

Facility: Harris Nuclear Plant Date of Examination: 03/05/2018

Developed by: Written: Facility  NRC  // Operating Facility  NRC

Target Date*	Task Description (Reference)	Chief Examiner's Initials
-240	1. Examination administration date confirmed (C.1.a; C.2.a-b). For NRC-prepared exams, arrangements are made for the facility to submit reference materials (C.1.e; C.3.c; Attachment 3).	UB
-210	2. NRC examiners and facility contact assigned (C.1.d; C.2.f).	UB
-210	3. Facility contact briefed on security and other requirements (C.2.c). As applicable, the facility contact submits to the NRC any prescreened K/As for elimination from the written examination outline, with a description of the facility's prescreening process (ES-401, D.1.b).	UB
-210	4. Reference material due for NRC-prepared exams (C.1.e; C.3.c; Attachment 3).	N/A
-210	5. Corporate notification letter sent (C.2.e).	UB
-195	6. NRC-developed written examination outline (ES-401-1/2 or ES-401N-1/2 and ES-401-3 or ES-401N-3) sent to facility contact (must be on the exam security agreement) (C.1.e-f; C.2.h; C.3.d-e).	UB
-150	7. Operating test outline(s) and other checklists due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, and ES-D-1, as applicable (C.1.e-f; C.3.d-e).	UB
-136	8. Operating test outline(s) reviewed by the NRC and feedback provided to facility licensee (C.2.h; C.3.d-e).	UB
-75	9. Proposed examinations (written, JPMs, and scenarios, as applicable) and outlines (Forms ES-301-1, ES-301-2, ES-D-1, ES-401-1/2 or ES-401N-1/2, and ES-401-3 or ES-401N-3); supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, ES-401-6, ES-401N-6, and any Form ES-201-2 and ES-201-3 updates); and reference materials due (C.1.e-h; C.3.d).	UB
-75	10. Examinations prepared by the NRC are approved by the NRC supervisor and forwarded for facility licensee review (C.1.i; C.2.h; C.3.f-g).	N/A
-60	11. Preliminary waiver/excusal requests due (C.1.m; C.2.c; ES-202).	UB
-50	12. Written exam and operating test reviews completed (C.3.f).	UB
-35	13. Examination review results discussed between the NRC and facility licensee (C.1.j; C.1.k-l; C.2.h; C.3.g). The NRC and the facility licensee conduct exam preparatory week.	UB
-30	14. Preliminary license applications and waiver/excusal requests, as applicable (NRC Form 398) due (C.1.m; C.2.i; ES-202).	UB
-14	15. Final license applications and waiver/excusal requests, as applicable (NRC Form 398), due and Form ES-201-4 prepared (C.1.m; C.2.k; ES-202).	UB
-7	16. Written examinations and operating tests approved by the NRC supervisor (C.2.j-k; C.3.h).	UB
-7	17. Request facility licensee management feedback on the examination (C.2.l).	UB
-7	18. Final applications reviewed; one or two (if more than 10) applications audited to confirm qualifications/eligibility; and examination approval and waiver/excusal letters sent (C.2.k; Attachment 5; ES-202, C.3.j; ES-204).	UB
-7	19. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k).	UB
-7	20. Approved scenarios and job performance measures distributed to NRC examiners (C.3.i).	UB

\* Target dates are based on facility-prepared examinations and the examination date identified in the corporate notification letter. These dates are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.

- DRAFT WRITTEN EXAM SAMPLE PLAN ONLY -

ES-201

Examination Outline Quality Checklist

Form ES-201-2

Facility: <b>HARRIS</b>		Date of Examination: <b>MARCH 2018</b>		
Item	Task Description	Initials		
		a	b*	c**
WRITTEN	a. Verify that the outline(s) fit(s) the appropriate model in accordance with ES-401 or ES-401N.	M	N/A	U
	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.	M	N/A	U
	c. Assess whether the outline overemphasizes any systems, evolutions, or generic topics.	M	N/A	U
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	M	N/A	U
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).			
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.	N		A
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) The tasks are distributed among the topics as specified on the form. (2) At least one task is new or significantly modified. (3) No more than one task is repeated from the last two NRC licensing examinations.			
	c. Determine 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.			
GENERAL	a. Assess whether plant-specific priorities (including probabilistic risk assessment and individual plant examination insights) are covered in the appropriate exam sections.	M	N/A	U
	b. Assess whether the 10 CFR 55.41, 55.43, and 55.45 sampling is appropriate.	M	N/A	U
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	M	N/A	U
	d. Check for duplication and overlap among exam sections and the last two NRC exams.	N/A	N/A	N/A
	e. Check the entire exam for balance of coverage.	M	N/A	U
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	M	N/A	U
a. Author	<u>MICHAEL MEERS</u> / <u>Michael Meers</u>	Date: <u>05/16/17</u>		
b. Facility Reviewer (*)	<u>N/A</u>	Date: <u>N/A</u>		
c. NRC's Chief Examiner (#)	<u>Daniel M. Bacon</u> / <u>Daniel M. Bacon</u>	Date: <u>05/16/17</u>		
d. NRC Supervisor	<u>Eugene Guthrie</u> / <u>Eugene Guthrie</u>	Date: <u>5/7/17</u>		
* Not applicable for NRC-prepared examination outlines. # The independent NRC reviewer initials items in column "c"; the chief examiner's concurrence is required.				

