

Administrative Documents

**ROBINSON AUG/SEPT 2004
EXAM NO. 05000261/2004-301**

AUG. 27 - SEPT. 3, 2004

1. Exam Preparation Checklist ES-201-1 ✓
2. Exam Outline Quality Checklist *D.F.* ES-201-2 ✓
3. Exam Security Agreement ES-201-3 ✓
4. Administrative Topics Outline (Final) ES-301-1 ✓
5. Control Room Systems and Facility Walk-through Test Outline
(Final) ES-301-2 ✓
6. Operating Test Quality Check Sheet *D.F.* ES-301-3 ✓
7. Simulator Scenario Quality Check Sheet *D.F.* ES-301-4 ✓
8. Transient and Event Checklist *D.F.* ES-301-5 ✓
9. Competencies Checklist *D.F.* ES-301-6 ✓
10. Written Exam Quality Check Sheet *D.F.* ES-401-6 ✓
11. Written Exam Review Worksheet ES-401-9 ✓
12. Written Exam Grading Quality Checklist ES-403-1 ✓
13. Post-Exam Check Sheet ES-501-1 ✓
14. *FACILITY LETTER DTD 6-11-2004*

Facility: <u>H. B. Robinson</u>		Date of Examination: <u>8/27 - 9/10/2004</u>
Examinations Developed by: <u>Facility</u> / 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)	rfa
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	rfa
-120	3. Facility contact briefed on security & other requirements (C.2.c)	rfa
-120	4. Corporate notification letter sent (C.2.d)	exl
[-90]	[5. Reference material due (C.1.e; C.3.c)]	rfa
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	rfa
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	rfa
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	rfa
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	rfa
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	rfa
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	rfa
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	rfa
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	rfa
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	rfa
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	rfa
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	rfa
<p>* 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.</p> <p>[] Applies only to examinations prepared by the NRC.</p>		

DRAFT

Facility: Robinson		Date of Examination: 8/30/2004		
Item	Task Description	Initials		
		a	b*	c#
W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	JGA	Jh	f
	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.	JGA	Jh	v
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	JGA	Jh	v
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	JGA	Jh	○
S I M	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.	JGA	Jh	v
	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 on subsequent days.	JGA	Jh	v
	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.	JGA	Jh	v
W / T	a. Verify that: <ul style="list-style-type: none"> (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. 	JGA	Jh	
	b. Verify that: <ul style="list-style-type: none"> (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) 4 - 6 (2-3 for SRO-U) 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. 	JGA	Jh	
	c. Verify that the required administrative topics are covered.	JGA	Jh	v
	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 subsequent days.	JGA	Jh	v
G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	JGA	Jh	v
	b. Assess whether the 10CFR 55.41/43 and 55.45 sampling is appropriate.	JGA	Jh	v
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	JGA	Jh	v
	d. Check for duplication and overlap among exam sections.	JGA	Jh	v
	e. Check the entire exam for balance of coverage.	JGA	Jh	v
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	JGA	Jh	v
a. Author	Joseph G. Arsenault	Printed Name / Signature		Date
b. Facility Reviewer (*)	Michel C. Melin	[Signature]		5/26/04
c. NRC Chief Examiner (#)	R. A. Bello	[Signature]		6/2/04
d. NRC Supervisor	Col. Hopper	[Signature]		6/7/04

NOTE: * Not applicable for NRC-developed examinations.
Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.

Facility:		Robinson		Date of Examination:		8/30/2004	
Item	Task Description	Initials					
		a	b*	c#			
W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	JGA	JGA	0			
	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.	JGA	JGA	0			
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	JGA	JGA	0			
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	JGA	JGA	0			
S I M	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.	JGA	JGA	0			
	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 on subsequent days.	JGA	JGA	0			
	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.	JGA	JGA	0			
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.	JGA	JGA	0			
	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) 4 – 6 (2-3 for SRO-U) 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.	JGA	JGA	0			
	c. Verify that the required administrative topics are covered.	JGA	JGA	0			
	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 subsequent days.	JGA	JGA	0			
	e. Verify that the required administrative topics are covered.	JGA	JGA	0			
G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	JGA	JGA	0			
	b. Assess whether the 10CFR 55.41/43 and 55.45 sampling is appropriate.	JGA	JGA	0			
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	JGA	JGA	0			
	d. Check for duplication and overlap among exam sections.	JGA	JGA	0			
	e. Check the entire exam for balance of coverage.	JGA	JGA	0			
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	JGA	JGA	0			
a. Author	Joseph G. Arsenault	Joseph G. Arsenault		Date	6/21/04		
b. Facility Reviewer (*)	Michael C. Mabee	MICHAEL C. MABEE		Date	6/28/04		
c. NRC Chief Examiner (#)	R. F. Aiello	R. F. Aiello		Date	7/1/04		
d. NRC Supervisor	G. T. Hopper	G. T. Hopper		Date	7/1/04		

NOTE: * Not applicable for NRC-developed examinations.
Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.

09/28/2004 TUE 14:42 FAX 843 857 1888

002 P.2 P.1 P.1 (623) 535-1307 (623) 535-1307 (623) 535-1307 (623) 535-1307

ROBINSON TRAINING Joe Arsenault Jacqueline Schelkly Joe Arsenault

Robinson

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

8/27/04 WRITTEN 8/30/04

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/27-8/30 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 8/27-8/30. 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. JOSEPH ARSENAULT	AUTHOR DEVELOPER	[Signature]	2/2/04	[Signature]	9/3/04
2. Jacqueline Schelkly	ADMIN ASSISTANT	[Signature]	2/16/04	[Signature]	9/13/04
3. Michael Milbas	HBR lead OPS INSTR	[Signature]	2/16/04	[Signature]	9/13/04
4. Clark Fletcher	HBR / Instructor	[Signature]	4/5/04	[Signature]	9/13/04
5. Art Musselwhite	HBR TRAINING	[Signature]	5/16/04	[Signature]	9/13/04
6. Bill Southworth	HBR TRAINING	[Signature]	5/11/04	[Signature]	9/13/04
7. SAFFED KHALFAY	HBR TRAINING	[Signature]	5/11/04	[Signature]	9/13/04
8. JOSEPH P TODD	UNIT #2 OPERATIONS	[Signature]	5/21/04	[Signature]	9/13/04
9. Jimmy McKnight	UNIT #2 OPS	[Signature]	5/21/04	[Signature]	9/13/04
10. Sandra Brown	UNIT #2 OPS	[Signature]	6/19/04	[Signature]	9/13/04
11. BRYAN C. WALKER	UNIT #2 OPS	[Signature]	07-07-04	[Signature]	09-08-04
12. GREGG W. WOODLUM	TRAINING HBR	[Signature]	7/7/04	[Signature]	9/13/04
13. PARRYL FOSTER	UNIT 2 OPS / ASD	[Signature]	8/14/04	[Signature]	9/13/04
14. KURT KRUGER	UNIT SUPERVISOR	[Signature]	8/27/04	[Signature]	9/13/04
15. JAMES M. MOON	OPS SUPERVISOR	[Signature]	8-30-04	[Signature]	9-2-04

NOTES:

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination *H. B. Robinson*

4/27 - 4/27/04

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of *8/30/04* 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 *8/27-30/04*. 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.	<i>James K. Lloyd</i>	<i>Exam Preparation</i>	<i>James K. Lloyd</i>	<i>2/23/04</i>			
2.	<i>John W. Patterson</i>	<i>RNP Instructor</i>	<i>John W. Patterson</i>	<i>8/30/04</i>	<i>John W. Patterson</i>	<i>9/2/04</i>	
3.	<i>Richard O. Moore</i>	<i>RNP Instructor</i>	<i>Richard O. Moore</i>	<i>8/30/04</i>	<i>Richard O. Moore</i>	<i>9/2/04</i>	
4.	<i>Randy C. ZVEY</i>	<i>OPS MGR</i>	<i>Randy C. Zvey</i>	<i>8/30/04</i>	<i>Randy C. Zvey</i>	<i>9/1/04</i>	
5.	<i>William D. L.</i>	<i>DSO</i>	<i>William D. L.</i>	<i>8/30/04</i>	<i>William D. L.</i>	<i>9/1/04</i>	
6.	<i>Don Stoddard</i>	<i>Don Stoddard</i>	<i>Don Stoddard</i>	<i>8/30/04</i>	<i>Don Stoddard</i>	<i>9/2/04</i>	
7.	<i>Rick Stebbins</i>	<i>RNP INSTRUCTOR</i>	<i>Rick Stebbins</i>	<i>8/31/04</i>	<i>Rick Stebbins</i>	<i>9/2/04</i>	
8.	<i>Randy C. Zvey</i>	<i>OPS MGR</i>	<i>Randy C. Zvey</i>	<i>9/2/04</i>			<i>11/1 9/3/04</i>
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NOTES:

