ES-201 **Examination Preparation Checklist** **Form ES-201-1**

Facility: Vogtle 1,2 Date of Examination: November 15, 2021

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).	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: Vogtle 1+2 Date of Examination: 11/15/21

Item	Task Description	Initials a	Initials b*	Initials c**
1. WRITTEN	a. Verify that the outline(s) fit(s) the appropriate model in accordance with ES-401 or ES-401N.	RP	WB	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.	RP	WB	DB
	c. Assess whether the outline overemphasizes any systems, evolutions, or generic topics.	RP	WB	DB
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	RP	WB	DB
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.	RP	WB	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.	RP	WB	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).	RP	WB	DB
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.	RP	WB	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.	RP	WB	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.	RP	WB	DB
4. GENERAL	a. Assess whether plant-specific priorities (including probabilistic risk assessment and individual plant examination insights) are covered in the appropriate exam sections.	RP	WB	DB
	b. Assess whether the 10 CFR 55.41, 55.43, and 55.45 sampling is appropriate.	RP	WB	DB
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	RP	WB	DB
	d. Check for duplication and overlap among exam sections and the last two NRC exams.	RP	WB	DB
	e. Check the entire exam for balance of coverage.	RP	WB	DB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	RP	WB	DB

		Printed Name/Signature	Date
a.	Author	Robert Poteet	10/27/21
b.	Facility Reviewer (*)	William Burns	10/27/21
c.	NRC Chief Examiner (#)	Digitally signed by Daniel M. Bacon Date: 2021.10.28 16:12:40 -04'00'	
d.	NRC Supervisor	Eugene Guthrie Digitally signed by Eugene Guthrie Date: 2021.11.05 15:37:46 -04'00'	

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

ILT-23 NRC Exam

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 November 15 – December 4, 2021 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 November 15 – December 4, 2021. 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.	Ken Jenkins	Exam Reviewer		10/26/20	per telecon	11/30/21	
2.	WILLIAM BURNS	EXAM AUTHOR		11/2/20		11/23/21	
3.	CURTIS TALLEY	EXAM AUTHOR		11/2/20		11/29/21	
4.	JOHN H. UMPHLETT	EXAM AUTHOR		2/17/21		11/23/21	
5.	Michael Barry	Sim Coordinator		2/26/21		11/29/21	
6.	Ronald DuBois	NPO		4-14-21	per email	12/6/21	
7.	Patrick Godman	Shift Supervisor		4/14/2021		11/30/2021	
8.	Robert Poteet	Instructor		4/22/21		11/23/21	
9.	JOSH DUNN	Shift Supervisor		5/25/21	per email	12/3/21	
10.	Steven Katic	NPO		5-25-21	per email	12/3/21	
11.	Alan Cocke	NPO		5-25-21	per email	12/6/21	
12.	Michael Walden	Shift Supervisor		5/25/21		11/29/2021	
13.	SHAWN BAKEFIELD	NDO		07/12/22	per email	12/3/21	
14.	Stephen Boreen	NPO		7-12-21		11-3-21	
15.	Connie Clem	Shift Supervisor		7/12/21		11/30/21	

NOTES:

ILT-23 NRC Exam

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	Trevor O. McCraw	Shift Supervisor		7/26/2021	peremail	11/1/21	
2.	Matt Horn	Regulatory Affairs Mgr		7-27-21	peremail	12/3/21	
3.	Glen Dye	NPO		8-3-21	peremail	12/6/21	
4.	Marcus Freeze	NPO		8-3-21	peremail	12/3/21	
5.	Andrew Rose	SSS		8-5-21	per email	12/6/21	
6.	STEVEN BRADY	SS		8-6-21	peremail	12/3/21	
7.	MATTHEW HENSON	SS		8-10-21	peremail	12/3/21	
8.	RE WILLIAMS	NPO		10-18-21	peremail	12/3/21	
9.	Corey Martin	SS		10/8/21		11/3/21	
10.	Deryl Fuller	NUC SPEC		10/9/21		11/3/21	
11.	Ryan Tarleton	Sim Eng		11-9-21		11/30/21	
12.	STAN NEGUS	OPS TRNG		11/15/21		11/15/21	*
13.	CHRISTOPHER DOMBROWSKI	OPS TRNG		11/15/21		11/15/21	*
14.	DARREN PEYTON	OPS TRNG		11/15/21		11/15/21	*
15.	DL Gandy	OPS TRNG	DL Gandy	11/15/21	DL Gandy	11/15/21	*