- DRAFT WRITTEN EXAM SAMPLE PLAN ONLY -

Facility: Harris Nuclear Plant		Date of Examination: March 5, 2018		
Item	Task Description	Initials		
		a	b*	c**
WRITTEN	1. a. Verify that the outline(s) fit(s) the appropriate model in accordance with ES-401 or ES-401N.	<del>/</del>	<del>/</del>	<del>/</del>
	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.	N		A**
	c. Assess whether the outline overemphasizes any systems, evolutions, or generic topics.	<del>/</del>	<del>/</del>	<del>/</del>
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	<del>/</del>	<del>/</del>	<del>/</del>
SIMULATOR	2. 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.	L	SR	CB
	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.	L	SR	CB
	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).	L	SR	CB
WALKTHROUGH	3. 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.	L	SR	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.	L	SR	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.	L	SR	CB
GENERAL	4. a. Assess whether plant-specific priorities (including probabilistic risk assessment and individual plant examination insights) are covered in the appropriate exam sections.	L	SR	CB
	b. Assess whether the 10 CFR 55.41, 55.43, and 55.45 sampling is appropriate.	L	SR	CB
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	L	SR	CB
	d. Check for duplication and overlap among exam sections and the last two NRC exams.	L	SR	CB
	e. Check the entire exam for balance of coverage.	L	SR	CB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	L	SR	CB
a. Author <u>Archie Lucky / Archie Lucky</u> b. Facility Reviewer (*) <u>Scott Rua / Scott Rua</u> c. NRC Chief Examiner (#) <u>Daniel M. Bacon / Daniel M. Bacon</u> d. NRC Supervisor <u>Gerald J. McCarty / Gerald J. McCarty</u>		Printed Name/Signature Date 2-28-18 2-28-18 2-28-2018 3/2/2018		
* Not applicable for NRC-prepared examination outlines. # The independent NRC reviewer initials items in column "c"; the chief examiner's concurrence is required. ** Written Exam outline provided by the NRC (Dan Bacon) on 6/6/2017				



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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 03-05-18 and 03-12-18 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 03-05-18 and 03-12-18. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Scott Rua</u>	HNP Regulated Exam Supervisor		5-24-17		3-15-18	
2. <u>Archie Lucky</u>	Exam Author		6-1-17		3-15-18	
3. <u>LICIA AND JES HEATER</u>	Nuc-ops / Exam team		6-1-7		3-15-18	
4. <u>James R Graydis</u>	OPS INSTRUCTOR		6-1-17		3-15-18	
5. <u>Simmie Cox</u>	OPS INSTRUCTOR		6-1-17		3-15-18	
6. <u>TRUC DUONG</u>	SIM SUPPORT		6-20-17		3-15-18	
7. <u>Robert Stephenson</u>	CRS		6-29-17		3-27-18	
8. <u>Ron Bright</u>	Sim Support		7/21/17		3-15-18	
9. <u>Ron Celand</u>	Sim Support		9/21/17		3/15/18	
10. <u>Robert Bolin</u>	Fleet Review		10/17/17			Ⓛ
11. <u>Roster Miller</u>	Fleet Review		10/17/17			Ⓛ
12. <u>DAVE BOLETTE</u>	FLEET REVIEW		10/17/17			Ⓛ
13. <u>Becky Smith</u>	Dr. Admin Specialist		10/18/17		3-15-18	
14. <u>Justin Kelly</u>	RO		10/24/17		3-15-18	
15. <u>TIM ENGELIN</u>	SM		10/25/17		3/15/18	

