

Facility: <u>Vermont Yankee</u>		Date of Examination: <u>02/11/2014</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)	dm
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	dm
-120	3. Facility contact briefed on security and other requirements (C.2.c)	dm
-120	4. Corporate notification letter sent (C.2.d)	dm
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	n/a
{-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)	dm
{-70}	{7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)}	dm
{-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)	dm
-30	9. Preliminary license applications (NRC Form 398s) due (C.1.i; C.2.g; ES-202)	dm
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	dm
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	dm
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	dm
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	dm
-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 4; ES-202, C.2.e; ES-204)	dm
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	dm
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	dm
<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>		

1. Pre-Examination

*Master Agreement for the 2014 VYLOI upgrade Audit and NRC exams*

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Feb/March 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 Feb 10, 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. <u>DR Toegel</u>	<u>CRS</u>	<u>[Signature]</u>	<u>12-12-13</u>	<u>** BLS for DTogel</u>	<u>2-20-14</u>	
2. <u>Wayne Manning (2)</u>	<u>SM</u>	<u>[Signature]</u>	<u>1/13/14</u>	<u>[Signature]</u>	<u>2/12/14</u>	
3. <u>R.S. Casagrande</u>	<u>CRS</u>	<u>[Signature]</u>	<u>1/13/14</u>	<u>[Signature]</u>	<u>2/20/14</u>	
4. <u>JEKEITZ</u>	<u>SM</u>	<u>[Signature]</u>	<u>1/14/14</u>	<u>[Signature]</u>	<u>2/18/14</u>	
5. <u>ANDY HICKSON</u>	<u>RO</u>	<u>[Signature]</u>	<u>1/14/14</u>	<u>[Signature]</u>	<u>2/18/14</u>	
6. <u>SKELDON SHIPPEE</u>	<u>RO</u>	<u>[Signature]</u>	<u>1/14/14</u>	<u>[Signature]</u>	<u>2/18/14</u>	
7. <u>Derek Jones</u>	<u>OM</u>	<u>[Signature]</u>	<u>2/12/14</u>	<u>** BLS for DJ Jones</u>	<u>2-28-14</u>	
8. <u>THOMAS HILDRETH</u>	<u>SIM TECH</u>	<u>[Signature]</u>	<u>2/12/14</u>	<u>THOMAS HILDRETH</u>	<u>2/18/14</u>	
9. <u>James R. Paradis</u>	<u>Supt. Initial Ops Trng</u>	<u>James R. Paradis</u>	<u>2-12-14</u>	<u>James R. Paradis</u>	<u>2-19-2014</u>	
10.						
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12.						
13.						
14.						
15.						

NOTES:

*\*\* Signed off per telecon with integrity statement (post exam) stated to individual  
USF 2-20-14*

1. Pre-Examination

Master Agreement for the 2014 VY LOI Upgrade Audit And NRC Exams

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of FEB/MAR 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 6/10/2014. 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.	Brian Sturman	SR. Instructor	[Signature]	9-27-13	[Signature]	2-18-14	
2.	JOHN TAYLOR	Supt Ups Regual	[Signature]	10/16/13	[Signature]	3/13/14	
3.	Jay Davine	RO	[Signature]	11/20/13	** BLS for J. Davine	2-19-14	
4.	ALLAN BENDICK	RO	[Signature]	11/20/13	** BLS for A.B.	2-18-14	
5.	SCOTT LAMING	CAS	[Signature]	11/20/13	** BLS for S. Laming	2-19-14	
6.	Mike Ramsay	CAS	[Signature]	11/21/13	** BLS for M. Ramsay	2-18-14	
7.	John Twarog	SM	[Signature]	11/21/13	** BLS for J. Twarog	2-18-14	
8.	Steve Budzek	RO	[Signature]	11-21-13	** BLS for S. Budzek	2-20-14	
9.	Neal Jamison	SM	[Signature]	12/2/13	** BLS for N. Jamison	2-19-14	
10.	Jathan Miller	RO	[Signature]	12/4/13	** BLS for J. Miller	2-19-14	
11.	Brian Mully	CAS	[Signature]	12/4/13	** BLS for B. Mully	2-18-14	
12.	Chris Tabor	CAS	[Signature]	12/5/13	** BLS for C. Tabor	2-19-14	
13.	Dodi Emery	APG Admin	[Signature]	12/9/13	** BLS for D. Emery	2-18-14	
14.	Mike Ramsay	CAS	[Signature]	12/10/13	** BLS for M. Ramsay	2-18-14	
15.	WAYNE MANNING III	CAS	[Signature]	12-12-13	** BLS for W. Manning	2-20-14	

