

Facility: <u>CATAWBA</u>		Date of Examination: <u>2014</u>
Developed by: Written - Facility <input checked="" type="checkbox"/> NRC <input type="checkbox"/> // Operating - Facility <input checked="" type="checkbox"/> NRC <input type="checkbox"/>		
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	MB
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	MB
-120	3. Facility contact briefed on security and other requirements (C.2.c)	MB
-120	4. Corporate notification letter sent (C.2.d)	MB
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 3)]	MB
{-75}	6. Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)	MB
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	MB
{-45}	8. Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6, and any Form ES-201-3 updates), and reference materials due (C.1.e, f, g and h; C.3.d)	MB
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	MB
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	MB
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	MB
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	MB
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	MB
-7	14. Final applications reviewed; 1 or 2 (if >10) applications audited to confirm qualifications / eligibility; and examination approval and waiver letters sent (C.2.i; Attachment 5; ES-202, C.2.e; ES-204)	MB
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	MB
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	MB
<p>* Target dates are generally based on facility-prepared examinations and are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.</p> <p>[Applies only] {Does not apply} to examinations prepared by the NRC.</p>		

Facility: <u>Catawba Nuclear Station (operating test)</u>		Date of Examination: <u>05/19/2014</u>		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	N/A	N/A	N/A
	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.	N/A	N/A	N/A
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	N/A	N/A	N/A
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	N/A	N/A	N/A
2. S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	N/A	EPH	G-C N/A
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and that scenarios will not be repeated on subsequent days.	N/A	EPH	G-C N/A
	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.	N/A	EPH	G-C N/A
3. W I T	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form (3) no tasks are duplicated from the applicants' audit test(s) (4) the number of new or modified tasks meets or exceeds the minimums specified on the form (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.	N/A	EPH	G-C N/A
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form (2) at least one task is new or significantly modified (3) no more than one task is repeated from the last two NRC licensing examinations	N/A	EPH	G-C N/A
	c. 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.	N/A	EPH	G-C N/A
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	N/A	EPH	G-C N/A
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	N/A	EPH	G-C N/A
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	N/A	EPH	G-C N/A
	d. Check for duplication and overlap among exam sections.	N/A	EPH	G-C N/A
	e. Check the entire exam for balance of coverage.	N/A	EPH	G-C N/A
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	N/A	EPH	G-C N/A
a. Author <u>Daniel Hensley</u>		Printed Name/Signature <u>Daniel Hensley</u>		Date <u>5/7/14</u>
b. Facility Reviewer (*) <u>Eric Madsen</u>		<u>Eric Madsen</u>		<u>5/7/14</u>
c. NRC Chief Examiner (#) <u>MARK A. BATES / Mark A. Bates</u>		<u>GARY CALLAWAY</u>		<u>5/7/14</u>
d. NRC Supervisor <u>Eugene Conthrie</u>		<u>Eugene Conthrie</u>		<u>5/9/14</u>
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines				

Facility: <u>Catawba (WRITTEN Exam)</u>		Date of Examination:		
Item	Task Description	Initials		
		a	b*	ch
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
	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.	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
2. S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.			
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and that scenarios will not be repeated on subsequent days.		N/A	
	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.			
3. W / T	a. Verify that the systems walk-through outline meets the criteria specified on Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form (3) no tasks are duplicated from the applicants' audit test(s) (4) the number of new or modified tasks meets or exceeds the minimums specified on the form (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.		N/A	
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form (2) at least one task is new or significantly modified (3) no more than one task is repeated from the last two NRC licensing examinations			
	c. 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.	N/A	N/A	N/A
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
	d. Check for duplication and overlap among exam sections.	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
	e. Check the entire exam for balance of coverage.	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	<i>MM</i>	N/A	<i>CE</i> <i>MB</i>
a. Author <u>MICHAEL MEERS</u> Printed Name Signature <u>Michael R. Meers</u>		Date <u>05/07/2014</u>		
b. Facility Reviewer (*) <u>N/A</u>		Date <u>N/A</u>		
c. NRC Chief Examiner (#) <u>MARK A. BATES</u> <u>Mark A. Bates</u> <u>GARY CALLAWAY</u> <u>Gary Callaway</u>		Date <u>5/7/2014</u>		
d. NRC Supervisor <u>Eugene C. Turner</u> <u>Eugene C. Turner</u>		Date <u>5/9/14</u>		
Note: * Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. Not applicable for NRC-prepared examination outlines				

