

Facility: <u>McGuire</u>		Date of Examination: <u>Feb 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).	<i>drl</i>
-210	2. NRC examiners and facility contact assigned (C.1.d; C.2.f).	<i>drl</i>
-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).	<i>drl</i>
-210	4. Reference material due for NRC-prepared exams (C.1.e; C.3.c; Attachment 3).	<i>drl</i>
-210	5. Corporate notification letter sent (C.2.e).	<i>drl</i>
-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).	<i>drl</i>
-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).	<i>drl</i>
-136	8. Operating test outline(s) reviewed by the NRC and feedback provided to facility licensee (C.2.h; C.3.d-e).	<i>drl</i>
-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).	<i>drl</i>
-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).	<i>drl</i>
-60	11. Preliminary waiver/excusal requests due (C.1.m; C.2.c; ES-202).	<i>drl</i>
-50	12. Written exam and operating test reviews completed (C.3.f).	<i>drl</i>
-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.	<i>drl</i>
-30	14. Preliminary license applications and waiver/excusal requests, as applicable (NRC Form 398) due (C.1.m; C.2.i; ES-202).	<i>drl</i>
-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).	<i>drl</i>
-7	16. Written examinations and operating tests approved by the NRC supervisor (C.2.j-k; C.3.h).	<i>drl</i>
-7	17. Request facility licensee management feedback on the examination (C.2.l).	<i>drl</i>
-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).	<i>drl</i>
-7	19. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k).	<i>drl</i>
-7	20. Approved scenarios and job performance measures distributed to NRC examiners (C.3.i).	<i>drl</i>
* 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: McGuire		Date of Examination: 2/2020		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401 or ES-401N.	SLM	N/A	BL
	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.	SLM		BL
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	SLM		BL
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	SLM		BL
2. S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	SLM	✓	BL
	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 scenarios will not be repeated on subsequent days.	SLM	✓	BL
	c. To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4, described in Appendix D and described in Section D.5 Specific Instructions for the "Simulator Operating Test" of ES-301 (including overlap).	SLM	✓	BL
3. W A L K T H R O U G H	a. Verify that systems walk-through outline meets the criteria specified on Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form, (3) no tasks are duplicated from the applicants' audit test(s) (4) the number of new or modified tasks meets or exceeds the minimums specified on the form (5) the number of alternate path, low-power, emergency and RCA tasks meet the criteria on the form.	SLM	✓	BL
	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	SLM	✓	BL
	c. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	SLM	✓	BL
4. G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	SLM	✓	BL
	b. Assess whether the 10CFR 55.41/43 and 55.45 sampling is appropriate.	SLM	✓	BL
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	SLM	✓	BL
	d. Check for duplication and overlap among exam sections and the last two NRC exams.	SLM	✓	BL
	e. Check the entire exam for balance of coverage.	SLM	✓	BL
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	SLM	✓	BL
Printed Name / Signature		Date		
a. Author	Steven L. Masteller	1/30/2020		
b. Facility Reviewer (*)	Wiley Killebrew	1/30/2020		
c. NRC Chief Examiner (#)	David R. Lang	2/11/2020		
d. NRC Supervisor	Gerald J. McCoy	2/4/2020		