NOTES:

\* Allan Bendick left the company BSL 2-18-14

\*\* Signed AP per telecon with integrity statement (post exam)  
delimited to the individual, USA 2-18-14

## LICENSED OPERATOR REQUAL EXAMINATION SECURITY AGREEMENT

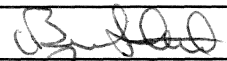
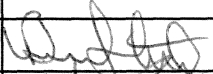
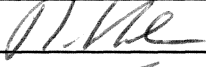



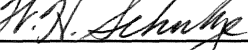
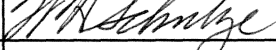




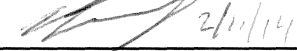

### Pre-examination

### Master agreement for 2014 VY LOI Upgrade Audit and NRC exams

I acknowledge that I have acquired specialized knowledge about the **Vermont Yankee 2014 Licensed Operator Initial Upgrade program Audit and NRC examinations.** I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the Exam Team Leader. I understand that I am not to participate in any instruction, evaluation, scheduling, or other training-related activities involving those individuals scheduled to be administered these examinations from this date until completion of the examination listed above, except as authorized by the Training Superintendent (e.g., simulator booth operator or communicator, non-technical classes such as GET or general supervisor courses). I further understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or Entergy. I will immediately report to the Training Manager any indications or suggestions that examination security may have been compromised.

### Post-examination

To the best of my knowledge, I did not divulge any information concerning this examination. From the date that I entered into this security agreement, until the completion of examination administration, I did not participate in any training-related activities involving those individuals who were administered these examinations except as authorized by the Training Superintendent.

Printed Name	Job Title / Responsibility	Pre-examination Signature	Date	Briefed On Security Requirements of EN-TQ-217 by: (Signature / Date)*	Post-examination Signature	Date
1. Brian Stewart	SR. Instructor		9-27-13	G.R. Paredes/9-26-13		2-8-14
2. Russ Hahn	ops Inst.		2/10/14	B. Hahn 2-10-14		2/15/14
3. PHIL KRESS	OPS INST		2/10/14	B. Hahn 2-10-14		2/15/14
4. William H. Schulze	OPS Instructor		2-10-14	B. Hahn 2-10-14		2-18-14
5. KEVIN MURPHY	OPS INSTRUCTOR		2/11/14			2/18/14
6. NEIL A. QAST	OPS INSTRUCTOR		2/11/14			2-18-14

\*The individual who performs the briefing on exam security requirements of EN-TQ-217 signs in this space.

ENTERGY NUCLEAR		Page 1 of 2
E-DOC TITLE	E-DOC NO.	REVISION NO.
EXAM SECURITY AGREEMENT	TQF-217-SEC	0

VERMONT YANKEE

ES-201

Examination Security Agreement


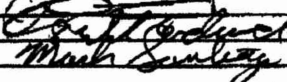
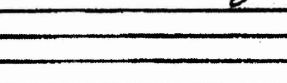
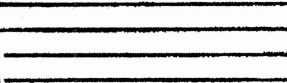
Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 2/10/14 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 \_\_\_\_\_. 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.	JOSPH ARSENAULT	REVIEWER		9/29/13	*BLS for J. Arsenault		
2.	FRANK R. WILSON	Author/Developer		9/29/13	*BLS for F. Wilson		
3.	Derek S. Edwards	Author/Developer		9/30/13	*BLS for D. Edwards		
4.	Mark Santiago	NTSI Exam Writer		10/8/13	*BLS for M. Santiago		
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NOTES:

\* Signed off per telcom with post EXAM statement  
provided to the individual 1/27/14

