

Facility: <u>McGrice</u>		Date of Examination: <u>4/16/18</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>[initials]</i>
-210	2. NRC examiners and facility contact assigned (C.1.d; C.2.f).	<i>[initials]</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>[initials]</i>
-210	4. Reference material due for NRC-prepared exams (C.1.e; C.3.c; Attachment 3).	<i>[initials]</i>
-210	5. Corporate notification letter sent (C.2.e). <i>call on 8/29/17</i>	<i>[initials]</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>[initials]</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>[initials]</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>[initials]</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>[initials]</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>NA</i>
-60	11. Preliminary waiver/excusal requests due (C.1.m; C.2.c; ES-202).	<i>[initials]</i>
-50	12. Written exam and operating test reviews completed (C.3.f).	<i>[initials]</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>[initials]</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>[initials]</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>[initials]</i>
-7	16. Written examinations and operating tests approved by the NRC supervisor (C.2.j-k; C.3.h).	<i>[initials]</i>
-7	17. Request facility licensee management feedback on the examination (C.2.l).	<i>[initials]</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>[initials]</i>
-7	19. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k).	<i>[initials]</i>
-7	20. Approved scenarios and job performance measures distributed to NRC examiners (C.3.i).	<i>[initials]</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: 4/2018		
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	ke	JS NB
	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	ke	JS NB
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	SLM	ke	JS NB
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	SLM	ke	JS NB
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	ke	JS NB
	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	ke	JS NB
	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	ke	JS NB
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		ke	
	(5) the number of alternate path, low-power, emergency and RCA tasks meet the criteria on the form.	SLM		JS NB
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	SLM	ke	JS NB	
(3) no more than one task is repeated from the last two NRC licensing examinations	SLM	ke	JS NB	
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	ke	JS NB	
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	ke	JS NB
	b. Assess whether the 10CFR 55.41/43 and 55.45 sampling is appropriate.	SLM	ke	JS NB
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	SLM	ke	JS NB
	d. Check for duplication and overlap among exam sections and the last two NRC exams.	SLM	ke	JS NB
	e. Check the entire exam for balance of coverage.	SLM	ke	JS NB
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	SLM	ke	JS NB
Printed Name / Signature		Date		
a. Author	Steven Mosteller / <i>Steven Mosteller</i>	4/13/18		
b. Facility Reviewer (*)	Wiley Killelte / <i>Wiley Killelte</i>	4/19/18		
c. NRC Chief Examiner (#)	Jason D. Buxey / <i>Jason D. Buxey</i> Mark A. Barnes / <i>Mark A. Barnes</i>	4/6/18 4/9/18		
d. NRC Supervisor	Gerald S. Kelley / <i>Gerald S. Kelley</i>	4/9/2018		
* 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 16 April 2018 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 requirement of the (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 16 April 2018. 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 Morteller	MNS Exam Team	<i>Steven Morteller</i>	02/15/17	<i>Steven Morteller</i>	4/27/18	
2. Clark Fletcher	MNS Exam Team	<i>Clark Fletcher</i>	02/15/17	<i>Clark Fletcher</i>	4/27/18	
3. Wiley Killebrew	MNS Exam Team	<i>Wiley Killebrew</i>	02/15/17	<i>Wiley Killebrew</i>	4/27/18	
4. Rusty Miller	CNS Exam Team	<i>Rusty Miller</i>	02/15/17	<i>Rusty Miller</i>	4/27/18	
5. Patrick R. Jackson	CNS Exam Team	<i>Patrick R. Jackson</i>	02/15/17	<i>Patrick R. Jackson</i>	4/27/18	
6. Patrick R. Jackson	MNS Facility Rep (ops sro)	<i>Patrick R. Jackson</i>	02/15/17	<i>Patrick R. Jackson</i>	4/27/18	
7. Eric Palmer	RO Validator	<i>Eric Palmer</i>	02/15/17	<i>Eric Palmer</i>	4/27/18	
8. Justin Black	SRO Validator	<i>Justin Black</i>	02/15/17	<i>Justin Black</i>	4/27/18	
9. Andy Smith	SRO Validator	<i>Andy Smith</i>	02/15/17	<i>Andy Smith</i>	4/27/18	
10. Ryan Nelson	RO Validator	<i>Ryan Nelson</i>	02/15/17	<i>Ryan Nelson</i>	4/27/18	
11. Chad Adams	Sim Support	<i>Chad Adams</i>	02/15/17	<i>Chad Adams</i>	4/27/18	
12. SAM LARK	ONS NRC Exam Author	<i>SAM LARK</i>	02/15/17	<i>SAM LARK</i>	4/27/18	
13. SAM LARK	ONS NRC Exam Author	<i>SAM LARK</i>	02/15/17	<i>SAM LARK</i>	4/27/18	
14. Michael Henry	RO Validator	<i>Michael Henry</i>	02/15/17	<i>Michael Henry</i>	4/27/18	
15. Dave Dixon	RO Validator	<i>Dave Dixon</i>	02/15/17	<i>Dave Dixon</i>	4/27/18	

