

Facility: <u>CENRA</u>		Date of Examination: <u>12/1 - 12/12</u>
Examinations Developed by: <u>Facility</u> / NRC (circle one)		<u>2014</u>
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	<i>[Signature]</i>
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	<i>[Signature]</i>
-120	3. Facility contact briefed on security and other requirements (C.2.c)	<i>[Signature]</i>
-120	4. Corporate notification letter sent (C.2.d)	<i>[Signature]</i>
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	<i>[Signature]</i>
-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)	<i>[Signature]</i>
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	<i>[Signature]</i>
-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 reference materials due (C.1.e, f, g and h; C.3.d)	<i>[Signature]</i>
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	<i>[Signature]</i>
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	<i>[Signature]</i>
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	<i>[Signature]</i>
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	<i>[Signature]</i>
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	<i>[Signature]</i>
-7	14. Final applications reviewed; examination approval and waiver letters sent (C.2.i; Attachment 4; ES-204)	<i>[Signature]</i>
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	<i>[Signature]</i>
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	<i>[Signature]</i>
<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>		

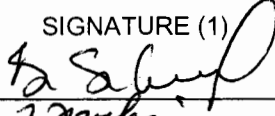
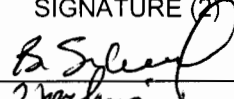
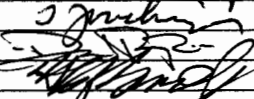
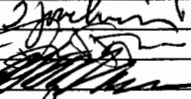
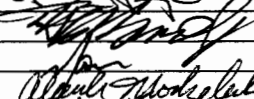
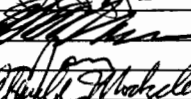
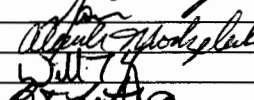
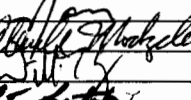
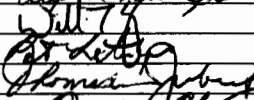
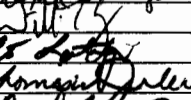
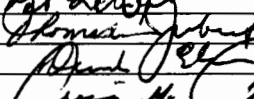
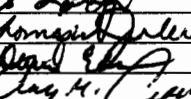
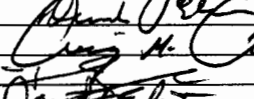
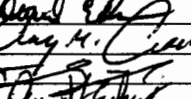
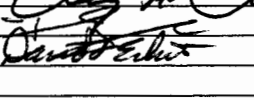
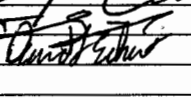
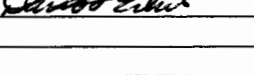
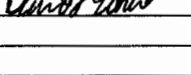






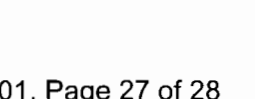

Facility:		Date of Examination:		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	RL	WJ	2
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	RL	WJ	2
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	RL	WJ	2
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	RL	WJ	2
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.	RL	WJ	2
	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.	RL	WJ	2
	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.	RL	WJ	2
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.	RL	WJ	2
	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	RL	WJ	2
	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.	RL	WJ	2
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.	RL	WJ	2
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	RL	WJ	2
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	RL	WJ	2
	d. Check for duplication and overlap among exam sections.	RL	WJ	2
	e. Check the entire exam for balance of coverage.	RL	WJ	2
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	RL	WJ	2
a. Author b. Facility Reviewer (*) c. NRC Chief Examiner (#) d. NRC Supervisor		Printed Name/Signature Patrick J. Landers / P.J. Landers Kyle G. Garnish / Kyle Garnish Donald E. Jackson / Donald E. Jackson		Date 9-3-14 9-4-14 9-8-14 9-17-14
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines				