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 May 2014 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of _____. 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. Darrell Hensley	Lead Exam Developer	<i>Darrell Hensley</i>	10/25/13	<i>Darrell Hensley</i>	5/29/14
2. Eric R. Masson	Exam Team Supervisor	<i>Eric R. Masson</i>	10/25/13	<i>Eric R. Masson</i>	5/29/14
3. Eusty Miller	Line Support	<i>Eusty Miller</i>	12/8/13	<i>Eusty Miller</i>	5/29/14
4. Richard Miller	OTW / Oversight	<i>Richard Miller</i>	12/8/13	<i>Richard Miller</i>	5/30/14
5. Chris Miller	Line Support	<i>Chris Miller</i>	11/21/14	<i>Chris Miller</i>	5/29/14
6. Amy Backs	Sim Support	<i>Amy Backs</i>	11/21/14	<i>Amy Backs</i>	6-1-14
7. Alvin Kinley	Sim Support	<i>Alvin Kinley</i>	11/3/14	<i>Alvin Kinley</i>	5-21-14
8. Gale Wood	Sim Support	<i>Gale Wood</i>	11/11/14	<i>Gale Wood</i>	5/20/14
9. Gary Davies	Sim Support	<i>Gary Davies</i>	12/01/14	<i>Gary Davies</i>	5/20/14
10. Ross Cook	Sim Support	<i>Ross Cook</i>	1-21-14	<i>Ross Cook</i>	6/23/14
11. Clark Fletcher	MNS Exam Team	<i>Clark Fletcher</i>	1-22-14	<i>Clark Fletcher</i>	4/17/14
12. Wiley Kilete	MNS Exam Team	<i>Wiley Kilete</i>	1/22/14	<i>Wiley Kilete</i>	7/11/14
13. Matt Parker	RD / Exam Validation	<i>Matt Parker</i>	01-28-14	<i>Matt Parker</i>	05-30-14
14. Pete Bravley	RD / Exam Validation	<i>Pete Bravley</i>	01-28-14	<i>Pete Bravley</i>	05-30-14
15. Doug Gater	SDS / Exam Validation	<i>Doug Gater</i>	01/28/14	<i>Doug Gater</i>	02/18/14

NOTES:

1. Pre-Examination

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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 May 2014. 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. Vivian Murray	SRD Validator	Vivian Murray	04/30/14	per phone	8/8/14
2. MICHAEL WASSERMAN	SRD Validator	Michael Wasserman	04/30/14	MASS Rm	09/08/14
3. JOHN GLEASAT	RD Validator	John Gleasat	04/30/14	MASS Rm	09/08/14
4. James Blankensky	RD Validator	James Blankensky	04/30/14	MASS Rm	09/08/14
5. Doug Michalski	RD Validator	Doug Michalski	04/30/14	MASS Rm	09/08/14
6. Michael Bass	RD Validator	Michael Bass	04/30/14	MASS Rm	09/08/14
7. BRAD TURNER	RD Validator	Brad Turner	04/30/14	MASS Rm	09/08/14
8. PATRICK WASSERMAN	RD Validator	Patrick Wasserman	04/30/14	MASS Rm	09/08/14
9. JEFF HARTWELL	RD Validator	Jeff Hartwell	04/30/14	MASS Rm	09/08/14
10. WALTER HUMBERT	RD Validator	Walter Humbert	04/30/14	MASS Rm	09/08/14
11. GABRIEL WASHBURN	RD Validator	Gabriel Washburn	04/30/14	MASS Rm	09/08/14
12. MARK W. HAAS	RD Validator	Mark W. Haas	04/30/14	MASS Rm	09/08/14
13. DENISE DUNNELL	RD Validator	Denise Dunnell	04/30/14	MASS Rm	09/08/14
14. GLENN M. JACKSON	RD Validator	Glenn M. Jackson	04/30/14	MASS Rm	09/08/14

