

ES-201

## Examination Preparation Checklist

Form ES-201-1

Facility: <u>Brunswick</u>		Date of Examination: <u>December 7, 2020</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
-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).	DB
-210	2. NRC examiners and facility contact assigned (C.1.d; C.2.f).	DB
-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).	DB
-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).	DB
-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).	DB
-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).	DB
-136	8. Operating test outline(s) reviewed by the NRC and feedback provided to facility licensee (C.2.h; C.3.d–e).	DB
-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).	DB
-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).	DB
-50	12. Written exam and operating test reviews completed (C.3.f).	DB
-35	13. Examination review results discussed between the NRC and facility licensee (C.1.i; C.1.k–l; C.2.h; C.3.g). The NRC and the facility licensee conduct exam preparatory week.	DB
-30	14. Preliminary license applications and waiver/excusal requests, as applicable (NRC Form 398) due (C.1.m; C.2.i; ES-202).	DB
-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).	DB
-7	16. Written examinations and operating tests approved by the NRC supervisor (C.2.j–k; C.3.h).	DB
-7	17. Request facility licensee management feedback on the examination (C.2.l).	DB
-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).	DB
-7	19. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k).	DB
-7	20. Approved scenarios and job performance measures distributed to NRC examiners (C.3.i).	DB
* 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.		

Facility: Brunswick		Date of Examination: 12/07/2020		
Item	Task Description	Initials		
		a	b*	c**
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.	RB	R	DB
	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.	RB	R	DB
	c. Assess whether the outline overemphasizes any systems, evolutions, or generic topics.	RB	R	DB
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	RB	R	DB
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.	RB	R	DB
	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.	RB	R	DB
	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).	RB	R	DB
W A L K T H R O U G H	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.	RB	R	DB
	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.	RB	R	DB
	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.	RB	R	DB
G E N E R A L	a. Assess whether plant-specific priorities (including probabilistic risk assessment and individual plant examination insights) are covered in the appropriate exam sections.	RB	R	DB
	b. Assess whether the 10 CFR 55.41, 55.43, and 55.45 sampling is appropriate.	RB	R	DB
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	RB	R	DB
	d. Check for duplication and overlap among exam sections and the last two NRC exams.	RB	R	DB
	e. Check the entire exam for balance of coverage.	RB	R	DB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	RB	R	DB
a. Author	Printed Name/Signature <i>Robert Bolin</i>		Date	<i>11-5-2020</i>
b. Facility Reviewer (*)	<i>Robert Meiks</i>		Date	<i>11-5-2020</i>
c. NRC Chief Examiner (#)	Digitally signed by Daniel M. Bacon Date: 2020.11.16 13:33:17 -05'00'			
d. NRC Supervisor	Digitally signed by Gerald J. McCoy Date: 2021.01.19 15:10:06 -05'00'			
* Not applicable for NRC-prepared examination outlines. # The independent NRC reviewer initials items in column "c"; the chief examiner's concurrence is required.				

**1. Pre-Examination**

I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for 12/7/20 thru 12/22/20 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 12/7/20 thru 12/22/20. 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
1. Robert Bolin	Exam Author	<i>Robert Bolin</i>	10/14/19	<i>Robert Bolin</i>	1-4-21
2. STEVE COSTON	EXAM WRITER	<i>Steve Coston</i>	10-14-19	<i>Steve Coston</i>	12-14-20
3. TIM CRABTREE	SIM SUPPORT	<i>Tim Crabtree</i>	10/21/19	per email	1-4-21
4. Eddie RAY	EXAM Supv	<i>Eddie Ray</i>	10/21/19	<i>Eddie Ray</i>	12-15-20
5. Kendall Grews	Sim Support	<i>Kendall Grews</i>	11/12/19	<i>Kendall Grews</i>	12/15/20
6. Ken Hill	Nuc Ops Tech - EP	<i>Ken Hill</i>	2/4/20	per email	12/23/20
7. Robert MEHS	Nuc Facility Rep	<i>Robert Mehs</i>	2/27/2020	<i>Robert Mehs</i>	12-15-2020
8. MATT CORMAN	SIM SUPPORT LEAD	<i>Matt Corman</i>	4/29/2020	<i>Matt Corman</i>	12/15/20
9. MICHAEL NEMEC	EXAM WRITER	<i>Michael Neme</i>	5/11/20	<i>Michael Neme</i>	12/16/20
10. MICHAEL (SR) HART	<i>Exam Admin</i>	<i>Michael Hart</i>	01/21/20	per email	12/15/20
11. BRETT WYTON	CRS	<i>Brett Wyton</i>	6/16/2020	per email	1-11-21
12. TODD BIZZELL	RO	<i>Todd Bizzell</i>	6/16/2020	<i>Todd Bizzell</i>	12-16-2020