NOTES:































NOTE 1: TERM MEMOR DECEASED - *Noted 4/27/18*
 NOTE 2: via phone - *Noted*
 NOTE 3: via email - *Noted*

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 16 April 2018. 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. Ryan Whitsart	SRO		8-2-17		5/8/18	3 via Emails
2. Wayne Flynn	SRO		8/3/17		5/8/18	2 via phone
3. John H. Sadler	Simulator Testers		10/18/17		08/30/18	
4. Dennis J. Tabor	Simulator LEAD ENGR		10/18/17		4/30/18	
5. Vickie McGinnis	Admin. Specialist		10/17/17		4/30/18	
6. Stephen Gibson	OPS Instructor		10/27/17		5/1/18	
7. Richard Buvis	Emergency Planner Spec.		11-3-17		08/01-18	
8. Bob Billings	Release Operator		12-1-17		4-30-18	
9. Bob Billings	OPS Instructor		1-15-18		5-1-18	2 via phone
10. CHRISTOPHER McCONNEL	RNP OPS INSTRUCTOR		1-15-18		5-1-18	2 via phone
11. Jeff Bower	Local IT		1/27/18		4/27/18	
12. Jeremy Mohrman	RO OPS		1/27/18		5/1/18	2 via phone
13. Jim Keen	RO OPS		1/27/18		5/1/18	2 via phone
14. Tim O'Shea	SRO Validator		2/9/18		5/1/18	
15. Van Ford	Ops Trng Mgr		2/13/18		4/30/18	