Mar 16 04 07:58a

Joe Arsenault

(623) 535-1307

P.2

Feb 16 04 11:30a

Jacqueline Schelkly

860-739-9475

P.1

Feb 15 04 06:53a

Joe Arsenault

(623) 535-1307

P.1

Robinson

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

8/27/04 written
8/30/04

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/30/04 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 these 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 . 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 these 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. JOSEPH ARSENAULT	Public Developer	[Signature]	8/30/04	[Signature]	9/3/04	
2. Jacqueline Schelkly	Admin Assistant	[Signature]	8/30/04	[Signature]	9/2/04	
3. Michael M. Tibbe	ISR Lead/OPS	[Signature]	8/30/04	[Signature]	9/2/04	
4. Clark Fletcher	ISR / Inspector	[Signature]	8/30/04	[Signature]	9/2/04	
5. Art Musselwhite	ISR TRAINING	[Signature]	8/30/04	[Signature]	9/2/04	
6. Bill Southworth	ISR TRAINING	[Signature]	8/30/04	[Signature]	9/2/04	
7. SAIED KHALFAY	ISR TRAINING	[Signature]	8/30/04	[Signature]	9/2/04	
8. JERRY T. TOSI	ISR TRAINING	[Signature]	8/30/04	[Signature]	9/2/04	
9. JIMMY MCKURT	UNIT #2 OPS	[Signature]	8/30/04	[Signature]	9/2/04	
10. Sandra Brown	ISR TRAINING	[Signature]	8/30/04	[Signature]	9/2/04	
11. BARRY C. NICHOLSON	U-2 OPS	[Signature]	8/30/04	[Signature]	9/2/04	
12. GREGG W. LUDLAM	TRAINING MGR	[Signature]	8/30/04	[Signature]	9/2/04	
13. CHARLIE FOSTER	unit 2 OPS	[Signature]	8/30/04	[Signature]	9/2/04	
14. KURT KRUGER	OPS SUPERVISOR	[Signature]	8/30/04	[Signature]	9/2/04	
15. JAMES McMAHON	OPS SUPERVISOR	[Signature]	8-30-04	[Signature]	9-2-04	

NOTES:

1. Pre-Examination *H. B. Robinson*

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of *8/30/04* 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 *8/30/04*. 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.	<i>James K. Lloyd</i>	<i>Exam Preparation</i>	<i>James K Lloyd</i>	<i>2/23/04</i>	<i>James K Lloyd</i>	<i>9/3/04</i>	
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Sep 03 04 07:00a
ROBINSON TRAINING
856-339-4008
James Lloyd
P. 1
005

Robinson NRC Written Examination Agreement

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/27/04 - 9/3/04 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 8/27/04 - 9/3/04. 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.	John L. Carney	Supervisor - ^{Control Room} IT/Plant	<i>[Signature]</i>	7/6/04			
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FAX NO. 19193623446

ROBINSON TRAINING

09/28/2004 TUE 14:45 FAX 843 857 1888

JUL-06-2004 TUE 05:03 PM E&EC

Harris NRC SRO Written Exam Agreement

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/27/04 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 and 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 _____. 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.	Michael C. Milbee	LEAD OPS INSTRUCTOR	<i>[Signature]</i>	7/27/04	<i>[Signature]</i>	9/7/04
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NOTES:

SIGNING ON TO PROTECT SECURITY FOR
HARRIS SRO EXAM TAKING
SRO ONLY EXAM W/SAME OUTLINE
AS ROBINSON EXAM

Robinson NRC Written Examination Agreement

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/27/04 - 9/3/04 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

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. John L. Carney	Supervisor - Control Room	<i>[Signature]</i>	7/14/04	John L. Carney	9-7-04
2. Duane D. McVede	Simulation Support	<i>[Signature]</i>	7/27/04		
3. Kevin T. Abell	USCO / OPS-WCC	<i>[Signature]</i>	7-8-04		
4. Curt Robert	BNP OPS TANG INSTRUCTOR	<i>[Signature]</i>	7/12/04	Curt Robert	9-9-04
5. Tim ENGLISH	HND - SW	<i>[Signature]</i>	7/12/04		
6. Teresa Middleton	Data Management Asst I	<i>[Signature]</i>	7/12/04	Teresa Middleton	7/1/04
7. Rod Wheeler	SCO - B Shift	<i>[Signature]</i>	7/12/04		
8. James O'Keefe	SRO - B-Shift	<i>[Signature]</i>	7-12-04		
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NOTES:

ROBINSON TRAINING

09/28/2004 THU 14:46 FAX 843 857 1888

08/08/04 THU 11:07 FAX 4006

SEP-09-2004 THU 11:03 AM EREC

CP&L BNP EOF 1

FAX NO. 19193623446

843 857 1888

ATTN. MIKE MILBEE

008

001

P. 01

Robinson NRC Written Examination Agreement

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/27/04 - 9/3/04 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 8/27/04 - 9/3/04. 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. John L. Canney	Supervisor - ^{Control Room} IT	<i>[Signature]</i>	7/16/04	<i>[Signature]</i>	9-7-04
2. Duane D. McDade	Simulator Support	<i>[Signature]</i>	7/27/04	<i>[Signature]</i>	9/10/04
3. Kevin T. Abell	USCO / OPS - WCC	<i>[Signature]</i>	7-8-04	<i>[Signature]</i>	9-9-04
4. Curt Robert	BNP OPS TRNG INSTRUCTOR	<i>[Signature]</i>	7/12/04		
5. Tim English	HNF - SRO	<i>[Signature]</i>	7/12/04	<i>[Signature]</i>	9/10/04
6. Teresa Middleton	Data Management Asst I	<i>[Signature]</i>	7/12/04	<i>[Signature]</i>	9/9/04
7. Rob Whittaker	SCO - 0 Shift	<i>[Signature]</i>	7/12/04	<i>[Signature]</i>	9-13-04
8. James O'Keefe	SRO - 0-Shift	<i>[Signature]</i>	7-13-04	<i>[Signature]</i>	9-14-04
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09/28/2004 TUE 14:47 FAX 843 857 1888
 SEP-15-2004 WED 12:22 PM EREC
 ROBINSON TRAINING
 FAX NO. 19193623446
 P. 02

Ma. 16 04 07:58a Joe Arsenault
 Feb 16 04 11:30a Jacqueline Schelkly
 Feb 16 04 08:53a Joe Arsenault

(623) 535-1307
 860-739-9475
 (623) 535-1307

P.2
 P.1
 P.1

Robinson

1. Pre-Examination

8/27/04 WRITTEN
 8/30/04

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/30/04 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 8/27-29/04. 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. JOSEPH ARSENAULT	AUTHOR DEVELOPER	<i>Joseph Arsenault</i>	2/10/04	<i>Joseph Arsenault</i>	9/3/04	
2. Jacqueline Schelkly	Admin Assistant	<i>Jacqueline Schelkly</i>	2/10/04			
3. Michael Milberg	HBR lead OPS INSTR	<i>Michael Milberg</i>	2/11/04	<i>Michael Milberg</i>	9/2/04	
4. Clark Fletcher	HBR / Instructor	<i>Clark Fletcher</i>	4/15/04	<i>Clark Fletcher</i>	9/13/04	
5. Art Musselwhite	HBR TRAINING	<i>Art Musselwhite</i>	5/16/04	<i>Art Musselwhite</i>	9/16/04	
6. Duff Southam	HBR TRAINING	<i>Duff Southam</i>	5/11/04	<i>Duff Southam</i>	9/12/04	
7. SAFFED KHALFAY	HBR TRAINING	<i>Saffed Khalfay</i>	5/11/04	<i>Saffed Khalfay</i>	9/12/04	
8. JOSEPH P TODD	UNIT 2 OPERATIONS	<i>Joseph P Todd</i>	5/21/04	<i>Joseph P Todd</i>	9/13/04	
9. Jimmy McKusht	UNIT #2 OPS	<i>Jimmy McKusht</i>	5/21/04	<i>Jimmy McKusht</i>	9/16/04	
10. Sandra Brown	UNIT 2 OPS	<i>Sandra Brown</i>	6/19/04	<i>Sandra Brown</i>	9/13/04	
11. BRYAN C. WALSHAM	U-2 OPS	<i>Bryan C. Walsham</i>	02-07-04	<i>Bryan C. Walsham</i>	09-08-04	
12. GREGG W. LUDLAM	TRAINING HBR	<i>Gregg W. Ludlam</i>	7/7/04	<i>Gregg W. Ludlam</i>	9/6/04	
13. DARRYL FOSTER	UNIT 2 OPS / ASD	<i>Darryl Foster</i>	8/13/04	<i>Darryl Foster</i>	9/17/04	
14. KURT KRUGER	UNIT SUPERVISOR	<i>Kurt Kruger</i>	8/27/04	<i>Kurt Kruger</i>	9/12/04	
15. JAMES M. MOON	OPS SUPERVISOR	<i>James M. Moon</i>	8-30-04	<i>James M. Moon</i>	9-2-04	

NOTES:

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

1. Pre-Examination *H. B. Robinson*

8/27 written

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of *8/30/04* 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 *8/27-28/04*. 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. <i>James K. Lloyd</i>	<i>Exam Preparation</i>	<i>James K. Lloyd</i>	<i>2/23/04</i>			
2. <i>John W. Peterson</i>	<i>RNP Instructor</i>	<i>John W. Peterson</i>	<i>8/15/04</i>	<i>John W. Peterson</i>	<i>9-22-04</i>	
3. <i>Richard O. Moore</i>	<i>RNP Instructor</i>	<i>Richard O. Moore</i>	<i>8/30/04</i>	<i>Richard O. Moore</i>	<i>9/2/04</i>	
4. <i>Randy C. IVEY</i>	<i>OPS MGR</i>	<i>Randy C. Ivey</i>	<i>8/31/04</i>	<i>Randy C. Ivey</i>	<i>9/1/04</i>	
5. <i>William Noll</i>	<i>DSO</i>	<i>William Noll</i>	<i>8/31/04</i>	<i>William Noll</i>	<i>9/1/04</i>	
6. <i>Don Stoddard</i>	<i>W. Stoddard PSM</i>	<i>Don Stoddard</i>	<i>8/31/04</i>	<i>Don Stoddard</i>	<i>9/1/04</i>	
7. <i>RICK STEBBINS</i>	<i>RNP INSTRUCTOR</i>	<i>Rick Stebbins</i>	<i>8/31/04</i>	<i>Rick Stebbins</i>	<i>9/1/04</i>	
OFF → 8. <i>Randy C. Ivey</i>	<i>OPS MGR</i>	<i>Randy C. Ivey</i>	<i>9/3/04</i>			<i>ack 9/3/04</i>
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NOTES:

