

Facility: <u>Summer Unit 2</u>		Date of Examination: <u>2016</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
-150	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	MB
-150	3. Facility contact briefed on security and other requirements (C.2.c)	MB
-150	4. Corporate notification letter sent (C.2.d)	MB
[-120]	5. Reference material due (C.1.e; C.3.c; Attachment 3)	MB
{-90}	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, ES-401-1/2, ES-401N-1/2, ES-401-3, ES-401N-3, ES-401-4, and ES-401N-4, as applicable (C.1.e and f; C.3.d)	MB
{-85}	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	MB
{-60}	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, ES-401N-6, and any Form ES-201-2, ES-201-3, ES-301-1, or ES-301-2 updates), and reference materials due (C.1.e, f, g and h; C.3.d)	MB
-45	9. Written exam and operating test reviews completed. (C.3.f)	MB
-30	10. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	MB
-21	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	MB
-21	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	MB
-14	13. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	MB
-14	14. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	MB
-7	15. Facility licensee management queried regarding the licensee's views on the examination. (C.2.j)	MB
-7	16. 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	17. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	MB
-7	18. 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. [Applies only] {Does not apply} to examinations prepared by the NRC.</p>		

Facility: <u>VCS UNIT 2</u>		Date of Examination: <u>9-12-16</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 or ES-401N.	SC	AC	MB
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 or ES-401N and whether all K/A categories are appropriately sampled.	SC	AC	MB
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	SC	AC	MB
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	SC	AC	MB
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.	SC	AC	MB
	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.	SC	AC	MB
	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.	SC	AC	MB
3. W A L K T H R O U G H	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.	SC	AC	MB
	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	SC	AC	MB
	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.	SC	AC	MB
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.	SC	AC	MB
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	SC	AC	MB
	c. Ensure that K/A Importance ratings (except for plant-specific priorities) are at least 2.5.	SC	AC	MB
	d. Check for duplication and overlap among exam sections.	SC	AC	MB
	e. Check the entire exam for balance of coverage.	SC	AC	MB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	SC	AC	MB
a. Author	<u>Scott Dimeter</u> / <u>SC Dimeter</u>		Date	<u>9-6-16</u>
b. Facility Reviewer (*)	<u>ALBERT C. HARRIS</u> / <u>ALC Harris</u>			<u>9/6/16</u>
c. NRC Chief Examiner (#)	<u>MARK A. BATES</u> / <u>Mark A. Bates</u>			<u>9/6/16</u>
d. NRC Supervisor	<u>Eugene Anthony</u> / <u>E Anthony</u>			<u>9/7/16</u>
Note:	# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines.			

1. Pre-Examination VCS UNIT 2 & 3 GOLD LICENSE CLASS # 2

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of TBD 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 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 TBD. 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. Scott Dimple	VCS EXAM LEAD	<i>Scott C Dimple</i>	9-10-15	<i>Scott C Dimple</i>	9-30-16	
2. CHRIS HAMILTON	VCS EXAM AUTHR	<i>Chris Hamilton</i>	9-21-15	<i>Chris Hamilton</i>	9/30/16	
3. PERRI LOSBAR	VCS EXAM AUTHR	<i>Perri Losbar</i>	9-21-15	<i>Perri Losbar</i>	10/31/16	
4. SKRDE CIGONE	VCS DRG REPRESENTATIVE	<i>Skrd Cigone</i>	9/23/15	<i>Skrd Cigone</i>	10/31/16	
5. Chad Hill	VCS TEAM TEAM	<i>Chad Hill</i>	11/0-15	<i>Chad Hill</i>	10/31/16	
6. KATRINE DUE	VCS EXAM TEAM	<i>Katrine Due</i>	11/17/15	<i>Katrine Due</i>	10/31/16	
7. Andrew Peterson	Sim Eng	<i>Andrew Peterson</i>	12/14/15	<i>Andrew Peterson</i>	10/31/16	
8. Dannel Hensley	Developer / Reviewer	<i>Dannel Hensley</i>	12/14/15	<i>Dannel Hensley</i>	10/31/16	
9. ALPHEE WARD	SMI ODS	<i>Alphee Ward</i>	3/2/16	<i>Alphee Ward</i>	10/31/16	
10. ALPHEE WARD	SMI ODS	<i>Alphee Ward</i>	3/2/16	<i>Alphee Ward</i>	10/31/16	
11. Perry Leister	Supervisor Sim East	<i>Perry Leister</i>	3/2/16	<i>Perry Leister</i>	10/31/16	
12. Pevik Boldt	Ops	<i>Pevik Boldt</i>	3/2/16	<i>Pevik Boldt</i>	11/5/16	
13. Holly Van Sicker	Ops	<i>Holly Van Sicker</i>	3/2/16	<i>Holly Van Sicker</i>	11/5/16	
14. STEPHEN THOMAS	OPS	<i>Stephen Thomas</i>	3/9/16	<i>Stephen Thomas</i>	10-6-16	
15. Robert Mcyers	OPS	<i>Robert J Myer</i>	3/9/16	<i>Robert J Myer</i>	9/30/16	

NOTES:

- 1 FOR CHAD HILL PER TELECOMM.
- 2 FOR DARRELL HENSLEY PER TELECOMM.
- 3 FOR STEPHEN THOMAS PER TELECOMM.
- 4 FOR ROBERT MAYER PER TELECOMM.

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

1. Pre-Examination VCS UNIT #13 CDO LICENSE CLASS #2 SEPT, 2016

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 12/14-26/16 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 12/14-26/16. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Scott Dimple	VCS EXAM LEAD	[Signature]	9-24-15	[Signature]	10-3-16	
2. CHRIS HANSEN	VCS EXAM ATTEND	[Signature]	9-24-15	[Signature]	9/30/16	
3. TRITICAR	VCS EXAM ATTEND	[Signature]	9-24-15	[Signature]	10/3/16	
4. BRODE GEORGE	VCS EXAM ATTEND	[Signature]	9/23/15	[Signature]	9/30/16	
5. Richard W DeVorelly	VCS Exam Team Contractor	[Signature]	01/24/15	[Signature]	10-4-16	
6. THOMAS COVTER	VALIDATOR	[Signature]	2/18/16	[Signature]	10-4-16	
7. Paul Pagan	Simulator	[Signature]	3/19/16	[Signature]	10-5-16	
8. THOMAS FISHER	VCS SROC INST.	[Signature]	3/24/16	[Signature]	10-4-16	
9. LEVEN HARROSH	VALIDATOR	[Signature]	4/13/16	[Signature]	10-4-16	
10. MAELO SIMS	VALIDATOR	[Signature]	4-13-16	[Signature]	10-4-16	
11. DAVID GIBSON	VALIDATOR	[Signature]	4-13-16	[Signature]	10-4-16	
12. Robert Newell	VALIDATOR	[Signature]	4-28-16	[Signature]	10-4-16	
13. David Ziskowski	EXAM TEAM	[Signature]	5/17/16	[Signature]	10-4-16	
14. AL HARRIS	OPS MANAGER	[Signature]	6/30/16	[Signature]	9/30/16	
15. Matthew Smith	VALIDATOR	[Signature]				