NOTES: Ⓛ SIGNED OFF VIA EMAIL



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1. Pre-Examination

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2. Post-Examination

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. LEWIS ROGERS	Ro	<i>[Signature]</i>	10-25-17	<i>[Signature]</i>	3-15-18	
2. DAN BARNETT	CRS	<i>[Signature]</i>	20/25/17	<i>[Signature]</i>	3-15-18	
3. SCOTT FAULKNER	CRS	<i>[Signature]</i>	10/26/17	<i>[Signature]</i>	3-15-18	
4. JUSTIN R. DEWITT	RO	<i>[Signature]</i>	11-1-17	<i>[Signature]</i>	3-20-18	
5. JASON SWAIN	Ro	<i>[Signature]</i>	11-1-17	<i>[Signature]</i>	3/20/18	
6. Michael L. Broomfield	CRS	<i>[Signature]</i>	11/1/17	<i>[Signature]</i>	3/22/18	
7. TRIST PUMMER	CRS	<i>[Signature]</i>	11-1-17	<i>[Signature]</i>	3-26-18	
8. RYAN LIPSKY	SIM SUPPORT	<i>[Signature]</i>	11/1/17	<i>[Signature]</i>	3/16/18	
9. KEN PACE	SIM SUPPORT	<i>[Signature]</i>	11/1/17	<i>[Signature]</i>	3/15/18	
10. RICHARD SYLVESTER	CRS	<i>[Signature]</i>	11-2-17	<i>[Signature]</i>	3-24-18	
11. Eric Blankenmyer	RO	<i>[Signature]</i>	11-5-17	<i>[Signature]</i>	3-22-18	
12. Lonnie Hickenbottom	Shift Manager	<i>[Signature]</i>	11-7-17	<i>[Signature]</i>	3/27/18	
13. Michael Hinman	RO/Validation	<i>[Signature]</i>	11-7-17	<i>[Signature]</i>	3-27-18	
14. Randal Catalano	CRS	<i>[Signature]</i>	11/9/17	<i>[Signature]</i>	3/22/18	
15. RICK GARNER	OTM	<i>[Signature]</i>	12/1/17	<i>[Signature]</i>	3/15/18	

NOTES:  SIGNED OFF VIA EMAIL  *[Handwritten]*

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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 03-05-18 and 03-12-18 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 03-05-18 and 03-12-18. 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
31. Kelly Kelly	SM		12/19/17		3/20/18	
32. Greg Swann	RO		12/19/17		3/23/18	
33. Dave Bunt	SRO		12/19/17		3/15/18	
4. Anthony Griffin	RO		12-20-17		3-27-18	
5. CURTIS BOWICK	RO		1-26-18		3-22-18	
6. Bruce Horne	RO		2/6/18		3/22/18	
7. James O'Keefe	AOM-Shift		2-13-18		3-20-18	
8. Dawn M. Lincicum	RO		2-15-18		3-16-18	
9. Patrick Boylan	RO		2/15/18		3/20/18	
40 10. Edward Bertram	Training Supervisor		2/23/18		3/20/18	
11. Richard Howard	CRS		2-24-18		3-16-2018	
12. Bradley A Rouse	RO		2/25/18		3/16/18	
13. Rickard S. Senger	OPS Instructor		3/5/18		3/15/18	
14. Louis V Parente	Training Supervisor		3/5/18		3/15/18	
45 15. Michael Von Bergen	Ops Instructor		3/5/18		3/15/18	

NOTES:



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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 3/5/18 and 3/12/18 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 3/5/18 and 3/12/18. 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.

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	PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
46 1	Steve Carter	ops instructor 12		3/5/18		3/15/18	
2	JASON COOK	OPS INSTRUCTOR (#3)		3/5/18		3/15/18	
3	Richard Vandenberg	Acn		3/5/18		3/20/18	
4	Josh LANGRISH	ILT instructor		3/5/18		3/15/18	
5	Gabe Moreno	CRSI sm		3/8/18		3/27/18	
6	SCOTT SCOTT	OPM		3/9/18		3/29/18	
7	Tom Cray	Ops instructor		3/14/18		3/15/18	
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NOTES:

**Horton, J R**

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**From:** Boyette, P Bruce  
**Sent:** Friday, March 16, 2018 6:51 AM  
**To:** Horton, J R  
**Subject:** I did NOT divulge exam related information: 2018 Harris Station NRC Exam Completion



**Horton, J R**

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**From:** Bolin, Bob  
**Sent:** Monday, March 19, 2018 3:49 AM  
**To:** Horton, J R  
**Subject:** I did NOT divulge exam related information: 2018 Harris Station NRC Exam Completion

**Horton, J R**

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**From:** Miller, Rusty E  
**Sent:** Thursday, March 15, 2018 2:24 PM  
**To:** Horton, J R  
**Subject:** RE: 2018 Harris Station NRC Exam Completion

JR,

I agree to the following.

*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 of 3/5/18 and on 3/14/18. 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*

Hope everything went well!  
Rusty

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**From:** Horton, J R  
**Sent:** Thursday, March 15, 2018 2:22 PM  
**To:** Scott, James M; Moreno, Gabe; Vandenberg, Richard J; Rouse, Bradley A; Howard, Richard E; Bertram, Edward Alan; Boylan, Patrick Wayne; McLaughlin, Duane; O'Keefe Jr., James E; Horne, Bruce Scott; Bullock, William Curtis; Griffin, Anthony L; Kelly, Kyle M; Swain, Gregory Don; Catalano, Randal J; Hinman, Michael S; Hickerson, Lonnie; Blankenmyer, Eric; Sylvester, Richard; Lipsky, Ryan M; Plummer, Trent; Swain, Jason D; Bierman Jr., Michael L; Devers, Justin R; English, Tim; Boyette, P Bruce; Miller, Rusty E; Bolin, Bob; Stephenson Sr., Robert D; Horton, J R; Lucky, Archie W  
**Subject:** 2018 Harris Station NRC Exam Completion