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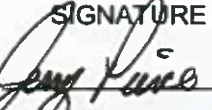



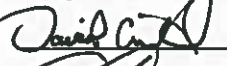



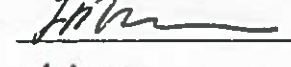
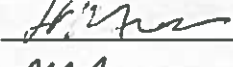


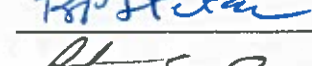

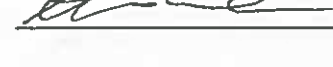
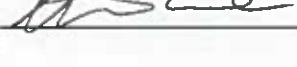
PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE
1. Brian West	CRS		6/16/2020		1/2/2021
2. Troy Bunnell	RO		6/30/20		12/14/20
3. Patrick McLaughlin	RO		6/30/20		12/18/20
4. Kevin Kingston	CRS		6-30-20		12-18-20
5. CHARLES BROOKSHUIS	CRS		6-30-20		12-16-20
6. Michael D. Long	CRS		8-18-20		12-16-20
7. STEPHENSON MILNERSON	RO		8-18-20		12-16-20
8. MICHAEL MARSHUE	RO		8-18-20		12-16-20
9. ANDREW FROED	INSTRUCTOR		8-19-2020		12/28/2020
10. FRANK CLARK	RO		8-25-2020		1/4/2021
11. RICK GARNER	CFAM - OTM		8-31-2020		12/15/20
12. MARK D'AMORE	ADM-SHIFT		9/14/2020	per email	1-11-21

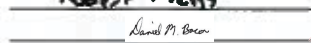
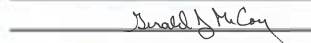
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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE
1. Jerry Pierce	TM		9/14/2020		12/15/2020
2. Shawn Zawoor	RO		11/2/2020	per email	1-5-21
3. MARK DIXON	SRO		11-2-2020		12-15-2020
4. David Cribb	RO		11-4-2020		12/28/2020
5. Cary Oliver	ILT Supt.		11-30-2020		12/15/2020
6. Morrice, James	CRS		12/3/2020		12/16/20
7. Jordan, Megan	CRS		12/3/2020		12/17/20
8. Brian Stetson	ILT Instructor		12/09/2020		12/15/2020
9. HLOEFFNER, STEPHANSON	RO		12-18-20		12/16/20
10. _____	_____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____	_____