NOTES:

- 1 Fur THOMAS FISHER PER TELECOM
- 2 Fur THOMAS COVTER PER TELECOM
- 3 Fur LEVEN HARROSH PER TELECOM
- 4 Fur ROBERT NEWELL PER TELECOM

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

NCS Unit 213 Cold License Class # 2

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 12.15 + 26 Sept ²⁰¹⁹ 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. THOMAS L. ARNETTS	SHIFT MANAGER	<i>[Signature]</i>	3/15/16	<i>[Signature]</i>	10/5/16	
2. JASON R. HANER	Shift Supervisor	<i>[Signature]</i>	3/15/16	<i>[Signature]</i>	10/5/16	
3. CHRIS ST. GEORGE	Shift Supervisor	<i>[Signature]</i>	3/15/16	<i>[Signature]</i>	10/5/16	
4. CHRIS POKLES	Shift Supervisor	<i>[Signature]</i>	3/15/16	<i>[Signature]</i>	10/5/16	
5. Robert D Yarbrough	Alcobar Plant Operator	<i>[Signature]</i>	3/15/16	<i>[Signature]</i>	10/5/16	
6. Gary Chantrel	Plant Exam Manager SNC	<i>[Signature]</i>	3/15/16	<i>[Signature]</i>	10/5/16	(1)
7. _____	_____	_____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____	_____

NOTES: (1) FOR GARY CHANTREL PER TELECOM.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 12, 19 + 21 Sept 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. Frank Mtriviera	ESCORT	<i>Frank Mtriviera</i>	9/21/16	<i>Frank Mtriviera</i>	10/14/16	
2. AITOR GUTIERREZ	ESCORT	<i>Aitor Gutierrez</i>	9/21/16	<i>Aitor Gutierrez</i>	10/3/16	
3. JOEL FETTERMAN	COMMUNICATOR	<i>Joel Fetterman</i>	9/12/16	<i>Joel Fetterman</i>	10/4/16	
4. RUDY TROWSON	PAR 9-12-16 OPS REL	<i>Rudy Trowson</i>	9-12-16	<i>Rudy Trowson</i>	10-3-16	
5. Brian Walker	ESCORT	<i>Brian Walker</i>	9-12-16	<i>Brian Walker</i>	9-30-16	
6. Ryan Snow	ESCORT	<i>Ryan Snow</i>	9/12/16	<i>Ryan Snow</i>	10/3/16	
7. Greg Nash	ESCORT	<i>Greg Nash</i>	9/12/16	<i>Greg Nash</i>	10/3/16	
8. Anton (Tony) Kerr	ESCORT	<i>Anton Kerr</i>	9/12/16	<i>Anton Kerr</i>	10/3/16	
9. ALVARO NUÑO	ESCORT	<i>Alvaro Nuño</i>	9/12/16	<i>Alvaro Nuño</i>	10-4-16	1
10. JOSE ALBERT	ESCORT	<i>Jose Albert</i>	9/12/16	<i>Jose Albert</i>	10-4-16	2
11. JEREMY PATERSON	COMMUNICATOR	<i>Jeremy Paterson</i>	9/12/16	<i>Jeremy Paterson</i>	10-4-16	
12. GEORGE ASSECK	COMMUNICATOR	<i>George Assack</i>	9/12/16	<i>George Assack</i>	9/30/16	
13. Kevin Reeves	ESCORT	<i>Kevin Reeves</i>	9/13/16	<i>Kevin Reeves</i>	10/3/16	
14. JOSE MANN	ESCORT	<i>Jose Mann</i>	9/19/16	<i>Jose Mann</i>	10/5/16	
15. _____	_____	_____	_____	_____	_____	_____

- NOTES:
- 1. FUR TUSE ALBERT PER TELComm
 - 2. FUR ALVARO NUÑO PER TELEComm

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 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. Christopher Sion	Escort	<i>[Signature]</i>	9/29/16	<i>[Signature]</i>	10/3/16	
2. Scott Moeck	Escort	<i>[Signature]</i>	9/29/16	<i>[Signature]</i>	10-6-16	1
3. Mike Totten	Escort	<i>[Signature]</i>	9/29/16	<i>[Signature]</i>	10/6/16	
4. _____	_____	_____	_____	_____	_____	_____
5. _____	_____	_____	_____	_____	_____	_____
6. _____	_____	_____	_____	_____	_____	_____
7. _____	_____	_____	_____	_____	_____	_____
8. _____	_____	_____	_____	_____	_____	_____
9. _____	_____	_____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____	_____

NOTES: 1 Fur Scott Moeck PER TELFCum

Facility: V.C. Summer NPS Date of Examination: Sept, 2016
 Examination Level: RO/SRO Operating Test Number: 1301

Administrative Topic (see Note)	Type Code *	Describe activity to be performed
Conduct of Operations	M,R	G 2.1.7 Assess EOP-F-0 Critical Safety Function Status Trees Originally Vogtle 2016 Audit RO/SRO
Conduct of Operations	D,R	G 2.1.21 Calculate a RCS Dilution in accordance with SOP-CVS Originally VCS 2015 Audit RO/SRO
Equipment Control	D,R	G 2.2.10 Determine isolation boundary components, positions and sequence to isolate a leak from a CCS pump discharge flange. Originally Vogtle 2016 Audit RO/SRO SRO Only component to identify applicable LCO action statements, required actions and completion times
Radiation Control	M,R	G 2.3.4 Contingent upon approval of applicable HPP procedures for Unit 2/3 use. Determine projected dose to add oil to a RNS pump and determine if the task can be completed without exceeding dose limits RO/SRO
Emergency Plan	N,R	G 2.4.34 Given an EAL declaration, complete the notification form for initial notifications SRO

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	0/0/5
(D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs and RO retakes)	2/2/0
(N)ew or (M)odified from bank (≥ 1)	1/2
(P)revious 2 exams (≤ 1 ; randomly selected)	1