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of _____ as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of _____. 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. William Smith	Simulator Operator	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	06/29/14
2. Alex Hill	Reactor Operator	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	04/27/14
3. S. Store Jeremy	Reactor Operator	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	06/04/14
4. BARRY PEOPHTER	SENIOR REACTOR OPERATOR	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	06/27/14
5. Andrew Donato	Senior Reactor Operator	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	05/30/14
6. Mike Alvord	REACTOR OPERATOR	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	05/30/14
7. Nicholas Martin	Admin Support	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	05/30/14
8. Keith E. Hampton	Instructor Support	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	05/30/14
9. James E. Neel	Instructor Support	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	06/27/2014
10. Harvey W. Jansen	Admin-Support / Maintenance	<i>[Signature]</i>	04/27/14	<i>[Signature]</i>	05/29/14
11. Chad Underwood	SEO / OS INSTRUCTOR	<i>[Signature]</i>	05/22/14	<i>[Signature]</i>	05/30/14
12. James P. Davis	OS INSTRUCTOR	<i>[Signature]</i>	05/22/14	<i>[Signature]</i>	06/02/14
13. _____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____

NOTES:

**NRC EXAM
FINAL SUBMITTAL**

Facility: Catawba Nuclear Station		Date of Examination: May 2014
Examination Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>		Operating Test Number: <u>2014301</u>

Administrative Topic (See Note)	Type Code*	Describe activity to be performed
Conduct of Operations	R,D	Determine License Status G2.1.4 Knowledge of individual licensed operator responsibilities related to shift staffing, such as medical requirements, "no-solo" operation, maintenance of active license status, 10CFR55, etc.
Conduct of Operations	R,D	Calculate Boric Acid and Water Addition to FWST G2.1.25 Ability to interpret reference materials, such as graphs, curves, tables, etc.
Equipment Control	R,N	Tagout "A" KR (Recirc. Cooling Water) Pump for check valve inspection G2.2.15 Ability to determine the expected plant configuration using design and configuration control documentation, such as drawings, line-ups, tag-outs, etc.
Radiation Control	P,R	Calculate Low Pressure Service Water Discharge Flow for Radioactive Release G2.3.11 Ability to control radiation releases.
Emergency Procedures/Plan		---

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.

* Type Codes & Criteria:

(C)ontrol room, (S)imulator, or Class(R)oom

(D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes)

(N)ew or (M)odified from bank (≥ 1)

(P)revious 2 exams (≤ 1 ; randomly selected)

**NRC EXAM
FINAL SUBMITTAL**

Facility: Catawba Nuclear Station		Date of Examination: May 2014
Examination Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>		Operating Test Number: <u>2014301</u>

Administrative Topic (See Note)	Type Code*	Describe activity to be performed
Conduct of Operations	R,D	Determine License Status G2.1.4 Knowledge of individual licensed operator responsibilities related to shift staffing, such as medical requirements, "no-solo" operation, maintenance of active license status, 10CFR55, etc.
Conduct of Operations	R,D	Calculate Boric Acid and Water Addition to FWST G2.1.25 Ability to interpret reference materials, such as graphs, curves, tables, etc.
Equipment Control	R,N	Tagout 1EBC (Vital Battery) G2.2.13 Knowledge of tagging and clearance procedures.
Radiation Control	P,R	Calculate Low Pressure Service Water Discharge Flow for Radioactive Release G2.3.11 Ability to control radiation releases.
Emergency Procedures/Plan	R,M	Classify the Event, and determine Protective Action Recommendations (PAR) G2.4.44 Knowledge of emergency plan protective action recommendations

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.