NOTES:

* PLACED ON EXAM SECURITY FOR THE DAY ONLY

ILT-23 NRC Exam

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE	
1.	Donna Zorn	OTM	[signature]	11/15/21	[signature]	11/23/21		
2.	RUSS WEBB	INSTRUCTOR	[signature]	11/15/21	[signature]	11/15/21		*
3.	Rodney Walton	ILT Lead	[signature]	11/15/21	[signature]	11/23/21		* 11/23/21
4.	Kenny McKay	Reg Affairs Manager	per telecon [signature]	11/15/21	per telecon [signature]	11/15/21		*
5.	AL Gandy	Instr, AL Gandy	AL Gandy	11/16/21	AL Gandy	11/16/21		*
6.	Christopher Dombrowski	[signature] OPS INST	[signature]	11/16/21	[signature]	11/16/21		*
7.	Stan Nelson	OPS INST.	[signature]	11/16/21	[signature]	11/16/21		*
8.	DARREN PEYTON	OPS INST	[signature]	11/16/21	[signature]	11/16/21		*
9.	Russ Webb	OPS INST	[signature]	11/16/21	[signature]	11/16/21		*
10.	CHRISTOPHER DOMBROWSKI	OPS / INST	[signature]	11/17/21	[signature]	11/17/21		*
11.	STAN NELSON	OPS / INST	[signature]	11/17/21	[signature]	11/17/21		*
12.	AL Gandy	OPS / INST	AL Gandy	11-17-21	AL Gandy	11/17/21		*
13.	DARREN PEYTON	OPS INST	[signature]	11/17/21	[signature]	11/17/21		*
14.	CHRISTOPHER DOMBROWSKI	OPS INST	[signature]	11/18/21	[signature]	11/18/21		*
15.	STAN NELSON	OPS INST	[signature]	11/18/21	[signature]	11/23/21		* 11/23/21

NOTES:

* PLACED ON EXAM SECURITY FOR THE DAY ONLY

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	PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1.	ALGandy	OPS / INSTR	ALGandy	11/18/21	ALGandy	11/18/21	*
2.	DARREN PEYTON	OPS INST		11/18/21		11/18/21	*
3.	Russ Webb	OPS INST		11/18/21		11/18/21	*
4.	Derryl Fuller	Nuc Spec		11/18/21		11/18/21	
5.	DARREN PEYTON	OPS INST		11/19/21		11/23/21	*
6.	CHRISTOPHER DOUGHERTY	OPS INST		11/19/21		11/23/21	
7.	James Dymond	LOCT Lead Inst		11/19/21		11/23/21	
8.	Kristi Nichols	SOM		11/19/21		11/19/21	*
9.	Russ Webb	OPS INST		11/19/21		11/23/21	
10.							
11.							
12.							
13.							
14.							
15.							

NOTES:

* PLACED ON EXAM SECURITY FOR THE DAY

Facility: VOGTLE 1 & 2 Date of Examination: 11/15/21 Operating Test Number: 2021-301

	1. General Criteria	Initials a	Initials b*	Initials 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).	RP	WB	DB
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	RP	WB	DB
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a.).	RP	WB	DB
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	RP	WB	DB
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	RP	WB	DB
	2. Walkthrough Criteria	--	--	--
a.	Each JPM includes the following, as applicable: • 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— – 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	RP	WB	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.	RP	WB	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.	RP	WB	DB

	Printed Name/Signature	Date
a. Author	Robert Poteet	10/27/21
b. Facility Reviewer (*)	WILLIAM BURNS	10/27/21
c. NRC Chief Examiner (#)	Digitally signed by Daniel M. Bacon Date: 2021.10.28 16:17:09 -04'00'	
d. NRC Supervisor	Eugene Guthrie Digitally signed by Eugene Guthrie Date: 2021.11.05 15:40:43 -04'00'	

* 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.