1. Assess EOP-F-0, Critical Safety Function Status Trees
 - G 2.1.7, Ability to evaluate plant performance and make operational judgments based on operating characteristics, reactor behavior, and instrument interpretation. (CFR: 41.5 / 43.5 / 45.12 / 45.13) RO 4.4 SRO 4.7
 - RO/SRO
 - The candidate will be given an Ovation Critical Safety Function screen (without color cues). The candidate must then evaluate this data against EOP-F-0 and determine any applicable FRP's
2. Calculate a RCS Dilution iaw SOP-CVS-001, Attachment 3, Section 4.4
 - G 2.1.21, Ability to perform general and/or normal operating procedures during any plant condition. (CFR: 41.10 / 43.5 / 45.2 / 45.6) RO 4.3 SRO 4.4
 - RO/SRO
 - The candidate will be given a desired Boron Concentration change and must then use the SOP calculation to determine the amount of demin water to be pumped to the RCS.
3. Determine isolation boundary components, positions and sequence to isolate a leak from a CCS pump discharge flange. SRO Only component to identify applicable LCO action statements, required actions and completion times
 - G 2.2.10, Knowledge of the process for controlling equipment configuration or status. (CFR: 41.10 / 43.3 / 45.13) RO 3.9 SRO 4.3
 - APP-SWS-M6-001, SWS Mechanical Drawing
 - VCB-SAP-0201, Equipment Tagging and Lockout-Tagout
 - The candidate must determine the applicable prints needed and iaw VCB-SAP-0201, properly align the system to isolate the leakage. The SRO must then determine any applicable TS/TRM impact.
4. Determine projected dose to add oil to a CVS makeup pump and determine if the task can be completed without exceeding dose limits. Modify to add SRO only component to process a dose limit extension.
 - G 2.3.4, Ability to comply with radiation work permit requirements during normal or abnormal conditions. (CFR: 41.12 / 45.10) RO 3.5 SRO 3.6
 - RO/SRO
 - VCS-HPP-0151.00 Use of the Radiation Work Permit
 - VCS-HPP-0153.00 Administrative Exposure Limits
 - The candidate will be provided a survey map and RWP. The candidate must then determine the total dose involved in performing the task as whether administrative limits will be exceeded.
5. Given an EAL declaration, complete the notification form for initial notifications.
 - G 2.4.34, Knowledge of emergency communications systems and techniques. (CFR: 41.10 / 45.13) RO 3.2
 - SRO Only
 - EPP-002, Communication and Notification
 - The candidate will be given an approved EPP-002 communications form and complete the form.

Facility: <u>VC Summer Units 2 and 3</u>	Date of Examination: <u>Sept, 2016</u>
Exam Level: <u>RO / SRO-I</u>	Operating Test No.: <u>1301</u>

Control Room Systems* 8 for RO; 7 for SRO-I; 2 or 3 for SRO-U

System / JPM Title	Type Code*	Safety Function
a. Recover a dropped control rod (AOP-104)	M,A,S	1
b. Lower accumulator B pressure (PXS-SOP). (RO Only)	N,EN,S	2
c. Reduce RCS pressure using auxiliary spray (RCS-SOP) (Originally VCS 1201 Audit Exam)	D,S	3
d. Place RNS Train "A" into Shutdown Cooling (RNS-SOP) (Randomly selected from VCS 2015 NRC Exam)	P,S,L	4P
e. Unload generator and trip turbine (GOP-102). Generator breaker fails to open. (Randomly selected from VCS 2015 NRC Exam)	P,A,S	4S
f. PCS Malfunction, vacuum reliefs fail to open to limit vacuum in containment following inadvertent PCS actuation. (AOP-110).	N,S,EN	5
g. Transfer ES-1 and 2 from UAT to RAT (ECS-SOP)	M,S	6
h. RCP Locked Rotor ATWS (E-0/FR-S.1)	D,A,L,S	7

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

i. Evacuate Control Room (AOP-601) Enable RSR and alternate path to actuate Safeguards	N,A,E,	8
j. Align WGS Guard and Delay Beds for Nitrogen purge IAW WGS-SOP-001	N, R	9
k. Energize RNS-V023 to cool the IRWST as directed by E-0, Attachment 1	N, E	4P

@ 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	Actual
(A)lternate path	4-6/4-6/2-3	4
(C)ontrol room		0
(D)irect from bank	≤ 9/≤ 8/≤ 4	2
(E)mergency or abnormal in-plant	≥ 1/> 1/>1	2
(EN)gineered safety feature	≥ 1 / ≥ 1 / ≥ 1 (control room system)	2
(L)ow-Power / Shutdown	≥ 1/≥ 1/≥ 1	2
(N)ew or (M)odified from bank including 1(A)	≥ 2/≥ 2/≥ 1	7
(P)revious 2 exams	≤ 3/≤ 3/≤ 2 (randomly selected)	2
(R)CA	≥ 1/≥ 1/≥ 1	1
(S)imulator		8

Control Room Systems:

a,c

In-Plant Systems

- i) **Evacuate Control Room: New, Alternate path, Emergency in plant**
 - SF8 A-306, AA1.06. Ability to operate and/or monitor the following as they apply to Evacuation of Control Room: Remote shutdown workstation controls RO 3.7 SRO 3.7
 - AOP-601, Evacuation of Control Room
 - The operator evacuates to the Remote Shutdown Panel, enables control and determines that a Heat Sink can NOT be established and actuates Safeguards.

- j) **Align WGS Guard and Delay Beds for Nitrogen purge: New, RCA**
 - SF9 WGS A4.01. Ability to manually operate and monitor in the control room: Place Gaseous Radwaste System in service 2.6
 - SF9 WGS A4.02. Ability to manually operate and monitor in the control room: Nitrogen purge 2.5
 - WGS-SOP-001
 - The operator will use plant drawing to identify the plant locations for components operated and demonstrate a path from the Main Control Room to this location. Then use a mockup to enter the RCA. Then identify the correct position of components through the use of pictures. Then exit the RCA.

- k) **Energize RNS-V023 to cool the IRWST: New, Engineered Safety Feature**
 - SF4P RNS K1.06. Knowledge of the physical or control/protection logic relationship between the Normal Residual Heat Removal System and the following systems: Passive Core Cooling System 3.8
 - SF4P RNS A4.09. Ability to manually operate and monitor in the control room: In-containment refueling water storage tank cooling 3.6
 - E-0, Attachment 1
 - The operator will use plant drawing to identify the plant locations for components operated and demonstrate a path from the Main Control Room to this location. Then identify the correct position of components through the use of pictures.