* Type Codes & Criteria:

(C)ontrol room, (S)imulator, or Class(R)oom

(D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes)

(N)ew or (M)odified from bank (≥ 1)

(P)revious 2 exams (≤ 1 ; randomly selected)

NRC EXAM

Facility: Catawba Nuclear Station		Date of Examination: May 2014	
Exam Level: RO <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>		Operating Test Number: 2014301	
Control Room Systems (8 for RO); (7 for SRO-I); (2 or 3 for SRO-U, including 1 ESF)			
System / JPM Title	Type Code*	Safety Function	
a. Respond to inadvertent dilution while shutdown 004A2.06 Control/mitigate inadvertent dilution. 4.2/4.3	A,L,N,S	1	
b. Transfer the ECCS to Cold Leg Recirc 006A4.07 Operate ECCS pumps and valves 4.4/4.4	A,M,EN,L,S	2	
c. Cycle RCS PORV for periodic test 010A4.03 Operate/monitor PORV and block valves 4.0/3.8	N,L,S	3	
d. Start 1B NC (RCS) Pump 003A1.01 Parameters for operating RCP controls - vibration 2.9/2.9	A,D,L,S	4P	
e. Synchronize the Generator to the Grid 045A4.02 Monitor/operate T/G controls, including breakers. 2.7/2.6	A,N,S	4S	
f. Restoration of Offsite Power 062A4.01 Operate/monitor All breakers in the control room 3.3/3.1	N,S	6	
g. Shift Lower Containment Ventilation Units 022A4.01 Operate/monitor CCS fans 3.6/3.6	C,N	5	
h. Shift KC (CCW) Trains 008A4.01 Operate/monitor CCW indications and controls 3.3/3.1	M,S	8	
In-Plant Systems® (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)			
i. Break Main Condenser Vacuum Locally - Unit 2 045A1.06 Monitor parameters following T/G trip 3.3/3.7	P,D,E	4S	
j. Shift Main Transformer Auxiliaries 062A2.01 Operate loads that would degrade plant operation. 3.4/3.9	P,D	6	
k. Place 2A Hydrogen Analyzer in service 028A1.01 Monitor parameters for operating HRPS controls-H2 con. 3.4/3.8	D,E,L,R	5	
@ All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.			
*Type Codes	Criteria for RO / SRO-I / SRO-U		
(A)lternate path	4-6 / 4-6 / 2-3		
(C)ontrol room			
(D)irect from bank	≤ 9 / ≤ 8 / ≤ 4		
(E)mergency or abnormal in-plant	≥ 1 / ≥ 1 / ≥ 1		
(EN)gineered safety feature	- / - / ≥ 1		
(L)ow-Power / Shutdown	≥ 1 / ≥ 1 / ≥ 1		
(N)ew or (M)odified from bank including 1(A)	≥ 2 / ≥ 2 / ≥ 1		
(P)revious 2 exams	≤ 3 / ≤ 3 / ≤ 2 (randomly selected)		
(R)CA	≥ 1 / ≥ 1 / ≥ 1		
(S)imulator			

NRC EXAM

Facility: Catawba Nuclear Station		Date of Examination: May 2014	
Exam Level: RO <input type="checkbox"/> SRO-I <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>		Operating Test Number: 2014301	
Control Room Systems (8 for RO); (7 for SRO-I); (2 or 3 for SRO-U, including 1 ESF)			
System / JPM Title	Type Code*	Safety Function	
a. Respond to inadvertent dilution while shutdown 004A2.06 Control/mitigate inadvertent dilution. 4.2/4.3	A,L,N,S	1	
b. Transfer the ECCS to Cold Leg Recirc 006A4.07 Operate ECCS pumps and valves 4.4/4.4	A,M,EN,L,S	2	
c. Cycle RCS PORV for periodic test 010A4.03 Operate/monitor PORV and block valves 4.0/3.8	N,L,S	3	
d. Start 1B NC (RCS) Pump 003A1.01 Parameters for operating RCP controls - vibration 2.9/2.9	A,D,L,S	4P	
e. N/A			
f. Restoration of Offsite Power 062A4.01 Operate/monitor All breakers in the control room 3.3/3.1	N,S	6	
g. Shift Lower Containment Ventilation Units 022A4.01 Operate/monitor CCS fans 3.6/3.6	N,S	5	
h. Shift KC (CCW) Trains 008A4.01 Operate/monitor CCW indications and controls 3.3/3.1	M,S	8	
In-Plant Systems® (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)			
i. Break Main Condenser Vacuum Locally - Unit 2 045A1.06 Monitor parameters following T/G trip 3.3/3.7	P,D,E	4S	
j. Shift Main Transformer Auxiliaries 062A2.01 Operate loads that would degrade plant operation. 3.4/3.9	P,D	6	
k. Place 2A Hydrogen Analyzer in service 028A1.01 Monitor parameters for operating HRPS controls-H2 con. 3.4/3.8	D,E,L,R	5	
@ All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.			
*Type Codes	Criteria for RO / SRO-I / SRO-U		
(A)lternate path	4-6 / 4-6 / 2-3		
(C)ontrol room			
(D)irect from bank	≤ 9 / ≤ 8 / ≤ 4		
(E)mergency or abnormal in-plant	≥ 1 / ≥ 1 / ≥ 1		
(EN)gineered safety feature	- / - / ≥ 1		
(L)ow-Power / Shutdown	≥ 1 / ≥ 1 / ≥ 1		
(N)ew or (M)odified from bank including 1(A)	≥ 2 / ≥ 2 / ≥ 1		
(P)revious 2 exams	≤ 3 ≤ 3 / ≤ 2 (randomly selected)		
(R)CA	≥ 1 / ≥ 1 / ≥ 1		
(S)imulator			