* 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 the week(s) of 2/17 & 2/24/2020 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 2/17 & 2/24/2020. 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. Steven Mosteller	Exam Author	<i>Steven Mosteller</i>	10/23/18	<i>David Mosteller</i>	2/18/2020	
2. Willey Killeck	Exam Team Super	<i>David Mosteller</i>	10/23/18	<i>David Mosteller</i>	2/27/2020	
3. Stephen Gibson	Exam Team Member	<i>David Mosteller</i>	10/23/18	<i>David Mosteller</i>	2/28/20	
4. Dennis Taylor	Simulator	<i>David Mosteller</i>	10/23/18	<i>David Mosteller</i>	3/2/2020	
5. Anne Corbin	Fleet Review	<i>David Mosteller</i>	2/19/19	<i>David Mosteller</i>	3/11/2020	
6. Rusty Miller	Fleet Review	<i>David Mosteller</i>	2/19/19	<i>David Mosteller</i>	3/2/2020	
7. David Supter	Fleet Review	<i>David Mosteller</i>	2/21/19	<i>David Mosteller</i>	3/2/2020	
8. Robert Adams	Simulator	<i>David Mosteller</i>	2/21/19	<i>David Mosteller</i>	3/2/2020	
9. Patricia E. Jackson	Shift Manager - ONUNE	<i>David Mosteller</i>	2/21/19	<i>David Mosteller</i>	3/2/2020	
10. Alastair, Sheldon	Reactor Operator	<i>David Mosteller</i>	2/21/19	<i>David Mosteller</i>	3/2/2020	
11. McCann, Charles	RNP Exam Writer	<i>David Mosteller</i>	2/21/19	<i>David Mosteller</i>	3/2/2020	
12. Packard, Joseph	RNP Exam Writer	<i>David Mosteller</i>	2/21/19	<i>David Mosteller</i>	3/2/2020	
13. D. Shea, Timothy	SRO	<i>David Mosteller</i>	2/21/19	<i>David Mosteller</i>	3/2/2020	
14. Robert, David	Ro	<i>David Mosteller</i>	2/21/19	<i>David Mosteller</i>	3/2/2020	
15. Lyle, Drew	SRO	<i>David Mosteller</i>	2/21/19	<i>David Mosteller</i>	3/2/2020	

NOTES: ① - via phone

1. Pre-Examination

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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 2/17-24/20. 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	NOTE
1. <u>David L. EARDY</u>	<u>Exam Developer</u>	<u>[Signature]</u>	<u>4/14/19</u>	<u>[Signature]</u>	<u>3/5/20</u>	<u>①</u>
2. <u>Daniel Shook</u>	<u>Simulator</u>	<u>[Signature]</u>	<u>6/10/19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
3. <u>James Boyd</u>	<u>RO</u>	<u>[Signature]</u>	<u>6/13/19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
4. <u>Otto Jakubowicz</u>	<u>SRO</u>	<u>[Signature]</u>	<u>6/18/19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
5. <u>David Plutka</u>	<u>SRO</u>	<u>[Signature]</u>	<u>7-31-19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
6. <u>DAN HOPE</u>	<u>IT</u>	<u>[Signature]</u>	<u>8-1-19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
7. <u>Neddie McGinnis</u>	<u>Ops Admin</u>	<u>[Signature]</u>	<u>8-2-19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
8. <u>Victor Ford</u>	<u>Ops Admin</u>	<u>[Signature]</u>	<u>8-2-19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
9. <u>Cherene Alvarado</u>	<u>RO</u>	<u>[Signature]</u>	<u>8/23/19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
10. <u>James C. Kears</u>	<u>RO</u>	<u>[Signature]</u>	<u>8/23/19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
11. <u>Philip Bates</u>	<u>SRO</u>	<u>[Signature]</u>	<u>8/23/19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
12. <u>J.D. Mohrman</u>	<u>RO</u>	<u>[Signature]</u>	<u>9/27/19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
13. <u>Wayne Lynn</u>	<u>SRO</u>	<u>[Signature]</u>	<u>10/10/19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
14. <u>Matt Gilman</u>	<u>Floor OTH</u>	<u>[Signature]</u>	<u>12/18/19</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>
15. <u>Charles Holland</u>	<u>RO</u>	<u>[Signature]</u>	<u>1-7-20</u>	<u>[Signature]</u>	<u>3/6/20</u>	<u>①</u>