Robinson

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

8/27/04 WRITTEN
8/30/04

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/30/04 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 _____. 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. JOSEPH ARSENAULT	OWNER/DEVELOPER	<i>Joe Arsenault</i>	2/16/04	<i>Joe Arsenault</i>	9/3/04	
2. Jacqueline Schelkly	Admin Assistant	<i>Jacqueline Schelkly</i>	8/16/04	<i>Jacqueline Schelkly</i>	9/2/04	
3. Michael Milroy	NRC lead OPS INSTE	<i>Michael Milroy</i>	2/16/04	<i>Michael Milroy</i>	9/2/04	
4. Clark Fletcher	NRC / Inspector	<i>Clark Fletcher</i>	2/16/04	<i>Clark Fletcher</i>	9/2/04	
5. Art Musselwhite	NRC TRAINING	<i>Art Musselwhite</i>	2/16/04	<i>Art Musselwhite</i>	9/2/04	
6. Bill Smith	NRC TRAINING	<i>Bill Smith</i>	2/16/04	<i>Bill Smith</i>	9/2/04	
7. SAFFED KHALFAY	NRC TRAINING	<i>Saffed Khalfay</i>	2/16/04	<i>Saffed Khalfay</i>	9/2/04	
8. JOSEPH P. TODD	UNIT 2 OPERATIONS	<i>Joseph P. Todd</i>	2/16/04	<i>Joseph P. Todd</i>	9/2/04	
9. Jimmy McKusht	UNIT #2 OPS	<i>Jimmy McKusht</i>	2/16/04	<i>Jimmy McKusht</i>	9/2/04	
10. Sandra Brown	UNIT 2 OPS	<i>Sandra Brown</i>	6/19/04	<i>Sandra Brown</i>	9/2/04	
11. BRYAN C. WALKER	U-2 OPS	<i>Bryan C. Walker</i>	02-02-04	<i>Bryan C. Walker</i>	9/2/04	
12. GREGG W. LUDLAM	TRAINING NRC	<i>Gregg W. Ludlam</i>	2/16/04	<i>Gregg W. Ludlam</i>	9/2/04	
13. DARRYL FOSTER	UNIT 2 OPS INSTE	<i>Darryl Foster</i>	8/16/04	<i>Darryl Foster</i>	9/2/04	
14. KURT KRUGER	UNIT SUPERVISOR	<i>Kurt Kruger</i>	8/27/04	<i>Kurt Kruger</i>	9/2/04	
15. JAMES McMAHON	OPS SUPERVISOR	<i>James McMahon</i>	8-30-04	<i>James McMahon</i>	9-2-04	

NOTES:

1. Pre-Examination *H. B. Robinson*

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of *8/30/04* 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 *8/30/04*. 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.	<i>James K. Lloyd</i>	<i>Exam Preparation</i>	<i>James K Lloyd</i>	<i>2/23/04</i>	<i>James K Lloyd</i>	<i>9/3/04</i>	
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1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/27/04 - 9/3/04 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 8/27/04 - 9/3/04. 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.	John L. Carney	Supervisor - ^{Control Room} IT		7/8/04			
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NOTES:

HARRIS NRC SRO WRITTEN EXAM AGREEMENT

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/27/04 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 the 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 and 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 these NRC licensing examinations administered during the week(s) of _____. 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 scheduled to be 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.	Michael C. Milbre	LEAD OPS INSTRUCTOR	<i>[Signature]</i>	7/7/04	<i>[Signature]</i>	9/7/04	
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SIGNING ON TO THE SECURITY FOR
HARRIS SRO CAN BE TAKING
SRO ONLY EXAM W/SAME OUTLINE
AS ROBINSON EXAM

09/08/04 THU 11:07 FAX 4006
 SEP-09-2004 THU 11:03 AM EREC
 C&L BNP BOF 1
 FAX NO. 19193623446
 P. 01
 001

ATTN: MIKE MILBEE 843 857 1888

Robinson NRC Written Examination Agreement
 Examination Security Agreement
 Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/27/04 - 9/3/04 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

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	John L. Canney	Supervisor - ^{Control Room} IT/Plant	<i>[Signature]</i>	7/16/04	<i>[Signature]</i>	9-7-04	
2.	Dwaine D. McNamee	Simulation Support	<i>[Signature]</i>	7/27/04			
3.	Kevin T. Abell	USCO / OPS - WCC	<i>[Signature]</i>	7-8-04			
4.	Curt Robert	BNP OPS TRNG INSTRUCTOR	<i>[Signature]</i>	7/18/04	<i>[Signature]</i>	9-9-04	
5.	Tim ENGLISH	HNP - SW	<i>[Signature]</i>	7/18/04			
6.	Teresa Midette	Data Management Asst I	<i>[Signature]</i>	7/12/04	<i>[Signature]</i>	7/1/04	
7.	Red Chozical	SCO - D Shift	<i>[Signature]</i>	7/12/04			
8.	James O'Keefe	SRO - D-Shift	<i>[Signature]</i>	7-18-04			
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NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/27/04 - 9/3/04 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

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. John L. Canney	Supervisor - ^{Control Room} Training	<i>[Signature]</i>	7/10/04	<i>[Signature]</i>	9-7-04	
2. Duane D. McDeede	Simulation Support	<i>[Signature]</i>	7/27/04	<i>[Signature]</i>	9/10/04	
3. Kevin T. Atell	USCO / OPS-WCC	<i>[Signature]</i>	7-8-04	<i>[Signature]</i>	5.11.04	
4. Curt Robert	BNP OPS TRNG INSTRUCTOR	<i>[Signature]</i>	7/12/04	<i>[Signature]</i>	9/19/04	
5. Tim ENGLISH	HNF - SRO	<i>[Signature]</i>	7/12/04	<i>[Signature]</i>	9/9/04	
6. Teresa midette	Data management Asst I	<i>[Signature]</i>	7/12/04	<i>[Signature]</i>	9-13-04	
7. Rob Winkler	SCO - 0 Shift	<i>[Signature]</i>	7-12-04	<i>[Signature]</i>	9-14-04	
8. James O'Keefe	SRO - 0-Shift	<i>[Signature]</i>	7-13-04	<i>[Signature]</i>	9-14-04	
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NOTES:

Facility: Robinson	Date of Examination: 8/30/2004
Examination Level: RO	Operating Test Number: NRC
Administrative Topic (see Note)	Describe activity to be performed.
Conduct of Operations JPM A1	2.1.2 (3.0) Knowledge of operator responsibility during all modes of plant operation JPM: Monitor nuclear instrumentation during refueling operations (New JPM)
Conduct of Operations JPM A2	2.1.25 (2.8) Ability to obtain and interpret station reference materials such as graphs, monographs, and tables which contain performance data. JPM: Perform a manual SDM calculation IAW FMP-012 (Modified JPM)
Equipment Control JPM A3	2.2.12 (3.0) Knowledge of surveillance procedures. JPM: Given data collected over a period of time, determine RCS leak rate (Bank JPM; Last NRC Exam, modified data)
Radiation Control JPM A4	2.3.11 (2.7) Ability to control radiation releases JPM: Adjust a radiation monitor setpoint (New JPM)
Emergency Plan	N/A
NOTE:	All items (5 total are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.

Administrative Topics Outline
Narrative Summary
Reactor Operator

- A1 The applicant will be required to respond to a Source Range NI failure during Refueling Operations. The task will be to perform administrative actions such as ensuring that Core Alterations are halted and ensure that the audio count rate channel is selected to the operable Source Range Channel. This is a new JPM.

- A2 The applicant will be required to perform a Shutdown Margin calculation for the plant in Mode 3 with a stuck control rod. This JPM is modified from the facility bank.

- A3 The applicant will be required to determine RCS leakage for a given set of initial conditions and final conditions using a plant surveillance procedure. This JPM was performed on the 2002 NRC examination. Parameter values have been modified.

- A4 The applicant will be required to simulate adjusting a radiation monitor setpoint using the radiation monitor drawer in the control room. This is a new JPM.

Facility: Robinson	Date of Examination: 8/30/2004
Examination Level: SRO	Operating Test Number: NRC
Administrative Topic (see Note)	Describe activity to be performed.
Conduct of Operations JPM A1	2.1.2 (4.0) Knowledge of operator responsibility during all modes of plant operation JPM: Monitor nuclear instrumentation during refueling operations (New JPM)
Conduct of Operations JPM A2	2.1.25 (3.1) Ability to obtain and interpret station reference materials such as graphs, monographs, and tables which contain performance data. JPM: Perform a SDM calculation IAW FMP-012. (Modified JPM)
Equipment Control JPM A3	2.2.6 (3.3) Knowledge of the process for making changes in procedures as described in the safety analysis report. JPM: Review/approve a temporary change to a procedure IAW PRO-NGGC-0204. (New JPM)
Radiation Control JPM A4	2.3.11 (3.2) Ability to control radiation releases JPM: Adjust a radiation monitor setpoint (New JPM)
Emergency Plan JPM A5	2.4.44 (4.0) Knowledge of emergency plan protective action recommendations. JPM: Given a set of conditions, determine the Emergency Action Level (EAL) and make a Protective Action Recommendation (PAR) IAW the Emergency Plan. (New JPM)
NOTE: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when 5 are required.	

Administrative Topics Outline
Narrative Summary
Senior Reactor Operator

- A1 The applicant will be required to respond to a Source Range NI failure during Refueling Operations. The task will be to perform administrative actions such as ensuring that Core Alterations are halted and ensure that the audio count rate channel is selected to the operable Source Range Channel. This is a new JPM.