NRC EXAM

Facility: Catawba Nuclear Station		Date of Examination: May 2014	
Exam Level: RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input checked="" type="checkbox"/>		Operating Test Number: 2014301	
Control Room Systems (8 for RO); (7 for SRO-I); (2 or 3 for SRO-U, including 1 ESF)			
System / JPM Title	Type Code*	Safety Function	
a. N/A			
b. Transfer the ECCS to Cold Leg Recirc 006A4.07 Operate ECCS pumps and valves 4.4/4.4	A,M,EN,L,S	2	
c. Cycle RCS PORV for periodic test 010A4.03 Operate/monitor PORV and block valves 4.0/3.8	N,L,S	3	
d. N/A			
e. N/A			
f. Restoration of Offsite Power 062A4.01 Operate/monitor All breakers in the control room 3.3/3.1	N,S	6	
g. N/A			
h. N/A			
In-Plant Systems [@] (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)			
i. Break Main Condenser Vacuum Locally - Unit 2 045A1.06 Monitor parameters following T/G trip 3.3/3.7	P,D,E	4S	
j. N/A			
k. Place 2A Hydrogen Analyzer in service 028A1.01 Monitor parameters for operating HRPS controls-H2 con. 3.4/3.8	D,E,L,R	5	
@ All RO and SRO-I control room (and in-plant) systems must be different and serve different safety functions; all 5 SRO-U systems must serve different safety functions; in-plant systems and functions may overlap those tested in the control room.			
*Type Codes	Criteria for RO / SRO-I / SRO-U		
(A)lternate path	4-6 / 4-6 / 2-3		
(C)ontrol room			
(D)irect from bank	≤ 9 / ≤ 8 / ≤ 4		
(E)mergency or abnormal in-plant	≥ 1 / ≥ 1 / ≥ 1		
(EN)gineered safety feature	- / - / ≥ 1		
(L)ow-Power / Shutdown	≥ 1 / ≥ 1 / ≥ 1		
(N)ew or (M)odified from bank including 1(A)	≥ 2 / ≥ 2 / ≥ 1		
(P)revious 2 exams	≤ 3 / ≤ 3 / ≤ 2 (randomly selected)		
(R)CA	≥ 1 / ≥ 1 / ≥ 1		
(S)imulator			

FINAL SUBMITTAL

Facility: Catawba Nuclear Station		Date of Examination: May 2014		Operating Test Number: 2014301		
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).	GH	MB	GH	MB	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	GH	MB	GH	MB	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	GH	MB	GH	MB	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	GH	MB	GH	MB	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	GH	MB	GH	MB	
2. Walk-Through Criteria			a	b*	c#	
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 operationally important 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 	GH	MB	GH	MB	
b.	Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.	GH	MB	GH	MB	
3. Simulator Criteria			a	b*	c#	
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.			GH	MB	GH	MB
<div style="display: flex; justify-content: space-between;"> <div> <p>Printed Name / Signature</p> <p>a. Author <u>Darrell D. Hensley</u></p> <p>b. Facility Reviewer(*) <u>Walter L. Hunnicutt</u></p> <p>c. NRC Chief Examiner (#) <u>MARKA. BATES / Mark A. Bates</u></p> <p>d. NRC Supervisor <u>Eugene Guthrie</u></p> </div> <div> <p>Date</p> <p><u>5/1/14</u></p> <p><u>05/01/14</u></p> <p><u>3/6/2014</u></p> <p><u>5/7/2014</u></p> <p><u>5/9/14</u></p> </div> </div>						
<p>NOTE: * The facility signature is not applicable for NRC-developed tests.</p> <p># Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.</p>						