To all,

Examination Security has been lifted for the HNP ILC 18-1 NRC Exam. The Operating Exam was administered the week of 3/5/18. The written exam was administered on 3/14/18. The Exam Security forms are located on my desk in the HEEC building on the instructor office wing (Across from C-109). Please come by and sign off the agreement and return your red exam security badge. It is preferred that you sign off in person, however if unable to come by my desk, please use the voting option to sign off of the security agreement. By voting you attest to the following statement:

*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 of 3/5/18 and on 3/14/18. 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*

JR Horton  
Nuc Station Instctr-Ops  
Harris Nuclear Plant  
Duke Energy Progress, Inc  
Email: [richard.horton2@duke-energy.com](mailto:richard.horton2@duke-energy.com)



Facility: Harris Nuclear Plant		Date of Exam: March 5, 2018		Operating Test No.: 05000400/2018301	
1. General Criteria			Initials		
			a	b*	c#
a.	The operating test conforms to the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	L	JR	CB	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	L	JR	CB	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a.).	L	JR	CB	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	L	JR	CB	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	L	JR	CB	
2. Walkthrough Criteria			--	--	--
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> <li>• initial conditions</li> <li>• initiating cues</li> <li>• references and tools, including associated procedures</li> <li>• reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee</li> <li>• operationally important specific performance criteria that include—                         <ul style="list-style-type: none"> <li>- detailed expected actions with exact criteria and nomenclature</li> <li>- system response and other examiner cues</li> <li>- statements describing important observations to be made by the applicant</li> <li>- criteria for successful completion of the task</li> <li>- identification of critical steps and their associated performance standards</li> <li>- restrictions on the sequence of steps, if applicable</li> </ul> </li> </ul>	L	JR	CB	
b.	Ensure that any changes from the previously approved systems and administrative walkthrough outlines (Forms ES-301-1 and ES-301-2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last two NRC examinations) specified on those forms and Form ES-201-2.	L	JR	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.		L	JR	CB	
	Printed Name/Signature	Date			
a.	Author Archie Lucky / <i>Archie Lucky</i>	2-28-18			
b.	Facility Reviewer (*) Scott Rua / <i>Scott Rua</i>	2-28-18			
c.	NRC Chief Examiner (#) Daniel M. Bacon / <i>Daniel M. Bacon</i>	2-28-2018			
d.	NRC Supervisor Gerald S. McCoy / <i>Gerald S. McCoy</i>	3/7/2018			
* The facility licensee signature is not applicable for NRC-developed tests.					
# The independent NRC reviewer initials items in column "c"; the chief examiner concurrence is required.					

Facility: Harris Nuclear Plant Date of Exam: March 5, 2018 Scenario Numbers: 1/ 2/ 3/ 4 Operating Test No.: 05000400/2018301					
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.	L	Jr	cb	
2.	The scenarios consist mostly of related events.	L	Jr	cb	
3.	Each event description consists of the following: <ul style="list-style-type: none"> <li>the point in the scenario when it is to be initiated</li> <li>the malfunction(s) or conditions that are entered to initiate the event</li> <li>the symptoms/cues that will be visible to the crew</li> <li>the expected operator actions (by shift position)</li> <li>the event termination point (if applicable)</li> </ul>	L	Jr	cb	
4.	The events are valid with regard to physics and thermodynamics.	L	Jr	cb	
5.	Sequencing and timing of events is reasonable and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	L	Jr	cb	
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.	L	Jr	cb	
7.	The simulator modeling is not altered.	L	Jr	cb	
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.	L	Jr	cb	
9.	Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.	L	Jr	cb	
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	L	Jr	cb	
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.)	L	Jr	cb	
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).	L	Jr	cb	
13.	Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.	L	Jr	cb	
14.	The level of difficulty is appropriate to support licensing decisions for each crew position.	L	Jr	cb	
Target Quantitative Attributes per Scenario (See Section D.5.d)		Actual Attributes			
1.	Malfunctions after EOP entry (1-2)	2/2/2/3	L	Jr	cb
2.	Abnormal events (2-4)	4/4/4/4	L	Jr	cb
3.	Major transients (1-2)	1/1/1/2	L	Jr	cb
4.	EOPs entered/requiring substantive actions (1-2)	2/3/3/4	L	Jr	cb
5.	Entry into a contingency EOP with substantive actions (≥ 1 per scenario set)	1/0/1/1	L	Jr	cb
6.	Pre-identified critical tasks (≥ 2)	2/2/2/4	L	Jr	cb

\* The facility licensee signature is not applicable for NRC-developed tests.  
 # An independent NRC reviewer initials items in column "c"; chief examiner concurrence is required.