Facility: <u>VCS UNIT 2</u>		Date of Examination: <u>9-12-16</u>		Operating Test Number: <u>1301</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).	SC	AC	MB	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	SC	AC	MB	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	SC	AC	MB	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	SC	AC	MB	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	SC	AC	MB	
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 	SC	AC	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.	SC	AC	MB	
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.		SC	AC	MB	
		Printed Name / Signature		Date	
a.	Author	<u>Scott C. Dimeler / SC Dimeler</u>		<u>9-6-16</u>	
b.	Facility Reviewer(*)	<u>ALBERT C. HARRIS / [Signature]</u>		<u>9/6/16</u>	
c.	NRC Chief Examiner (#)	<u>MARK A. BATES / [Signature]</u>		<u>9/6/16</u>	
d.	NRC Supervisor	<u>Eugene Condris / [Signature]</u>		<u>9/7/16</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: <u>VCS U2</u>		Date of Exam: <u>9-12-16</u>		Scenario Numbers: <u>1/2/3/4/5/6</u>		Operating Test No.: <u>1301</u>				
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.						SC	AM	MB	
2.	The scenarios consist mostly of related events.						SC	AM	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) or conditions 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) 						SC	AM	MB	
4.	The events are valid with regard to physics and thermodynamics.						SC	AM	MB	
5.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.						SC	AM	MB	
6.	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.						SC	AM	MB	
7.	The simulator modeling is not altered.						SC	AM	MB	
8.	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.						SC	AM	MB	
9.	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.						SC	AM	MB	
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).						SC	AM	MB	
11.	The scenario set provides the opportunity for each applicant to be evaluated in each of the applicable rating factors. (Competency Rating factors as described on forms ES-303-1 and ES-303-3.)						SC	AM	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).						SC	AM	MB	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.						SC	AM	MB	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)				Actual Attributes						
1.	Malfuncions after EOP entry (1-2)	3-4	2-3	4	1-3	2-4	5	SC	AM	MB
2.	Abnormal events (2-4)	2	3	4	3	3	2	SC	AM	MB
3.	Major transients (1-2)	1	1	2	1	2	2	SC	AM	MB
4.	EOPs entered/requiring substantive actions (1-2)	2	1	2	2	2	2	SC	AM	MB
5.	EOP contingencies requiring substantive actions (0-2)	1	0	0	0	1	1	SC	AM	MB
6.	EOP based Critical tasks (2-3)	1	2	2	1	1	2	SC	AM	MB
NOTE:										
* The facility signature is not applicable for NRC-developed tests.										
# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.										

Facility: <u>VCS UNIT 2</u>		Date of Exam: <u>9-12-16</u>		Operating Test No.: <u>1301</u>													
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 (*)		
		1			2			3			4						
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N						
		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			
RO <input type="checkbox"/>	RX	2															1
SRO-I <input type="checkbox"/>	NOR	1												1	1	1	1
SRO-U <input type="checkbox"/>	I/C	3,4,7,12												5	4	4	2
	MAJ	6												1	2	2	1
	TS	3,5												2	0	2	2
RO <input type="checkbox"/>	RX													0	1	1	0
SRO-I <input type="checkbox"/>	NOR													0	1	1	1
SRO-U <input type="checkbox"/>	I/C		3,7,9											4	4	4	2
	MAJ		6											1	2	2	1
	TS		3											1	0	2	2
RO <input type="checkbox"/>	RX			2										1	1	1	0
SRO-I <input type="checkbox"/>	NOR			1										1	1	1	1
SRO-U <input type="checkbox"/>	I/C			3,4										2	4	4	2
	MAJ			6										1	2	2	1
	TS														0	2	2
RO <input type="checkbox"/>	RX														1	1	0
SRO-I <input type="checkbox"/>	NOR														1	1	1
SRO-U <input type="checkbox"/>	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

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 (SRO-I) 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 SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for 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 one-for-one basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
4. For licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.

Facility: VCS UNIT 2 Date of Exam: 6-12-16 Operating Test No.: 1301

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 (*)					
		1			2			3			4									
		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							
<input type="checkbox"/> RO	RX				2												1	1	1	0
<input type="checkbox"/> SRO-I	NOR				1												1	1	1	1
<input type="checkbox"/> SRO-U	I/C				2,3,4 12												4	4	4	2
<input type="checkbox"/>	MAJ				6												1	2	2	1
<input type="checkbox"/>	TS				3,4												2	0	2	2
<input type="checkbox"/> RO	RX					2											1	1	1	0
<input type="checkbox"/> SRO-I	NOR																0	1	1	1
<input type="checkbox"/> SRO-U	I/C					9											1	4	4	2
<input type="checkbox"/>	MAJ					6											1	2	2	1
<input type="checkbox"/>	TS																0	0	2	2
<input type="checkbox"/> RO	RX					1											1	1	1	0
<input type="checkbox"/> SRO-I	NOR					3,3,13											3	1	1	1
<input type="checkbox"/> SRO-U	I/C					6											1	4	4	2
<input type="checkbox"/>	MAJ					3											1	2	2	1
<input type="checkbox"/>	TS																	0	2	2
<input type="checkbox"/> RO	RX																	1	1	0
<input type="checkbox"/> SRO-I	NOR																	1	1	1
<input type="checkbox"/> SRO-U	I/C																	4	4	2
<input type="checkbox"/>	MAJ																	2	2	1
<input type="checkbox"/>	TS																	0	2	2

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 (SRO-I) 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 SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for 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 one-for-one basis.
3. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
4. For licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.

Facility: VCS UNIT 2 Date of Exam: 6-12-19 Operating Test No.: 1301

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(*)			
		1			2			3			4				R	I	U	
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N							
		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 <input type="checkbox"/>	RX							1							1	1	1	0
SRO-I <input type="checkbox"/>	NOR							1							1	1	1	1
SRO-U <input type="checkbox"/>	I/C							2,7 10,11							4	4	4	2
	MAJ							6,8							2	2	2	1
	TS							2,3							2	0	2	2
RO <input type="checkbox"/>	RX									1					1	1	1	0
SRO-I <input type="checkbox"/>	NOR														0	1	1	1
SRO-U <input type="checkbox"/>	I/C									2,11					2	4	4	2
	MAJ									6					1	2	2	1
	TS									2					1	0	2	2
RO <input type="checkbox"/>	RX											1			1	1	1	0
SRO-I <input type="checkbox"/>	NOR											1			1	1	1	1
SRO-U <input type="checkbox"/>	I/C											4,10			2	4	4	2
	MAJ											6,8			2	2	2	1
	TS														0	2	2	2
RO <input type="checkbox"/>	RX														1	1	1	0
SRO-I <input type="checkbox"/>	NOR														1	1	1	1
SRO-U <input type="checkbox"/>	I/C														4	4	4	2
	MAJ														2	2	2	1
	TS														0	2	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 serve in both the "at-the-controls" (ATC) and "balance-of-plant" (BOP) positions. Instant SROs (SRO-I) 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 SRO-I *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 one-for-one 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.
 - For licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.

Facility: **VCS UNIT 2** Date of Exam: **6-12-16** Operating Test No.: **1301**

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 (*)		
		1			2			3			4				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 <input type="checkbox"/>	RX												2	1	1	1	0
SRO-I <input type="checkbox"/>	NOR												1	1	1	1	1
SRO-U <input type="checkbox"/>	I/C												2,4,5,8	5	4	4	2
	MAJ												6	1	2	2	1
	TS												4,5	2	0	2	2
RO <input type="checkbox"/>	RX													0	1	1	0
SRO-I <input type="checkbox"/>	NOR													0	1	1	1
SRO-U <input type="checkbox"/>	I/C												3,5,8	3	4	4	2
	MAJ												6	1	2	2	1
	TS												4,5	2	0	2	2
RO <input type="checkbox"/>	RX													2	1	1	0
SRO-I <input type="checkbox"/>	NOR													1	1	1	1
SRO-U <input type="checkbox"/>	I/C												4,5,9	3	4	4	2
	MAJ												6	1	2	2	1
	TS														0	2	2
RO <input type="checkbox"/>	RX														1	1	0
SRO-I <input type="checkbox"/>	NOR														1	1	1
SRO-U <input type="checkbox"/>	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 serve in both the "at-the-controls" (ATC) and "balance-of-plant" (BOP) positions. Instant SROs (SRO-I) 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 SRO-I *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 one-for-one 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.
- For licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.