FINAL SUBMITTAL

Facility: Catawba Nuclear Station Date of Exam: 05/14 Scenario Numbers: 1 / 2 / 3 / 4 / 5 Operating Test No.: 2014301					
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.	RA	W	GWC MB	
2.	The scenarios consist mostly of related events.	RA	W	GWC MB	
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) 	RA	W	GWC MB	
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.	RA	W	GWC MB	
5.	The events are valid with regard to physics and thermodynamics.	RA	W	GWC MB	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	RA	W	GWC MB	
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	W	GWC MB	
8.	The simulator modeling is not altered.	RA	W	GWC MB	
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the referenced plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	RA	W	GWC MB	
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.	RA	W	GWC MB	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	RA	W	GWC MB	
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).	RA	W	GWC MB	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	RA	W	GWC MB	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes			
1.	Total malfunctions (5-8)	7/7/8/6/8	RA	W	GWC MB
2.	Malfunctions after EOP entry (1-2)	2/2/2/1/2	RA	W	GWC MB
3.	Abnormal events (2-4)	4/3/4/4/4	RA	W	GWC MB
4.	Major transients (1-2)	1/1/1/1/1	RA	W	GWC MB
5.	EOPs entered/requiring substantive actions (1-2)	2/2/2/2/2	RA	W	GWC MB
6.	EOP contingencies requiring substantive actions (0-2)	1/1/1/1/1	RA	W	GWC MB
7.	Critical tasks (2-3)	3/4/3/6/0	RA	W	GWC MB

[illegible]

[illegible]**Instructions:**

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
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 1-for-1 basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility: Catawba		Date of Examination: May 2014					Operating Test No.: 2014301									
Competencies	RO X SRO-I SRO-U					RO SRO-I X SRO-U					RO SRO-I SRO-U X					
	SCENARIO					SCENARIO					SCENARIO					
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5	
	Interpret/Diagnose Events and Conditions	3456 789	2345 67	2345 6789	2345 678	2345 6789	34567 89	2345 67	2345 6789	2345 678	2345 6789	3456 789	2345 67	2345 6789	2345 678	
Comply With and Use Procedures (1)	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	
Operate Control Boards (2)	ALL	1234 578	1234 5689	1234 78	1246 89											
Communicate and Interact	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	
Demonstrate Supervisory Ability (3)						ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	
Comply With and Use Tech. Specs. (3)						56	34	345	23	35	56	34	345	23	35	
Notes: (1)Includes Technical Specification compliance for an RO. (2)Optional for an SRO-U. (3)Only applicable to SROs.																

Instructions:

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

FINAL SAMPLE PLAN IS A COMBINATION OF DRAFT SAMPLE PLAN AND ES-401-4.

**Catawba Nuclear Station Initial NRC License Exam
May 2014
FINAL SUBMITTAL**

Tier / Group	Randomly Selected K/A	Reason for Rejection
RO Exam		
1 / 2	067AA1.01	Could not write a discriminating and operationally valid question. Received replacement KA from Chief Examiner: 067AA1.05
2 / 1	064K2.02	The only electrically powered fuel oil pump associated with D/G is the fuel oil booster pump, which is operated only by maintenance personnel. Chief Examiner supplied the following replacement KA: 064K2.01
SRO Exam		
1 / 2	028AG2.2.12	Not feasible to develop an SRO only question that meets both parts of the KA. Per direction from the Chief Examiner, a replacement KA was randomly selected, with the following result: 028AG2.2.36
2 / 2	071A2.01	Extremely challenging to develop an SRO only question. Chief Examiner agreed and supplied the following replacement: 071A2.02
2 / 2	015G2.1.31	Impractical to develop an operationally valid question at the SRO only level. Chief Examiner provided the following replacement: 015G2.1.23.