- A2 The applicant will be required to perform a Shutdown Margin calculation for the plant in Mode 3 with a stuck control rod. This JPM is modified from the facility bank.

- A3 The applicant will be required to review a temporary procedure change request for approval. Critical errors must be identified and corrected prior to approval, or non-approval stated based upon evaluation of information presented. This is a new JPM.

- A4 The applicant will be required to simulate adjusting a radiation monitor setpoint using the radiation monitor drawer in the control room. This is a new JPM.

- A5 The applicant will be required to determine the correct EAL for given plant conditions, and based on environmental conditions, perform a Protective Action Recommendation in accordance with the facility Emergency Plan. The facility audit examination contains EAL classification as the A5 task, but each classification is for a different proposed accident. This is a new JPM

Facility:	Robinson	Date of Examination:	8/30/2004	
Exam Level:	RO / SRO(I)/SRO(U)	Operating Test No.:	NRC	
Control Room Systems (8 for RO, 7 for SRO-I, 2 or 3 for SRO-U)				
System / JPM Title			Type Code*	Safety Function
S1	001 Rod Control	Respond to a dropped rod in Mode 2	S,D,E,A,L	1
S2	006 ECCS	Align SI for Cold Leg Recirculation	S,D,E,A	2
S3	EPE 009 SBLOCA	Respond to a LOCA with the unit shutdown	S,N,E,L	3
S4	076 Service Water	Restore SW Flow/Pressure in PATH-1	S,D,E,A	4S
S5	005 RHR	Lineup RHR for SI Standby	S,D	4P
S6	022 Containment Cooling	Respond to Cooling Water leak in a Containment HVH Cooler	S,N,E	5
S7	062 AC Distribution	Respond to loss of Vital Instrument bus 2	S,D,E	6
S8	008 Component Cooling	RO ONLY Respond to a loss of CCW to the RCP Motor Coolers <i>Repeat From Last NRC Exam</i>	S,D,E,A	8
In-Plant Systems (3 for RO, 3 for SRO-I, 3 or 2 for SRO-U)				
P1	010 PZR Pressure Control	Operate PZR PORV PCV-456 at the local control station	D,E	3
P2	061 AFW	Align SW to supply the MDAFW Pump suction header	D,E	4S
P3	064 EDG	Restore AC Power to an EDG Control Panel <i>Repeat From Last NRC Exam</i>	D,E,A,R	6
* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA				

- S1 The applicants will be withdrawing control rods from criticality to the Point of Adding Heat. During the control rod withdrawal, a control rod will drop, requiring the applicant to execute an alternate path by determining that the reactor should be tripped per the AOP, and initiating the reactor trip. This is a Bank JPM. The SRO Upgrade candidates will perform this task.
- S2 The task is to perform a partial alignment of Cold Leg Recirculation after a LOCA. The candidate is required to energize and align components in accordance with EPP 9. The alternate success path for completion of this task is to cross-connect CCW cooling for Cold Leg Recirculation due to CCW Pump failures. The SRO Upgrade candidates will perform this task.
- S3 The applicants will respond to a loss of RCS inventory with the unit shutdown by diagnosing pressurizer level decreasing and PRT level increasing. The applicants will raise Charging flow and isolate the leakage by isolating RHR suction piping. This is a new JPM.
- S4 The applicants will be required to respond to a reactor trip in Path-1. They will be required to perform actions of the Path and execute an alternate path for Service Water system operation, using the Path-1 RNO column, by isolating cross-connect valves and initiating flow in the essential header. This is a Bank JPM.
- S5 The applicants will be required to place the RHR system in normal standby mode for SI availability. The task involves location and manipulation of switches for ECCS components. This is a Bank JPM.
- S6 The applicants will be required to perform FRP-J.3 in response to Containment Flooding. They will determine that the leak is in an HVH cooler and will isolate the leak in accordance with the FRP. This is a new JPM. The SRO Upgrade candidates will perform this task.
- S7 The applicants will be required to respond to a Loss of Instrument Bus 2. Action required is to take manual control of control systems and stabilize the plant. This is a Bank JPM.
- S8 The applicants will be required to respond to a Loss of CCW to the RCP motor coolers. They must diagnose an isolation valve failed closed, attempt to reopen, and execute an alternate path by tripping the reactor and tripping all RCPs when re-establishing CCW fails. This is a Bank JPM that was administered in the 2002 NRC examination.
- P1 The applicants will be required to locate and operate the Pressurizer PORVs at the local control station. The task involves establishing alternate control, establishing communications, and operating the valves as directed locally. This is a Bank JPM.
- P2 The applicants will be required to establish an emergency suction source to the AFW pumps via Service Water. The task is a series of valve manipulations. This is a Bank JPM. The SRO Upgrade candidates will perform this task.
- P3 The applicants will be required to restore control power to an EDG control panel. The task will require execution of an alternate path to start the diesel locally by re-aligning the AC control power to the engine control panel. This is a Bank JPM that was administered in the 2002 NRC examination. This JPM requires RCA entry. The SRO Upgrade candidates will perform this task.

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Facility: Robinson	Date of Examination: 8/30/04	Operating Test Number: NRC
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1. GENERAL CRITERIA	Initials		
	a	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).	JGA	<i>M</i>	<i>A</i>
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	JGA	<i>M</i>	<i>A</i>
c. The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	JGA	<i>M</i>	<i>A</i>
d. Overlap with the written examination and between different parts of the operating test is within acceptable limits.	JGA	<i>M</i>	<i>A</i>
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	JGA	<i>M</i>	<i>A</i>

2. WALK-THROUGH CRITERIA

a. Each JPM includes the following, as applicable: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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 	JGA	<i>M</i>	<i>A</i>
b. 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.	JGA	<i>M</i>	<i>A</i>
c. At least 20 percent of the JPMs on each test are new or significantly modified.	JGA	<i>M</i>	<i>A</i>

3. SIMULATOR CRITERIA

a. The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	JGA	<i>M</i>	<i>A</i>
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	Printed Name / Signature	Date
a. Author	Joseph G. Arsenault	7/1/2004
b. Facility Reviewer (*)	<i>Michael C. Milbe</i> <i>Michael C. Milbe</i>	7/1/04
c. NRC Chief Examiner (#)	<i>Ron Aello</i> / <i>[Signature]</i>	7/22/04
d. NRC Supervisor	<i>G.T. Hopp</i> / <i>[Signature]</i>	7/22/04

NOTE: * The facility signature is not applicable for NRC-developed tests.
 # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.

Facility:	Robinson	Date of Examination:	8/30/04	Operating Test Number:	NRC		
1. GENERAL CRITERIA					Initials		
					a	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).			JGA	<i>[Signature]</i>	<input checked="" type="checkbox"/>	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.			JGA	<i>[Signature]</i>	<input checked="" type="checkbox"/>	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).			JGA	<i>[Signature]</i>	<input checked="" type="checkbox"/>	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.			JGA	<i>[Signature]</i>	<input checked="" type="checkbox"/>	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.			JGA	<i>[Signature]</i>	<input checked="" type="checkbox"/>	
2. WALK-THROUGH CRITERIA					-	-	-
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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 			JGA	<i>[Signature]</i>	<input checked="" type="checkbox"/>	
b.	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.			JGA	<i>[Signature]</i>	<input checked="" type="checkbox"/>	
c.	At least 20 percent of the JPMs on each test are new or significantly modified.			JGA	<i>[Signature]</i>	<input checked="" type="checkbox"/>	
3. SIMULATOR CRITERIA					-	-	-
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.			JGA	<i>[Signature]</i>	<input checked="" type="checkbox"/>	
		Printed Name / Signature		Date			
a.	Author	Joseph G. Arsenault	<i>[Signature]</i>	8/19/2004			
b.	Facility Reviewer (*)	Michael C. M. Bee	<i>[Signature]</i>	8/19/04			
c.	NRC Chief Examiner (#)	Ronald F. Ariello	<i>[Signature]</i>	8/20/04			
d.	NRC Supervisor	Michael E. Erustes / Michael E. Euts	<i>[Signature]</i>	8/23/04			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required.							

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Facility: Robinson Date of Exam: 8/30/04 Scenario Numbers: 1 / 2 / 3 Operating Test No.: NRC

QUALITATIVE ATTRIBUTES				Initials		
				a	b*	c#
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.	JGA	<i>[Signature]</i>			
2.	The scenarios consist mostly of related events.	JGA	<i>[Signature]</i>			
3.	Each event description consists of <ul style="list-style-type: none"> 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 into the scenario without a credible preceding incident such as a seismic event.	JGA	<i>[Signature]</i>		0	
5.	The events are valid with regard to physics and thermodynamics.	JGA	<i>[Signature]</i>		0	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	JGA	<i>[Signature]</i>		0	
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.	N/A	<i>[Signature]</i>		0	
8.	The simulator modeling is not altered.	JGA	<i>[Signature]</i>			
9.	The scenarios have been validated. Pursuant to 10CFR 55.46(d), any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.					
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.	JGA	<i>[Signature]</i>		0	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	JGA	<i>[Signature]</i>		0	
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	JGA	<i>[Signature]</i>		0	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	JGA	<i>[Signature]</i>		0	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)				Actual Attributes		
				1	2	3
1.	Total malfunctions (5-8)	7	5	7	JGA	<i>[Signature]</i>
2.	Malfunctions after EOP entry (1-2)	2	2	2	JGA	<i>[Signature]</i>
3.	Abnormal events (2-4)	3	3	3	JGA	<i>[Signature]</i>
4.	Major transients (1-2)	1	1	1	JGA	<i>[Signature]</i>
5.	EOPs entered/requiring substantive actions (1-2)	1	2	1	JGA	<i>[Signature]</i>
6.	EOP contingencies requiring substantive actions (0-2)	1	0	0	JGA	<i>[Signature]</i>
7.	Critical tasks (2-3)	2	2	2	JGA	<i>[Signature]</i>