Facility: VCS UNIT 2		Date of Exam: 6-12-16		Operating Test No.: 1301													
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 (*)		
		1			2			3			4						
		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				
<input type="checkbox"/> RO	RX	1												1	1	1	0
<input type="checkbox"/> SRO-I	NOR													0	1	1	1
<input type="checkbox"/> SRO-U	I/C	3,4,5 7,12												5	4	4	2
<input type="checkbox"/> SRO-U	MAJ	6,9												2	2	2	1
<input type="checkbox"/> SRO-U	TS	4,5												2	0	2	2
<input type="checkbox"/> RO	RX		1											1	1	1	0
<input type="checkbox"/> SRO-I	NOR													0	1	1	1
<input type="checkbox"/> SRO-U	I/C		4,5,7											3	4	4	2
<input type="checkbox"/> SRO-U	MAJ		6,9											2	2	2	1
<input type="checkbox"/> SRO-U	TS		5											1	0	2	2
<input type="checkbox"/> RO	RX			1										1	1	1	0
<input type="checkbox"/> SRO-I	NOR													0	1	1	1
<input type="checkbox"/> SRO-U	I/C			3,10										2	4	4	2
<input type="checkbox"/> SRO-U	MAJ			6,9										2	2	2	1
<input type="checkbox"/> SRO-U	TS													0	0	2	2
<input type="checkbox"/> RO	RX														1	1	0
<input type="checkbox"/> SRO-I	NOR														1	1	1
<input type="checkbox"/> SRO-U	I/C														4	4	2
<input type="checkbox"/> SRO-U	MAJ														2	2	1
<input type="checkbox"/> SRO-U	TS														0	2	2
Instructions:																	
<ol style="list-style-type: none"> 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 (SRO-I) 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 SRO-I <i>additionally</i> 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 <i>controlled</i> abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis. 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. For licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls. 																	

Facility: <u>VCS UNIT 2</u>		Date of Exam: <u>6-12-16</u>		Operating Test No.: <u>1301</u>													
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(*)		
		<u>16</u>			2			3			4						
		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			
RO <input type="checkbox"/>	RX	2														1	1
SRO-I <input type="checkbox"/>	NOR	1											1	1	1	1	
SRO-U <input type="checkbox"/>	I/C	5,7,8											4	4	4	2	
	MAJ	6,9											2	2	2	1	
	TS	4,5											2	0	2	2	
RO <input type="checkbox"/>	RX		2										1	1	1	0	
SRO-I <input type="checkbox"/>	NOR												0	1	1	1	
SRO-U <input type="checkbox"/>	I/C		5,7,11										3	4	4	2	
	MAJ		6,9										2	2	2	1	
	TS												0	0	2	2	
RO <input type="checkbox"/>	RX			2									1	1	1	0	
SRO-I <input type="checkbox"/>	NOR			1									1	1	1	1	
SRO-U <input type="checkbox"/>	I/C			5,8									2	4	4	2	
	MAJ			6,9									2	2	2	1	
	TS			4									1	0	2	2	
RO <input type="checkbox"/>	RX													1	1	0	
SRO-I <input type="checkbox"/>	NOR													1	1	1	
SRO-U <input type="checkbox"/>	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 serve in both the "at-the-controls" (ATC) and "balance-of-plant" (BOP) positions. Instant SROs (SRO-I) 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 SRO-I *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 one-for-one 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.
- For licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.

Facility: <u>VCS UNIT 2</u> Date of Examination: <u>6-12-16</u> Operating Test No.: <u>1301</u>																
Competencies	APPLICANTS															
	RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/> <u>CRS</u>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/> <u>ATC</u>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/> <u>BOP</u>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	3,4 6,9 10	4-10	3,5 7-11	3-7	3,6 8-10	7-9	3 7-10	3-7	4,7	4,5 6,10	5,9 11	4				
Comply With and Use Procedures (1)	6,8 9,10	1,2 4-10	1,2,3 5-11	1-7	2,3,6 8-10	2,6 7-9	2,3 7-10	3-7	1-4 6,7	1,4 5,6 10	1,2,5 9,11	1,2 4				
Operate Control Boards (2)					2,6,8 9,10	2,6 7-9	2,3 7-10	3-7	1-4 6,7	1,4 5,6	1,2,5 9,11	1,2 4				
Communicate and Interact	1,2,3 4,6 7,6,9	1,2,4 5-10	1,2,3 5-11	1-7	3,8 9,10	2,6 7-9	2,3 7-10	3-7	1-4 7	1,4 5,6 10	1,2,5 9,11	1,2 4				
Demonstrate Supervisory Ability (3)	1-4 6-10	1,2 4-10	1,2,3 5-11	1-7												
Comply With and Use Tech. Specs. (3)	3,5	3,4	3,4	4,5												
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. (This includes all rating factors for each competency.) (Competency Rating factors as described on forms ES-303-1 and ES-303-3.)

Facility: <u>VCS UNIT 2</u>		Date of Examination: <u>6-12-16</u>				Operating Test No.: <u>1301</u>										
Competencies	APPLICANTS															
	RO <input type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>				RO <input type="checkbox"/>			
	SRO-I <input type="checkbox"/>				SRO-I <input type="checkbox"/>				SRO-I <input type="checkbox"/>				SRO-I <input type="checkbox"/>			
	SRO-U <input type="checkbox"/>				SRO-U <input type="checkbox"/>				SRO-U <input type="checkbox"/>				SRO-U <input type="checkbox"/>			
	<u>CRS</u>				<u>ATC</u>				<u>BOP</u>							
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	<u>5</u>	<u>6</u>	3	4	<u>5</u>	<u>6</u>	3	4	<u>5</u>	<u>6</u>	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	3,7	4,5 <u>6-12</u>			4,5 8	4,5 7,11			3,12	1,2 4,5 8						
Comply With and Use Procedures (1)	1,3 5-10	1,2 4-12			1,6 10	1,2 5-12			1,3 6,14	1,2 4-12						
Operate Control Boards (2)					1,4 5-10	1,2 5-12			1,3 6, 8-10	1,2 4-12						
Communicate and Interact	1,3 4,5 6-10	1,2 4-12			1,4 5-10	1,2 5-12			1,3 6, 8-10	1,2 4-12						
Demonstrate Supervisory Ability (3)	1,3 5-10	1,2 4-12														
Comply With and Use Tech. Specs. (3)	4,5	4-5														
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. (This includes all rating factors for each competency.) (Competency Rating factors as described on forms ES-303-1 and ES-303-3.)