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 12/1/14 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 12/1-12/14/14. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. BOB SCHNALL	CPS/SRO		10/9/14		12/19/14	
2. Thomas Jurkiewicz	SM/SRO		10/14/14		12/19/14	
3. DAN POTWIN	INSTRUCTOR		10/16/14		12/19/14	
4. Herb Marshall	INSTRUCTOR		11/18/14		12/16/14	
5. Scott James	RP/Dose Adjustment		11/24/14		12/17/14	
6. ALAN MODZELEWSKI	INSTRUCTOR / ADMIN		12/1/14		12/17/14	
7. WILLIAM ELY	INSTRUCTOR		12/1/14		12/17/14	
8. PAT LATIMER	IT		12/3/14		12/17/14	
9. Thomas Robert	CPS/JOINT INST.		12/3/14		12/17/14	
10. DAVID EKEREN	IT SUPPORT		12/3/14		12/17/14	
11. Craig Randall	IT Support		12/3/14		12/17/14	
12. Tom Siglin	INSTRUCTOR		12/15/14		12/17/14	
13. David Eckert	INSTRUCTOR		12/15/14		12/17/14	
14.						
15.						

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. T. RICH MEGILL	TMI 1LT EXAM AUTHOR		9/18/14	PER EMAIL	12/17/14
2. John Whitman	Reactor Operator		9/26/14		12/17/14
3. DAREN BLANKENSHIP	CRS		9/26/14		12/17/14
4. DALE BISAILLON	STA		9/26/14		12/17/14
5. Dean Duffy	RO		9/26/14		12/17/14
6. Aaron Forsha	DUKE NRC EXAM SPEC		9/25/14	PER TELECOM	12/19/14
7. STEVEN DENNIS	HOPE CREEK EXAM WRITER		9/25/14		12/19/14
8. Michael A. Randaan	INPO		9/30/14	PER EMAIL	12/19/14
9. Anthony M. Scizze	STA		10/1/14		
10. Michael Jacamp	RO		10/2/14		
11. William Ward	OTOM		10/7/14	PER EMAIL	12/17/14
12. Ken Mosker	Exam Writer		10/6/14		12/16/14
13. David Kainwater	RO		10/13/14		12/17/14
14. DAN DEMON	SM		10/13/14		12/17/14
15. Vince Farber	C/S		10/10/14		12/17/14

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. ERNIE TAORMINA	SIA ROTATIONAL / NCS ASSESSOR	<i>[Signature]</i>	9/5/14	<i>[Signature]</i>	12/17/14	
2. JOHN LIST	SRO	<i>[Signature]</i>	9/5/14	<i>[Signature]</i>	12/17/14	
3. Don Dean	ops Shift Supervisor	<i>[Signature]</i>	9/5/14	<i>[Signature]</i>	12/17/14	
4. Deborah Cullen	ADMIN ASST	<i>[Signature]</i>	9/12/14	<i>[Signature]</i>	12/17/14	
5. Roy V. Gillow	SME Inst.	<i>[Signature]</i>	09/18/14	<i>[Signature]</i>	12/17/2014	
6. Russ Bender	CPS IER	<i>[Signature]</i>	9/18/14	<i>[Signature]</i>		
7. DALE HILCHERT	OPS INSTRUCTOR	<i>[Signature]</i>	9/18/14	<i>[Signature]</i>	12/19/14	
8. Scott Dixon	SRO	<i>[Signature]</i>	9/19/14			
9. JASON MILLER	SRO	<i>[Signature]</i>	9/19/14			
10. STEVE SNIDER	RO	<i>[Signature]</i>	9/19/14			
11. DICK CHITWOOD	SRO	<i>[Signature]</i>	9/19/14			
12. ERIC R. MATS	RO	<i>[Signature]</i>	9/19/14			
13. Keith Counts	RO	<i>[Signature]</i>	9/24/14	<i>[Signature]</i>	12/19/14	
14. Brendon Wade	SRO	<i>[Signature]</i>	9-25-14			
15. Michael Slaby	SRO/SM	<i>[Signature]</i>	9/26/14	<i>[Signature]</i>	12/17/14	