Facility: Harris Nuclear Plant		Date of Exam: March 5, 2018		Operating Test No.: 05000400/2018301										
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			3			2						
		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		R	I	U
RO-1 <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX					R1					1	1		
	NOR			N1							1	1		
	I/C			C3, C4		I2, C6					4	4		
	MAJ			M6		M7					2	2		
	TS										0	0		
RO-2 <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX					R1					1	1		
	NOR			N1							1	1		
	I/C			C3, C4		I2, C6					4	4		
	MAJ			M6		M7					2	2		
	TS										0	0		
RO-3 <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX					R1					1	1		
	NOR			N1					N1		2	1		
	I/C			C3, C4		I2, C6			I2, C4		6	4		
	MAJ			M6		M7			M6		3	2		
	TS										0	0		
RO-4 <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RX								R1		1	1		
	NOR						N1				1	1		
	I/C					I3, C5		C3, I5			4	4		
	MAJ					M7		M6			2	2		
	TS										0	0		

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 I/C 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 new reactor facility 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: Harris Nuclear Plant			Date of Exam: March 5, 2018			Operating Test No.: 05000400/2018301								
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			3			2						
		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		R	I	U
RO <input type="checkbox"/> SRO-I-1 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>	RX		R1		R1						2		1	
	NOR				N1						1		1	
	I/C		C2, C5		I2, I3 C5, C6						6		4	
	MAJ		M6		M7						2		2	
	TS				T3, T5						2		2	
RO <input type="checkbox"/> SRO-I-2 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>	RX		R1		R1						2		1	
	NOR				N1						1		1	
	I/C		C2, C5		I2, I3 C5, C6						6		4	
	MAJ		M6		M7						2		2	
	TS				T3, T5						2		2	
RO <input type="checkbox"/> SRO-I-3 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>	RX		R1		R1						2		1	
	NOR				N1						1		1	
	I/C		C2, C5		I2, I3 C5, C6						6		4	
	MAJ		M6		M7						2		2	
	TS				T3, T5						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 I/C 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 new reactor facility 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: Harris Nuclear Plant		Date of Exam: March 5, 2018		Operating Test No.: 05000400/2018301										
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			3			2				R	I	U
		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				
RO <input type="checkbox"/>	RX	R1									1			0
SRO-I <input type="checkbox"/>	NOR	N1									1			1
SRO-U1 <input type="checkbox"/>	I/C	C2, C3, C4, C5									4			2
<input checked="" type="checkbox"/>	MAJ	M6									1			1
	TS	T3, T5									2			2
RO <input type="checkbox"/>	RX	R1									1			0
SRO-I <input type="checkbox"/>	NOR	N1									1			1
SRO-U2 <input type="checkbox"/>	I/C	C2, C3, C4, C5									4			2
<input checked="" type="checkbox"/>	MAJ	M6									1			1
	TS	T3, T5									2			2
RO <input type="checkbox"/>	RX	R1									1			0
SRO-I <input type="checkbox"/>	NOR	N1					N1				2			1
SRO-U3 <input type="checkbox"/>	I/C	C2, C3, C4, C5					I3, C5				6			2
<input checked="" type="checkbox"/>	MAJ	M6					M7				2			1
	TS	T3, T5									2			2
RO <input type="checkbox"/>	RX							R1			1			0
SRO-I <input type="checkbox"/>	NOR						N1	N1			2			1
SRO-U4 <input type="checkbox"/>	I/C						I3, C5	I2, C3 C4, I5			6			2
<input checked="" type="checkbox"/>	MAJ						M7	M6			2			1
	TS							T2, T3			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 I/C 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 new reactor facility 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: Harris Nuclear Plant		Date of Exam: March 5, 2018		Operating Test No.: 05000400/2018301				
A P P L I C A N T	E V E N T  T Y P E	Scenarios						
		4 (SPARE)			T O T A L	M I N I M U M (*)		
		CREW POSITION	CREW POSITION	CREW POSITION				
		S R O	A T C	B O P				
RO <input type="checkbox"/>	RX	R1			1	1	1	0
SRO-I <input type="checkbox"/>	NOR	N1			1	1	1	1
SRO-U <input type="checkbox"/>	I/C	C2, I3 C4, I5			4	4	4	2
SRO-U <input checked="" type="checkbox"/>	MAJ	M6, M8			2	2	2	1
SRO-U <input checked="" type="checkbox"/>	TS	T2, T3 T4, T5			4	0	2	2
RO <input checked="" type="checkbox"/>	RX		R1		1	1	1	0
SRO-I <input checked="" type="checkbox"/>	NOR				0	1	1	1
SRO-U <input type="checkbox"/>	I/C		C2, I5		2	4	4	2
SRO-U <input type="checkbox"/>	MAJ		M6, M8		2	2	2	1
SRO-U <input type="checkbox"/>	TS				0	0	2	2
RO <input checked="" type="checkbox"/>	RX				0	1	1	0
SRO-I <input checked="" type="checkbox"/>	NOR			N1	1	1	1	1
SRO-U <input type="checkbox"/>	I/C			I3, C4	2	4	4	2
SRO-U <input type="checkbox"/>	MAJ			M6, M8	2	2	2	1
SRO-U <input type="checkbox"/>	TS				0	0	2	2
Instructions								
<ol style="list-style-type: none"> <li>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.</li> <li>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 I/C malfunctions on a one for one basis.</li> <li>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.</li> <li>4. For new reactor facility 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.</li> </ol>								