ES-301	Simulator Scenario Quality Checklist	Form ES-301-4

Facility: Vogtle 1 & 2 Date of Exam: 11/15/2021 Scenario Numbers: 1 / 3 / 4 / 5 Operating Test No.: 2021-301

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.	RP	WB	DB
2. The scenarios consist mostly of related events.	RP	WB	DB
3. Each event description consists of the following: • the point in the scenario when it is to be initiated • the malfunction(s) or conditions that are entered to initiate the event • the symptoms/cues that will be visible to the crew • the expected operator actions (by shift position) • the event termination point (if applicable)	RP	WB	DB
4. The events are valid with regard to physics and thermodynamics.	RP	WB	DB
5. Sequencing and timing of events is reasonable and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	RP	WB	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.	RP	WB	DB
7. The simulator modeling is not altered.	RP	WB	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.	RP	WB	DB
9. Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.	RP	WB	DB
10. All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	RP	WB	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.)	RP	WB	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).	RP	WB	DB
13. Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.	RP	WB	DB
14. The level of difficulty is appropriate to support licensing decisions for each crew position.	RP	WB	DB

Target Quantitative Attributes per Scenario (See Section D.5.d)	Actual Attributes	--	--	--
1. Malfunctions after EOP entry (1–2)	2 / 1 / 3 / 2	RP	WB	DB
2. Abnormal events (2–4)	4 / 4 / 5 / 4	RP	WB	DB
3. Major transients (1–2)	1 / 2 / 1 / 2	RP	WB	DB
4. EOPs entered/requiring substantive actions (1–2)	1 / 2 / 2 / 3	RP	WB	DB
5. Entry into a contingency EOP with substantive actions (≥ 1 per scenario set)	0 / 1 / 1 / 1	RP	WB	DB
6. Preidentified critical tasks (≥ 2)	2 / 2 / 2 / 2	RP	WB	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: Vogtle 1 & 2								Date of Exam: 11-15-2021						Operating Test No.: 2021-301			
APPLICANT	EVENT TYPE	Operator SRO-In1 Scenarios												TOTAL	MINIMUM(*)		
		1			3												
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO [ ] SRO-I [X] SRO-U [ ]	RX	1				1								2	1	1	0
	NOR	3				5								2	1	1	1
	I/C	2,4,5,6,8,9				2,4								8	4	4	2
	MAJ	7				7,8								3	2	2	1
	TS	2,4												2	0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2 Date of Exam: 11-15-2021 Operating Test No.: 2021-301

APPLICANT	EVENT TYPE	Operator SRO-In2 Scenarios												TOTAL	MINIMUM(*)		
		1			3												
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO [ ] SRO-I [X] SRO-U [ ]	RX	1				1								2	1	1	0
	NOR	3				5								2	1	1	1
	I/C	2,4,5,6,8,9				2,4								8	4	4	2
	MAJ	7				7,8								3	2	2	1
	TS	2,4												2	0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2 Date of Exam: 11-15-2021 Operating Test No.: 2021-301

APPLICANT	EVENT TYPE	Operator SRO-In3 Scenarios												TOTAL	MINIMUM(*)		
		5			1												
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO ☐ SRO-I ☒ SRO-U ☐	RX	5				1								2	1	1	0
	NOR													0	1	1	1
	I/C	1,2,3,4,7,8				4,5,8								9	4	4	2
	MAJ	6,9				7								3	2	2	1
	TS	2,3,4												3	0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2 Date of Exam: 11-15-2021 Operating Test No.: 2021-301

APPLICANT	EVENT TYPE	Operator SRO-In4 Scenarios															
		5			3									TOTAL	MINIMUM(*)		
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO ☐ SRO-I ☒ SRO-U ☐	RX	5				1								2	1	1	0
	NOR					5								1	1	1	1
	I/C	1,2,3,4,7,8				2,4								8	4	4	2
	MAJ	6,9				7,8								4	2	2	1
	TS	2,3,4												3	0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2		Date of Exam: 11-15-2021												Operating Test No.: 2021-301			
APPLICANT	EVENT TYPE	Operator SRO-In5 Scenarios												TOTAL	MINIMUM(*)		
		5			1												
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO ☐ SRO-I ☒ SRO-U ☐	RX	5				1								2	1	1	0
	NOR													0	1	1	1
	I/C	1,2,3,4,7,8				4,5,8								9	4	4	2
	MAJ	6,9				7								3	2	2	1
	TS	2,3,4												3	0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2								Date of Exam: 11-15-2021						Operating Test No.: 2021-301				
APPLICANT	EVENT TYPE	Operator SRO-R1 Scenarios													TOTAL	MINIMUM(*)		
		1			3			5										
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION							
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP			R	I	U
RO [X] SRO-I [ ] SRO-U [ ]	RX		1											1		1	1	0
	NOR						1			5				2		1	1	1
	I/C		4,5,8				3,6,9,10			1,3,8				10		4	4	2
	MAJ		7				7,8			6,9				5		2	2	1
	TS													0		0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX															1	1	0
	NOR															1	1	1
	I/C															4	4	2
	MAJ															2	2	1
	TS															0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX															1	1	0
	NOR															1	1	1
	I/C															4	4	2
	MAJ															2	2	1
	TS															0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX															1	1	0
	NOR															1	1	1
	I/C															4	4	2
	MAJ															2	2	1
	TS															0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2 Date of Exam: 11-15-2021 Operating Test No.: 2021-301