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. Pat Lander	LEA	P.T. Lander	5-9-14	PER TELECOM	12-19-14
2. DAN HUBBET	SIMULATOR TEST	Dan Hubbet	5-15-14	Dan Hubbet	12-17-14
3. Robert Harper	POTS	Robert Harper	6-9-14	PER TELECOM	12-19-14
4. William Dobbins	Simulator Software	W.D. Dobbins	6-9-14	W.D. Dobbins	12-17-14
5. JARET BRZEZNIAK	Sim Software	Jaret Brzezniak	6/9/14	Jaret Brzezniak	12/17/14
6. Charles Millard	Fleet Training	Charles Millard	6/10/14	PER EMAIL	12/17/14
7. David LAZAROVY	Exam Developer	David Lazarovy	8-1-14	Per Tel com	12/19/14
8. BARBARA ECKL	Admin Support	Barbara Eckl	8/13/14	Barbara Eckl	12-17-14
9. SCOTT REED	EXAM AUTHOR	Scott Reed	8/15/14	Scott Reed	12/17/14
10. BENJAMIN CHANG	CRS/STA	Benjamin Chang	8/29/14		
11. BOB SCARROTT	HCO	Bob Scarrott	8/27/14		
12. Mike Russell	OSS / Validator	Mike Russell	8/27/14		
13. HAROLD SMITH	RO	Harold Smith	8/28/14		
14. DON DETTMAN	SRO Reviewer	Don Dettman	8/29/14	Don Dettman	12/16/14
15. Kyle Carnish	SMOS / FACILITY REVIEWER	Kyle Carnish	9/3/14	Kyle Carnish	12/17/14

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Reed, Scott:(GenCo-Nuc)

From: Millard, Charles D:(GenCo-Nuc)
Sent: Wednesday, December 17, 2014 11:57 AM
To: Reed, Scott:(GenCo-Nuc)
Subject: RE: Ginna NRC exam security

Preliminary results?

O have complied with the examination security agreement

Chuck Millard
Operations Training Manager
Peach Bottom Atomic Power Station
717-456-3385

From: Reed, Scott:(GenCo-Nuc)
Sent: Wednesday, December 17, 2014 11:03 AM
To: Millard, Charles D:(GenCo-Nuc)
Subject: Ginna NRC exam security

Chuck,

We have concluded our Ginna ILT exam and do not require exam security anymore, please sign and return or acknowledge by this email that you have complied with this agreement.

Thanks,

Scott Reed
Ginna Nuclear Plant
Lead Exam Author
585-771-5414

1. Pre-Examination

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	<u>Pat Linder</u>	<u>LEA</u>	<u>Pat Linder</u>	<u>5-9-14</u>			
2.	<u>Adam Hudnut</u>	<u>SIMULATOR BOOTH</u>	<u>Adam Hudnut</u>	<u>5-15-14</u>			
3.	<u>Robert Horpe</u>	<u>Pets</u>	<u>Robert Horpe</u>	<u>6-9-14</u>			
4.	<u>William Dobbins</u>	<u>Simulator Software</u>	<u>W. Dobbins</u>	<u>6-9-14</u>			
5.	<u>TARET Brzezina</u>	<u>Sim Software</u>	<u>TARET Brzezina</u>	<u>6/9/14</u>			
6.	<u>Charles Millard</u>	<u>Fleet Training</u>	<u>Charles Millard</u>	<u>6/10/14</u>			
7.	<u>David LAZARDY</u>	<u>Exam Developer</u>	<u>David Lazardy</u>	<u>8/1/14</u>	<u>[Signature]</u>	<u>12/17/14</u>	
8.							
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Reed, Scott:(GenCo-Nuc)

From: Ward, William J:(GenCo-Nuc)
Sent: Wednesday, December 17, 2014 12:00 PM
To: Reed, Scott:(GenCo-Nuc)
Subject: RE: ES-201

I acknowledge that I have complied. Please sign me off per e-mail.

Bill Ward
Exelon Nuclear - Kennett Square
Operations Training Program Manager
610-765-5825 - Office
610-233-6406 - Cell



From: Reed, Scott:(GenCo-Nuc)
Sent: Wednesday, December 17, 2014 11:07 AM
To: Ward, William J:(GenCo-Nuc)
Subject: ES-201

Bill,

We have concluded our Ginna ILT exam and do not require exam security anymore, please sign (Line 11) and return or acknowledge by this email that you have complied with this agreement.

Thanks,



Scott Reed
Ginna Nuclear Plant
585-771-5414

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 12/1/2014 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 12/1-12/6/14. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	T. RICH MEGILL	TMI ILT EXAM AUTHORITY		9/15/14		12/1/14	
2.							
3.							
4.							
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12.							
13.							
14.							
15.							