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PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Shelley Albarton</u>	<u>RC Validator</u>	<u>[Signature]</u>	<u>2/5/18</u>	<u>[Signature]</u>	<u>5/1/18</u>	
2. <u>Daniel Baker</u>	<u>SRO</u>	<u>[Signature]</u>	<u>2/22/18</u>	<u>[Signature]</u>	<u>5/13/18</u>	<u>② via phone</u>
3. <u>Jeff Thomas</u>	<u>Reg Affairs MGR</u>	<u>[Signature]</u>	<u>3/10/18</u>	<u>[Signature]</u>	<u>5-8-18</u>	
4. <u>Brandon Howard</u>	<u>RO</u>	<u>[Signature]</u>	<u>12/18/18</u>	<u>[Signature]</u>	<u>5-3-18</u>	
5. <u>Jim DUDLEY</u>	<u>SRO</u>	<u>[Signature]</u>	<u>3/12/18</u>	<u>[Signature]</u>	<u>5-3-11</u>	
6. <u>Tim Johnson</u>	<u>SRO</u>	<u>[Signature]</u>	<u>3/19/18</u>	<u>[Signature]</u>	<u>5/1/18</u>	
7. <u>Scott Barrett</u>	<u>RO</u>	<u>[Signature]</u>	<u>3/19/18</u>	<u>[Signature]</u>	<u>6/3/18</u>	
8. <u>Michael G. Johnson II</u>	<u>OPS Manager</u>	<u>[Signature]</u>	<u>3/19/18</u>	<u>[Signature]</u>	<u>5/3/18</u>	<u>② via phone</u>
9. <u>Edward R. Pigott</u>	<u>SRO</u>	<u>[Signature]</u>	<u>3/20/18</u>	<u>[Signature]</u>	<u>8/1/18</u>	
10. <u>Tom Bernard</u>	<u>Reactor Engineer</u>	<u>[Signature]</u>	<u>3/22/18</u>	<u>[Signature]</u>	<u>1-1-18</u>	
11. <u>Ryan Davis</u>	<u>LPCT Supervisor</u>	<u>[Signature]</u>	<u>3/22/18</u>	<u>[Signature]</u>	<u>4/30/18</u>	<u>② via phone</u>
12. <u>Barry Graham</u>	<u>RO</u>	<u>[Signature]</u>	<u>3/27/18</u>	<u>[Signature]</u>	<u>2/1/18</u>	
13. <u>David Palmer</u>	<u>RO</u>	<u>[Signature]</u>	<u>3-7-18</u>	<u>[Signature]</u>	<u>5-3-18</u>	
14. <u>Richard L. Smith</u>	<u>RO</u>	<u>[Signature]</u>	<u>4-7-18</u>	<u>[Signature]</u>	<u>5/13/18</u>	
15. <u>Todd Lerner</u>	<u>SRO</u>	<u>[Signature]</u>	<u>4/11/18</u>	<u>[Signature]</u>	<u>5/1/18</u>	

NOTES:

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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>DAVID LARGENT</u>	<u>Exam Developer</u>	<u>[Signature]</u>	<u>3/14/17</u>	<u>[Signature]</u>	<u>4-30-18</u>	<u>② with phone</u>
2. <u>MATT NEW GLAND</u>	<u>Floor CTM</u>	<u>[Signature]</u>	<u>4/10/18</u>	<u>[Signature]</u>	<u>5-1-18</u>	
3. <u>SCOTT T. KEEN</u>	<u>Room Squirt/MNS</u>	<u>[Signature]</u>	<u>4-18-18</u>	<u>[Signature]</u>	<u>5-1-18</u>	
4. <u>BILL MASON</u>	<u>SRO/Floor Instructor</u>	<u>[Signature]</u>	<u>4-16-18</u>	<u>[Signature]</u>	<u>4-30-18</u>	
5. <u>STEVE HELMS</u>	<u>SRO/Floor Instructor</u>	<u>[Signature]</u>	<u>4-20-18</u>	<u>[Signature]</u>	<u>4-20-18</u>	
6. <u>Russ Buntin</u>	<u>Ops Instructor</u>	<u>[Signature]</u>	<u>4/16/18</u>	<u>[Signature]</u>	<u>4/30/18</u>	
7. <u>Garry Hull</u>	<u>Ops Instructor</u>	<u>[Signature]</u>	<u>4/16/18</u>	<u>[Signature]</u>	<u>5/3/18</u>	
8. <u>MIKE KELK</u>	<u>TRN MNT</u>	<u>[Signature]</u>	<u>4/17/18</u>	<u>[Signature]</u>	<u>5/7/18</u>	
9. <u>NICHA A. LOUETTE</u>	<u>Ops Instructor</u>	<u>[Signature]</u>	<u>4/18/18</u>	<u>[Signature]</u>	<u>4/30/18</u>	
10. <u>AYAN ANGERS</u>	<u>Ops Instructor</u>	<u>[Signature]</u>	<u>4/18/18</u>	<u>[Signature]</u>	<u>4/30/18</u>	
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PRINTED NAME	JOB TITLE/RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. William Osburn	SR Supervisor		4/18/18		5/3/18	2 via phone 5/1/18
2. Renee Bouze	S.R. Admin. Spec		4/19/18		5/1/18	
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NOTES:

Facility:	McGuire	Date of Examination:	4/2018	Operating Test Number: N18-1
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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	ke	MB
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	SLM	ke	MB
c. The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	SLM	ke	MB
d. Overlap with the written examination and between different parts of the operating test is within acceptable limits.	SLM	ke	MB
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	SLM	ke	MB

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	ke	MB
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	ke	MB

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	ke	MB

	Printed Name / Signature	Date
a. Author	Steven Moskiter / <i>Steven Moskiter</i>	4/3/18
b. Facility Reviewer (*)	Wiley Killeter / <i>Wiley Killeter</i>	4/3/18
c. NRC Chief Examiner (#)	JASON D. BUJOY / <i>JASON D. BUJOY</i>	4/6/18
d. NRC Supervisor	Gerald J. McCoy / <i>Gerald J. McCoy</i>	4/9/18

* 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:	4/2018	Scenario Numbers:	1, 2, 3	Operating Test No.:	N18-1				
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	ke	nb			
2.	The scenarios consist mostly of related events.					SEM	ke	nb			
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	ke	nb			
4.	The events are valid with regard to physics and thermodynamics.					SEM	ke	nb			
5.	Sequencing and timing of events is reasonable and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.					SEM	ke	nb			
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	ke	nb			
7.	The simulator modeling is not altered.					SEM	ke	nb			
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	ke	nb			
9.	Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.					SEM	ke	nb			
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).					SEM	ke	nb			
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	ke	nb			
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	ke	nb			
13.	Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.					SEM	ke	nb			
14.	The level of difficulty is appropriate to support licensing decisions for each crew position.					SEM	ke	nb			
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	SEM	ke	nb
2.	Abnormal events (2-4)					3	4	4	SEM	ke	nb
3.	Major transients (1-2)					1	1	1	SEM	ke	nb
4.	EOPs entered/requiring substantive actions (1-2)					2	2	1	SEM	ke	nb
5.	Entry into a contingency EOP with substantive actions (≥ 1 per scenario set)					2	0	0	SEM	ke	nb
6.	Preidentified critical tasks (≥ 2)					2	2	2	SEM	ke	nb
* 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: 4/2018	Scenario Numbers: 4	Operating Test No.: N18-1
--------------------------	-----------------------------	----------------------------	----------------------------------

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.	sim	lc	nb			
2.	The scenarios consist mostly of related events.	sim	lc	nb			
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) 	sim	lc	nb			
4.	The events are valid with regard to physics and thermodynamics.	sim	lc	nb			
5.	Sequencing and timing of events is reasonable and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	sim	lc	nb			
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.	sim	lc	nb			
7.	The simulator modeling is not altered.	sim	lc	nb			
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.	sim	lc	nb			
9.	Scenarios are new or significantly modified in accordance with Section D.5 of ES-301.	sim	lc	nb			
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	sim	lc	nb			
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.)	sim	lc	nb			
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).	sim	lc	nb			
13.	Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.	sim	lc	nb			
14.	The level of difficulty is appropriate to support licensing decisions for each crew position.	sim	lc	nb			
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes			-	-	-
		4					
1.	Malfunctions after EOP entry (1-2)	1			sim	lc	nb
2.	Abnormal events (2-4)	4			sim	lc	nb
3.	Major transients (1-2)	1			sim	lc	nb
4.	EOPs entered/requiring substantive actions (1-2)	1			sim	lc	nb
5.	Entry into a contingency EOP with substantive actions (≥ 1 per scenario set)	0			sim	lc	nb
6.	Preidentified critical tasks (≥ 2)	3			sim	lc	nb