APPLICANT	EVENT TYPE	Operator SRO-R2 Scenarios												TOTAL	MINIMUM(*)		
		5			3												
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO ☒ SRO-I ☐ SRO-U ☐	RX		5											1	1	1	0
	NOR						1							1	1	1	1
	I/C		2,4,7				3,6,9, 10							7	4	4	2
	MAJ		6,9				7,8							4	2	2	1
	TS													0	0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2 Date of Exam: 11-15-2021 Operating Test No.: 2021-301

APPLICANT	EVENT TYPE	Operator SRO-R3 Scenarios												TOTAL	MINIMUM(*)		
		5			1												
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO [X] SRO-I [ ] SRO-U [ ]	RX		5											1	1	1	0
	NOR						1,3							2	1	1	1
	I/C		2,4,7				2,6,9							6	4	4	2
	MAJ		6,9				7							3	2	2	1
	TS													0	0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2		Date of Exam: 11-15-2021									Operating Test No.: 2021-301						
APPLICANT	EVENT TYPE	Operator SRO-R4 Scenarios												TOTAL	MINIMUM(*)		
		5			3			1									
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO [X] SRO-I [ ] SRO-U [ ]	RX		5											1	1	1	0
	NOR						1			1,3				3	1	1	1
	I/C		2,4,7				3,6,9, 10			2,6,9				10	4	4	2
	MAJ		6,9				7,8			7				5	2	2	1
	TS													0	0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2 Date of Exam: 11-15-2021 Operating Test No.: 2021-301

APPLICANT	EVENT TYPE	Operator SRO-U1 Scenarios												TOTAL	MINIMUM(*)		
		3			1												
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO ☐ SRO-I ☐ SRO-U ☒	RX	1												1	1	1	0
	NOR	5					1,3							3	1	1	1
	I/C	2,3,4,6,9,10					2,6,9							9	4	4	2
	MAJ	7,8					7							3	2	2	1
	TS	2,6												2	0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2 Date of Exam: 11-15-2021 Operating Test No.: 2021-301

APPLICANT	EVENT TYPE	Operator SRO-U2 Scenarios												TOTAL	MINIMUM(*)		
		3			5												
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO ☐ SRO-I ☐ SRO-U ☒	RX	1												1	1	1	0
	NOR	5					5							2	1	1	1
	I/C	2,3,4,6,9,10					1,3,8							9	4	4	2
	MAJ	7,8					6,9							4	2	2	1
	TS	2,6												2	0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2 Date of Exam: 11-15-2021 Operating Test No.: 2021-301

APPLICANT	EVENT TYPE	Operator SRO-U3 Scenarios												TOTAL	MINIMUM(*)		
		1			5												
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO [ ] SRO-I [ ] SRO-U [X]	RX	1												1	1	1	0
	NOR	3					5							2	1	1	1
	I/C	2,5,6,8,9					1,3,8							8	4	4	2
	MAJ	7					6,9							3	2	2	1
	TS	2,4												2	0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO [ ] SRO-I [ ] SRO-U [ ]	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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: Vogtle 1 & 2		Date of Exam: 11-15-2021								Operating Test No.: 2021-301							
APPLICANT	EVENT TYPE	Operator SRO-U4 Scenarios															
		3												TOTAL	MINIMUM(*)		
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP	SRO	ATC	BOP		R	I	U
RO ☐ SRO-I ☐ SRO-U ☒	RX	1												1	1	1	0
	NOR	5												1	1	1	1
	I/C	2,3,4,6,9,10												6	4	4	2
	MAJ	7,8												2	2	2	1
	TS	2,6												2	0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2
RO ☐ SRO-I ☐ SRO-U ☐	RX														1	1	0
	NOR														1	1	1
	I/C														4	4	2
	MAJ														2	2	1
	TS														0	2	2

Instructions:

1. Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the at-the-controls (ATC) and balance-of-plant (BOP) positions. Instant SROs (SRO-I) must serve in both the SRO and the ATC positions, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position. If an SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.