Final Written Sample Plan is a combination of Draft Approved Sample Plan and ES-401-4.

VCS UNIT 2

9-12-16 EXAM

ES-401N

Record of Rejected K/As

Form ES-401N-4

Tier/Group	Randomly Selected KA	Reason for Rejection
1/1 Ro	A-345AG2.4.14	COULD NOT WRITE DISCERNING- QUESTION NEW K/A A345-G2.4.4
1/1 Ro	E-3-G2,4.25	COULD NOT WRITE DISCERNING- QUESTION NEW K/A E-3G 2.4.24
1/1 Ro	ECA1.1-EA1.04	COULD NOT WRITE DISCERNING- QUESTION NEW K/A ECA1.1-EA1.03
1/2 Ro	FR-H.2EG.2.1.21	COULD NOT WRITE DISCERNING- QUESTION, NEW K/A FRH-2EG2.1.19
2/2 Ro	FHS-G2.2.4	COULD NOT WRITE DISCERNING- QUESTION. NEW K/A FHS-G2.1.27
1/2 SRO	A328AA2.04	COULD NOT WRITE DISCERNING- QUESTION. NEW K/A A328-AA2.05
2/2 SRO	SFS-G2.4.17	COULD NOT WRITE DISCERNING- QUESTION. NEW K/A SFS-G2.1.28

Facility: <u>VCS UNIT 2</u>		Date of Exam: <u>9-12-16</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.	SC	AC	MB			
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	SC	AC	MB			
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	SC	AC	MB			
4. The sampling process was random and systematic (If more than four RO or two SRO questions were repeated from the last two NRC licensing exams, consult the NRR/NRO OL program office).	SC	AC	MB			
5. Question duplication from the licensee 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 checked="" type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)	SC	AC	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			
	18 / 20	12 / 18	69 / 72	SC	AC	MB
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				
	45 / 24	55 / 76		SC	AC	MB
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	SC	AC	MB			
9. Question content conforms to specific K/A statements in the previously approved examination outline and is appropriate for the tier to which they are assigned; deviations are justified.	SC	AC	MB			
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	SC	AC	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.	SC	AC	MB			
Printed Name / Signature			Date			
a. Author	<u>Scott C Dimele / SC Dimele</u>			<u>9-6-16</u>		
b. Facility Reviewer (*)	<u>ALBERT C. HARRIS / ACH</u>			<u>9/6/16</u>		
c. NRC Chief Examiner (#)	<u>MARK A. BATES / Mark A. Bates</u>			<u>9/6/16</u>		
d. NRC Regional Supervisor	<u>Gugene Costantini / EC Costantini</u>			<u>9/7/16</u>		
Note:	* The facility reviewer's initials or signature are not applicable for NRC-developed examinations.					
	# Independent NRC reviewer initials items in Initial column c; chief examiner concurrence required.					

Q	1.		3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Backward	Q - K/A	SRO Only			
1	H	2												M	S	CASK6.03 No changes from what was agreed upon during development.
2	F	2												B	S	CNSG2.2.17 No changes from what was agreed upon during development. Q31 on May 2015 exam.
3	H	2												N	S	CVSA4.11 No changes from what was agreed upon during development.
4	F	2												N	S	DASK4.01 No changes from what was agreed upon during development.
5	H	2												B	S	ECSK6.09 No changes from what was agreed upon during development.
6	H	2												B	S	IDSA3.01 No changes from what was agreed upon during development.
7	H	2												M	S	IDSK1.03 No changes from what was agreed upon during development.
8	F	2												M	S	MSSA3.05 No changes from what was agreed upon during development. Q41 on May 2015 exam.
9	F	2												M	S	PCSK4.03 No changes from what was agreed upon during development.

Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/ F	Cred. Dist	Partial	Job- Link	Minutia	# / Units	Back ward	Q - K/A	SRO Only			
10	F	2												B	S	PXSA4.03 No changes from what was agreed upon during development.
11	H	2												B	S	RCPK3.01 No changes from what was agreed upon during development.
12	H	2												B	S	RCSA3.03 No changes from what was agreed upon during development.
13	H	2												B	S	RCSG2.4.7 No changes from what was agreed upon during development.
14	H	2												B	S	ZOSK1.04 No changes from what was agreed upon during development. Q60 on May 2015 exam.
15	H	2												M	S	CDSA4.04 No material changes from what was agreed upon during development.
16	F	2												N	S	FPSK6.08 No material changes from what was agreed upon during development.
17	H	2												B	S	SFSK5.03 No changes from what was agreed upon during development.
18	F	2												N	S	WLSK1.07 No changes from what was agreed upon during development.
19	F	2												N	S	G2.1.18

Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation	
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/ F	Cred. Dist	Partial	Job- Link	Minutia	#/ Units	Back ward	Q - K/A	SRO Only				
																	No changes from what was agreed upon during development.
20	F	2												N	S	G2.1.33 No changes from what was agreed upon during development.	
21	F	2												N	S	G2.3.4 No changes from what was agreed upon during development.	
22	H	2												B	S	G2.3.5 No changes from what was agreed upon during development.	
23	F	2												B	S	G2.3.6 Note: RO LOK was evaluated and determined to be sat. ROs must know under what plant conditions an SRO can give permission to enter a LHRA and under what plant conditions require HP approval to enter a LHRA. Determined to be information related to RO duties by both CE and licensee. No changes from what was agreed upon during development.	
24	H	2												B	S	A-313AA2.05 No changes from what was agreed upon during development.	
25	H	2												N	S	E-0EK3.10 No material changes from what was agreed upon during development.	
26	H	2												N	S	ES-0.2EA1.07 No changes from what was agreed upon during development.	
27	H	2												N	S	ES-1.1EA2.03 No changes from what was agreed upon during development.	
28	H	2												N	S	ES-1.4EA2.04	

Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation	
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/ F	Cred. Dist	Partial	Job- Link	Minutia	#/ Units	Back ward	Q - K/A	SRO Only				
																	No changes from what was agreed upon during development.
29	F	2												N	S	FR-C.1G2.4.6 No changes from what was agreed upon during development.	
30	H	2												M	S	A-302AA.01 No changes from what was agreed upon during development.	
31	H	2												N	S	A-306G2.4.4 Only minor changes made in rad level.	
32	F	2												N	S	A-314AK3.03 No changes from what was agreed upon during development.	
33	F	2												N	S	A-318AA1.03 All previous comments incorporated.	
34	F	2												N	S	ES-1.2EA1.09 No changes from what was agreed upon during development.	
35	F	2												N	S	CCSK5.01 No changes from what was agreed upon during development.	
36	F	2												N	S	CNSK4.05 Changes made to replace second half from question constructed during development.	
37	H	2												M	S	ECSK5.04 No changes from what was agreed upon during development.	
38	H	2												N	S	PPCSA1.14	

Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation	
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/ F	Cred. Dist	Partial	Job- Link	Minutia	#/ Units	Back ward	Q - K/A	SRO Only				
																	No changes from what was agreed upon during development.
39	H	2												M	S		PRHRK2.01 No changes from what was agreed upon during development.
40	H	2												N	S		RNSA2.10 No changes from what was agreed upon during development.
41	H	2												N	S		RTSK3.12 No changes from what was agreed upon during development.
42	F	2												N	S		SGSK2.04 First half modified.
43	H	2												N	S		SGSK5.02 No changes from what was agreed upon during development.
44	F	2												N	S		SWSK1.01 First half modified.
45	F	2												N	S		ZOSA1.01 No changes from what was agreed upon during development.
46	F	2												N	S		FHSG2.1.27 No changes from what was agreed upon during development.
47	F	2												N	S		VLSA2.02 No changes from what was agreed upon during development.
48	F	2												N	S		IISK3.02 Stem condition changed first half answer.

Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/ F	Cred. Dist	Partial	Job- Link	Minutia	#/ Units	Back ward	Q - K/A	SRO Only			
49	F	2												N	S	PLCSK4.07 No changes from what was agreed upon during development.
50	F	2												B	S	RMSA3.01 No changes from what was agreed upon during development.
51	H	2												M	S	G2.1.40 No changes from what was agreed upon during development.
52	H	2												N	S	G2.2.15 No material changes.
53	H	2												B	S	G2.2.30 No changes from what was agreed upon during development.
54	F	2												N	S	G2.4.23 Expected changes made.
55	H	2												N	S	G2.4.37 No changes from what was agreed upon during development.
56	F H	2												N	S	VFSA1.07 Q should be 'H' not 'F'.
57	H	2												N	S	ESASA2.33 Q analysis updated.
58	H	2												N	S	FWSK6.11 No changes from what was agreed upon during development.
59	F	2												N	S	SDP-5EK2.02


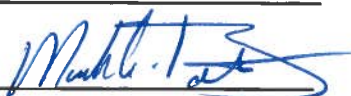
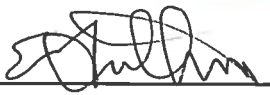
Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation	
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/ F	Cred. Dist	Partial	Job- Link	Minutia	# / Units	Back ward	Q – K/A	SRO Only				
																	No changes from what was agreed upon during development.
60	H	2												N	S	SDP-6EK2.01 No changes from what was agreed upon during development.	
61	H	2												N	S	ADS-G2.4.2 No changes from what was agreed upon during development.	
62	H	2												N	S	A-307AK1.03 No changes from what was agreed upon during development.	
63	H	2												N	S	A-317AK2.02 No material changes from what was agreed upon during development.	
64	H	2												N	S	A-323AK2.02 No changes from what was agreed upon during development.	
65	H	2												N	S	A-329AK1.04 No material changes from what was agreed upon during development.	
66	F	2												N	S	A-336AK3.03 No changes from what was agreed upon during development.	
67	H	2												N	S	A-337AA1.02 No changes from what was agreed upon during development.	
68	F	2												N	S	A-345G2.4.4 No changes from what was agreed upon during development.	
69	H	2												N	S	E-3G2.4.24	

Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation	
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/F	Cred. Dist	Partial	Job-Link	Minutia	# / Units	Back ward	Q - K/A	SRO Only				
																	No changes from what was agreed upon during development.
70	H	2												B	S	ECA-1.1EA1.03 No changes from what was agreed upon during development.	
71	H	2												N	S	FR-H.1EK2.05 No material changes from what was agreed upon during development.	
72	F	2												N	S	SDP-1EK3.17 No changes from what was agreed upon during development.	
73	F	2												N	S	SDP-2EK1.17 No material changes from what was agreed upon during development.	
74	F	2												N	S	FH-H.2G2.1.19 No changes from what was agreed upon during development.	
75	H	2												N	S	FR-I.1EK1.01 No material changes from what was agreed upon during development.	
SRO EXAM																	
1	H	2												N	S	E-0EA2.03 No changes from what was agreed upon during development.	
2	F	2												B	S	ES-1.2G2.1.18 No material changes from what was agreed upon during development.	

Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/ F	Cred. Dist	Partial	Job- Link	Minutia	#/ Units	Back ward	Q – K/A	SRO Only			
3	H	2												M	S	FR-C.3G2.4.14 No changes from what was agreed upon during development.
4	H	2												M	S	MSSA.2.07 No changes from what was agreed upon during development.
5	H	2												B	S	RCSA.2.30 No changes from what was agreed upon during development. Note: 2015 NRC exam Q8.
6	F	2												N	S	G2.2.11 No material changes from what was agreed upon during development.
7	H	2												B	S	G2.2.2 No changes from what was agreed upon during development.
8	F	2												B	S	G2.3.2 No changes from what was agreed upon during development.
9	H	2												B	S	G2.4.24 No material changes from what was agreed upon during development.
10	H	2												N	S	A337AA2.01 Second half of Q modified.
11	F	2												N	S	FR-S.1G2.4.7 No material changes from what was agreed upon during development.
12	H	2												N	S	SDP-1G2.4.36

Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation	
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/ F	Cred. Dist	Partial	Job- Link	Minutia	# / Units	Back ward	Q - K/A	SRO Only				
																	No changes from what was agreed upon during development.
13	H	2												N	S	RNSG2.4.39 No material changes from what was agreed upon during development.	
14	F	2												N	S	DRCSA2.08 No changes from what was agreed upon during development.	
15	H	2												N	S	IISG2.4.7 Expected changes made.	
16	H	2												N	S	SFSG2.1.28 Expected changes made.	
17	H	2												N	S	G2.3.9 Half of Q replaced.	
18	H	2												N	S	G2.1.2 No changes from what was agreed upon during development.	
19	H	2												N	S	ES-0.1G2.1.27 No changes from what was agreed upon during development.	
20	H	2												N	S	SDP-2EA2.05 No material changes from what was agreed upon during development.	
21	F	2												N	S	A-328AA2.05 No material changes from what was agreed upon during development.	
22	H	2												N	S	CASG2.2.17	

Q	1.	2.	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. B, M, N	7. U, E, S	8. Explanation	
	LOK (F/H)	LOD (1-5)	Stem Focus	Cues	T/ F	Cred. Dist	Partial	Job- Link	Minutia	# / Units	Back ward	Q - K/A	SRO Only				
																	Expected changes made.
23	H	2												N	S		PCSG2.1.14 No changes from what was agreed upon during development.
24	H	2												N	S		A-306AA2.03 Expected changes made.
25	F	2												N	S		G2.4.25 No changes from what was agreed upon during development.