NOTES:

Reed, Scott:(GenCo-Nuc)

From: Megill, Thomas Richard:(GenCo-Nuc)
Sent: Wednesday, December 17, 2014 1:47 PM
To: Reed, Scott:(GenCo-Nuc)
Subject: examination security agreement
Attachments: Important Message from Exelon.pdf

Scott,

Hope all went well. Sorry I couldn't help much.

Rich

-----Original Message-----

From: PRT17880C@exelonds.com [<mailto:PRT17880C@exelonds.com>]
Sent: Wednesday, December 17, 2014 1:42 PM
To: Megill, Thomas Richard:(GenCo-Nuc)
Subject: Important Message from Exelon

Please open the attached document. It was scanned and sent to you using a Xerox Multifunction Device.

Sent by: Guest [PRT17880C@exelonds.com]
Number of Images: 1
Attachment File Type: pdf, Multi-Page

Multifunction Device Location: TMI-TrainingCtr-2-Rm214-cMFD
Device Name: TMI-TrainingCtr-2-Rm214-cMFD
Device Serial Number: MX4323543
Multifunction Device IP Address: 172.30.75.24

Facility:	Ginna	Date of Examination:	12/2014	Operating Test Number: N2014-301
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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).	[Signature]	[Signature]	[Signature]
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	[Signature]	[Signature]	[Signature]
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	[Signature]	[Signature]	[Signature]
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	[Signature]	[Signature]	[Signature]
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	[Signature]	[Signature]	[Signature]

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 * 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 	[Signature]	[Signature]	[Signature]
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.	[Signature]	[Signature]	[Signature]

3. SIMULATOR CRITERIA		-	-	-
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.		[Signature]	[Signature]	[Signature]

	Printed Name / Signature	Date
a. Author	SCOTT A. REED / [Signature]	10/20/2014
b. Facility Reviewer (*)	Kyle G. Garrish / [Signature]	10/20/2014
c. NRC Chief Examiner (#)	J. DANON / [Signature]	11/12/2014
d. NRC Supervisor	Donald Jackson / [Signature]	11/25/14

NOTE: * The facility signature is not applicable for NRC-developed tests.

Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.

Facility: Ginna Date of Exam: 12/2014 Scenario Numbers: 1, 2, 3 Operating Test No.: N2014-301

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.			GA	W	2	
2.	The scenarios consist mostly of related events.			GA	W	2	
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) 			GA	W	2	
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.			GA	W	2	
5.	The events are valid with regard to physics and thermodynamics.			GA	W	2	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			GA	W	2	
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.			GA	W	2	
8.	The simulator modeling is not altered.			GA	W	2	
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.			GA	W	2	
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.			GA	W	2	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			GA	W	2	
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).			GA	W	2	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			GA	W	2	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)				Actual Attributes			
				1	2	3	
1.	Total malfunctions (5-8)			7	7	8	GA W 2
2.	Malfunctions after EOP entry (1-2)			2	2	2	GA W 2
3.	Abnormal events (2-4)			4	3	3	GA W 2
4.	Major transients (1-2)			1	1	1	GA W 2
5.	EOPs entered/requiring substantive actions (1-2)			1	1	1	GA W 2
6.	EOP contingencies requiring substantive actions (0-2)			1	2	1	GA W 2
7.	Critical tasks (2-3)			3	2	2	GA W 2

Facility: Ginna Date of Exam: 12/2014 Scenario Numbers: 1, 2, 3 Operating Test No.: N2014-301

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.			<i>Q</i>	<i>W</i>	<i>N</i>
2.	The scenarios consist mostly of related events.			<i>Q</i>	<i>W</i>	<i>N</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) 			<i>Q</i>	<i>W</i>	<i>N</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.			<i>Q</i>	<i>W</i>	<i>N</i>
5.	The events are valid with regard to physics and thermodynamics.			<i>Q</i>	<i>W</i>	<i>N</i>
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			<i>Q</i>	<i>W</i>	<i>N</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.			<i>Q</i>	<i>W</i>	<i>N</i>
8.	The simulator modeling is not altered.			<i>Q</i>	<i>W</i>	<i>N</i>
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.			<i>Q</i>	<i>W</i>	<i>N</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.			<i>Q</i>	<i>W</i>	<i>N</i>
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			<i>Q</i>	<i>W</i>	<i>N</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).			<i>Q</i>	<i>W</i>	<i>N</i>
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			<i>Q</i>	<i>W</i>	<i>N</i>
Target Quantitative Attributes (Per Scenario; See Section D.5.d)				Actual Attributes		
				1	2	3
1.	Total malfunctions (5-8)			7	7	7
2.	Malfunctions after EOP entry (1-2)			2	2	2
3.	Abnormal events (2-4)			4	3	3
4.	Major transients (1-2)			1	1	1
5.	EOPs entered/requiring substantive actions (1-2)			1	1	1
6.	EOP contingencies requiring substantive actions (0-2)			1	2	1
7.	Critical tasks (2-3)			3	2	2