NOTES: ① via phone

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2. Post-Examination

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PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Tiffany Long</u>	<u>SRO</u>	<u>Henry Bond</u>	<u>1-13-2020</u>	<u>Henry Bond</u>	<u>3/2/2020</u>	<u>①</u>
2. <u>DAN HETTON</u>	<u>RO</u>	<u>Dan Hetton</u>	<u>1-13-20</u>	<u>Dan Hetton</u>	<u>3/2/2020</u>	<u>①</u>
3. <u>Daniel Reeler</u>	<u>RO</u>	<u>Dan Reeler</u>	<u>1/13/20</u>	<u>Dan Reeler</u>	<u>3/3/20</u>	
4. <u>BRIAN JETTER</u>	<u>SRO</u>	<u>Brian Jetter</u>	<u>1-14-2020</u>	<u>Brian Jetter</u>	<u>3/3/20</u>	
5. <u>Chris Vorkley</u>	<u>SRO</u>	<u>Chris Vorkley</u>	<u>1-13-2020</u>	<u>Chris Vorkley</u>	<u>3/3/20</u>	
6. <u>Jim Dudley</u>	<u>RD</u>	<u>Jim Dudley</u>	<u>1-28-2020</u>	<u>Jim Dudley</u>	<u>3/2/2020</u>	<u>①</u>
7. <u>Steve Adams</u>	<u>INSPECTION</u>	<u>Steve Adams</u>	<u>2-7-20</u>	<u>Steve Adams</u>	<u>3/2/2020</u>	<u>①</u>
8. <u>Kyle Anderson</u>	<u>OPS TRN Supt</u>	<u>Kyle Anderson</u>	<u>2-7-20</u>	<u>Kyle Anderson</u>	<u>3/2/20</u>	
9. <u>Gregory Graham</u>	<u>OPS TRN Supt</u>	<u>Gregory Graham</u>	<u>2-16-20</u>	<u>Gregory Graham</u>	<u>3-2-20</u>	
10. <u>Shelley Harmon</u>	<u>OPS TRN Supt</u>	<u>Shelley Harmon</u>	<u>2-17-20</u>	<u>Shelley Harmon</u>	<u>3-2-20</u>	
11. <u>Bill Mason</u>	<u>OPS TRN Supt</u>	<u>Bill Mason</u>	<u>2-17-20</u>	<u>Bill Mason</u>	<u>3-2-20</u>	
12. <u>James Stevens</u>	<u>Training Manager</u>	<u>James Stevens</u>	<u>2-17-20</u>	<u>James Stevens</u>	<u>3-2-20</u>	<u>①</u>
13. <u>Scott Moser</u>	<u>OPS Training</u>	<u>Scott Moser</u>	<u>2-17-20</u>	<u>Scott Moser</u>	<u>3-2-20</u>	
14. <u>David Gordon</u>	<u>OPS Training</u>	<u>David Gordon</u>	<u>2-17-20</u>	<u>David Gordon</u>	<u>3-2-20</u>	
15. <u>Grant Pace</u>	<u>OPS Manager</u>	<u>Grant Pace</u>	<u>2-17-20</u>	<u>Grant Pace</u>	<u>3-2-20</u>	

NOTES:

① via phone

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PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Rob Billings</u>	<u>Instructor / Driver</u>	<u>[Signature]</u>	<u>2-19-20</u>	<u>[Signature]</u>	<u>3-12-20</u>	
2. <u>Russ Bunker</u>	<u>Instructor</u>	<u>[Signature]</u>	<u>2-19-20</u>	<u>[Signature]</u>	<u>3-12-20</u>	
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Facility:	McGuire	Date of Examination:	2/2020	Operating Test Number: N20-1
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1. GENERAL CRITERIA	Initials		
	a	b*	c#
a. The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g. 10 CFR 55.45, operational importance, safety function distribution).	SLM	W	RL
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	SLM	W	RL
c. The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	SLM	W	RL
d. Overlap with the written examination and between different parts of the operating test is within acceptable limits.	SLM	W	RL
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	SLM	W	RL
2. WALK-THROUGH CRITERIA	-	-	-
a. Each JPM includes the following, as applicable: <ul style="list-style-type: none"> • initial conditions • initiating cues • references and tools, including associated procedures • reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time-critical by the facility licensee • operationally important specific performance criteria that include- <ul style="list-style-type: none"> - detailed expected actions with exact criteria and nomenclature - system response and other examiner cues - statements describing important observations to be made by the applicant - criteria for successful completion of the task - identification of critical steps and their associated performance standards - restrictions on the sequence of steps, if applicable 	SLM	W	RL
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.	SLM	W	RL
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.	SLM	W	RL