Facility: Brunswick		Date of Examination: 12/07/2020		Operating Test Number: Final	
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).	LB	R	DB	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	LB	R	DB	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a.).	LB	R	DB	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	LB	R	DB	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	LB	R	DB	
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>	LB	R	DB	
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.	LB	R	DB	
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.		LB	R	DB	
	Printed Name/Signature			Date	
a.	Author	Robert Bolin			11-5-2020
b.	Facility Reviewer (*)	Robert Mells			11-5-2020
c.	NRC Chief Examiner (#)	 Digitally signed by Daniel M. Bacon Date: 2020.11.16 14:57:05 -05'00'			
d.	NRC Supervisor	 Digitally signed by Gerald J. McCoy Date: 2021.01.19 15:12:37 -05'00'			
* 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: Brunswick		Date of Exam: 12/07/2020		Scenario Numbers: 1 / 2 / 3		Operating Test No.: Final			
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.					B	R	DB	
2.	The scenarios consist mostly of related events.					B	R	DB	
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>					B	R	DB	
4.	The events are valid with regard to physics and thermodynamics.					B	R	DB	
5.	Sequencing and timing of events is reasonable and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.					B	R	DB	
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.					B	R	DB	
7.	The simulator modeling is not altered.					B	R	DB	
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.					B	R	DB	
9.	Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.					B	R	DB	
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					B	R	DB	
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.)					B	R	DB	
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).					B	R	DB	
13.	Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.					B	R	DB	
14.	The level of difficulty is appropriate to support licensing decisions for each crew position.					B	R	DB	
<b>Target Quantitative Attributes per Scenario (See Section D.5.d)</b>						<b>Actual Attributes</b>			
1.	Malfunctions after EOP entry (1-2)					3 / 2 / 2	B	R	DB
2.	Abnormal events (2-4)					3 / 2 / 3	B	R	DB
3.	Major transients (1-2)					2 / 1 / 2	B	R	DB
4.	EOPs entered/requiring substantive actions (1-2)					1 / 2 / 2	B	R	DB
5.	Entry into a contingency EOP with substantive actions (≥1 per scenario set)					2 / 3 / 1	B	R	DB
6.	Preidentified critical tasks (≥2)					2 / 3 / 3	B	R	DB
* 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: Brunswick Nuclear Plant			Date of Exam: 12/07/2020			Operating Test No.: Final											
A P P L I C A N T	E V E N T  T Y P E	Scenarios															
		1			2			3			4			T O T A L	M I N I M U M (*)		
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
RO-1	RX					3								1	1	1	0
	NOR			1										1	1	1	1
	I/C			2,5,6		4,6,8								6	4	4	2
	MAJ			6,7		8								3	2	2	1
	TS														0	2	2
RO-2	RX					3								1	1	1	0
	NOR			1										1	1	1	1
	I/C			2,5,6		4,6,8								6	4	4	2
	MAJ			6,7		8								3	2	2	1
	TS														0	2	2
RO-3	RX		3											1	1	1	0
	NOR													1	1	1	1
	I/C		3a,4,7			5,7,8								6	4	4	2
	MAJ		6,7			8								3	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 I/C 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 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: Brunswick		Date of Examination: 12/07/2020				Operating Test No.: Final										
Competencies	APPLICANTS															
	RO <input type="checkbox"/> SRO-I #1 <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I #2 <input type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>				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, 3a, 4,6, 7	All														
Comply with and Use Procedures (1)	3, 3a, 4,6, 7	All														
Operate Control Boards (2)	3, 3a, 4,6, 7															
Communicate and Interact	All	All														
Demonstrate Supervisory Ability (3)		All														
Comply with and Use TS (3)		2,6														
Notes: (1) Includes TS 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.) (Forms ES 303 1 and ES 303 3 describe the competency rating factors.)

Facility: Brunswick		Date of Examination: 12/07/2020				Operating Test No.: Final											
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 #1 <input checked="" type="checkbox"/>				SRO-U #2 <input checked="" type="checkbox"/>				SRO-U #3 <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		All	All			All	1, 5, 7,8										
Comply with and Use Procedures (1)		All	All			All	1, 5, 7,8										
Operate Control Boards (2)							1, 5, 7,8										
Communicate and Interact		All	All			All	All										
Demonstrate Supervisory Ability (3)		All	All			All											
Comply with and Use TS (3)		4,5	2,6			4,5											
<p>Notes:</p> <p>(1) Includes TS compliance for an RO.</p> <p>(2) Optional for an SRO-U.</p> <p>(3) Only applicable to SROs.</p>																	

