

ES-201

Examination Preparation Checklist

Form ES-201-1

Facility: <u>V.C. Summer Unit 2</u>		Date of Examination: <u>5/9/2017</u>
Developed by: Written: <u>N/A</u> Facility <input 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)	<u>CB</u>
-150	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	<u>CB</u>
-150	3. Facility contact briefed on security and other requirements (C.2.c)	<u>CB</u>
-150	4. Corporate notification letter sent (C.2.d)	<u>CB</u>
[-120]	5. Reference material due (C.1.e; C.3.c; Attachment 3)	<u>N/A</u>
{-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)	<u>CB</u>
{-85}	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	<u>CB</u>
{-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)	<u>CB</u>
-45	9. Written exam and operating test reviews completed. (C.3.f)	<u>CB</u>
-30	10. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	<u>CB</u>
-21	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	<u>CB</u>
-21	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	<u>CB</u>
-14	13. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	<u>CB</u>
-14	14. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	<u>CB</u>
-7	15. Facility licensee management queried regarding the licensee's views on the examination. (C.2.j)	<u>CB</u>
-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)	<u>CB</u>
-7	17. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	<u>N/A</u>
-7	18. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	<u>CB</u>
<p>* Target dates are generally based on facility-prepared examinations and are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.</p> <p>[Applies only] {Does not apply} to examinations prepared by the NRC.</p>		

Facility: VC SUMMER UNITS 2 AND 3		Date of Examination: 5-9-17		
Item	Task Description	Initials		
		a	b*	c**
1. WRITTEN	a. Verify that the outline(s) fit(s) the appropriate model in accordance with ES-401 or ES-401N.			
	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.			
	c. Assess whether the outline overemphasizes any systems, evolutions, or generic topics.			
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.			
2. SIMULATOR	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.			
	b. Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and that scenarios will not be repeated on subsequent days.			
	c. To the extent possible, assess whether the outline(s) conforms with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D and in Section D.5, "Specific Instructions for the 'Simulator Operating Test,'" of ES-301 (including overlap).			
3. WALKTHROUGH	a. Verify that the systems walkthrough outline meets the criteria specified on Form ES-301-2: (1) The outline(s) contains 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 applicant's 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 radiologically controlled area tasks meets the criteria on the form.	SC	MM	CB
	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	MM	CB
	c. Determine whether 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	MM	CB
4. GENERAL	a. Assess whether plant-specific priorities (including probabilistic risk assessment and individual plant examination insights) are covered in the appropriate exam sections.	SC	MM	CB
	b. Assess whether the 10 CFR 55.41, 55.43, and 55.45 sampling is appropriate.	SC	MM	CB
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	SC	MM	CB
	d. Check for duplication and overlap among exam sections and the last two NRC exams.	SC	MM	CB
	e. Check the entire exam for balance of coverage.	SC	MM	CB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	SC	MM	CB
a. Author: SCOTT C. DIMELER / <i>SC Dimeler</i> b. Facility Reviewer (*): ALBERT C. HARRIS / <i>MM</i> c. NRC's Chief Examiner (#): DANIEL M. BACON / <i>Daniel M. Bacon</i> d. NRC Supervisor: JAMES F. GUTHRIE / <i>J. Guthrie</i>		Date: 3-22-17 3-22-17 3/30/2017 3/30/2017		

* Not applicable for NRC-prepared examination outlines.
 # The independent NRC reviewer initials items in column "c"; the chief examiner's concurrence is required.

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for the week(s) of MAY 2017 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's 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's 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 MAY 2017. 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 Dimela	Exam Author	<i>Scott Dimela</i>	3-5-17	* * SEE NOTE AND ATTACHED	5/10/17	
2. BERT LOSAR	Exam Author	<i>Bert Losar</i>	3-5-17		5/10/17	
3. Mike Carter	Exam Author	<i>Mike Carter</i>	3-6-17		5/10/17	
4. Chris Harniss	Exam Author	<i>Chris Harniss</i>	3-6-17		5/10/17	
5. Scott Meyer	Exam Supervisor	<i>Scott Meyer</i>	3-7-17		5/11/17	
6. Allen W. W.	Exam Supervisor	<i>Allen W. W.</i>	3-7-17		5/11/17	
7. Mike Sanders	Exam Supervisor	<i>Mike Sanders</i>	3-7-17		5/11/17	
8. Andrew Lebara	Exam Supervisor	<i>Andrew Lebara</i>	3-7-17		5/11/17	
9. Bob Lebara	Exam Supervisor	<i>Bob Lebara</i>	3-7-17		5/11/17	
10. Dan Kordak	Exam Supervisor	<i>Dan Kordak</i>	3-7-17		5/11/17	
11. Peter Babin	Exam Supervisor	<i>Peter Babin</i>	3-7-17		5/11/17	
12. Holly Vassicklin	Exam Supervisor	<i>Holly Vassicklin</i>	3-7-17		5/11/17	
13. Albert Adams	Exam Supervisor	<i>Albert Adams</i>	3-7-17		5/11/17	
14. Tim Bennett	Exam Supervisor	<i>Tim Bennett</i>	3-7-17		5/11/17	
15. Richard MacCann	Exam Supervisor	<i>Richard MacCann</i>	3-7-17		5/11/17	