Facility: V.C. Summer		Date of Exam: 9/29/16	Exam Level: RO <input type="checkbox"/> SRO <input checked="" 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	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 ±2% overall and 70 or 80, as applicable, ±4% on the SRO-only) reviewed in detail	MB	N/A	MB	
5. All other failing examinations checked to ensure that grades are justified	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	Michael G. Donithan 	10/21/16		
b. Facility Reviewer(*)	N/A			
c. NRC Chief Examiner (*)	Mark A. Bates 	10/21/16		
d. NRC Supervisor (*)	Eugene F. Guthrie 	10/21/16		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.				

FOR OFFICIAL USE ONLY

Paul A. Mothena
Manager, Nuclear Training
803.345.4642

June 09, 2016



Mr. Eugene F. Guthrie, Chief
Operations Branch 2
Division of Reactor Safety
U. S. Nuclear Regulatory Commission, Region II
245 Peachtree Center Ave. N.E., Suite 1200
Atlanta, GA 30303-1257

Dear Mr. Guthrie:

Subject: VIRGIL C. SUMMER NUCLEAR STATION UNIT 2
DOCKET NO. 52-027
OPERATING LICENSE NO. NPF-93
REACTOR AND SENIOR REACTOR OPERATOR WRITTEN EXAMINATION AND
SUPPORTING REFERENCE MATERIAL

Based on the guidelines in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors", Revision 10, in particular ES-301, "Preparing Initial Operating Tests," South Carolina Electric & Gas Company is providing the following information for your consideration:

- Enclosure 1 ES-201-2, Examination Outline Quality Checklist
- Enclosure 2 ES-201-3, Examination Security Agreement
- Enclosure 3 ES-401-4, Record of Rejected K/As
- Enclosure 4 ES-401N-5, Sample Written Examination Question Worksheet
- Enclosure 5 ES-401N-6, Written Examination Quality Checklist
- Enclosure 6 Written Exam Hard Copy with Supporting Documentation
- Enclosure 7 Written Exam Electronic Files on DVD-ROM
- Enclosure 8 Supporting Reference Documentation Files on DVD-ROM

The enclosed examination materials have been independently reviewed by Mr. Albert C. Harris, NND Nuclear Operations Manager. In accordance with NUREG-1021, this material must be withheld from public disclosure until the examinations are complete.

Should there be any questions, please contact Mr. Scott C. Dimeler at (803) 931-5409.

Very truly yours,

Paul A. Mothena

KB/PAM/ts
Enclosures

c: (Without Enclosures unless noted)

G. J. McCoy
M. A. Bates
S. C. Dimeler
NRC Resident Inspector
DCRM

RTS (CR-NND-16-00973)
File (814.04, RR 1050)
PRSF (RC-16-0090)

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Paul A. Mothena
Manager, Nuclear Training
803.345.4642

July 22, 2016
NND-16-0285

Mr. Eugene F. Guthrie, Chief
Operations Branch 2
Division of Reactor Safety
U. S. Nuclear Regulatory Commission, Region II
245 Peachtree Center Ave. N.E., Suite 1200
Atlanta, GA 30303-1257

Subject: VIRGIL C. SUMMER NUCLEAR STATION UNIT 2
DOCKET NO. 52-027
OPERATING LICENSE NO. NPF-93
REACTOR AND SENIOR REACTOR OPERATIONAL EXAMINATION AND
SUPPORTING REFERENCE MATERIAL

Dear Mr. Guthrie,

Based on the guidelines in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors", Revision 10, in particular ES-301, "Preparing Initial Operating Tests," South Carolina Electric & Gas Company is providing the following information for your consideration:

- Enclosure 1 ES-201-2, Examination Outline Quality Checklist
- Enclosure 2 ES-201-3, Examination Security Agreement
- Enclosure 3 ES-301-1, Administrative Topics Outline
- Enclosure 4 ES-301-2, Control Room/In-Plant Systems Outline
- Enclosure 5 ES-301-3, Operating Test Quality Checklist
- Enclosure 6 ES-301-4, Simulator Scenario Quality Checklist
- Enclosure 7 ES-301-5, Transient and Event Checklist
- Enclosure 8 ES-301-6, Competencies Checklist
- Enclosure 9 ES-D-1, Scenario Outline
- Operational Exam Electronic Files (including ES-D-2) on DVD-ROM
- Supporting Reference Documentation Files on DVD-ROM

The enclosed examination materials have been independently reviewed by Mr. Albert C. Harris, NND Nuclear Operations Manager. In accordance with NUREG-1021, this material must be withheld from public disclosure until the examinations are complete.

Should there be any questions, please contact Mr. Scott C. Dimeler at (803) 931-5409.

Very truly yours,

A handwritten signature in black ink, appearing to read "Paul A. Mothena". The signature is written in a cursive style with a large initial "P" and "M".

Paul A. Mothena
Manager, Nuclear Training

KB/PAM/ts
Enclosures

c: (Without Enclosures unless noted)
G. J. McCoy
M. A. Bates
S. C. Dimeler
NRC Resident Inspector
DCRM
CR-NND-16-00973

FOR OFFICIAL USE ONLY



Paul A. Mothena
Manager, Nuclear Training
803.345.4642

October 06, 2016
NND-16-0429

Mr. Eugene F. Guthrie, Chief
Operations Branch 2
Division of Reactor Safety
U. S. Nuclear Regulatory Commission, Region II
245 Peachtree Center Ave. N.E., Suite 1200
Atlanta, GA 30303-1257

Subject: Virgil C. Summer Nuclear Station Unit 2
Docket No. 52-027
Operating License No. NPF-93
Post Exam Submittal

Dear Mr. Guthrie,

The V. C. Summer Nuclear Station (VCSNS) Initial Operator License Examination was administered during the weeks of September 12, 2016 and September 19, 2016. The VCSNS Initial License Written Examination was administered on September 29, 2016. VCSNS is enclosing the following as required by Revision 10, of NUREG 1021, "Operator Licensing Examination Standards for Power Reactors:"

1. Graded written examinations;
2. Master examinations and answer keys;
3. Questions asked by and answers given to the applicants during the written examination;
4. Written examination seating chart;
5. Written examination performance analysis; and
6. Original Forms ES-201-3, "Examination Security Agreement."

Should there be any questions, please contact Mr. Scott C. Dimeler at (803) 931-5409.

Respectfully,
John H. Hunsicker / HUNSIKSR
for Paul A. Mothena
Paul A. Mothena
Manager, Nuclear Training

KB/PAM/ts
Enclosures

c: (Without Enclosures unless noted)
C. Haney
M. A. Bates
S. C. Dimeler

NRC Resident Inspector
DCRM
CR-NND-16-00973