Facility: Brunswick		Date of Examination: 12/07/2020				Operating Test No.: Final										
Competencies	APPLICANTS															
	RO #1 <input checked="" type="checkbox"/>				RO #2 <input checked="" type="checkbox"/>				RO #3 <input checked="" type="checkbox"/>				RO #4 <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"/>			
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		1, 2, 5, 6,7	2, 3, 4, 6,8			1, 2, 5, 6,7	2, 3, 4, 6,8			3, 3a, 4,6, 7	1, 5, 7,8					
Comply with and Use Procedures (1)		1, 2, 5, 6,7	2, 3, 4, 6,8			1, 2, 5, 6,7	2, 3, 4, 6,8			3, 3a, 4,6, 7	1, 5, 7,8					
Operate Control Boards (2)		1, 2, 5, 6,7	2, 3, 4, 6,8			1, 2, 5, 6,7	2, 3, 4, 6,8			3, 3a, 4,6, 7	1, 5, 7,8					
Communicate and Interact		All	All			All	All			All	All					
Demonstrate Supervisory Ability (3)																
Comply with and Use TS (3)																
<p>Notes:</p> <p>(1) Includes TS compliance for an RO.</p> <p>(2) Optional for an SRO-U.</p> <p>(3) Only applicable to SROs.</p>																

Facility: <b>Brunswick</b> Date of Exam: <b>December 14, 2020</b> Exam Level: RO <b>X</b> SRO <b>X</b>			
Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading	DL	N/A	DB
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)	N/A	N/A	N/A
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	DL	N/A	DB
4. Grading for all borderline cases (80% ±2% overall and 70% or 80%, as applicable, ±4% on the SRO-only exam) reviewed in detail	DL	N/A	DB
5. All other failing examinations checked to ensure that grades are justified	N/A	N/A	N/A
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	DL	N/A	DB

Printed Name/Signature	Date
a. Grader <b>David R. Lanyi</b>	Digitally signed by David R. Lanyi Date: 2021.01.19 09:58:58 -05'00'
b. Facility Reviewer(*) N/A	N/A
c. NRC Chief Examiner (*) <i>Daniel M. Bacon</i>	Digitally signed by Daniel M. Bacon Date: 2021.01.19 11:28:49 -05'00'
d. NRC Supervisor (*) <i>Gerald J. McCoy</i>	Digitally signed by Gerald J. McCoy Date: 2021.01.19 11:47:11 -05'00'

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



July 9, 2020

Serial: RA-20-0190

U. S. Nuclear Regulatory Commission, Region II  
ATTN: Ms. Laura Dudes, Regional Administrator  
245 Peachtree Center Ave, NE, Suite 1200  
Atlanta, GA 30303-1257

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2  
Renewed Facility Operating License Nos. DPR-71 and DPR-62  
Docket Nos. 50-325 and 50-324  
Operating Test Outline, Written Examination Outline, and Reference Materials for  
Licensed Operator Initial Examination 50-325/2020-301 and 50-324/2020-301

Reference: Letter from Gerald J. McCoy (NRC) to John A. Krakuszeski (Duke Energy),  
"Brunswick Steam Electric Plant – Notification of Licensed Operator Initial  
Examination 05000325/2020 and 05000324/2020301," dated February 12, 2020,  
ADAMS Accession Number ML20043F346

Dear Ms. Dudes,

In accordance with the guidelines in Revision 11, of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Duke Energy Progress, LLC, is providing the operating test outline, written examination outline, and reference materials supporting the operating test, which is scheduled to be administered during the weeks of December 7 and December 14, 2020; and the written examination scheduled to be administered after the operating exam is completed.

In accordance with the schedule contained in the NRC's letter dated February 12, 2020 (i.e., Reference), the examination materials listed in the enclosure of this letter are being provided electronically via a secure File Transfer Protocol (FTP) website to Mr. Daniel Bacon, the assigned NRC chief examiner, only. The material is not included herein.

In accordance with 10 CFR 55.40(b)(3), Mr. Robert Mehs, as the designated authorized representative of the Brunswick Steam Electric Plant, has approved the outline for the examinations of the applicants.

In accordance with Revision 11, of NUREG-1021, Section ES-201, "Initial Operator Licensing Examination Process," please ensure that the examination materials are withheld from public disclosure until after the examinations are complete.

This document contains no regulatory commitments.

Please refer any questions regarding this submittal to Mr. Bob Bolin, Nuclear Operations Instructor, at (910) 832-3078, or Mr. Robert Mehs, Nuclear Control Room Supervisor, at (910) 832-2746.