Facility:	Robinson	Date of Exam:	8/30/04	Scenario Numbers:	1 / 2 / 3 / 4	Operating Test No.:	NRC			
QUALITATIVE ATTRIBUTES						Initials				
						a	b*	c#		
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.			JGA	<i>JGA</i>	<i>✓</i>				
2.	The scenarios consist mostly of related events.			JGA	<i>JGA</i>	<i>✓</i>				
3.	Each event description consists of <ul style="list-style-type: none"> 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) 			JGA	<i>JGA</i>	<i>✓</i>				
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.			JGA	<i>JGA</i>	<i>✓</i>				
5.	The events are valid with regard to physics and thermodynamics.			JGA	<i>JGA</i>	<i>✓</i>				
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			JGA	<i>JGA</i>	<i>✓</i>				
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.			N/A	N/A	<i>✓</i>				
8.	The simulator modeling is not altered.			JGA	<i>JGA</i>	<i>✓</i>				
9.	The scenarios have been validated. Pursuant to 10CFR 55.46(d), any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.			JGA	<i>JGA</i>	<i>✓</i>				
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.			JGA	<i>JGA</i>	<i>✓</i>				
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			JGA	<i>JGA</i>	<i>✓</i>				
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).			JGA	<i>JGA</i>	<i>✓</i>				
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			JGA	<i>JGA</i>	<i>✓</i>				
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.5.d)				Actual Attributes Scenarios				-	-	-
				1	2	3	4			
1.	Total malfunctions (5-8)			7	5	7	6	JGA	<i>JGA</i>	<i>✓</i>
2.	Malfunctions after EOP entry (1-2)			2	2	2	2	JGA	<i>JGA</i>	<i>✓</i>
3.	Abnormal events (2-4)			3	3	3	3	JGA	<i>JGA</i>	<i>✓</i>
4.	Major transients (1-2)			1	1	2	2	JGA	<i>JGA</i>	<i>✓</i>
5.	EOPs entered/requiring substantive actions (1-2)			1	2	1	1	JGA	<i>JGA</i>	<i>✓</i>
6.	EOP contingencies requiring substantive actions (0-2)			1	0	0	2	JGA	<i>JGA</i>	<i>✓</i>
7.	Critical tasks (2-3)			2	2	2	2	JGA	<i>JGA</i>	<i>✓</i>

DRAFT
OPERATING TEST NO.: NRC

Applicant Type	Evolution Type	Minimum Number	Scenario Number							
			1		2		3		4	
			RO	BOP	RO	BOP	RO	BOP	RO	BOP
RO	Reactivity	1*	3		1		1		1	
	Normal	1*		3		1		1		1
	Instrument / Component	4*	1,2,5,8	2,7,8	2,3,4,7	2,6	2,3,7,8	4,8	3,6,7	2,5,7
	Major	1	6	6	5	5	5	5	5	5

As RO	Reactivity	1*	3		1		1		1	
	Normal	0								
	Instrument / Component	2*	1,2,5,8		2,3,4,7		2,3,7,8		3,6,7	
	Major	1	6		5		5		5	

SRO-I	Reactivity	0								
	Normal	1*	3		1		1		1	
	Instrument / Component	2*	1,2,5		2,3,4		2,3,4,8		2,3,6,7	
	Major	1	6		5		5		5	

SRO-U	Reactivity	0								
	Normal	1*	3		1		1		1	
	Instrument / Component	2*	1,2,5		2,3,4		2,3,4,8		2,3,6,7	
	Major	1	6		5		5		5	

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

Author:

NRC Reviewer:



DRAFT

Competencies	SRO				RO				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Interpret / Diagnose Events and Conditions	1,2,4, 5,6,8	2,3, 4,5,7	2,3,4, 5,7,8	2,3,4, 7	1,2,5, 8	3,4,7	2,3, 6,7,8	3,4,6	2,7,8	2,4,6	4,8	2,5,7
Comply With and Use Procedures (1)	1,2,3, 5,6,8	1,2,3, 4,5,6	1,2,3, 4,5,8	1-7	1,2,3, 5,8	1,3,4, 5,7	1,2,3, 6,7,8	1,3,4, 6,7	2,3,6, 7,8	1,2,4, 5,6	1,4,8	1,2, 5,7
Operate Control Boards (2)	NA	NA	NA	NA	1,3,5, 8	1,3, 4,7	1,2,3, 7,8	1,3, 6,7	2,6, 7,8	1,2, 4,6	1,4,8	1,2, 5,7
Communicate and Interact	ALL	ALL	ALL	ALL	1,2,3, 5,6,8	1,3,4, 5,7	1,2,3, 5,7,8	1,3,4, 5,6,7	2,3,6, 7,8	1,2, 4,6	1,4, 5,8	1,2,5, 6,7
Demonstrate Supervisory Ability (3)	ALL	ALL	ALL	ALL	NA	NA	NA	NA	NA	NA	NA	NA
Comply With and Use Tech. Specs. (3)	1,4	3,4	2,3	2,4	NA	NA	NA	NA	NA	NA	NA	NA

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:

Joseph A. ...

NRC Reviewer:

[Signature]

NUREG-1021, Draft Revision 9

Author:

Joseph A. ...

NRC Reviewer:

[Signature]

Competencies	SRO				RO				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Interpret / Diagnose Events and Conditions	1,3,4, 5,7,9	2,3, 4,5,7	2,3,4, 5,7,8	2,3,4, 7	1,5, 9	3,4,7	2,3, 6,7,8	3,4,6	3,8,9	2,4,6	4,8	2,5,7
Comply With and Use Procedures (1)	1,3,4, 5,7,9	1,2,3, 4,5,6	1,2,3, 4,5,8	1-7	1,4, 5,9	1,3,4, 5,7	1,2,3, 6,7,8	1,3,4, 6,7	3,4,7, 8,9	1,2,4, 5,6	1,4,8	1,2,4, 5,7
Operate Control Boards (2)	NA	NA	NA	NA	1,4, 5,9	1,3, 4,7	1,2,3, 7,8	1,3, 6,7	3,7, 8,9	1,2, 4,6	1,4,8	1,2,4, 5,7
Communicate and Interact	ALL	ALL	ALL	ALL	1,4, 5,7,9	1,3,4, 5,7	1,2,3, 5,7,8	1,3,4, 5,6,7	3,4,7, 8,9	1,2, 4,6	1,4, 5,8	1,2,4, 5,7
Demonstrate Supervisory Ability (3)	ALL	ALL	ALL	ALL	NA	NA	NA	NA	NA	NA	NA	NA
Comply With and Use Tech. Specs. (3)	1,6	3,4	2,3	2,4	NA	NA	NA	NA	NA	NA	NA	NA

Notes:

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

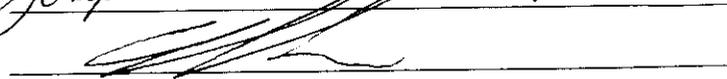
Instructions:

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:



NRC Reviewer:



DRAFT

Facility: Robinson		Date of Exam: 8/27/2004		Exam Level: RO/SRO	
Item Description	Initial				
	a	b*	c#		
1. Questions and answers technically accurate and applicable to facility	JGA	<i>JGA</i>			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	JGA	<i>JGA</i>	✓		
3. SRO questions are appropriate per Section D.2.d of ES-401	JGA	<i>JGA</i>	✓		
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process	JGA	<i>JGA</i>	✓		
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 <u>XX</u> the licensee certifies that there is no duplication; or _____ other (explain)	JGA	<i>JGA</i>			
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 RO / SRO-only question distribution(s) at right.	Bank	Modified	New	JGA	<i>JGA</i>
	30 / 10	14 / 5	31 / 10		
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	Memory		C/A	JGA	<i>JGA</i>
	30 / 9		45 / 16		
8. References/handouts provided do not give away answers	JGA	<i>JGA</i>	✓		
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	JGA	<i>JGA</i>	✓		
10. Question psychometric quality and format meet ES, Appendix B, guidelines	JGA	<i>JGA</i>			
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet	JGA	<i>JGA</i>			
		Printed Name / Signature	Date		
a. Author	Joseph G. Arsenault	<i>Joseph G. Arsenault</i>	7/7/04		
b. Facility Reviewer (*)	MICHAEL C. NUBBE	<i>Michael C. Nubbe</i>	7-8-04		
c. NRC Chief Examiner (#)	Ron Arello	<i>Ron Arello</i>	7/20/04		
d. NRC Regional Supervisor	G.T. Hopper	<i>G.T. Hopper</i>	7/20/04		
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c" chief examiner concurrence required.					

Facility: Robinson		Date of Exam: 8/27/2004		Exam Level: RO/SRO		
Item Description	Initial					
	a	b*	c#			
1. Questions and answers technically accurate and applicable to facility	JGA	<i>JGA</i>	<i>0</i>			
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	JGA	<i>JGA</i>	<i>0</i>			
3. SRO questions are appropriate per Section D.2.d of ES-401	JGA	<i>JGA</i>	<i>0</i>			
4. Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process	JGA	<i>JGA</i>	<i>0</i>			
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input type="checkbox"/> the audit exam was systematically and randomly developed; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	JGA	<i>JGA</i>	<i>0</i>			
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 RO / SRO-only question distribution(s) at right.	Bank	Modified	New	JGA	<i>JGA</i>	<i>0</i>
	32 / 9	12 / 5	31 / 11			
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	Memory		C/A	JGA	<i>JGA</i>	<i>0</i>
	30 / 10		45 / 15			
8. References/handouts provided do not give away answers	JGA	<i>JGA</i>	<i>0</i>			
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	JGA	<i>JGA</i>	<i>0</i>			
10. Question psychometric quality and format meet ES, Appendix B, guidelines	JGA	<i>JGA</i>	<i>0</i>			
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet	JGA	<i>JGA</i>	<i>0</i>			
Printed Name / Signature					Date	
a. Author	Joseph G. Arsenault <i>Joseph G. Arsenault</i>			8/19/04		
b. Facility Reviewer (*)	Michael C. Milbee <i>Michael C. Milbee</i>			8/19/04		
c. NRC Chief Examiner (#)	Randy F. Rullo <i>Randy F. Rullo</i>			8/20/04		
d. NRC Regional Supervisor	Michael E. Easter <i>Michael E. Easter</i>			8/23/04		
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c" chief examiner concurrence required.						