Facility: Harris Nuclear Plant      Date of Examination: March 5, 2018      Operating Test No.: 05000400/2018301

Competencies	APPLICANTS		
	RO (BOP)	SRO-I (RO)	SRO-U
	SCENARIO	SCENARIO	SCENARIO
	1	1	1
Interpret / Diagnose Events and Conditions	3, 4, 6, 7, 8	2, 5, 6, 7	2, 3, 4, 5 6, 7, 8
Comply With and Use Procedures (1)	1, 3, 4, 6, 7, 8	1, 2, 5, 6, 7	1, 2, 3, 4 5, 6, 7, 8
Operate Control Boards (2)	1, 3, 4, 6, 7, 8	1, 2, 5, 6, 7	0
Communicate and Interact	1, 3, 4, 6, 7, 8	1, 2, 5, 6, 7	1, 2, 3, 4 5, 6, 7, 8
Demonstrate Supervisory Ability (3)	0	0	1, 2, 3, 4 5, 6, 7, 8
Comply With and Use Tech. Specs. (3)	0	0	3, 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: Harris Nuclear Plant      Date of Examination: March 5, 2018      Operating Test No.:05000400/2018301

Competencies	APPLICANTS		
	RO	SRO-U	RO (BOP)
	SCENARIO	SCENARIO	SCENARIO
	2	2	2
Interpret / Diagnose Events and Conditions	3, 5, 6, 8	2, 3, 4, 5 6, 7, 8	2, 4, 6, 7
Comply With and Use Procedures (1)	1, 3, 5, 6, 8	1, 2, 3, 4, 5 6, 7, 8	1, 2, 4, 6, 7
Operate Control Boards (2)	1, 3, 5, 6, 8	0	1, 2, 4, 6, 7
Communicate and Interact	1, 3, 5, 6, 8	1, 2, 3, 4, 5 6, 7, 8	1, 2, 4, 6, 7
Demonstrate Supervisory Ability (3)	0	1, 2, 3, 4, 5 6, 7, 8	0
Comply With and Use Tech. Specs. (3)	0	2, 3	0

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: Harris Nuclear Plant      Date of Examination: March 5, 2018      Operating Test No.:05000400/2018301

Competencies	APPLICANTS			
	RO	RO (BOP)	SRO-I	SRO-U (BOP)
	SCENARIO	SCENARIO	SCENARIO	SCENARIO
	3	3	3	3
Interpret / Diagnose Events and Conditions	2, 6, 7, 8	3, 5, 7, 9	2, 3, 4, 5 6, 7, 8, 9	3, 5, 7, 9
Comply With and Use Procedures (1)	1, 2, 6, 7, 8	1, 3, 5, 7, 9	1, 2, 3, 4, 5 6, 7, 8, 9	1, 3, 5, 7, 9
Operate Control Boards (2)	1, 2, 6, 7, 8	1, 3, 5, 7, 9	0	1, 3, 5, 7, 9
Communicate and Interact	1, 2, 6, 7, 8	1, 3, 5, 7, 9	1, 2, 3, 4, 5 6, 7, 8, 9	1, 3, 5, 7, 9
Demonstrate Supervisory Ability (3)	0	0	1, 2, 3, 4, 5 6, 7, 8, 9	0
Comply With and Use Tech. Specs. (3)	0	0	3, 5	0

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.)*

Competencies	APPLICANTS				
	RO	RO (BOP)	SRO-I SRO-U	SRO-I (RO) SRO-U (RO)	SRO-I (BOP) SRO-U (BOP)
	SCENARIO	SCENARIO	SCENARIO	SCENARIO	SCENARIO
	4	4	4	4	4
Interpret / Diagnose Events and Conditions	2, 5, 6, 8	3, 4, 6, 7, 8, 9	2, 3, 4, 5 6, 7, 8, 9	2, 5, 6, 8	3, 4, 6, 7, 8, 9
Comply With and Use Procedures (1)	1, 2, 5, 6, 8	1, 3, 4, 6, 7 8, 9	1, 2, 3, 4, 5 6, 7, 8, 9	1, 2, 5, 6, 8	1, 3, 4, 6, 7 8, 9
Operate Control Boards (2)	1, 2, 5, 6, 8	1, 3, 4, 6, 7 8, 9	0	1, 2, 5, 6, 8	1, 3, 4, 6, 7 8, 9
Communicate and Interact	1, 2, 5, 6, 8	1, 3, 4, 6, 7 8, 9	1, 2, 3, 4, 5 6, 7, 8, 9	1, 2, 5, 6, 8	1, 3, 4, 6, 7 8, 9
Demonstrate Supervisory Ability (3)	0	0	1, 2, 3, 4, 5 6, 7, 8, 9	0	0
Comply With and Use Tech. Specs. (3)	0	0	2, 3, 4, 5	0	0

Notes:

- (1) Includes Technical Specification compliance for an RO.
- (2) Optional for an SRO-U.
- (3) Only applicable to SROs.