Sincerely,

A handwritten signature in black ink, consisting of several loops and a long horizontal stroke extending to the right.

Sabrina Salazar  
Manager – Nuclear Support Services  
Brunswick Steam Electric Plant

SBY/sby

Enclosure: List of Examination Materials

cc (with enclosure):

Document Control Desk, NRC

Mr. Daniel Bacon, NRC Senior Operations Engineer, Region II

Mr. Gerald J. McCoy, Chief, NRC Operations Branch 1, Region II

Mr. Andrew Hon, NRC Project Manager

Mr. Gale Smith, NRC Senior Resident Inspector

Chair - North Carolina Utilities Commission



List of Examination Materials

The following documents, developed in accordance with NUREG-1021, Revision 11, "Operator Licensing Examination Standards for Power Reactors," are being provided, along with Reference Material, via a secure FTP website.

Form ES-201-2	Examination Outline Quality Checklist
Form ES-201-3	Examination Security Agreement (Photocopy)
Form ES-301-1	Administrative Topics Outline (for RO and SRO positions)
Form ES-301-2	Control Room/In-Plant Systems Outline (for RO, SRO-U, and SRO-I positions)
Form ES-301-5	Transient and Event Checklist
Form ES-401-1	BWR Examination Outline
Form ES-401-3	Generic Knowledge and Abilities Outline
Form ES-401-4	Record of Rejected K/As
Form ES-D-1	Scenario Outline (one for each scenario)



September 23, 2020

Serial: RA-20-0276

U. S. Nuclear Regulatory Commission, Region II  
ATTN: Ms. Laura Dudes, Regional Administrator  
245 Peachtree Center Ave, NE, Suite 1200  
Atlanta, GA 30303-1257

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2  
Renewed Facility Operating License Nos. DPR-71 and DPR-62  
Docket Nos. 50-325 and 50-324  
Written Exam for Licensed Operator Initial Examination 50-325/2020-301 and  
50-324/2020-301

Reference: Letter from Gerald J. McCoy (NRC) to John A. Krakuszeski (Duke Energy),  
"Brunswick Steam Electric Plant – Notification of Licensed Operator Initial  
Examination 05000325/2020 and 05000324/2020301," dated February 12, 2020,  
ADAMS Accession Number ML20043F346

Dear Ms. Dudes,

In accordance with the guidelines in Revision 11, of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Duke Energy Progress, LLC, is providing the operating test, which will begin the week of December 7, 2020, and the written exam, which is scheduled to be administered on December 16, 2020.

In accordance with the schedule contained in the NRC's letter dated February 12, 2020 (i.e., Reference), the examination materials listed in the enclosure of this letter are being provided electronically via secure File Transfer Protocol (FTP), in accordance with the memorandum of understanding, to Mr. Daniel Bacon, the assigned NRC chief examiner, only. The material is not included herein.

In accordance with 10 CFR 55.40(b)(3), Mr. Robert Mehs, as the designated authorized representative of the Brunswick Steam Electric Plant, has approved the written tests for the examination of the applicants.

In accordance with Revision 11, of NUREG-1021, Section ES-201, "Initial Operator Licensing Examination Process," please ensure that the examination materials are withheld from public disclosure until after the examination is complete.

This document contains no regulatory commitments.

Please refer any questions regarding this submittal to Mr. Bob Bolin, Nuclear Operations Instructor, at (910) 832-3078, or Mr. Eddie Rau, Training Superintendent, at (910) 880-0612.

Sincerely,

A handwritten signature in black ink, consisting of several overlapping loops and a long horizontal stroke extending to the right.

Sabrina Salazar  
Manager – Nuclear Support Services  
Brunswick Steam Electric Plant

SBY/sby

Enclosure: List of Examination Materials

cc (with enclosure):

Document Control Desk, NRC

Mr. Daniel Bacon, NRC Senior Operations Engineer, Region II

Mr. Gerald J. McCoy, Chief, NRC Operations Branch 1, Region II

Mr. Andrew Hon, NRC Project Manager

Mr. Gale Smith, NRC Senior Resident Inspector

Chair - North Carolina Utilities Commission

List of Examination Materials

The following documents, developed in accordance with NUREG-1021, Revision 11, "Operator Licensing Examination Standards for Power Reactors," are being provided, along with Reference Material, via a secure FTP website.

