23/		8/27/0
Grant Forms ler	Shift Manager	7 della		2 Mary	8/20/42
Mike Buyle	Unit Supervisor	Maria		07 Water Mary	- 3 /2
CT INDER	- The wine	Med Mon	3 8/8/3 8/134		2
Melody Masich					
	NRC Resident Inspects	•			

DTES:

Facility:	Date of Examination: Operation	ing 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).	G.W	mak	49
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	am	WAL	%
C.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	orul	wA	8
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	BU	CARE	
e.	It appears that the operating test will differentiate between competent and less-than- competent applicants at the designated license level.	orkl	wwk	4
	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 The prescripted questions in Category A are predominantly open reference and meet the	au	lasta.	₩
c. •	criteria in Attachment 1 of ES-301. Repetition from operating tests used during the previous licensing examination is within	BH	w.	As
. •	acceptable limits (30% for the walk-through) and do not compromise test integrity.	aM	15mil	R
d. *	At least 20 percent of the JPMs on each test are new or significantly modified.		•	7
	3. SIMULATOR (CATEGORY C) CRITERIA			
а.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	BM	MAR	M.
	Printed Name / Signature	_	Date	
a. Autho	11 21 21 21	1/02		. 4
		<u>-</u> +	13/0	<u>~</u>
	Supervisor for L. Conte / JOHN CARUSO July lune 8/-	102	<u>-</u>	

Facility:	SSES Date of Exam: 8/12/02 Scenario Num	/4 nbers:	/5 erating	Test l	No.:		
	QUALITATIVE ATTRIBUTES		Initi	als			
1.	The initial conditions are realistic, in that some equipment and/or instruction out of service, but it does not due the operators into expected events.	umentation may be	314	YWH	₩		
2.	The scenarios consist mostly of related events.		and	WK	80		
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)		σИ	wat	\$		
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorpor scenario without a credible preceding incident such as a seismic even		СМ	WAR	RO		
5.	The events are valid with regard to physics and thermodynamics.		BH	MAK	*		
6.	Sequencing and timing of events is reasonable, and allows the examin obtain complete evaluation results commensurate with the scenario of		BU	MA	R		
7.	If time compression techniques are used, the scenario summary clearly Operators have sufficient time to carry out expected activities without constraints. Cues are given.		OzU	MAR	**		
8.	The simulator modeling is not altered.		all	WAR	(
9.	The scenarios have been validated. Any open simulator performance of been evaluated to ensure that functional fidelity is maintained while ruscenarios.	leficiencies have nning the planned	ви	MAR	%		
10.	Every operator will be evaluated using at least one new or significantly All other scenarios have been altered in accordance with Section D.4		614	WK	K		
11.	All individual operator competencies can be evaluated, as verified usin (submit the form along with the simulator scenarios).	g Form ES-301-6	вН	ME			
12.	Each applicant will be significantly involved in the minimum number of events specified on Form ES-301-5 (submit the form with the simulator		aШ	udk			
13.	The level of difficulty is appropriate to support licensing decisions for	each crew position.	au	MAK	%		
TARGET	QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)	Actual Attributes					
1.	Total malfunctions (5-8)	8/91616/5	all	MA	X		
2.	214.2.210						
3.	m12.2.212						
4.							
5.	EOPs entered/requiring substantive actions (1-2)	2/2/2/2/3	orll	MAK	8		
6.	EOP contingencies requiring substantive actions (0-2)	0/2/2/1/1	ad	WA	8		
7.	Critical tasks (2-3)	315141212	au	THU!	V		

Applicant	Evolution	Minimum	Scenario Number			•
Туре	Туре	Number	1	2	4	
	Reactivity	1				
	Normal	1				
RO	Instrument / Component	4				
	Major	1				

	Reactivity	1			4	
	Normal	0		1		
As RO	Instrument /	2		5,7	3,5,	
	Component			9,10	7	
	Major	1		6	6	
SRO-I						
	Reactivity	0				
	Normal	1	1			
4 000	Instrument /	2	2,3			
As SRO	Component		4,5	1		j
			8,10			
	Major	1	9			

SRO-U	Reactivity	0		
SPOU	Normal	1		
3KO-0	Instrument / Component	2		
	Major	1		

Instructions: (1)

Enter the operating test number and Form ES-D-1 event numbers for each evolution type.
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.
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 requirement. (2)

Author:	Richard	ℓ \mathcal{E} .	Ohi	
NRC Reviewer:	Wir			

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

	Reactivity	1	6		
	Normal	0			1
As RO	Instrument /	2	4,5,3		4,5
	Component				7,8
	Major	1	9	,	6
SRO-I			- -		· · · · · · · · · · · · · · · · · · ·
	Reactivity	0		2	
	Normal	1		1	
	Instrument /	2		3,4,5,	
As SRO	Component			7,8	
				9,10	
	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.
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.
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 mannaum requirement. (2)

Author:	Kickey E.	Chi
NRC Reviewer:	- AR	

Applicant	Evolution	Minimum	Scenario Number			•
Туре	Туре	Number	1	3	4	
•	Reactivity	1				
	Normal	1				
RO	Instrument / Component	4				
	Major	1				

	Reactivity	1	6		4	
	Normal	0			1	
As RO	Instrument /	2	4,5,3		₿,\$	
	Component				7,2,8	
	Major	1	9		6	
SRO-I			,	·	,	
	Reactivity	0		2		
	Normal	1		1		
	Instrument /	2		3,4		
As SRO	Component			5,7		
				8		
	Major	1		6		

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

Instructions: (1)

(2)

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

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.