**SCENARIO # 4 selected as the SPARE Scenario by Chief Examiner**

*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: <b>Harris</b>		Date of Exam: <b>3/14/2018</b>		Exam Level: RO <input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/>		
Item Description	Initials					
	a	b	c			
1. Clean answer sheets copied before grading	<i>MD</i>	N/A*	<i>CB</i>			
2. Proposed answer key changes and question deletions justified and documented (facility reviewer initials not required (N/R) if NO post-examination comments are submitted)	<i>MD</i>	N/A*	<i>CB</i>			
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<i>MD</i>	N/A*	<i>CB</i>			
4. Grading for all borderline cases (80% ±2% overall and 70% or 80%, as applicable, ±4% on the SRO-only exam) reviewed in detail	<i>MD</i>	N/A*	<i>CB</i>			
5. All other failing examinations checked to ensure that grades are justified	<i>MD</i>	N/A*	<i>CB</i>			
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by one-half or more of the applicants	<i>MD</i>	N/A*	<i>CB</i>			

	Printed Name/Signature	Date
a. Grader	<u>Michael G. Donithan</u> <i>Michael G. Donithan</i>	<u>4/4/2018</u>
b. Facility Reviewer(*)	<u>N/A</u>	<u>N/A</u>
c. NRC Chief Examiner (*)	<u>Daniel M. Bacon</u> <i>Daniel M. Bacon</i>	<u>4/10/2018</u>
d. NRC Supervisor (*)	<u>Gerald J. McCoy</u> <i>Gerald J. McCoy</i>	<u>5/22/2018</u>

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



Harris Nuclear Plant  
5413 Shearon Harris Rd  
New Hill, NC 27562-9300

October 5, 2017

Serial: HNP-17-080

Mr. Gerald J. McCoy, Chief  
Operations Branch 1  
U.S. Nuclear Regulatory Commission, Region II  
245 Peachtree Center Ave. N.E., Suite 1200  
Atlanta, GA 30303-1257

Shearon Harris Nuclear Power Plant, Unit No. 1  
Docket No. 50-400

Subject: Reactor and Senior Reactor Operator Initial Examinations 05000400/2018301

Dear Mr. McCoy:

Enclosed are the operating test outlines and supporting reference materials for the Reactor and Senior Reactor Operator Initial Examination to be administered at the Harris Nuclear Plant during the weeks of March 5, and March 12, 2018. This submittal complies with the requirement identified in your letter dated July 5, 2017, to furnish these materials by October 6, 2017. The enclosed materials shall be withheld from public disclosure until after the examination is complete.

If you have any questions regarding this submittal, please contact Mr. Archie Lucky at (984) 229-6054.

Sincerely,

A handwritten signature in black ink, appearing to read 'Scott Rua'.

Scott Rua  
Supervisor, Nuclear Operations Training  
Auxiliary Operator Training – Regulated Exam Supervisor  
Harris Nuclear Plant

Enclosures: Operating Test Outlines and Supporting Reference Materials

cc: Catherine Haney, NRC Regional Administrator, Region II (w/o Enclosure)  
John Zeiler, NRC Senior Resident Inspector, HNP (w/o Enclosure)  
Martha Barillas, NRC Project Manager, HNP (w/o Enclosure)

Gerald J. McCoy  
Serial: HNP-17-080

Page 2

bc: (w/o Enclosures)  
Rick Garner  
Donald Griffith  
Archie Lucky  
Jeffrey Robertson  
Scott Rua  
Becky Smith  
Tasha Stephens

Nuclear Records



Tanya M. Hamilton  
Site Vice President  
Harris Nuclear Plant  
5413 Shearon Harris Rd  
New Hill NC 27562-9300

919-362-2502

December 19, 2017

Serial: HNP-17-101

Mr. Gerald J. McCoy,  
Chief, Operations Branch 1  
U.S. Nuclear Regulatory Commission, Region II  
245 Peachtree Center Ave. N.E., Suite 1200  
Atlanta, GA 30303-1257

Shearon Harris Nuclear Power Plant, Unit 1  
Docket No. 50-400

Subject: Licensed Operator (RO/SRO) Initial Examination 05000400/2018301

Dear Mr. McCoy:

Enclosed are the written examinations and operating tests and supporting reference materials for the Reactor and Senior Reactor Operator Initial License Examination to be administered at the Harris Nuclear Plant (HNP) during the weeks of March 5 and March 12, 2018. This submittal complies with the requirement identified in your letter dated July 5, 2017, to furnish these materials by December 20, 2017. The enclosed written examinations shall be withheld from public disclosure until after December 31, 2020. The remainder of the enclosed materials may be released for public disclosure after the examination is complete.