Facility:	GINNA	Date of Exam:	12/2014	Scenario Numbers:	4, 5	Operating Test No.:	N2014-301
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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.			Q	W	N
2.	The scenarios consist mostly of related events.			Q	W	N
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) 			Q	W	N
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.			Q	W	N
5.	The events are valid with regard to physics and thermodynamics.			Q	W	N
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			Q	W	N
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.			Q	W	N
8.	The simulator modeling is not altered.			Q	W	N
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.			Q	W	N
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.			Q	W	N
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			Q	W	N
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).			Q	W	N
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			Q	W	N
Target Quantitative Attributes (Per Scenario; See Section D.5.d)				Actual Attributes		
				4	5	
1.	Total malfunctions (5-8)			6	7	
2.	Malfunctions after EOP entry (1-2)			1	2	
3.	Abnormal events (2-4)			3	2	
4.	Major transients (1-2)			1	1	
5.	EOPs entered/requiring substantive actions (1-2)			2	2	
6.	EOP contingencies requiring substantive actions (0-2)			0	1	
7.	Critical tasks (2-3)			2	2	

Facility:		Ginna		Date of Exam:		12/2014		Operating Test No.:		N2014-301							
A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	M I N I M U M (*)		
		N2014-301-2			N2014-301-3			N2014-301-4			N2014-301-5						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
SROI-2	RX								5					1	1	1	0
	NOR				1,4				1				2	4	1	1	1
	I/C				2,3 4,5 7,8				3,4 7				4,6 9	12	4	4	2
	MAJ				6				6				7	3	2	2	1
	TS				2,3									2	0	2	2
SROI-3	RX								5					1	1	1	0
	NOR				1,4				1				2	4	1	1	1
	I/C				2,3 4,5 7,8				3,4 7				4,6 9	12	4	4	2
	MAJ				6				6				7	3	2	2	1
	TS				2,3									2	0	2	2
SROI-4	RX											1		1	1	1	0
	NOR	3								2				2	1	1	1
	I/C	1,2 4,6 8								3,5		3,5 8		10	4	4	2
	MAJ	5								6		7		3	2	2	1
	TS	1,2 4												3	0	2	2
SROI-5	RX											1		1	1	1	0
	NOR	3								2				2	1	1	1
	I/C	1,2 4,6 8								3,5		3,5 8		10	4	4	2
	MAJ	5								6		7		3	2	2	1
	TS	1,2 4												3	0	2	2

Instructions:

- Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO additionally serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
- Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility:		Ginna		Date of Exam:		12/2014		Operating Test No.:		N2014-301							
A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	M I N I M U M (*)		
		N2014-301-2			N2014-301-3			N2014-301-4			N2014-301-5						
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
SROU-1	RX													0	1	1	0
	NOR							1,2				1,2		4	1	1	1
	I/C							3,4 5,7				3,4 5,6 8,9		10	4	4	2
	MAJ							6				7		2	2	2	1
	TS							3,4				3,4 6		5	0	2	2
SROU-2	RX													0	1	1	0
	NOR							1,2				1,2		4	1	1	1
	I/C							3,4 5,7				3,4 5,6 8,9		10	4	4	2
	MAJ							6				7		2	2	2	1
	TS							3,4				3,4 6		5	0	2	2
SROU-3	RX													0	1	1	0
	NOR							1,2				1,2		4	1	1	1
	I/C							3,4 5,7				3,4 5,6 8,9		10	4	4	2
	MAJ							6				7		2	2	2	1
	TS							3,4				3,4 6		5	0	2	2
SROI-1	RX								5					1	1	1	0
	NOR				1,4				1				2	4	1	1	1
	I/C				2,3 4,5 7,8				3,4 7				4,6 9	12	4	4	2
	MAJ				6				6				7	3	2	2	1
	TS				2,3									2	0	2	2