	Printed Name / Signature	Date
a. Author	Steven L. Masteller / <i>Steven L. Masteller</i>	1/30/2020
b. Facility Reviewer (*)	Wilkey Killebrew / <i>Wilkey Killebrew</i>	1/30/2020
c. NRC Chief Examiner (#)	David R. Lange / <i>David R. Lange</i>	2/4/2020
d. NRC Supervisor	Gerald J. McRoy / <i>Gerald J. McRoy</i>	2/4/2020

* The facility licensee signature is not applicable for NRC-developed tests.

The independent NRC reviewer initials items in column "c"; the chief examiner concurrence required.

Facility:	McGuire	Date of Exam:	2/2020	Scenario Numbers:	1, 2, 3	Operating Test No.:	N20-1
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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.			SM	W	SR	
2.	The scenarios consist mostly of related events.			SM	W	SR	
3.	Each event description consists of the following: <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) or conditions that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 			SM	W	SR	
4.	The events are valid with regard to physics and thermodynamics.			SM	W	SR	
5.	Sequencing and timing of events is reasonable and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			SM	W	SR	
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.			SM	W	SR	
7.	The simulator modeling is not altered.			SM	W	SR	
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.			SM	W	SR	
9.	Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.			SM	W	SR	
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			SM	W	SR	
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.)			SM	W	SR	
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).			SM	W	SR	
13.	Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.			SM	W	SR	
14.	The level of difficulty is appropriate to support licensing decisions for each crew position.			SM	W	SR	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)				Actual Attributes			
				1	2	3	
1.	Malfunctions after EOP entry (1-2)	1	1	2	SM	W	SR
2.	Abnormal events (2-4)	4	4	3	SM	W	SR
3.	Major transients (1-2)	1	1	1	SM	W	SR
4.	EOPs entered/requiring substantive actions (1-2)	1	2	1	SM	W	SR
5.	Entry into a contingency EOP with substantive actions (≥ 1 per scenario set)	0	1	1	SM	W	SR
6.	Preidentified critical tasks (≥ 2)	2	2	2	SM	W	SR

* The facility signature is not applicable for NRC-developed tests.
Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.

Facility:	McGuire	Date of Exam:	2/2020	Scenario Numbers:	4	Operating Test No.:	N20-1	
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.					SEM	W	W
2.	The scenarios consist mostly of related events.					SEM	W	W
3.	Each event description consists of the following: <ul style="list-style-type: none"> the point in the scenario when it is to be initiated the malfunction(s) or conditions that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable) 					SEM	W	W
4.	The events are valid with regard to physics and thermodynamics.					SEM	W	W
5.	Sequencing and timing of events is reasonable and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.					SEM	W	W
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.					SEM	W	W
7.	The simulator modeling is not altered.					SEM	W	W
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.					SEM	W	W
9.	Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.					SEM	W	W
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					SEM	W	W
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.)					SEM	W	W
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).					SEM	W	W
13.	Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.					SEM	W	W
14.	The level of difficulty is appropriate to support licensing decisions for each crew position.					SEM	W	W
Target Quantitative Attributes (Per Scenario; See Section D.5.d)						Actual Attributes		
						-	-	-
						4		
1.	Malfunctions after EOP entry (1-2)					1		SEM W W
2.	Abnormal events (2-4)					4		SEM W W
3.	Major transients (1-2)					1		SEM W W
4.	EOPs entered/requiring substantive actions (1-2)					2		SEM W W
5.	Entry into a contingency EOP with substantive actions (≥ 1 per scenario set)					0		SEM W W
6.	Preidentified critical tasks (≥ 2)					2		SEM W W
<p>* The facility signature is not applicable for NRC-developed tests.</p> <p># Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.</p>								