2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional 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.

ES-301	Competencies Checklist	Form ES-301-6

Facility: Vogtle 1 & 2 Date of Examination: 11/15/2021 Operating Test No.: 2021-301

Competencies	APPLICANTS											
	RO [X] SRO-I [ ] SRO-U [ ]				RO [ ] SRO-I [X] SRO-U [ ]				RO [ ] SRO-I [ ] SRO-U [X]			
	SCENARIO				SCENARIO				SCENARIO			
	3	1	5	4	3	1	5	4	3	1	5	4
Interpret/Diagnose Events and Conditions	1,2,3,4,6,7,8,9,10	1,2,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10	1,2,3,4,6,7,8,9,10	1,2,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10	1,2,3,4,6,7,8,9,10	1,2,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10
Comply with and Use Procedures (1)	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10
Operate Control Boards (2)	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10				
Communicate and Interact	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10
Demonstrate Supervisory Ability (3)					1,2,3,4,5,6,7,8,9,10	1,2,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9,10	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9	1,2,3,4,5,6,7,8,9,10
Comply with and Use TS (3)					2,6	2,4	2,3,4	2,6	2,6	2,4	2,3,4	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.)

ES-403	Written Examination Grading Quality Checklist	Form ES-403-1

Facility: Vogtle 1,2 Date of Exam: 11/23/2021 Exam Level: RO ☑ SRO ☑

Item Description		Initials		
		a	b	c
1.	Clean answer sheets copied before grading	MCS	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)	MCS	N/A	DB
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	MCS	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	N/A	N/A	N/A
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	MCS	N/A	DB

	Printed Name/Signature	Date
a. Grader	Maurin C. Scheetz Digitally signed by Maurin C. Scheetz Date: 2022.01.04 09:42:40 -05'00'	
b. Facility Reviewer(*)	N/A	
c. NRC Chief Examiner (*)	Daniel M. Bacon Digitally signed by Daniel M. Bacon Date: 2022.01.04 09:57:07 -05'00'	
d. NRC Supervisor (*)	Eugene F. Guthrie Digitally signed by Eugene F. Guthrie Date: 2022.01.04 10:47:13 -05'00'	

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

Southern Nuclear Operating Company
Vogtle Electric Generating Plant
7821 River Road
Waynesboro, Georgia 30830

Telephone 706.724.1562 Augusta Line
706.554.9961 Waynesboro Line

Southern Nuclear

Vogtle Electric Generating Plant **Southern Nuclear Operating Company**

DATE: April 9, 2021

RE: **VEGP Operating Exam Outlines**
Log: NOT-04687
Ref: Docket Nos. 50-424
50-425

U. S. Nuclear Regulatory Commission, Region II
Marquis One Tower
245 Peachtree Center Avenue, NE
Suite 1200
Atlanta, Georgia 30303-1257

ATTN: Mr. Daniel Bacon

VOGTLE ELECTRIC GENERATING PLANT
OPERATING EXAM OUTLINES

Dear Mr. Bacon:

Enclosed please find the Vogtle 1 & 2 Operating Exam Outline Package submittal and supporting documentation. This exam is to be administered the weeks of November 15, November 22, and November 29, 2021. This operating test outline package is being submitted in accordance with NUREG-1021, Revision 11, and includes ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, and ES-D-1. The exam materials contained with this package MUST be withheld from public disclosure until after the examinations are complete.

Please contact Ken Jenkins at 706-848-3951 if you have any questions.