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 requirement. minimum requirement.

Author:	Richard & Ohi	
NRC Reviewer:	WIR.	

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

	Reactivity	1	8		2	
	Normal	0			X	
As RO	Instrument / Component	2	1,8,2 3,7.8,10		#,5,3 7,8	· · · · · · · ·
	Major	1	9		6	
SRO-I						
	Reactivity	0		2		
	Normal	1		1		
As SRO	Instrument / Component	2		3,4,5 7,8 9,10		
	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.
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.
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 (2)

provide insight to the applicant's competence count toward the minimum requirement.

Author:	Kichard	€.	1 ki	
NRC Reviewer:	Ch. (BS)			
1110 110 110 110 110 110 110 110 110 11				

Applicant	Evolution	Minimum	Scenario Number		
Туре	Туре	Number	1	2	
RO	Reactivity	1	6		
	Normal	1		1	
	Instrument / Component	4	2,3 4,5	5,7 9,10	
	Major	1	9	6	

	Reactivity	1			
	Normal	0			
As RO	Instrument /	2			
	Component				
	Major	1			 <u> </u>
SRO-I			•	,	
	Reactivity	0			
	Normal	1			
As SRO	Instrument / Component	2			
	Major	1			

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.

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.

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 requirement. (2) minimum requirement.

NRC Reviewer:	Author:	Richard E. Ohi	
		a Del Des	_

Applicant	Evolution	Minimum	Scen	ario Number	
Туре	Туре	Number	1	2	
RO	Reactivity	1		2	
	Normal	1	1		
	Instrument / Component	4	2,3 8,10	3,4 5	
	Major	1	9	6	

	Reactivity	1
	Normal	0
As RO	Instrument /	2
	Component	
	Major	1
SRO-I		
	Reactivity	0
	Normal	1
As SRO	Instrument / Component	2
	Major	1

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.

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.

Whenever practical, both instrument and component malfunctions should be included; only those that require verificable actions that (2) should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirement.

Author:	Rinhad) હાં.	& li	
NRC Reviewer:	The state of the s			
11210 11011011011				

OPERATING TEST NO.: RO #3 ._

Applicant	Evolution	Minimum	Scen	ario Number
Туре	Туре	Number	1	2
RO	Reactivity	1		2
	Normal	1	1	
	Instrument / Component	4	2,3 8,10	3,4 5
	Major	1	9	6

	Reactivity	1			
	Normal	0			
As RO	Instrument / Component	2			
	Major	1			
SRO-I			 	,	*****
	Reactivity	0			
	Normal	1			
As SRO	Instrument / Component	2			
	Major	1			

	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.

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.

Whenever practical, both instrument and component malfunctions that the included only those that require verifiable actions that (2)

should be included; only those that require verifiable actions in
provide insight to the applicant's competence count toward the
minimum requirement.

Author:	K.	chara	<u>C </u>	Chi	
	- Heri				
NRC Reviewer:	unj				-

Applicant	Evolution	Minimum	Scenari	o Number
Туре	Туре	Number	1	
RO	Reactivity	1		
	Normal	1		
	Instrument / Component	4		
	Major	1		

	Reactivity	1
	Normal	0
As RO	Instrument /	2
	Component	
	Major	1
SRO-I		
	Reactivity	0
	Normal	1
As SRO	Instrument /	2
	Component	
	Major	1

	Reactivity	0		
	Normal	1	1	
SRO-U	Instrument / Component	2	2,3 4,5 8,10	
	Major	1	9	

Instructions: (1)

(2)

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

Author:	

NRC Reviewer:

Page 1 & 3

	A Committee of the statute	E CC 201 C
ES-301	Competencies Checklist	Form ES-301-6
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Competencies	RO	Applicant #1 RO(SRO-VSRO-U SCENARIO				Applicant #2 ROASRO-ISRO-U SCENARIO				Applicant #3 RO/SRO-USRO-U SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	
Understand and Interpret Annunciators and Alarms	2,3, 4,7	378		56	37	3-6 10	3		37		3-5		
Diagnose Events and Conditions	24,	7-10			3-5	3-5 10	45 78		3-5		3-4	2,3 7.8	
Understand Plant and System Response	47,	3 7-10		m15.9	3,4	3-6 8-10	4-0		3,4 7		m56	367	
Comply With and Use Procedures (1).	2,6	3,00		46	3 5-7	2 46	1,4 5,8		3 5-7		24-6	137	
Operate Control Boards (2)	NA	M70		46	6,7	MA	5-8		6,7		MA	6-8	
Communicate and Interact With the Crew	7,447	3 6-10		4-6	3-7	1-6	4-8		3-7		2-6	6-0	
Demonstrate Supervisory Ability (3)	3-7 9	N/A		N/A	N/A	35 6,7	N/A		MA		23 5,6	1 / / / / /	
Comply With and Use Tech. Specs. (3)	2	N/A		Y/A	N/A	4,5	N/A		NA		4	MA	

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:

Chief Examiner:

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NUREG-1021, Revision 8

Page 2 8 3

	Ol valeties	Form ES-301-6
EC 201	Competencies Checklist	FUILII EG-50 1-0
ES-301	Competension	

	RO	Applicant ##4 ROSRO-USRO-U			Applicant #25 ROSRO-I/SRO-U			Applicant #3/6/ RO/SRO-I/SRO-U				
Competencies		SCEN	IARIO)		SCEN	IARI	0		SCEN	IARI	0
	1_	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	278	3-6 10	457		3 7	3,7 8,10			27 8	2-6 8		
Diagnose Events and Conditions	2,7 8,10					7~10			2,7 8,10	3-6		
Understand Plant and System Response	1,28	3,6	4-0		347	3 7-10			7,8			
Comply With and Use Procedures (1)	1,2	2	1,4 5,8		3 5-7	3,7			7-9	2-4		
Operate Control Boards (2)		N/F	5-8		6,7	1.7.			810	2,4		
Communicate and Interact With the Crew	210	1-6	4-8		37	3 6-K			7-11	2-6		
Demonstrate Supervisory Ability (3)	N/A	35	N/A		N/A	NA			MA	N/A		
Comply With and Use Tech. Specs. (3)	NA	45	NA		NA	N/A			MA	MA		

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.

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		F FD 444 6
ES-301	Competencies Checklist	Form ES-301-6
L3-301	00(1)50(0)10(0)	

Competencies	Applicant #27 ROSRO-I/SRO-U SCENARIO			Applicant #2/8 RO/SRO-I/SRO-U SCENARIO				Applicant #3 RO/SRO-I/SRO-U SCENARIO				
	1_	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	278	2-6 8			2,3					,		
Diagnose Events and Conditions	2,7				2,4						-	
Understand Plant and System Response	1,7,18	2-6			4,7							
Comply With and Use Procedures (1)	1,2 7-9	24			2,6 7,9							
Operate Control Boards (2)	1,7	2,4			N/A							
Communicate and Interact With the Crew	7-10	2-6			2-46,7							
Demonstrate Supervisory Ability (3)	N/A	N/A			3-7 9							
Comply With and Use Tech. Specs. (3)	MA	MA			2							

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.

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Facility	Date of Exam: Exam Leve	el: RO	SRO			
			Initial			
	Item Description	а	b*	c#		
1.	Questions and answers technically accurate and applicable to facility	8	ut	3/		
2.	a. NRC K/As referenced for all questionsb. Facility learning objectives referenced as available	\mathcal{B}	with	SQ.		
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	ଷ	WAS	Ø		
4.	Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process		1	80		
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: X the audit exam was systematically and randomly developed; or the audit exam was completed before the license exam was started; or the examinations were developed independently; or the licensee certifies that there is no duplication; or other (explain)					
6.	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 distribution at right Bank Modified New Ro SRO RO SRO LO SRO	D	WA	8		
7.	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 Ro SRO 47 45 53 55	8	MAD	B		
8.	References/handouts provided do not give away answers	Ø	MA	8		
9.	Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the Tier to which they are assigned; deviations are justified	B	MA	80		
10.	Question psychometric quality and format meet ES, Appendix B, guidelines	\mathcal{B}	wast	8		
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	B	WAT	Ø		
c. NRC	Regional Supervisor for Love Jak Cares of The facility reviewer's initials/signature are not applicable for NRC-develope	_	6/20, 71 8/-	20/02 102 102		

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	Date of Figure									
Facility	y: Date of Exam:	Exam Level: RO/SRO								
			,							
	Item Description	а	b	С						
1.	Answer key changes and question deletions justified and documented	REL	8	*						
2.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	REC		₽						
3.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	N/A Rec	~ }	NA F						
4.	All other failing examinations checked to ensure that grades are justified	N/A REC	~A	NA A						
5.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	Rec	K	B						
	Printed Name / Signature		D	ate						
a. Grader Richard E. CHINRICH E. Chy 8-23-0 b. Facility Reviewer(*) CHANGE HANGE MANGED # 8/22/32										
d. NRC Supervisor (*) Richard V. Conte Buchan J. Conto 9/11/02										
(*)	(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.									