Facility: McGuire		Date of Exam: 2/2020												Operating Test No.: N20-1				
A P P L I C A N T	E V E N T T Y P E	Scenarios																
		N20-1-1 (Day 1)			N20-1-2 (Day 2)			N20-1-3 (Day 3)						T O T A L	M I N I M U M(*)			
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION				R	I	U	
		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					
SROU-1	RX														0	1	1	0
	NOR	3			1									2	1	1	1	
	I/C	1,2, 4,5, 7			2,3, 4,5, 7									10	4	4	2	
	MAJ	6			6									2	2	2	1	
	TS	2,4			3,4									4	0	2	2	
SROU-2	RX													0	1	1	0	
	NOR	3						1						2	1	1	1	
	I/C	1,2, 4,5, 7						2,3, 4,5, 7						10	4	4	2	
	MAJ	6						8						2	2	2	1	
	TS	2,4						2,4						4	0	2	2	
SROU-3	RX													0	1	1	0	
	NOR				1			1						2	1	1	1	
	I/C				2,3, 4,5, 7			2,3, 4,5, 7						10	4	4	2	
	MAJ				6			8						2	2	2	1	
	TS				3,4			2,4						4	0	2	2	
SROI-1	RX							1						1	1	1	0	
	NOR	3			1									2	1	1	1	
	I/C	1,2, 4,5, 7			2,3, 4,5, 7			2,5						12	4	4	2	
	MAJ	6			6			8						3	2	2	1	
	TS	2,4			3,4									4	0	2	2	

Instructions:

- Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service 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 Instant SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
- Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
- For 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: McGuire		Date of Exam: 2/2020											Operating Test No.: N20-1					
A P P L I C A N T	E V E N T T Y P E	Scenarios																
		N20-1-1 (Day 1)			N20-1-2 (Day 2)			N20-1-3 (Day 3)						T O T A L	M I N I M U M(*)			
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION				R	I	U	
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P					
RO-1	RX		3												1	1	1	0
	NOR						1				1				2	1	1	1
	I/C		1,4, 5,7				3,4, 5,7				3,6, 7				11	4	4	2
	MAJ		6				6				8				3	2	2	1
	TS														0	0	2	2
RO-2	RX					1									1	1	1	0
	NOR			3											1	1	1	1
	I/C			2,5		2,5									4	4	4	2
	MAJ			6		6									2	2	2	1
	TS														0	0	2	2
RO-3	RX		3												1	1	1	0
	NOR									1					1	1	1	1
	I/C		1,4, 5,7								3,6, 7				7	4	4	2
	MAJ		6								8				2	2	2	1
	TS														0	0	2	2
RO-4	RX					1									1	1	1	0
	NOR			3											1	1	1	1
	I/C			2,5		2,5									4	4	4	2
	MAJ			6		6									2	2	2	1
	TS														0	0	2	2

Instructions:

- Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service 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 Instant SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
- Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
- For 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: McGuire		Date of Exam: 2/2020											Operating Test No.: N20-1					
A P P L I C A N T	E V E N T T Y P E	Scenarios																
		N20-1-1 (Day 1)			N20-1-2 (Day 2)			N20-1-3 (Day 3)						T O T A L	M I N I M U M(*)			
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION				R	I	U	
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P					
RO-5	RX		3												1	1	1	0
	NOR						1								1	1	1	1
	I/C		1,4, 5,7				3,4, 5,7								8	4	4	2
	MAJ		6				6								2	2	2	1
	TS														0	0	2	2
RO-6	RX					1									1	1	1	0
	NOR			3											1	1	1	1
	I/C			2,5		2,5									4	4	4	2
	MAJ			6		6									2	2	2	1
	TS														0	0	2	2
RO-7	RX							1							1	1	1	0
	NOR					1									1	1	1	1
	I/C					3,4, 5,7		2,5							6	4	4	2
	MAJ					6		8							2	2	2	1
	TS														0	0	2	2
	RX															1	1	0
	NOR															1	1	1
	I/C															4	4	2
	MAJ															2	2	1
	TS															0	2	2

Instructions:

- Check the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must service 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 Instant SRO-I *additionally* serves in the BOP position, one I/C malfunction can be credited toward the two I/C malfunctions required for the ATC position.
- Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a one-for-one basis.
- Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward the minimum requirements specified for the applicant's license level in the right-hand columns.
- For 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: McGuire	Date of Examination: 2/2020	Operating Test No.: N20-1										
Competencies	APPLICANTS											
	SRO (U/I)				RO/ATC				BOP			
	SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	1-7	1-7	1-8	1-7	1-7	1-7	1-8	1-7	1-7	1-7	1-8	1-7
Comply With and Use Procedures (1)	1-7	1-7	1-8	1-7	1-7	1-7	1-8	1-7	1-7	1-7	1-8	1-7
Operate Control Boards (2)	NA	NA	NA	NA	1,3,4,5,6,7	1,2,5,6	1,2,5,8	1,2,5,6	2,3,5,6	1,3,4,5,6,7	1,3,6,7,8	1,3,4,6
Communicate and Interact	1-7	1-7	1-8	1-7	1-7	1-7	1-8	1-7	1-7	1-7	1-8	1-7
Demonstrate Supervisory Ability (3)	1-7	1-7	1-8	1-7	NA	NA	NA	NA	NA	NA	NA	NA
Comply with and Use TS (3)	2,4	3,4	2,4	3,4	NA	NA	NA	NA	NA	NA	NA	NA
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:	Date of Exam:	Exam Level: RO <input checked="" type="checkbox"/> SRO <input checked="" type="checkbox"/>
-----------	---------------	--

Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading	slm	we	drl
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)	slm	we	drl
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	slm	we	drl
4. Grading for all borderline cases (80% \pm 2% overall and 70% or 80%, as applicable, \pm 4% on the SRO-only exam) reviewed in detail	slm	we	drl
5. All other failing examinations checked to ensure that grades are justified	slm	we	drl
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	slm	we	drl

	Date
a. Grader <u>Steven L. Mosteller / Steven L. Mosteller</u>	<u>03/09/2020</u>
b. Facility Reviewer(*) <u>Wiley Kiskette / Wiley Kiskette</u>	<u>3/11/2020</u>
c. NRC Chief Examiner (*) _____	_____
d. NRC Supervisor (*) _____	_____

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



Thomas D. Ray, P.E.
Site Vice President
McGuire Nuclear Station

Duke Energy
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Serial No: RA-19-0358

September 11, 2019

Laura A. Dudes
Region II Administrator
U.S. Nuclear Regulatory Commission Marquis One Tower
245 Peachtree Center Avenue NE, Suite 1200
Atlanta, GA 30303-1257

Subject: Duke Energy Carolinas, LLC
McGuire Nuclear Station, Units 1 and 2
Docket Nos. 50-369, 50-370
Renewed License Nos. NPF-9 and NPF-7
Reactor and Senior Reactor Operator Initial Examinations
05000369/2020301 and 05000370/2020301

Pursuant to the requirements of NUREG-1021, "Operator Licensing Standards for Power Reactors", the enclosed information provides the outline of the McGuire licensed operator examinations scheduled in February of 2020. This information is submitted as agreed upon with the Chief Examiner in accordance with the official NRC notification letter (210-Day Letter) and request for information in support of the examinations dated July 03, 2019.

Specific items provided in response to this request:

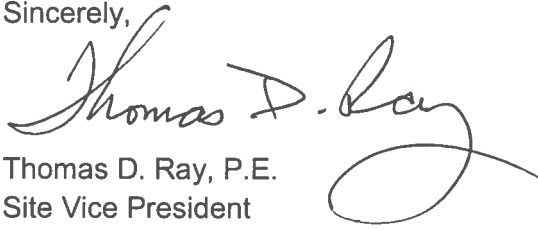
ES 201-2, Examination Outline Quality Checklist
ES 201-3, Examination Security Agreement
ES 301-1, Administrative Topics Outline (RO and SRO positions)
ES 301-2, Control Room/In-Plant Systems Outline (RO, SRO-U and SRO-I positions) ES
ES 301-3, Operating Test Quality Checklist Form
ES 301-4, Simulator Scenario Quality Checklist Form
ES 301-5, Transient and Event Checklist Form
ES 301-6, Competencies Checklist
ES 401-2, PWR Examination Outline (Electronic)
ES 401-3, Generic Knowledge and Abilities Outline (Tier 3) (Electronic)
ES 401-4, Record of Rejected K/As (Electronic)
ES-D-1, Scenario Outlines (4) (Electronic)
Exam Reference Material Package, including System Designator List (Electronic)

U.S. Nuclear Regulatory Commission
RA-19-0358
Page 2

The McGuire Operations Facility Representative has reviewed and approved the proposed examination material per NUREG-1021, Section 201. The completion of this action is documented in the attached letter dated September 4, 2019.