Facility: Catawba Nuclear Station		Date of Exam: May 2014		Exam Level: RO X SRO X		
FINAL SUBMITTAL				Initial		
Item Description				a	b*	c*
1. Questions and answers are technically accurate and applicable to the facility.				DA	WM	OS MB
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available..				DA	WM	OS MB
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401				DA	WM	OS MB
4. The sampling process was random and systematic (If more than 4 RO or 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL program office).				DA	WM	OS MB
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 <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or ___ other (explain)				DA	WM	OS MB
6. Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.		Bank	Modified	New		
		34% / 12%	9% / 24%	57% / 64 %	DA	WM
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			
		44% / 28%	56% / 72%		DA	WM
8. References/handouts provided do not give away answers or aid in the elimination of distractors.				DA	WM	OS MB
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.				DA	WM	OS MB
10. Question psychometric quality and format meet the guidelines in ES Appendix B.				DA	WM	OS MB
11. The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with the value on the cover sheet.				DA	WM	OS MB
<p>Printed Name / Signature</p> <p>a. Author <u>Darrell D. Hensley</u> <i>Darrell D. Hensley</i></p> <p>b. Facility Reviewer (*) <u>Walter L. Hunnicutt</u> <i>Walter L. Hunnicutt</i></p> <p>c. NRC Chief Examiner (#) <u>MARK H. BATES / Mark H. Bates</u> <i>Mark H. Bates</i></p> <p>d. NRC Regional Supervisor <u>Eugene Gutierrez</u> <i>Eugene Gutierrez</i></p> <p>CHIEF WRITER INSTRUCTION</p>						
<p>Date</p> <p><u>5/1/14</u></p> <p><u>5/1/14</u></p> <p><u>5/1/14</u></p> <p><u>5/9/14</u></p>						
<p>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.</p>						

[illegible]

[illegible]

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
13	H	5													S	Are the operators really expected to know the relationship between trip units and channels from memory? Q Sat.
14	H	4													S	
15	H	3													E S	The statement “required actions for mitigating any adverse parameter trend” seems vague and open-ended. Since it is not credible that anyone would think that rising RCS pressure and PZR level are “adverse parameter trends”, the question clearly means, “what do I need to do to stop the FWST from depleting?” If I think the break is not isolated , then I will continue to try to isolate the leak (c and d close additional valves). But If think that the break is isolated then B is not credible , since it basically says that doing nothing will stop the loss of FWST inventory. Q now Sat.
16	L	3													S	
17	L	2													S	
18	L	3													S	
19	H	3													E S	The maximum time allowed to complete the required action of TS 3.1.4 is 5 days. Suggest: All required actions from TS 3.1.4 will be complete if RCCA H-8 is realigned within . . . Q now Sat.
20	H	3													S	Have the licensee explain the third bullet. The current wording is confusing, but it may just a lack of understanding on my part. Q Sat.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only			
21	H	3													E S	<p>The current Catawba Unit 1 TS lists P-6 in units of amps, but the footnote says "The $\geq 6E-11$ amp Allowable Value and the 1 E-1 0 amp NOMINAL TRIP SETPOINT value apply to the Westinghouse-supplied compensated ion chamber Intermediate Range neutron detectors. The compensated ion chamber neutron detectors are being replaced with Thermo Scientific-supplied fission chamber neutron detectors. The $\geq 6.6E-6\%$ RTP Allowable Value and the 1 E-5% RTP NOMINAL TRIP SETPOINT value apply to the replacement fission chamber Intermediate Range neutron detectors.</p> <p>Is this MOD complete?</p> <p>See Q22 and evaluate for overlap. Discuss with licensee.</p> <p>O/L OK.</p>
22	H	3													E S	<p>It seems that this has overlap with Q. 22. If I do not know how P-6 affects the source range I will miss both of these questions.</p> <p>See Q21 and evaluate for overlap. Discuss with licensee.</p> <p>O/L OK.</p>
23	H	3													U S	<p>I do not have to know anything about Catawba area radiation alarms or the high flux at shutdown alarm to eliminate A and B. With a dropped fuel assembly and observed bubbles, one could never eliminate the possibility of an area rad alarm. Any answer that excludes this is not credible.</p> <p>Q now Sat.</p>
24	H	3													S	
25	H	3													S	
26	H	3													S	
27	H	3													E S	<p>Knowledge of entry conditions for yellow path procedures is SRO only knowledge. Is this really RO knowledge?</p> <p>Q now Sat.</p>