* 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: 4/2018											Operating Test No.: N18-1					
A P P L I C A N T	E V E N T T Y P E	Scenarios																
		N18-1-1 (Day 1)			N18-1-2 (Day 2)			N18-1-4 (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	1													1	1	1	1
	I/C	2,3, 4,7													4	4	4	2
	MAJ	5													1	2	2	1
	TS	1,3													2	0	2	2
SROU-2	RX														0	1	1	0
	NOR	1													1	1	1	1
	I/C	2,3, 4,7													4	4	4	2
	MAJ	5													1	2	2	1
	TS	1,3													2	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			6							2	2	2	1
	TS				3,4			1,2							4	0	2	2
SROU-4	RX														0	1	1	0
	NOR				1										1	1	1	1
	I/C				2,3, 4,5, 7										5	4	4	2
	MAJ				6										1	2	2	1
	TS				3,4										2	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:		4/2018		Operating Test No.:		N18-1							
A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	M I N I M U M(*)		
		N18-1-1 (Day 1)			N18-1-2 (Day 2)			N18-1-4 (Day 3)									
		CREW POSITION			CREW POSITION			CREW POSITION			CREW POSITION						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
SROI-1	RX					1								1	1	1	0
	NOR	1								1				2	1	1	1
	I/C	2,3, 4,7				2,5				2,4, 5,7				10	4	4	2
	MAJ	5				6				6				3	2	2	1
	TS	1,3												2	0	2	2
SROI-2	RX								1					1	1	1	0
	NOR			1	1									2	1	1	1
	I/C			2,3, 7	2,3, 4,5, 7				3,5					10	4	4	2
	MAJ			5	6				6					3	2	2	1
	TS				3,4									2	0	2	2
RO-1	RX		3											1	1	1	0
	NOR						1							1	1	1	1
	I/C		2,4				3,4, 7							5	4	4	2
	MAJ		5				6							2	2	2	1
	TS													0	0	2	2
RO-2	RX					1								1	1	1	0
	NOR			1										1	1	1	1
	I/C			2,3, 7		2,5								5	4	4	2
	MAJ			5		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: 4/2018												Operating Test No.: N18-1				
A P P L I C A N T	E V E N T T Y P E	Scenarios																
		N18-1-1 (Day 1)			N18-1-2 (Day 2)			N18-1-4 (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-3	RX		3												1	1	1	0
	NOR						1								1	1	1	1
	I/C		2,4				3,4, 7								5	4	4	2
	MAJ		5				6								2	2	2	1
	TS														0	0	2	2
RO-4	RX		3												1	1	1	0
	NOR						1								1	1	1	1
	I/C		2,4				3,4, 7								5	4	4	2
	MAJ		5				6								2	2	2	1
	TS														0	0	2	2
RO-5	RX					1									1	1	1	0
	NOR			1											1	1	1	1
	I/C			2,3, 7		2,5									5	4	4	2
	MAJ			5		6									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.
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- 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: 4/2018	Operating Test No.: N18-1										
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	1-9	1-7	1-7	1-7	1-9	1-7	1-7	1-7	1-9	1-7
Comply With and Use Procedures (1)	1-7	1-7	1-9	1-7	1-7	1-7	1-9	1-7	1-7	1-7	1-9	1-7
Operate Control Boards (2)	NA	NA	NA	NA	2,3,4,5,	1,2,5,6	1,2,5,6,7	1,3,5,6	1,2,3,5,7	1,3,4,6,7	1,3,4,6,8	1,2,4,5,6,7
Communicate and Interact	1-7	1-7	1-9	1-7	1-7	1-7	1-9	1-7	1-7	1-7	1-9	1-7
Demonstrate Supervisory Ability (3)	1-7	1-7	1-9	1-7	NA	NA	NA	NA	NA	NA	NA	NA
Comply with and Use TS (3)	1,3	3,4	1,2	1,2	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"/>
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Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading	sem	ke	ga
2. Proposed answer key changes and question deletions justified and documented (facility reviewer initials not required (N/R) if NO post-examination comments are submitted)	n/a	N/R	N/R
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	sem	ke	ga
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	sem	ke	ga
5. All other failing examinations checked to ensure that grades are justified	n/a	N/R	NA
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	sem	ke	ga

	Printed Name/Signature	Date
a. Grader	Steven Masteller / <i>Steven Masteller</i>	4/26/18
b. Facility Reviewer(*)	Wiley Killelte / <i>Wiley Killelte</i>	5/9/18
c. NRC Chief Examiner (*)	Jason D. Buror / <i>Jason D. Buror</i>	5/16/18
d. NRC Supervisor (*)	Gerald McCoy / <i>Gerald McCoy</i>	6/11/18