Questions or comments should be directed to Steven Mosteller at (980) 875-5981 or Joseph Hussey at (980) 875-5045.

Sincerely,

A handwritten signature in black ink, reading "Thomas D. Ray". The signature is fluid and cursive, with a large, stylized "T" and "R".

Thomas D. Ray, P.E.
Site Vice President
McGuire Nuclear Station

Attachment

U.S. Nuclear Regulatory Commission
RA-19-0358
Page 3

cc:

Mr. Gerald J. McCoy, Chief
Operations Branch 1
U.S. Nuclear Regulatory Commission Region II
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, Georgia 30303-1257


Mr. David Lanyi
U.S. Nuclear Regulatory Commission
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, Georgia 30303-1257

September 04, 2019

To Whom It May Concern

Pursuant to 10 CFR 55.40(b)(3), an authorized representative of the facility licensee must approve the examination outline(s) and the proposed examination(s) before they are submitted to the NRC regional office for review and approval. The outline(s) and examinations(s) must be forwarded to the NRC regional office with a cover letter signed by the facility representative.

As a McGuire facility representative, I have reviewed and approved the NRC Operating Examination outlines for the examinations to be administered in February of 2020. I have determined that the outlines are accurate, operationally valid and ready for NRC review.



Patrick Jackson
McGuire Operations



Thomas D. Ray, P.E.
Site Vice President
McGuire Nuclear Station

Duke Energy
MG01VP | 12700 Hagers Ferry Road
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Serial No: RA-19-0416

October 31, 2019

Laura A. Dudes
Region II Administrator
U.S. Nuclear Regulatory Commission Marquis One Tower
245 Peachtree Center Avenue NE, Suite 1200
Atlanta, GA 30303-1257

Subject: Duke Energy Carolinas, LLC
McGuire Nuclear Station, Units 1 and 2
Docket Nos. 50-369, 50-370
Renewed License Nos. NPF-9 and NPF-7
Reactor and Senior Reactor Operator Initial Examinations
05000369/2020301 and 05000370/2020301

Pursuant to the requirements of NUREG-1021, "Operator Licensing Standards for Power Reactors", the enclosed information provides the full examination for the McGuire licensed operator examinations scheduled in February of 2020. This information is submitted as agreed upon with the Chief Examiner in accordance with the official NRC notification letter (210-Day Letter) and request for information in support of the examinations dated July 03, 2019.

Specific items provided in response to this request:

Simulator Scenarios - (ES-D-1, Scenario Outline for each Scenario)
Simulator Scenarios - (ES-D-2, Required Operator Actions for each Scenario)
Administrative Topics - (ES-301-1, Administrative Topics Outline)
Job Performance Measures - (ES-301-2, Control Room Systems and Facility Walk-through Test Outline)
Job Performance Measures - (ES-C-1, Job Performance Measure Worksheets for each JPM)
ES 201-2, Examination Outline Quality Checklist
ES 201-3, Examination Security Agreement
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
ES 401-6, Written Examination Quality Checklist
Reactor Operator and Senior Reactor Operator Written Exam (Clean Student Copy) with Reference Packages

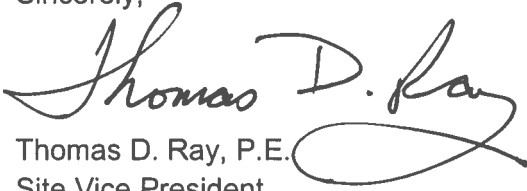
U.S. Nuclear Regulatory Commission
RA-19-0416
Page 2

Reactor Operator and Senior Reactor Operator Exam Keys
Reactor Operator and Senior Reactor Operator Exam with Distracter Analysis
Reference Materials including System Designator List

The McGuire Operations Facility Representative has reviewed and approved the proposed examination material per NUREG-1021, Section 201. The completion of this action is documented in the attached letter dated October 28, 2019.