NOTES:

* Signed off per EMEC communication
 * Signed off via fax see attached
 EMEC ATTACHED
 copy of Page 1
 ES-201, Page 31 of 32

XX
 Copy of Page 1 For Scott Dimeler
 Signature of

VCS UNIT 2 CLASS 2 + + PAGE 1 of 2

1. Pre-Examination

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PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. Scott Dimeler	EXAM Author	<i>Scott Dimeler</i>	3-5-17	<i>Scott Dimeler</i>	5-16-17	
2. BEAT LOSBAR	EXAM Author	<i>Beat Losbar</i>	3-5-17	<i>Beat Losbar</i>	5-16-17	
3. MILE CARLIS	EXAM Author	<i>Mile Carlis</i>	3-5-17	<i>Mile Carlis</i>	5-16-17	
4. CHRIST HARRIS	EXAM Author	<i>Christ Harris</i>	3-5-17	<i>Christ Harris</i>	5-16-17	
5. Scott Meyer	EXAM Author	<i>Scott Meyer</i>	3-5-17	<i>Scott Meyer</i>	5-16-17	
6. JILL WILKIN	EXAM Author	<i>Jill Wilkin</i>	3-5-17	<i>Jill Wilkin</i>	5-16-17	
7. JIMMY SANCHEZ	EXAM Author	<i>Jimmy Sanchez</i>	3-5-17	<i>Jimmy Sanchez</i>	5-16-17	
8. JIMMY SANCHEZ	EXAM Author	<i>Jimmy Sanchez</i>	3-5-17	<i>Jimmy Sanchez</i>	5-16-17	
9. JIMMY SANCHEZ	EXAM Author	<i>Jimmy Sanchez</i>	3-5-17	<i>Jimmy Sanchez</i>	5-16-17	
10. JIMMY SANCHEZ	EXAM Author	<i>Jimmy Sanchez</i>	3-5-17	<i>Jimmy Sanchez</i>	5-16-17	
11. JIMMY SANCHEZ	EXAM Author	<i>Jimmy Sanchez</i>	3-5-17	<i>Jimmy Sanchez</i>	5-16-17	
12. JIMMY SANCHEZ	EXAM Author	<i>Jimmy Sanchez</i>	3-5-17	<i>Jimmy Sanchez</i>	5-16-17	
13. JIMMY SANCHEZ	EXAM Author	<i>Jimmy Sanchez</i>	3-5-17	<i>Jimmy Sanchez</i>	5-16-17	
14. JIMMY SANCHEZ	EXAM Author	<i>Jimmy Sanchez</i>	3-5-17	<i>Jimmy Sanchez</i>	5-16-17	
15. JIMMY SANCHEZ	EXAM Author	<i>Jimmy Sanchez</i>	3-5-17	<i>Jimmy Sanchez</i>	5-16-17	

NOTES:

* Signed off per EPCAR Communication, EPCAR ATTORNEYS

ES-201

Examination Security Agreement









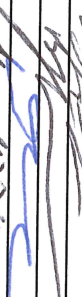




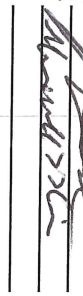
Form ES-201-3

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PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. JOHN VARNADORE	OPS MENTOR/VALIDATOR		4/3/17		5/10/17	
2. Alex Raetz	OPS MENTOR/VALIDATOR		4/10/17		5/10/17	
3. Alex Schwartz	VALIDATOR		4/10/17		5/10/17	
4. Kevin Fisher	VALIDATOR		5-8-17		5-15-17	
5. David Gibson	SUPERVISOR		5/8/17		5/10/17	
6. David Gibson	OPS / Training		5-9-17		5/10-17	
7. Matthew L. Kier	CAS		5-9-17		5/10/17	
8.						
9.						
10.						
11.						
12.						
13.						
14.						
15.						