(*) 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
MG01VP | 12700 Hagers Ferry Road
Huntersville, NC 28078

Serial No: MNS-18-004

January 23, 2018

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Tom.Ray@duke-energy.com

Catherine Haney, Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
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 Nos. 50-369, 50-370
Reactor and Senior Reactor Operator Initial Examinations
05000369/2018301 and 05000370/2018301

Pursuant to the requirements of NUREG-1021, "Operator Licensing Standards for Power Reactors", the enclosed information provides the full examinations for the McGuire licensed operator examinations scheduled in April of 2018. 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 August 31, 2017.

Specific items provided in response to this request:

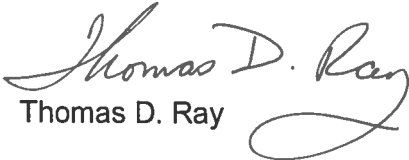
Simulator Scenarios - (ES-D-1, Scenario Outline for each Scenario)
Simulator Scenarios - (ES-D-2, Required Operator Actions for each Scenario)
Administrative Topics - (ES-301-1, Administrative Topics Outline)
Job Performance Measures - (ES-301-2, Control Room Systems and Facility Walk-through Test Outline)
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
Reactor Operator and Senior Reactor Operator Exam Keys
Reactor Operator and Senior Reactor Operator Exam with Distracter Analysis
Reference Materials including System Designator List

U. S. Nuclear Regulatory Commission
January 23, 2018
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 January 16, 2018.

Questions or comments should be directed to Brian Richards at (980) 875-5171 or Steven Mosteller at (980) 875-5981.

Sincerely,


Thomas D. Ray

U. S. Nuclear Regulatory Commission
January 23, 2018
Page 3

Mr. Gerald J. McCoy, Chief
U.S. Nuclear Regulatory Commission
Operations Branch 1
Marquis One Tower
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Mr. Jason Bundy
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Atlanta, Georgia 30303-1257


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

January 16, 2018

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 April of 2018. I have determined that the outlines and examinations are accurate, operationally valid and ready for NRC review.


Patrick Jackson
McGuire Operations



Steven D. Capps
Vice President
McGuire Nuclear Station

Duke Energy
MG01VP | 12700 Hagers Ferry Road
Huntersville, NC 28078

Serial: MNS-17-045
November 13, 2017

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Steven.Capps@duke-energy.com

Catherine Haney
Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
Marquis One Tower
245 Peachtree Center Ave., NE Suite 1200
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Subject: Duke Energy Carolinas, LLC
McGuire Nuclear Station, Units 1 and 2
Docket Nos. 50-369, 50-370
Reactor and Senior Reactor Operator Initial Examinations
05000369/2018301 and 05000370/2018301

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 April of 2018. The 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 August 31, 2017.

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 301-3, Operating Test Quality Checklist
- ES 301-4, Simulator Scenario Quality Checklist
- ES 301-5, Transient and Event 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 (Electronic)

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 November 6, 2017.

Questions or comments should be directed to Brian Richards at 980.875.5171 or Steven Mosteller at 980.875.5981.


Steven D. Capps

U. S. Nuclear Regulatory Commission
November 13, 2017
Page 2

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Thomas D. Ray, P.E.
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Serial No: MNS-18-034

May 11, 2018

Catherine Haney, Regional Administrator, Region II
U.S. Nuclear Regulatory Commission
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
Reactor and Senior Reactor Operator Initial Examinations
05000369/2018301 and 05000370/2018301

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 provided 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 Brian Richards at (980) 875-5171 or Steven Mosteller at (980) 875-5981.

Sincerely,

A handwritten signature in black ink that reads "Thomas D. Ray".

Thomas D. Ray
Site Vice President
McGuire Nuclear Station

U.S. Nuclear Regulatory Commission
May 11, 2018
Page 2

xc:

Mr. Gerald J. McCoy, Chief
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