H.B. Robinson 2004-301

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
<p>Instructions</p> <p>[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]</p> <ol style="list-style-type: none"> Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level. Enter the level of difficulty (LOD) of each question using a 1 - 5 (easy - difficult) rating scale (questions in the 2 - 4 range are acceptable). Check the appropriate box if a psychometric flaw is identified: <ul style="list-style-type: none"> The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information). The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc). The answer choices are a collection of unrelated true/false statements. One or more distractors is not credible. One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem). Check the appropriate box if a job content error is identified: <ul style="list-style-type: none"> The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content). The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory). The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons). The question requires reverse logic or application compared to the job requirements. <u>Check questions that are sampled</u> for conformance with the approved K/A and those that are <u>designated SRO-only</u> (K/A and license level mismatches are unacceptable). Based on the reviewer's judgment, is the question as written (U)nacceptable (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory? At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met). 																

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
RO/SRO Combined Question																
1	C	3											Y	N	E S	001AK2.01 Generic All RO Questions: Need SRO importance rating on all RO questions <i>Placed SRO ratings on all RO questions(JGA 8/2/04)</i> 08/10/04 RFA Approve
2	C	3											Y	N	S	002K5.09 No Comment (RFA 07/13/04)
3	C	3					X						Y	N	E S	003A4.07 Question is NOT balanced. Either replace "B" distractor or re-write "C" and "D" to line up with "B." (RFA 07/13/04) <i>Modified to reflect comment. Changed distractor 'B' (JGA 8/2/04)</i> 08/10/04 RFA Approve
4	M	2				X							Y	N		003AK1.21 Distractors "A" and "C" are NOT plausible because it states "All four channels..." Give a specific rod and let the applicant figure out which channel or channels will be Affected. (RFA 07/13/04) <i>Changed to reflect comment above. Made open reference(JGA 8/2/04)</i> 08/10/04 RFA Approve <i>Changed again to eliminate direct lookup (JGA 8/18/04)</i> 08/18/04 RFA Approve
5	C	3											Y	N	S	003K3.03 No Comment (RFA 07/13/04)

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
6	M	2											Y	N	S	004K2.03 No Comment (RFA 07/13/04)
7	C	3					X						Y	N	E S	005A.204 Need to reference a procedure for distractor "C" to balance out the distractors. (RFA 07/13/04) <i>Placed GP-007 reference in C (JGA 8/2/04)</i> 08/10/04 RFA Approve
8	M	2											Y	N	S	005AK3.02 No Comment (RFA 07/13/04)
9	C	3											Y	N	S	005K1.01 No Comment (RFA 07/13/04)
10	M	2				X							Y	N		006A1.06 Distractors "C" and "D" are NOT plausible. Half of the heat removal is going away. SCM has to diminish. Suggest giving them that SCM decreases and remove that statement from the distractors and add something else that is not so obvious. (RFA 07/13/04) <i>Changed to reflect comment above. (JGA 8/2/04)</i> 08/10/04 RFA Approve <i>Changed distractors again to balance distractors and ensure plausibility (JGA 8/18/04)</i> 08/18/04 RFA Approve

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
11	C	2					X						Y	Y	E S	006A2.12 Based on the distractor analysis, it would be more plausible to state in "C" and "D" to "re-start..." vs. "start..." since starting is only performed following an SI flow reduction. (RFA 07/13/04) <i>'C' and 'D' are plausible because in this event the SI pumps have not been started yet. Item left as is per phone agreement (JGA 8/2/04)</i> 08/10/04 RFA Approve
12	C	1											Y	N		007A4.10 This question has no discriminatory value. It is basic knowledge that the PORVs discharge to the PRT. Rebuild ICs so it is not so obvious. (RFA 07/13/04) <i>Changed to reflect comment above (JGA 8/2/04)</i> 08/10/04 RFA Approve <i>Modified again to ensure D would be incorrect and replaced distractor C (JGA 8/18/04)</i> 08/18/04 RFA Approve
13	M	2											Y	N	S	007G2.1.20 No Comment (RFA 07/13/04)
14	C	3					X						Y	N	E S	008A2.03 Given the initial conditions, RCP motor cooling <i>IS</i> ineffective. Therefore distractor "A" is NOT an incorrect statement. Re-write distractor "A." (RFA 07/13/04) <i>Modified to reflect comment. Rewrote distractor 'A' (JGA 8/2/04)</i> 08/10/04 RFA Approve <i>Modified again for distractor plausibility (8/19/04 JGA)</i> 08/19/04 RFA Approve

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
15	M	2											Y	N	S	008AA2.23 No Comment (RFA 07/13/04)
16	C	3											Y	N	S	008K2.02 No Comment (RFA 07/13/04)
17	C	2					X						Y	N	E S	009EA1.17 State containment pressure without a trend. The trend eludes to the fact that the rupture disc has blown. Therefore, distractor "A" is NOT plausible. Restate the last bullet "Containment pressure is currently reading 6 psig on _____ gauge." (RFA 07/13/04) <i>Modified to reflect comment above(JGA 8/2/04)</i> 08/10/04 RFA Approve <i>Modified stem and 1 distractor to avoid double jeopardy with 007A4.10 (JGA 8/18/04)</i> 08/18/04 RFA Approve
18	C	3				X							Y	Y		009EA2.04 RCS is subcooled. Distractors "C" and "D" are NOT plausible. No voiding in the RV can occur. Re-write distractors "C" and "D". (RFA 07/13/04) <i>Question remains with editorial enhancements. Per telecon, described why 'C' and 'D' are plausible for the conditions described in the stem (JGA 8/4/04)</i> 08/10/04 RFA Approve
19	C	3											Y	N	S	010A1.04 No Comment (RFA 07/13/04)
20	C	3											Y	Y	S	010G2.4.50 No Comment (RFA 07/13/04)

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T:F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
21	M	2					X						Y	N	-E S	011EK3.03 Remove "...but the DG output breakers..." from distractors "C" and "D". This statement "teaches" and is information that is not needed. <i>Modified to reflect comment above (JGA 8/2/04)</i> 08/10/04 RFA Approve
22	C	3											Y	Y	S	012G2.4.31 No Comment (RFA 07/13/04) <i>Eliminated first part of each distractor for consistency with Harris changes. (JGA 8/2/04)</i>
23	C	3	X										Y	N		012K3.02 The question is not plausible as written. Remove "All rod bottom lights are illuminated" from the stem. If RTB "A" is open the rod bottom lights will be lit. <i>Modified to reflect comment above (JGA 8/2/04)</i> 08/10/04 RFA Approve
24	C	3	X			X							Y	N		013K3.03 Containment phase "A" either will or will not actuate. Either "B" or "C" has to be correct. Therefore distractors "A" and "D" are moot. Replace or re-write the question. <i>Question rewritten (JGA 8/2/04)</i> 08/11/04 RFA Approve
25	C	3					X						Y	N	E S	014A1.04 The distractors are NOT balanced. Three distractors contain "no radial flux tilt." Change "D" to "a ___% radial flux tilt change was noted." Change "C" to read the same thing. (RFA 07/13/04) <i>Modified to reflect comment above (JGA 8/2/04)</i> 08/10/04 RFA Approve

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
26	M	2											Y	N	S	015A4.03 No Comment (RFA 07/13/04)
27	C	3					X						Y	N	E S	015AA1.22 Distractor "C": Consider "Seal Injection flow is too high." Low seal injection flow does not seem plausible. CAF (RFA 07/13/04) <i>Modified to reflect comment above (JGA 8/2/04)</i> 08/10/04 RFA Approve
28	C	3	X										Y	N	E S	016A3.01 Remove "if any" from the stem. None of the choices entertain this. (RFA 07/13/04) <i>Modified to reflect comment (JGA 8/2/04)</i> 08/10/04 RFA Approve
29	C	3				X							Y	N		022A1.04 Psychometric flaw: If "C" was the correct answer, "D" would be also. If "A" was the correct answer, "B" would be also. Redesign the question. (RFA 07/13/04) <i>Modified to reflect comment above. (JGA 8/2/04)</i> 08/10/04 RFA Approve
30	C	3						X					Y	Y	S	022A2.03 No Comment (RFA 07/13/04)

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
31	C	2					X						Y	N	E S	024AA2.04 Distractors "A" and "B": Change to "...equal to <i>the</i> flow rate..." Distractors "C" and "D": Change to "...equal to charging flow <i>rate</i> ..." Inconsistent fonts throughout. (RFA 07/13/04) <i>Modified to reflect comment. Changed font.</i> (JGA 8/2/04) 08/10/04 RFA Approve
32	C	3				X							Y	N		025AA1.20 Distractors "C" and "D": "red and green lights on" is NOT plausible for a normal breaker indication. Replace both distractors. (RFA 07/13/04) <i>Plausible at Robinson for a breaker amptector trip. No change as discussed per telecon. (JGA 8/2/04)</i> 08/10/04 RFA Approve
33	C	3				X							Y	N	E S	026A1.01 Psychometrically since "B" and "D" are both spray pump discharge valves, applicant will choose between the two. Replace "D" distractor. (RFA 07/14/04) <i>Modified to reflect comment. (JGA 8/2/04)</i> 08/10/04 RFA Approve <i>Modified again to improve distractors (JGA 8/19/04)</i> 08/19/04 RFA Approve
34	C	3											Y	N	S	026AA2.02 No Comment (RFA 07/14/04) <i>Changed correct answer to SFP HX tube (JGA 8/19/04)</i> RFA Approve 8/19/04