Facility: Vermont Yankee			Date of Exam: Feb. 2014			Operating Test No.: 2014 NRC											
A P P L I C A N T	E V E N T  T Y P E	Scenarios															
		NRC #1			NRC #2									T O T A L	M I N I M U M (*)		
		CREW POSITION			CREW POSITION												
		S R O	A T C	B O P	S R O	A T C	B O P									R	I
SROU-1	RX	N/A												0	NA	NA	0
	NOR	1												1	NA	NA	1
	I/C	2,3,4												3	NA	NA	2
	MAJ	5												1	NA	NA	1
	TS	3,4												2	NA	NA	2
SROU-2	RX				N/A									0	NA	NA	0
	NOR				1									1	NA	NA	1
	I/C				2,3,4									3	NA	NA	2
	MAJ				5									1	NA	NA	1
	TS				2,3,4									3	NA	NA	2
SROU-3	RX	N/A												0	NA	NA	0
	NOR	1												1	NA	NA	1
	I/C	2,3,4												3	NA	NA	2
	MAJ	5												1	NA	NA	1
	TS	3,4												2	NA	NA	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 serve 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:	Vermont Yankee	Date of Examination:	02/2014	Operating Test No.:	2014301							
Competencies	APPLICANTS											
	SRO (U)				RO/ATC				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	2-5	2-5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comply With and Use Procedures (1)	1-5	1-5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Operate Control Boards (2)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Communicate and Interact	1-5	1-5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Demonstrate Supervisory Ability (3)	1-5	1-5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Comply With and Use Tech. Specs. (3)	2-4	2-4	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Notes: (1) Includes Technical Specification compliance for 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.*

Facility:	Date of Examination:		Initials		
Item	Task Description	a	b*	c#	
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	WJS	JCT	DM	
	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.	WJS	JCT	DM	
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	WJS	JCT	DM	
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	WJS	JCT	DM	
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.	WJS	JCT	DM	
	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 scenarios will not be repeated on subsequent days.	WJS	JCT	DM	
	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.	WJS	JCT	DM	
3. W / T	a. Verify that 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.	WJS	JCT	DM	
	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	WJS	JCT	DM	
	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.	WJS	JCT	DM	
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 section.	WJS	JCT	DM	
	b. Assess whether the 10CFR 55.41/43 and 55.45 sampling is appropriate.	WJS	JCT	DM	
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	WJS	JCT	DM	
	d. Check for duplication and overlap among exam sections.	WJS	JCT	DM	
	e. Check the entire exam for balance of coverage.	WJS	JCT	DM	
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	WJS	JCT	DM	
a. Author		Printed Name / Signature		Date	
b. Facility Reviewer (*)		JOHN TAYLOR / [Signature]		10-28-13	
c. NRC Chief Examiner (#)		DELL R McNEIL / [Signature]		10/29/2013	
d. NRC Supervisor		Donald E. Jackson / [Signature]		11/6/2013	
NOTE: # Independent NRC reviewer initial items in Column "c", chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines					



Facility: Vermont Yankee		Date of Examination: 03/26/2014
Exam Level: RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U X		Operating Test No.: NRC 2014A
Administrative Topic (see Note)	Type Code*	Describe activity to be performed
Conduct of Operations	D, R	<b><u>Perform a core thermal limits evaluation</u></b> K/A 2.1.7, Ability to evaluate plant performance and make operational judgements based on operating characteristics, reactor behavior, and instrumentation interpretation. SRO 4.7
Conduct of Operations	P, R	<b><u>Evaluate H<sub>2</sub>/O<sub>2</sub> concentrations in the Torus and Drywell to determine what course of action is taken</u></b> 2.1.25 Ability to interpret reference materials, such as graphs, curves, tables, etc. (RO 3.9, SRO 4.2)
Equipment Control	N, R	<b><u>Refueling with secondary containment inoperable</u></b> K/A 2.3.7 Ability to determine operability and/or availability of safety related equipment. SRO 4.6
Radiation Control	N, R	<b><u>Evaluate Offsite Implications of a Ground Level Release With ODPS Not Available.</u></b>  K/A: 2.3.11: Ability to control radiation releases. IMPORTANCE: SRO 4.3
Emergency Procedures/Plan	N, R	JPM: <b><u>Utilize INFORM software to notify the VY ERO</u></b> 2.4.29 (4.4) Knowledge of the emergency 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 all 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)		

Facility: Vermont Yankee

Date of Examination: 02/10/2014

Exam Level: RO ☐ SRO-I ☐ SRO-U X

Operating Test No.: NRC 2014A

Control Room Systems<sup>@</sup> (8 for RO); (7 for SRO-I); (2 or 3 for SRO-U, including 1 ESF)

System / JPM Title	Type Code*	Safety Function
<b><u>S-1: Place the standby fuel pool cooling system in service.</u></b> <b><u>Failure: Insufficient pump flow.</u></b>	A, L, N, S	8-Plant service systems
<b><u>S-2: Emergency venting of the primary containment.</u></b>	N, S	5-Containment integrity
<b><u>S-3: RCIC Injection to the vessel</u></b> <b><u>Failure: Turbine Trip Reset with an Initiation Signal Present</u></b>	A, M, EN, S,	2-Reactor water level inventory