If you have any questions regarding these materials, please contact Mr. Scott M. Rua at (984) 229-6388.

Sincerely,

A handwritten signature in cursive script that reads 'Tanya M. Hamilton'.

Tanya M. Hamilton

Enclosures: Written Examinations and Operating Tests and Supporting Reference Materials

cc: Catherine Haney, NRC Regional Administrator, Region II (w/o Enclosure)  
John Zeiler, NRC Senior Resident Inspector, HNP (w/o Enclosure)  
Martha Barillas, NRC Project Manager, HNP (w/o Enclosure)

Mr. Gerald J. McCoy  
Serial: HNP-17-101  
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bc: (w/o Enclosures)  
Donald Griffith  
Rick Garner  
Jeffrey Robertson  
Scott Rua  
Becky Smith  
Tasha Stephens

Nuclear Records





Tanya M. Hamilton  
Vice President  
Harris Nuclear Plant  
5413 Shearon Harris Rd  
New Hill, NC 27562-9300

919-362-2502

**FEB 15 2018**

Serial: HNP-18-022

Catherine Haney  
Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
245 Peachtree Center Ave., NE, Suite 1200  
Atlanta, Georgia 30303-1257

Shearon Harris Nuclear Power Plant, Unit 1  
Docket No. 50-400/Renewed License No. NPF-63

Subject: Licensed Operator Initial Examination 05000400/2018301 - Submittal of Reactor and Senior Reactor Operator License Applications

Dear Ms. Haney:

Duke Energy Progress, LLC, is submitting license applications for the upcoming NRC Reactor Operator and Senior Reactor Operator Licensing Examinations scheduled for the weeks of March 5 and March 12, 2018. Enclosed are the signed license applications for four Reactor Operator applicants, three Senior Reactor Operator applicants, and four Senior Reactor Operator - Upgrade applicants. As requested by NRC letter dated July 5, 2017, these signed applications are being submitted at least 14 days before the first examination date.

It is requested that the information contained in Enclosure 1 and enclosed NRC Forms 396 and 398 be exempt from public disclosure under the provisions of 10 CFR 2.390(a)(6) since disclosure would constitute a clearly unwarranted invasion of personal privacy. When separated from these enclosures, this cover letter is uncontrolled.

If you have any questions regarding this submittal, please contact Mr. Louis V. Parente at (984) 229-6202.

Sincerely,

Tanya M. Hamilton

Enclosures

cc: J. Zeiler, NRC Sr. Resident Inspector, HNP  
M. Barillas, NRC Project Manager, HNP  
G. McCoy, Operations Branch Chief, NRC Region II

\* Enclosures containing Personally Identifiable Information (PII) have been removed.



Tanya M. Hamilton  
Vice President  
Harris Nuclear Plant  
5413 Shearon Harris Rd  
New Hill, NC 27562-9300

919-362-2502

March 28, 2018  
Serial: HNP-18-037

Catherine Haney  
Regional Administrator, Region II  
U.S. Nuclear Regulatory Commission  
245 Peachtree Center Ave., NE, Suite 1200  
Atlanta, Georgia 30303-1257

Shearon Harris Nuclear Power Plant, Unit 1  
Docket No. 50-400

Subject: Reactor Operator and Senior Reactor Operator Initial Examinations  
05000400/2018301

Dear Ms. Haney:

Shearon Harris Nuclear Power Plant, Unit No. 1  
Docket No. 50-400

Enclosed is the post-examination package for the Reactor Operator (RO) and Senior Reactor Operator (SRO) Initial Examinations given at the Harris Nuclear Plant March 5, 2018 through March 14, 2018.

Included from the administration of the written examinations are the student seating chart, original student answer keys, original signed student answer sheets, a clean copy of the RO exam, a clean copy of the SRO exam, a key for the RO exam, a key for the SRO exam, a compiled list of student comments and proctor responses, and the original NRC Form ES-201-3.

If you have any questions regarding these materials, please contact Mr. Scott Rua at (984) 229-6388.

Sincerely,

A handwritten signature in cursive script that reads 'Tanya M. Hamilton'.

Tanya Hamilton

Enclosures

cc: G. McCoy, Operations Branch Chief, NRC Region II (w/o enclosures)  
M. Barillas, NRC Project Manager, HNP (w/o enclosures)  
J. Zeiler, NRC Senior Resident Inspector, HNP (w/o enclosures)

Ms. Haney  
Serial: HNP-18-037  
Page 2

bc: (w/o enclosures)  
Donald Griffith  
James O'Keefe  
Jeffery Robertson  
Scott Rua  
James Scott  
Becky Smith  
Tasha Stephens  
  
Nuclear Records