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
35	C	3											Y	N	S	027AA2.10 No Comment (RFA 07/14/04)
36	C	3											Y	Y	S	027G2.4.49 No Comment (RFA 07/14/04)
37	C	3											Y	N	S	028G2.1.23 No Comment (RFA 07/14/04)
38	C	3	X					X					Y	N	E S	029EA1.09 Validate distractor "D": What is the evidence that auto rod insertion is malfunctioning? (RFA 07/14/04) <i>Updated explanation to describe that rods should be moving faster with a high temperature mismatch (JGA 8/2/04)</i> <i>Modified again to balance distractors (JGA 8/19/04)</i> RFA Approve 08/19/04
39	C	3											Y	Y	E S	029EA2.09 Provide reference to justify answer. (RFA 07/14/04) <i>Reference provided. Also modified item (JGA 8/2/04)</i> RFA: 08/10/04 Change "A" and "B" to "main" turbine Facility Agreed 08/10/04 RFA Approve
40	M	2											Y	Y	S	029G2.2.25 No Comment (RFA 07/14/04)

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
41	C	3											Y*	N	E S	029K4.03 Add automatic valve closure to fully implement the KA. Use choices "A" and "C" with valve closures (e.g. right action right valve, wrong action right valve, right action wrong valve, wrong action wrong valve). (RFA 07/14/04) <i>Modified to reflect comment above (JGA 8/2/04)</i> 08/10/04 RFA Approve
42	M	3				X							Y	Y		034A2.01 "Should remain the same" is not plausible. Re- design distractors "B" and "D." (RFA 07/14/04) <i>Modified to reflect comment above. (JGA 8/2/04)</i> 08/11/04 RFA : Changed "should" to "will" in distractors "A" and "C". Approve <i>Modified stem slightly (JGA 8/19/04)</i> 08/19/04 RFA Approve
43	M	2											Y	Y	S	034G2.1.23 No Comment (RFA 07/14/04) <i>Modified to adjust distractor D for distractor plausibility (JGA 8/19/04)</i> 08/19/04 RFA Approve

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
44	C	3											Y	N	S	035K1.01 No Comment (RFA 07/14/04)
45	C	3	X				X						N	Y		036G2.4.6 This question references an AOP NOT an EOP. Discuss with GTH or MEE. GTH concurs Distractor "B" is NOT plausible. With cavity level dropping rapidly, moving the spent fuel assembly to the upender and then to the SFP is not plausible. Replace distractor "B" (RFA 07/14/04) <i>Modified distractor 'B' to reflect comment. RFA allowed use of AOP since NO EOPs exist in relation to Fuel Handling Accidents (JGA 8/2/04)</i> 08/10/04 RFA Approve <i>Modified again to enhance distractors (8/19/04)</i> 08/19/04 RFA Approve
46	M	2											Y	N	E S	038EA1.19 Provide reference to justify answer. (RFA 07/14/04) <i>Reference provided (JGA 8/2/04)</i> 08/11/04 RFA Approve
47	C	3											Y	N	S	039A1.06 No Comment (RFA 07/14/04)
48	M	2											Y	N	S	039K1.09 No Comment (RFA 07/14/04)

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
49	C	2					X						Y	N	E S	040AA1.13 Change distractor "D" to "..... All MSIVs indicate RED" Need applicable reference attached (Main Steam SD) (RFA 07/14/04) <i>Modified to reflect comment above. Reference attached (JGA 8/2/04)</i> 08/10/04 RFA Approve <i>Modified again to enhance distractors (JGA 8/19/04)</i> 08/19/04 RFA Approve
50	C	2											Y	N	S	041K6.03 No Comment (RFA 07/14/04)
51	M	2	X										Y	N	E S	045A3.05 Move "governor and" to the stem also. (RFA 07/14/04) <i>Modified to reflect comment above (JGA 8/2/04)</i> 08/10/04 RFA Approve
52	C	3											Y	N	E S	054AA2.08 Need applicable reference attached for verification (RFA 07/14/04) <i>Reference provided (JGA 8/2/04)</i> 08/11/04 RFA Approve <i>Modified distractors to increase plausibility (8/19/04 JGA)</i> 08/19/04 RFA Approve
53	C	4											Y	N	S	056AA2.56 Good question (RFA 07/14/04)
54	M	2											Y	Y	S	056G2.4.50 No Comment (RFA 07/14/04)

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
55	C	3					X						Y	N	E S	056K1.03 Psychometric flaw: Change "B" and "C" distractors to read "Only the ___ Main Feedwater Pump will trip..." (RFA 07/14/04) <i>Modified to reflect comment (JGA 8/2/04)</i> 08/11/04 RFA: "B" and "C" emphasize sufficient and insufficient. 08/11/04 RFA Approve
56	M	2					X						Y	N	E S	057AA2.17 Add "ONLY" to "A,B, and C." Otherwise, if "D" was correct, "A,B, and C" would be also. (RFA 07/14/04) <i>Modified to reflect comment (JGA 8/2/04)</i> 08/11/04 RFA Approve
57	M	2											Y	N	E S	058AK3.02 Place an "s" on "action" in the stem. (RFA 07/14/04) <i>Modified to reflect comment (JGA 8/2/04)</i> 08/11/04 RFA Approve
58	C	3											Y	N	S	059K3.04 No Comment (RFA 07/14/04)
59	C	3											Y	N	S	061K6.02 No Comment (RFA 07/14/04)

2. LOD (1-5)	Stem Focus
3	X
3	
3	
3	

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
60	C	3					X						Y	N	E S	062AA1.07 Where is it assumed that excess letdown is in service? Change distractor "A" to state "isolate normal letdown and place excess letdown in service." This would be wrong (see AOP-14, step 10). (RFA 07/14/04) <i>Modified to reflect comment (JGA 8/2/04)</i> 08/11/04 RFA Approve <i>Clarified wording for consistency (8/19/04 JGA)</i> 08/19/04 RFA Approve
61	C	3											Y	Y	S	062AA2.02 No Comment (RFA 07/14/04)
62	M	3											Y	N	S	062K4.02 No Comment (RFA 07/14/04)
63	M	3											Y	N	S	063K2.01 No Comment (RFA 07/14/04)
64	C	3											Y	N	S	064A2.13 No Comment (RFA 07/14/04)
65	C	3					X						Y	N	E S	065AK3.03 The question has low discriminatory value as written. Change one distractor that does NOT require air, is plausible but is still wrong. (RFA 07/14/04) <i>Modified to reflect comment. Replaced "D" with 'Pressurizer Safety Valves'(JGA 8/2/04)</i> 08/11/04 RFA Approve

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
66	M	3	X										Y	N	E S	068AA1.02 CAF: Is there enough information in the stem to assume that the CR is evacuated? (RFA 07/14/04) <i>Added clarification to stem (JGA 8/2/04)</i> 08/11/04 RFA Approve <i>Minor mods to distractors A and C (8/19/04 JGA)</i> 08/19/04 RFA Approve
67	M	3					X						Y	N	E S	073A4.02 Why are distractors "A" and "D" plausible? (RFA 07/14/04) <i>'A' is plausible because some radiation monitors are equipped with range switches, but not R-14C. 'D' is plausible because if R-14 (Plant Effluent Monitors) were not operable, then dose assessments would be performed using diverse (ie, Containment) radiation readings. (JGA 8/2/04)</i> 08/11/04 RFA Approve
68	C	3											Y	N	S	073K5.02 No Comment (RFA 07/14/04) <i>Minor stem modifications (8/19/04 JGA)</i> 08/19/04 RFA Approve
69	C	3											Y	N	-E S	076G2.1.33 This question is similar to question 30. They both deal with entry into TS LCO 3.0.3. Consider modifying to another TS. (RFA 07/14/04) <i>Different systems. Not changed per telecon(JGA 8/2/04)</i> 08/11/04 RFA Approve <i>Modified distractors for RO level (8/19/04 JGA)</i> 08/19/04 RFA Approve

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
70	M	3					X						Y	N	E S	078A4.01 Psychometric flaw: Distractors "B" and "D" are too close. Change the second part of one of them (possibly the setpoint). (RFA 07/14/04) <i>Modified to reflect comment. Capitalized OPEN and CLOSE (JGA 8/2/04)</i> 08/11/04 RFA Approve
71	M	3					X						Y	N	E S	078K2.02 Change distractor "D" to: "480V Bus E-1 and E-2 are being powered by their respective EDG." This way the answer is not given away. (RFA 07/14/04) <i>Modified to say '480v busses are energized(JGA 8/2/04)</i> 08/11/04 RFA Approve
72	C	3											N	N		086A2.01 The second part of the KA is NOT satisfied (use procedures to correct, control,...) Modify question to include. (RFA 07/14/04) <i>Modified to reflect comment (JGA 8/2/04)</i> 08/11/04 RFA Approve
73	C	3					X						Y	N	E S	103G2.1.2 Distractor "B" is not plausible. Replace or justify its plausibility. (RFA 07/14/04) <i>Plausibility justified per telecom and updated on explanation (JGA 8/2/04)</i> 08/11/04 RFA Approve