In-Plant Systems (3 for RO); (3 for SRO-I); (3 or 2 for SRO-U)

<b><u>P-1: Place the Standby CRD Flow Control Valve in Service.</u></b>	D, E, R	1-Reactivity control
<b><u>P-2 : Locally Start EDG During Station Blackout.</u></b> <b><u>Failure: Air start solenoid must be manually engaged.</u></b>	A, N, E, EN	6 – Electrical

@ 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 (C)ontrol room (D)irect from bank (E)mergency or abnormal in-plant (EN)gineered safety feature (L)ow-Power / Shutdown (N)ew or (M)odified from bank including 1(A) (P)revious 2 exams (R)CA (S)imulator	4-6 / 4-6 / 2-3 (3)  $\leq 9 / \leq 8 / \leq 4$ (1) $\geq 1 / \geq 1 / \geq 1$ (2) - / - / $\geq 1$ (control room system) (2) $\geq 1 / \geq 1 / \geq 1$ (1) $\geq 2 / \geq 2 / \geq 1$ (4) $\leq 3 / \leq 3 / \leq 2$ (randomly selected)(0) $\geq 1 / \geq 1 / \geq 1$ (2)

Facility: <u>Vermont Yankee</u>		Date of Examination: <u>2-10-14</u>		Operating Test Number: <u>2014 NRC</u>	
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).	<u>JS</u>	<u>JS</u>	<u>JS</u>	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	<u>JS</u>	<u>JS</u>	<u>JS</u>	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	<u>JS</u>	<u>JS</u>	<u>JS</u>	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	<u>JS</u>	<u>JS</u>	<u>JS</u>	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	<u>JS</u>	<u>JS</u>	<u>JS</u>	
2. Walk-Through Criteria		--	--	--	
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> <li>• initial conditions</li> <li>• initiating cues</li> <li>• references and tools, including associated procedures</li> <li>• reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee</li> <li>• operationally important specific performance criteria that include: <ul style="list-style-type: none"> <li>— detailed expected actions with exact criteria and nomenclature</li> <li>— system response and other examiner cues</li> <li>— statements describing important observations to be made by the applicant</li> <li>— criteria for successful completion of the task</li> <li>— identification of critical steps and their associated performance standards</li> <li>— restrictions on the sequence of steps, if applicable</li> </ul> </li> </ul>	<u>JS</u>	<u>JS</u>	<u>JS</u>	
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.	<u>JS</u>	<u>JS</u>	<u>JS</u>	
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.		<u>JS</u>	<u>JS</u>	<u>JS</u>	
Printed Name / Signature		Date			
a.	Author <u>Brian Stewart / [Signature]</u>	<u>1-23-14</u>			
b.	Facility Reviewer(*) <u>John Taylor / [Signature]</u>	<u>1/23/2014</u>			
c.	NRC Chief Examiner (#) <u>Debbie McNeil / [Signature]</u>	<u>01/24/2014</u>			
d.	NRC Supervisor <u>Donald Jackson / [Signature]</u>	<u>1/27/14</u>			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.					

Facility: Vermont Yankee		Date of Examination: 3-25-2014		Operating Test Number: VY NRC 2014A SROU	
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).	VB	JA	TF	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	VB	JA	TF	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	VB	JA	TF	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	VB	JA	TF	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	VB	JA	TF	
2. Walk-Through Criteria		--	--	--	
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> <li>initial conditions</li> <li>initiating cues</li> <li>references and tools, including associated procedures</li> <li>reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee</li> <li>operationally important specific performance criteria that include: <ul style="list-style-type: none"> <li>detailed expected actions with exact criteria and nomenclature</li> <li>system response and other examiner cues</li> <li>statements describing important observations to be made by the applicant</li> <li>criteria for successful completion of the task</li> <li>identification of critical steps and their associated performance standards</li> <li>restrictions on the sequence of steps, if applicable</li> </ul> </li> </ul>	VB	JA	TF	
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.	VB	JA	TF	
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.		N/A	N/A	N/A	
Printed Name / Signature		Date			
a. Author	Brian Stewart / <i>Brian Stewart</i>	3-24-14			
b. Facility Reviewer(*)	John Taylor / <i>John Taylor</i>	3/24/14			
c. NRC Chief Examiner (#)	Todd Fish / <i>Todd Fish</i>	3/24/2014			
d. NRC Supervisor	Donald Jackson / <i>Donald Jackson</i>	3/24/2014			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.					