Form ES-201-2	Examination Outline Quality Checklist
Form ES-201-3	Examination Security Agreement (Photocopy)
Form ES-301-1	Administrative Topics Outline (for RO and SRO positions)
Form ES-301-2	Control Room/In-Plant Systems Outline (for RO, SRO-U, and SRO-I positions)
Form ES-301-3	Operating Test Quality Checklist
Form ES-301-4	Simulator Scenario Quality Checklist
Form ES-301-5	Transient and Event Checklist
Form ES-301-6	Competencies Checklist
Form ES-401-4	Record of Rejected K/As
Form ES-401-6	Written Examination Quality Checklist
Form ES-D-1	Scenario Outline (one for each scenario)
Form ES-D-2	Required Operator Actions (one for each scenario)
Administrative and System Job Performance Measures	
RO Written Exam with reference package	
SRO Written Exam with reference package	
RO/SRO Exam Answer Key	
All exam questions with corresponding distractor analysis	



Brunswick Nuclear Plant  
8470 River Rd SE  
Southport, NC 28461

December 15, 2020

Serial: RA-20-0370

U. S. Nuclear Regulatory Commission, Region II  
ATTN: Ms. Laura Dudes, Regional Administrator  
245 Peachtree Center Ave, NE, Suite 1200  
Atlanta, GA 30303-1257

Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2  
Renewed Facility Operating License Nos. DPR-71 and DPR-62  
Docket Nos. 50-325 and 50-324  
Reactor Operator and Senior Reactor Operator License Post-Examination  
Documentation

Reference: Letter from Gerald J. McCoy (NRC) to John A. Krakuszeski (Duke Energy),  
"Brunswick Steam Electric Plant – Notification of Licensed Operator Initial  
Examination 05000325/2020 and 05000324/2020301," dated February 12, 2020,  
ADAMS Accession Number ML20043F346

Dear Ms. Dudes,

In accordance with the guidelines in Revision 11, of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Duke Energy Progress, LLC, is providing the specified post examination documentation for the reactor operator and senior reactor operator examinations. The written exam was administered at the Brunswick Steam Electric Plant on December 14, 2020.

The documentation listed in the enclosure of this letter is being provided electronically via secure File Transfer Protocol (FTP), in accordance with the memorandum of understanding, to Mr. Daniel Bacon, the assigned NRC chief examiner, only. The material is not included herein. As confirmed acceptable with the NRC chief examiner, the ES-201-3 form, "Examination Security Agreement," with all the pre- and post-examination signatures will be provided via email upon completion.

This document contains no regulatory commitments.

Please refer any questions regarding this submittal to Mr. Bob Bolin, Nuclear Operations Instructor, at (910) 832-3078, or Mr. Eddie Rau, Training Superintendent, at (910) 880-0612.

Sincerely,

Sabrina Salazar  
Manager – Nuclear Support Services  
Brunswick Steam Electric Plant

SBY/sby

Enclosure: List of Post-Examination Documentation

cc (with enclosure):

Document Control Desk, NRC

Mr. Daniel Bacon, NRC Senior Operations Engineer, Region II

Mr. Gerald J. McCoy, Chief, NRC Operations Branch 1, Region II

Mr. Andrew Hon, NRC Project Manager

Mr. Gale Smith, NRC Senior Resident Inspector

Chair - North Carolina Utilities Commission

List of Post-Examination Documentation

The following documents are being provided via a secure FTP website.

1. Graded Written Examinations and Applicants' Answer Sheets
2. Master Examination and Answer Key
3. Applicants' Questions Asked and Answers Given During the Written Examination
4. Post Exam Comments, if any
5. Written Examination Seating Chart
6. ES-403-1, "Written Examination Grading Quality Checklist"
7. Written Examination Performance Analysis Results (with recommended substantive changes)