NOTES:

HAMILTON, CHRISTOPHER B

From: BONNETTE, EDWARD T
Sent: Monday, May 15, 2017 8:14 AM
To: HAMILTON, CHRISTOPHER B; KOSBAR, BERT L
Subject: RE: Signing off VCS 2/3 NRC Class 2++ NRC Security Agreement

Please use this email as my sign-off that I had no contact with either of the Operators in the NRC Operating Exam (JPMs) for VCS 2/3 Class 2++. Please remove me from the agreement. The badge I had has been turned in to Dan Zielinski.

Thank you,

Tim Bonnette

From: HAMILTON, CHRISTOPHER B
Sent: Monday, May 15, 2017 8:11 AM
To: BONNETTE, EDWARD T <EDWARD.BONNETTE@scana.com>; HARRIS, ALBERT CLARK <AHARRIS@scana.com>; FIEBER, KEVIN LYLE <KEVIN.FIEBER@scana.com>; WYNN, ALLEN R <ALLEN.WYNN@scana.com>; SANDERS, MICHAEL G <MICHAEL.SANDERS@scana.com>; PETRARCA, ANDREW JAMES <ANDREW.PETRARCA@scana.com>; LAWTER, JODY A <JODY.LAWTER@scana.com>; POPADAK, PAUL <PAUL.POPADAK@scana.com>; BALCH, KEVIN <KEVIN.BALCH@scana.com>
Cc: KOSBAR, BERT L <BERT.KOSBAR@scana.com>; MEIER, SCOTT D <SCOTT.MEIER@scana.com>
Subject: Signing off VCS 2/3 NRC Class 2++ NRC Security Agreement

Gentleman,

We completed our NRC Operating Exam (JPMs) for VCS 2/3 Class 2++ last week, and NRC security has been removed for this exam. When you have a chance, can you please come by the NLC Annex Exam Development Room to sign off of the security agreement and turn in you red badge.

If you cannot make it here, please let myself or Bert Kosbar know, so that we can determine a plan to meet up for the sign-off.

Thanks,
Chris Hamilton

Facility: <u>VC SUMMER UNIT 2</u> Date of Examination: <u>5-9-17</u> Operating Test Number: <u>CLASS 2</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	AL	CB
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	SC	AL	CB
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	SC	AL	CB
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	SC	AL	CB
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	SC	AL	CB
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	AL	CB
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	AL	CB
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		
Printed Name / Signature		Date		
a.	Author <u>Scott C. Dimeler / Scott C. Dimeler</u>	<u>4-11-17</u>		
b.	Facility Reviewer(*) <u>ALBERT C. HARRIS / Albert C. Harris</u>	<u>4-12-17</u>		
c.	NRC Chief Examiner (#) <u>Daniel M. Bacon / Daniel M. Bacon</u>	<u>5-1-2017</u>		
d.	NRC Supervisor <u>Eugene Guthrie / Eugene Guthrie</u>	<u>5/5/17</u>		
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				



Paul A. Mothena
Manager, Nuclear Training
803.345.4642

March 24, 2017
NND-17-0175

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
Senior Reactor Operator Initial Examination Outlines

Dear Mr. Guthrie:

Based on the guidelines in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 10, in particular ES-201, "Initial Operator Licensing Examination Process" and ES-301, "Preparing Initial Operating Tests," South Carolina Electric & Gas Company (SCE&G) has enclosed 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

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.

Respectfully,

Paul A. Mothena
Manager, Nuclear Training

BR/PAM/kb
Enclosures

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



Paul A. Mothena
Manager, Nuclear Training
803.345.4642

April 10, 2016
NND-17-0197

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
SENIOR REACTOR OPERATIONAL EXAMINATION AND SUPPORTING
REFERENCE MATERIAL

Dear Mr. Guthrie,

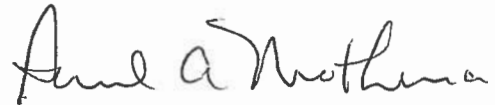
Based on the guidelines in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 10, in particular ES-301, "Preparing Initial Operating Tests," South Carolina Electric & Gas Company is providing the following information for your consideration:

- 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 Reference Material For JPMs
- Enclosure 7 Actual JPMs

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 fluid and cursive, with the first name "Paul" being more prominent.

Paul A. Mothena
Manager, Nuclear Training

BR/PAM/kb
Enclosures

c: (Without Enclosures unless noted)
G. J. McCoy
M. A. Bates
S. C. Dimeler
NRC Resident Inspector
DCRM
CR-NND-17-0197