[illegible]

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6.	7.	8.	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q=K/A	SRO Only				B/M/N
39	H	3														E S	Evidently 1EADA/1VADA means 1EADA AND 1VADA. This is not evident from the question, I had to read the distractor analysis to figure this out. Also, at many Westinghouse plants, the need for P-4 to be met to reset SI is not a function of HOW SI was initiated, but whether an automatic SI signal is currently present. In other words, SI may be able to be reset following an automatic SI if the initiating signal were no longer present. Please verify that the question is technically correct in this regard. Q now Sat.
40	L	5														S	Is this memory level knowledge for an RO at Catawba? Addressed.
41	H	2														E S	A TS is not “entered”. A required action is entered. Entering a TS has no defined meaning (it is slang, at best). Consider a wording similar to : LCO 3.6.12 (Ice Bed) is (met or not met). Ice bed operability is based in part on (ice condenser door position or ice bed temperature). Q now Sat.
42	L	2														E S	To help plausibility of distractors. The time requirement part would be better worded as Is or Is Not required to be restored within 1 hour. This gets away from the 4 hour requirement, which an applicant may know is beyond what is required from memory. Q now Sat.
43	L	3														S	
44	H	3														E S	Isn't it true that the main steam lines are normally warmed with drains open, and an excessive cooldown is prevented by throttling the MSIV bypass valves? It seems more credible to me to suppose that the operator inadvertently fully opens the MSIV bypass valves. Q now Sat.

[illegible]

[illegible]

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B/M/N	7. U/E/S	8. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only			
75	L	2													S	
76	H	3													U S	One success path in FR-C.1 is restoration of high head ECCS. If this is the success path, there is no way to know RCS pressure at the time of restoration. There is not enough information in the stem to eliminate high head restoration as a success path. Q now Sat.
77	H	4													S	
78	H	3													S	
79	H	3													S	
80	H	3													S	
81	H	3													S	
82	H	3													U S	This does not seem to be SRO only. I do not see the link to TS. This question does not appear to test TS or TS bases. Q now Sat.
83	H	3													U S	This question only addresses TS "above the line" issues. Whether a TSAIL entry is active or for tracking is another way to say that the LCO is met or not met. With a failed PZR level instrument, the RO should know that 3.3.1 is not met and 3.4.9 is met. Q now Sat.
84	H	3													S	
85	H	3													S	
86	H	3													E S	Explain further why this may be SRO. The justification says that this is linked to TS, but the screening block for SRO only does not appear to be met. Is this an SRO-only task at Catawba? If so, place that in the justification with the appropriate 55.43 link. Q now Sat.

[illegible]

Facility:		Date of Exam:		Exam Level: RO <input type="checkbox"/> SRO <input type="checkbox"/>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	MB	N/A	MB		
2. Answer key changes and question deletions justified and documented (None)	MB	N/A	MB		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	MB	N/A	MB		
4. Grading for all borderline cases (80 \pm 2% overall and 70 or 80, as applicable, \pm 4% on the SRO-only) reviewed in detail (none)	MB	N/A	MB		
5. All other failing examinations checked to ensure that grades are justified (none)	MB	N/A	MB		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	MB	N/A	MB		
Printed Name/Signature		Date			
a. Grader	MARK A. BATES / Mark A. Bates	6/9/14			
b. Facility Reviewer(*)	N/A	N/A			
c. NRC Chief Examiner (*)	Phillip G. Capelant / P. Capelant	6/9/14			
d. NRC Supervisor (*)	WALCOAT T. WIDENSON / Walcoat T. Widenon	6/11/2014			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					