Facility: Vermont Yankee		Date of Exam: 02/2014		Scenario Numbers: 1/2/3/4		Operating Test No.: 2014 NRC	
QUALITATIVE ATTRIBUTES			Initials				
			a	b*	c#		
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of service, but it does not cue the operators into expected events.		frw JCT	JCT	DM		
2.	The scenarios consist mostly of related events.		frw JCT	JCT	DM		
3.	Each event description consists of <ul style="list-style-type: none"> <li>the point in the scenario when it is to be initiated</li> <li>the malfunction(s) that are entered to initiate the event</li> <li>the symptoms/cues that will be visible to the crew</li> <li>the expected operator actions (by shift position)</li> <li>the event termination point (if applicable)</li> </ul>		frw JCT	JCT	DM		
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.		frw JCT	JCT	DM		
5.	The events are valid with regard to physics and thermodynamics.		frw JCT	JCT	DM		
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.		frw JCT	JCT	DM		
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.		NA	NA	DM		
8.	The simulator modeling is not altered.		frw JCT	JCT	DM		
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.				DM		
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.		frw JCT	JCT	DM		
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).		frw JCT	JCT	DM		
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).		frw JCT	JCT	DM		
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.		frw JCT	JCT	DM		
<b>Target Quantitative Attributes (Per Scenario; See Section D.5.d)</b>			<b>Actual Attributes</b>				
1.	Total malfunctions (5-8)	7/6/5	frw JCT	JCT	DM		
2.	Malfunctions after EOP entry (1-2)	1/1/1	frw JCT	JCT	DM		
3.	Abnormal events (2-4)	3/3/2	frw JCT	JCT	DM		
4.	Major transients (1-2)	1/1/1	frw JCT	JCT	DM		
5.	EOPs entered/requiring substantive actions (1-2)	1/2/2	frw JCT	JCT	DM		
6.	EOP contingencies requiring substantive actions (0-2)	1/1/1	frw JCT	JCT	DM		
7.	Critical tasks (2-3)	2/3/2	frw JCT	JCT	DM		

Facility: <u>Vermont Yankee</u>		Date of Exam: <u>2-14-14</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.				JS	JCI	sm
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.				JS	JCI	sm
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401				JS	JCI	sm
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).				JS	Ja	sm
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)				JS	Ja	sm
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
				51/17	2/1	22/7
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	
				32/2	43/23	
8. References/handouts provided do not give away answers or aid in the elimination of distractors.				JS	Ja	sm
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.				JS	Ja	sm
10. Question psychometric quality and format meet the guidelines in ES Appendix B.				JS	Ja	sm
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.				JS	JCI	sm
a. Author b. Facility Reviewer (*) c. NRC Chief Examiner (#) d. NRC Regional Supervisor				Printed Name / Signature <u>Brian Stewart</u> <u>JOHN TAYLOR</u> <u>Don R. McNeil</u> <u>Daniel Jackson</u>		Date <u>1-23-14</u> <u>1/23/2014</u> <u>01/24/2014</u> <u>1/27/14</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: <u>Vermont Yankee</u>		Date of Exam: <u>2-14-14</u>		Exam Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading * <u>See below</u>	<u>WBS</u>	<u>JCT</u>	<u>dm</u> *		
2. Answer key changes and question deletions justified and documented	<u>WBS</u>	<u>JCT</u>	<u>dm</u> <sup>N/A</sup>		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<u>WBS</u>	<u>JCT</u>	<u>dm</u>		
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	<u>WBS</u>	<u>JCT</u>	<u>dm</u>		
5. All other failing examinations checked to ensure that grades are justified	<u>WBS</u> <u>N/A</u>	<u>NA</u>	<u>dm</u> <sup>N/A</sup>		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<u>WBS</u>	<u>JCT</u>	<u>dm</u>		

	Printed Name/Signature	Date
a. Grader	<u>B. Stewart / [Signature]</u>	<u>2-18-14</u>
b. Facility Reviewer(*)	<u>JOHN TAYLOR / [Signature]</u>	<u>2/20/2014</u>
c. NRC Chief Examiner (*)	<u>Debbie R. McNeil / [Signature]</u>	<u>02/24/2014</u>
d. NRC Supervisor (*)	<u>Donald Jackson / [Signature]</u>	<u>2/24/14</u>

(\*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.

\* Andy Bradford: Original answer sheet was graded before a copy was made. Copy was made after original graded.

\* John Shaffer: A copy was made of original answer sheet before grading and then original graded.

[Signature] 2-18-14