Instructions:

- Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO additionally serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- Reactivity manipulations may be conducted under normal or controlled abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
- Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility:		Ginna		Date of Exam:		12/2014		Operating Test No.:		N2014-301							
A P P L I C A N T	E V E N T T Y P E	Scenarios															
		N2014-301-2			N2014-301-3			N2014-301-4			N2014-301-5			T O T A L	M I N I M U M (*)		
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
SRO-6	RX											1		1	1	0	
	NOR	3								2				2	1	1	
	I/C	1,2 4,6 8								3,5		3,5 8		10	4	4	
	MAJ	5								6		7		3	2	2	
	TS	1,2 4												3	0	2	
RO-1	RX		3											1	1	0	
	NOR						1,4							2	1	1	
	I/C		1,2 6				2,3 4,5 8							8	4	4	
	MAJ		5				6							2	2	1	
	TS													0	0	2	
RO-2	RX					4								1	1	0	
	NOR			3										1	1	1	
	I/C			2,4 8		2,3 7								6	4	4	
	MAJ			5		6								2	2	1	
	TS													0	0	2	
RO-3	RX		3											1	1	0	
	NOR						1,4							2	1	1	
	I/C		1,2 6				2,3 4,5 8							8	4	4	
	MAJ		5				6							2	2	1	
	TS													0	0	2	

Instructions:

- Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO additionally serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
- Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

Facility:		Ginna		Date of Exam:		12/2014		Operating Test No.:		N2014-301							
A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	M I N I M U M (*)		
		N2014-301-2			N2014-301-3			N2014-301-4			N2014-301-5				R	I	U
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P				
RO-4	RX				4									1	1	1	0
	NOR			3										1	1	1	1
	I/C			2,4 8	2,3 7									6	4	4	2
	MAJ			5	6									2	2	2	1
	TS													0	0	2	2
RO-5	RX		3											1	1	1	0
	NOR					1,4								2	1	1	1
	I/C		1,2 6		2,3 4,5 8									8	4	4	2
	MAJ		5		6									2	2	2	1
	TS													0	0	2	2
RO-6	RX				4									1	1	1	0
	NOR			3										1	1	1	1
	I/C			2,4 8	2,3 7									6	4	4	2
	MAJ			5	6									2	2	2	1
	TS													0	0	2	2
	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

- Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an Instant SRO *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
- Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.

	<u>CRS</u>	<u>RO</u>	<u>BOP</u>
N2014-301-2			
RX		3	
NOR	3		3
I/C	1,2, 4, 6, 8	1, 2, 6	2, 4, 8
MAJ	5	5	5
TS	1, 2, 4		
N2014-301-3			
RX		4	
NOR	1, 4		1, 4
I/C	2, 3, 4, 5, 7, 8	2, 3, 7	2, 3, 4, 5, 8
MAJ	6	6	6
TS	2, 3		
N2014-301-4			
RX		5	
NOR	1, 2	1	2
I/C	3, 4, 5, 7	3, 4, 7	3, 5
MAJ	6	6	6
TS	3, 4		
N2014-301-5			
RX		1	
NOR	1, 2		2
I/C	3, 4, 5, 6, 8, 9	3, 5, 8	4, 6, 9
MAJ	7	7	7
TS	3, 4, 6		

Spare not evaluated here because it is NOT needed to develop ES-301-5.