Questions or comments should be directed to Steven Mosteller at (980) 875-5981 or Joseph Hussey at (980) 875-5045.

Sincerely,

A handwritten signature in black ink that reads "Thomas D. Ray". The signature is fluid and cursive, with a large, stylized "T" and "R".

Thomas D. Ray, P.E.
Site Vice President
McGuire Nuclear Station

Attachment

U.S. Nuclear Regulatory Commission
RA-19-0416
Page 3

cc:

Mr. Gerald J. McCoy, Chief
Operations Branch 1
U.S. Nuclear Regulatory Commission Region II
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, Georgia 30303-1257

Mr. David Lanyi
U.S. Nuclear Regulatory Commission
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
Atlanta, Georgia 30303-1257

Attachment


Simulator Scenarios - (ES-D-1, Scenario Outline for each Scenario)
Simulator Scenarios - (ES-D-2, Required Operator Actions for each Scenario)
Administrative Topics - (ES-301-1, Administrative Topics Outline)
Job Performance Measures - (ES-301-2, Control Room Systems and Facility Walk-through Test Outline)
Job Performance Measures - (ES-C-1, Job Performance Measure Worksheets for each JPM)
ES 201-2, Examination Outline Quality Checklist
ES 201-3, Examination Security Agreement
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
ES 401-6, Written Examination Quality Checklist
Reactor Operator and Senior Reactor Operator Written Exam (Clean Student Copy) with Reference Packages
Reactor Operator and Senior Reactor Operator Exam Keys
Reactor Operator and Senior Reactor Operator Exam with Distracter Analysis
Reference Materials including System Designator List

October 28, 2019

To Whom It May Concern

Pursuant to 10 CFR 55.40(b)(3), an authorized representative of the facility licensee must approve the examination outline(s) and the proposed examination(s) before they are submitted to the NRC regional office for review and approval. The outline(s) and examinations(s) must be forwarded to the NRC regional office with a cover letter signed by the facility representative.

As a McGuire facility representative, I have reviewed and approved the NRC examinations to be administered in February of 2020. I have determined that the outlines and examinations are accurate, operationally valid and ready for NRC review.


Patrick Jackson
McGuire Operations



Thomas D. Ray, P.E.
Site Vice President
McGuire Nuclear Station

Duke Energy
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Tom.Ray@duke-energy.com

March 11, 2020
Serial No: RA-20-0081

10 CFR 55.40

Laura A. Dudes, Region II Administrator
U.S. Nuclear Regulatory Commission, Region II
Marquis One Tower
245 Peachtree Center Ave, NE Suite 1200
Atlanta, Georgia 30303-1257

Subject: Duke Energy Carolinas, LLC
McGuire Nuclear Station, Units 1 and 2, Docket Numbers 50-369, 50-370
Renewed License Nos. NPF-9 and NPF-7
Reactor and Senior Reactor Operator Initial Examinations
05000369/2020301 and 05000370/2020301


The enclosed information is provided per the requirements of NUREG-1021 (Operator Licensing Standards for Power Reactors) Section ES-501 (Initial Post-Examination Activities) Part C.1, related to submission of post-examination documentation.

Specific items attached include:

- Student answer sheets and exam cover pages
- Master copy of the RO and SRO Examinations and answer keys
- Student questions during the Written Examination and proctor responses
- Student Seating Chart
- ES 201-3, Examination Security Agreement
- ES 403-1, Written Examination Grading Quality Checklist
- Post-Examination Comments

Questions or comments should be directed to Steven Mosteller at (980) 875-5981 or Joseph Hussey at (980) 875-5045.

Sincerely,


Thomas D. Ray, P.E.
Site Vice President
McGuire Nuclear Station

Attachments

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