Sincerely,

Ken Jenkins
Regulatory Exam Lead Author
Vogtle 1& 2

cc: File

Southern Nuclear Operating Company
Vogtle Electric Generating Plant
7821 River Road
Waynesboro, Georgia 30830

Telephone 706.724.1562 Augusta Line
706.554.9961 Waynesboro Line

Southern Nuclear

Vogtle Electric Generating Plant **Southern Nuclear Operating Company**

DATE: August 13, 2021

RE: **VEGP Draft Exam (75 day) Submittal**
Log: NOT-04694
Ref: Docket Nos. 50-424
50-425

U. S. Nuclear Regulatory Commission, Region II
Marquis One Tower
245 Peachtree Center Avenue, NE
Suite 1200
Atlanta, Georgia 30303-1257

ATTN: Mr. Dan Bacon

VOGTLE ELECTRIC GENERATING PLANT
OPERATING AND WRITTEN EXAMINATIONS

Dear Mr. Bacon:

Enclosed please find the Vogtle 1 & 2 Operating Test and Written Exam Package submittal and supporting documentation. The Operating Test will be administered during the weeks of November 15 and November 22, 2021. The Written Exam will be administered during the week of November 29, 2021. This exam package is being submitted in accordance with NUREG-1021, Revision 11, and includes the RO and SRO written exams, ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-3, ES-301-4, ES-301-5, ES-301-6, ES-401-6, ES-D-1, and ES-D-2. The exam materials contained with this package MUST be withheld from public disclosure until after the examinations are complete.

Please contact William Burns at 706-848-4238 if you have any questions.

Sincerely,

William Burns
Regulatory Exam Lead Author
Vogtle 1& 2

cc: File

Southern Nuclear Operating Company
Vogtle Electric Generating Plant
7821 River Road
Waynesboro, Georgia 30830

Telephone 706.724.1562 Augusta Line
706.554.9961 Waynesboro Line

Southern Nuclear

Vogtle Electric Generating Plant **Southern Nuclear Operating Company**

DATE: October 29, 2021

RE: **Vogtle 1 & 2 Exam Submittal**
Log: NOT-04700
Ref: Docket Nos. 50-424
50-425

U. S. Nuclear Regulatory Commission, Region II
Marquis One Tower
245 Peachtree Center Avenue, NE
Suite 1200
Atlanta, Georgia 30303-1257

ATTN: Mr. Daniel Bacon

VOGTLE ELECTRIC GENERATING PLANT
OPERATING AND WRITTEN EXAMINATIONS

Dear Mr. Bacon:

Enclosed please find the final submittal of the Vogtle 1 & 2 Operating Test and Written Exam Package and supporting documentation. The Operating Test will be administered during the week of November 15, 2021. The Written Exam will be administered during the week of November 22, 2021. This exam package is being submitted in accordance with NUREG-1021, Revision 11, and includes the RO and SRO written exams, ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-3, ES-301-4, ES-301-5, ES-301-6, ES-401-4, ES-401-6, ES-D-1, and ES-D-2. The exam materials contained with this package MUST be withheld from public disclosure until after the examinations are complete.

Please contact William Burns at 706-848-4238 if you have any questions.

Sincerely,

William Burns
Regulatory Exam Lead Author
Vogtle 1& 2

cc: File

Southern Nuclear Operating Company
Vogtle Electric Generating Plant
7821 River Road
Waynesboro, Georgia 30830

Telephone 706.724.1562 Augusta Line
706.554.9961 Waynesboro Line

Southern Nuclear

Vogtle Electric Generating Plant **Southern Nuclear Operating Company**

DATE: December 2, 2021

RE: **Vogtle 1 & 2 Post Exam Submittal**
Log: NOT-04701
Ref: Docket Nos. 50-424
50-425

U. S. Nuclear Regulatory Commission, Region II
Marquis One Tower
245 Peachtree Center Avenue, NE
Suite 1200
Atlanta, Georgia 30303-1257

ATTN: Mr. Daniel Bacon

VOGTLE ELECTRIC GENERATING PLANT
POST-EXAMINATION PACKAGE

Dear Mr. Bacon:

Enclosed is the post-examination package for the Vogtle 1&2 RO/SRO Initial License Exam with supporting documentation. The Operating Test was administered during the week of November 15, 2021 and the Written Exam was administered on November 23, 2021. This post-exam package is being submitted in accordance with NUREG-1021, Revision 11, and includes ES-401-7, ES-401-8, and originals and copies of all applicant answer sheets. There are also no post exam comments being made.

Please contact William Burns at 706-848-4238 if you have any questions.

Sincerely,

William Burns
Regulatory Exam Lead Author
Vogtle 1& 2

cc: File