Facility: Ginna	Date of Examination: 12/2014	Operating Test No.: N2014-301										
Competencies	APPLICANTS											
	SRO (U/I)				RO/ATC				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	1-8	1-8	1-8	1-7	1-8	1-8	1-8	1-7	1-8	1-8	1-8	1-7
Comply With and Use Procedures (1)	1-8	1-8	1-8	1-7	1-8	1-8	1-8	1-7	1-8	1-8	1-8	1-7
Operate Control Boards (2)	NA	NA	NA	NA	2,4,5,6	1,2,3,5,6,7	2,3,4,6,7	1,3,4,5,6,7	1,4,5,6,7,8	2,3,4,5,7,8	1,2,3,4,5,6,8	2,3,5,6
Communicate and Interact	1-8	1-8	1-8	1-7	1-8	1-8	1-8	1-7	1-8	1-8	1-8	1-7
Demonstrate Supervisory Ability (3)	1-8	1-8	1-8	1-7	NA	NA	NA	NA	NA	NA	NA	NA
Comply With and Use Tech. Specs. (3)	1,5	1,2,4	2,3	3,4	NA	NA	NA	NA	NA	NA	NA	NA
Notes: (1) Includes Technical Specification compliance for RO. (2) Optional for an SRO-U. (3) Only applicable to SROs.												

Instructions:

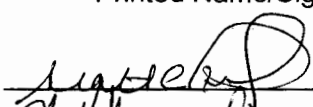
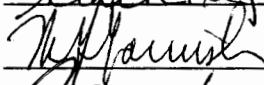
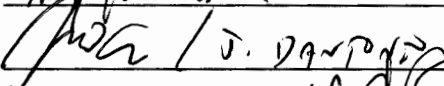
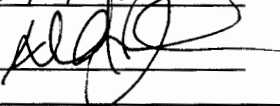
Circle the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Facility: Ginna		Date of Examination: 12/2014				Operating Test No.: N2014-301						
Competencies	APPLICANTS											
	SRO (U/I)				RO/ATC				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	5				5				5			
Interpret/Diagnose Events and Conditions	1-9				1-9				1-9			
Comply With and Use Procedures (1)	1-9				1-9				1-9			
Operate Control Boards (2)	NA				1,3,5,7,8				2,4,6,7,9			
Communicate and Interact	1-9				1-9				1-9			
Demonstrate Supervisory Ability (3)	1-9				NA				NA			
Comply With and Use Tech. Specs. (3)	3,4,6				NA				NA			
Notes: (4) Includes Technical Specification compliance for RO. (5) Optional for an SRO-U. (6) Only applicable to SROs.												

Instructions:

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

Facility: <u>GINNA</u>		Date of Exam: <u>12-2014</u>		Exam Level: RO <input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/>	
Item Description	Initial				
	a	b*	c		
1. Questions and answers are technically accurate and applicable to the facility.	<u>BR</u>	<u>MM</u>	<u>✓</u>		
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	<u>BR</u>	<u>MM</u>	<u>✓</u>		
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	<u>BR</u>	<u>MM</u>	<u>✓</u>		
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).	<u>BR</u>	<u>MM</u>	<u>✓</u>		
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input checked="" 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 type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	<u>BR</u>	<u>MM</u>	<u>✓</u>		
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 <u>29 ' 7</u>	Modified <u>30 ' 4</u>	New <u>16 ' 14</u>		
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 <u>35 ' 4</u>	C/A <u>40 ' 21</u>	<u>BR</u>		
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	<u>BR</u>	<u>MM</u>	<u>✓</u>		
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.	<u>BR</u>	<u>MM</u>	<u>✓</u>		
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	<u>BR</u>	<u>MM</u>	<u>✓</u>		
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.	<u>BR</u>	<u>MM</u>	<u>✓</u>		
Printed Name / Signature		Date			
a. Author	<u>SCOTT A. REED</u>	<u>11/18/14</u>			
b. Facility Reviewer (*)	<u>Kyle G. Carrish</u>	<u>11/26/14</u>			
c. NRC Chief Examiner (#)	<u>J. O'Hara</u>	<u>11/27/14</u>			
d. NRC Regional Supervisor	<u>Dennis Jackson</u>	<u>11/25/14</u>			
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:		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	B	W	2	
2.	Answer key changes and question deletions justified and documented	B	W	2	
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	B	W	2	
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	B	W	2	
5.	All other failing examinations checked to ensure that grades are justified	N/A	N/A	2	
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	B	W	2	
Printed Name/Signature		Date			
a. Grader		12/19/14			
b. Facility Reviewer(*)		12/19/14			
c. NRC Chief Examiner (*)		12/30/2014			
d. NRC Supervisor (*)	DONALD JACKSON 	1/12/15 8/12/15			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					