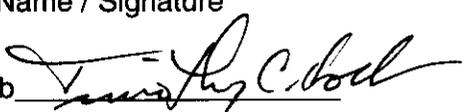
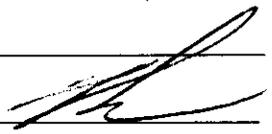
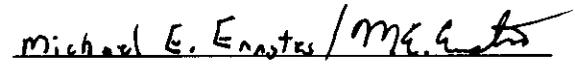
Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
74	C	3											Y	N	E S	E02EK1.2 Need applicable reference attached for verification (RFA 07/14/04) Reference provided (JGA 8/2/04) 08/11/04 RFA Approve
75	C	3											Y	Y	S*	E03G2.4.31 No Comment (RFA 07/14/04) MEE 08/11/04: KA being addressed (Similar to HR exam) 8/17/04 Resolved JGA. KA changed to 2.4.16 8/17/04 RFA Approve
76	C	3											Y	Y	S*	E04G2.1.28 No Comment (RFA 07/14/04) MEE 08/11/04: KA being addressed (Similar to HR exam) 8/17/04 Resolved JGA. Comment accepted by NRC 08/17/04 RFA Approve
77	M	2	X					X					Y	N	E S	E05EK3.4 The distractors are inconsistent. The stem does NOT solicit a reason. Redo the stem to solicit a flow and a reason. Redo disattractors "B" and "D" to model "A" and "C." (RFA 07/14/04) Modified to reflect comment (JGA 8/2/04) 08/11/04 RFA Approve

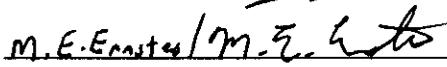
Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
78	C	3	X										N	Y		E05G2.1.27 KA: This is not a "system purpose" question 3/4 of each distractor could be moved to the stem. The question will read and flow better if moved. (RFA 07/14/04) <i>Modified to reflect comment. Discussed proposal on phone with RFA (JGA 8/2/04)</i> 08/11/04 RFA Approve
79	C	3					X						Y	Y	E S	E06EA2.1 Remove: "with 2 degrees of subcooling" from the 4 th bullet. Enough information is there to determine that. Therefore, distractor "C" will become plausible. (RFA 07/14/04) <i>Modified to reflect comment (JGA 8/2/04)</i> 08/11/04 RFA Approve
80	M	3											Y	N	S	E06EK2.1 No Comment (RFA 07/14/04)
81	C	3											Y	N	S	E13EK3.1 No Comment (RFA 07/14/04)
82	C	3											Y	Y	S	E14EA2.1 No Comment (RFA 07/14/04)
83	C	3											Y	N	E S	E16EA2.1 Question listed as SRO. Should be RO (RFA 07/14/04) <i>Changed to RO test item. Reflected on ES-401 outline. (JGA 8/2/04)</i> 08/11/04 RFA Approve

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	# units	Backward	Q=K/A	SRO Only			
84	M	2					X						Y	N	E S	G2.1.1 Distractor "C" is symmetric with "A" but "D" is not symmetric with "B." (RFA 07/14/04) <i>Modified to reflect comment (JGA 8/2/04)</i> 08/11/04 RFA Approve
85	C	3											Y	Y	S	G2.1.11 No Comment (RFA 07/14/04) <i>Added \geq instead of $>$ to distractors 'A' and 'B'</i> (JGA 8/2/04) 08/11/04 RFA Approve <i>Modified stem wording (8/19/04 JGA)</i> 08/19/04 RFA Approve
86	C	3											Y	N	S	G2.1.28 No Comment (RFA 07/14/04)
87	M	1				X							X	Y		G2.1.3 This question has no discriminatory value. Selection "A" is too obvious. Replace the question (RFA 07/14/04) <i>Replaced with Bank Question, modified for suitability to exam (JGA 8/2/04)</i> 08/11/04 RFA Approve
88	M	3											Y	Y	S	G2.2.12 No Comment (RFA 07/14/04)
89	M	3											Y	N	S	G2.2.13 No Comment (RFA 07/14/04)

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
90	M	2	X				X						Y	N*		<p>G2.2.14 "Must" combined with "may" statements can be ambiguous. Put in stem the "Must" statement and only use the second part of the distractors as distractors. The second part of the answer "...an assessment of compensatory actions must be performed" is NOT clear from the reference. The reference states that items such as LCOs should NOT be tracked. Why is distractor "A" not correct too? The nature of this question indicates SRO only. (RFA 07/14/04) <i>Replaced question with a modified bank item to eliminate the SRO nature of question (JGA 8/4/04)</i> 08/11/04 RFA : KA does NOT match, Replace Question. 08/11/04 RFA Approve</p>
91	M	1				X							Y	Y	E S	<p>G2.2.25 This question is common knowledge and has very low discriminatory value. (RFA 07/19/04) <i>SRO Validator had difficulty with this item. No change as agreed per telecom (JGA 8/2/04)</i> 08/11/04 RFA Approve</p>
92	M	2				X							Y	N		<p>G2.2.28 If "B" was correct, "A" would be correct also. Stem needs to be written (... as a minimum...) (RFA 07/19/04) <i>Modified to reflect comment (JGA 8/2/04)</i> 08/11/04 RFA Approve</p>

Q#	1. LOK (C/M)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only			
93	C	3											Y	Y	S	G2.2.6 No Comment (RFA 07/19/04) <i>Developed new question to replace because this was double jeopardy with SRO Admin Task A3)</i> 08/11/04 RFA Approve
94	M	2											Y	N	S	G2.3.1 No Comment (RFA 07/19/04)
95	M	3											Y	N	S	G2.3.2 No Comment (RFA 07/19/04)
96	M	3											Y	Y	S	G2.3.9 No Comment (RFA 07/19/04)
97	M	3											Y	Y	S	G2.4.16 No Comment (RFA 07/19/04)
98	M	2											Y	N	S	G2.4.26 No Comment (RFA 07/19/04)
99	M	2											Y	N*	E S	G2.4.37 The nature of this question appears to be SRO only. RO importance is 2.0 NOT 2.9. SRO importance is 3.5. <i>Changed to SRO ONLY and updated ES-401 written exam outline. (Switched with E16EA2.1) (JGA 8/2/04)</i> 08/11/04 RFA Approve

Facility: H.B. Robinson		Date of Exam: 08/27/04		Exam Level: RO		
Item Description				Initials		
				a	b	c
1.	Clean answer sheets copied before grading			TCK	N/A	RFA
2.	Answer key changes and question deletions justified and documented			N/A	N/A	N/A
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)			TCK	N/A	RFA
4.	Grading for all borderline cases (80 +/- 2% overall and 70 +/- 4% on the SRO-only) reviewed in detail			N/A	N/A	N/A
5.	All other failing examinations checked to ensure that grades are justified			N/A	N/A	N/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			TCK	N/A	RFA
				Printed Name / Signature		Date
a. Grader	Timothy C. Kolb 					09/13/04
b. Facility Reviewer(*)	N/A					N/A
c. NRC Chief Examiner (*)	Ronald F. Aiello 					09/13/04
d. NRC Supervisor (*)	Michael E. Enaytes 					9/21/04
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.						

Facility: H.B. Robinson		Date of Exam: 08/27/04		Exam Level: SRO		
Item Description	Initials					
	a	b	c			
2. Clean answer sheets copied before grading	TCK	N/A	RFA			
2. Answer key changes and question deletions justified and documented	N/A	N/A	N/A			
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	TCK	N/A	RFA			
4. Grading for all borderline cases (80 +/- 2% overall and 70 +/- 4% on the SRO-only) reviewed in detail	N/A	N/A	N/A			
5. All other failing examinations checked to ensure that grades are justified	N/A	N/A	N/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	TCK	N/A	RFA			
		Printed Name / Signature		Date		
a. Grader	Timothy C. Kolb			09/13/04		
b. Facility Reviewer(*)	N/A			N/A		
c. NRC Chief Examiner (*)	Ronald F. Aiello			09/13/04		
d. NRC Supervisor (*)	M.E. Ernest			9/21/04		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.						

Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	09/13/04
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	NA
3. Operating tests graded by NRC examiners	09/15/04
4. NRC Chief examiner review of written exam and operating test grading completed	rfa(tck) 09/15/04 rfa(dsm) 09/27/04
5. Responsible supervisor review completed	09/28/04
6. Management (licensing official) review completed	09/28/04
7. License and denial letters mailed	10-1-2004
8. Facility notified of results	09/28/04
9. Examination report issued (refer to NRC MC 0612)	10-5-2004
10. Reference material returned after final resolution of any appeals	N/A



Serial: RNP-RA/04-0072

JUN 11 2004

Mr. Luis A. Reyes
Regional Administrator
U. S. Nuclear Regulatory Commission - Region II
Sam Nunn Atlanta Federal Center
61 Forsyth Street S.W., Suite 23T85
Atlanta, Georgia 30303-8931

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261/LICENSE NO. DPR-23

REACTOR AND SENIOR REACTOR OPERATOR INITIAL EXAMINATION OUTLINES

Dear Mr. Reyes:

In response to NRC letter dated April 26, 2004, Progress Energy Carolinas, Inc. (PEC), also known as Carolina Power and Light Company, H. B. Robinson Steam Electric Plant (HBRSEP), Unit No. 2, has submitted the requested examination outlines to your staff. The reactor and senior reactor operator initial examination outlines were mailed directly to Mr. Ron Aiello on June 2, 2004.

If you have any questions concerning this matter, please contact Mr. C. T. Baucom.

Sincerely,

A handwritten signature in black ink that reads 'Jan F. Lucas'.

Jan F. Lucas

Manager - Support Services - Nuclear

JFL/cac

c: Document Control Desk
NRC Resident Inspector, HBRSEP
Mr. C. P. Patel, NRC, NRR
Mr. M. E. Ernstes, NRC, Region II

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