

UNITED STATES NUCLEAR REGULATORY COMMISSION REGION II 245 PEACHTREE CENTER AVENUE NE, SUITE 1200 ATLANTA, GEORGIA 30303-1257

May 15, 2015

William R. Gideon Brunswick Steam Electric Plant Vice President Brunswick Steam Electric Plant P.O. Box 10429 Southport, NC 28461

SUBJECT: BRUNSWICK STEAM ELECTRIC PLANT – NOTIFICATION OF LICENSED OPERATOR INITIAL EXAMINATION 05000325/2015301 AND 05000324/2015301

Dear Mr. Gideon:

In a telephone conversation on May 12, 2015, between Mr. Robert Bolin, Examination Development Coordinator, Mr. Louis Sosler, Examination Author, and Mr. Richard S. Baldwin, Senior Operations Engineer, arrangements were made for the administration of licensing examinations at the Brunswick Steam Electric Plant. The operating test is scheduled to be administered during the weeks of November 30, 2015 and December 7, 2015. The written examination is scheduled to be administered the week of December 14, 2015. The on-site preparatory week is scheduled for the week of November 2, 2015.

As agreed during the telephone conversation, your staff will prepare both the operating test and written examinations based on the guidelines in Revision 10, of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors." The U.S. Nuclear Regulatory Commission (NRC) regional office will discuss with your staff any changes that might be necessary before the examinations are administered. Your staff has also agreed to make copies of all examination materials that are necessary for administering the examination.

To meet the above schedule, it will be necessary for your staff to furnish the operating test outlines by September 1, 2015. Mr. Philip Capehart provided written examination outlines to your staff in February 2015. The written examinations, operating test and the supporting reference materials identified in Attachment 3 to ES-201 will be due by October 1, 2015. Pursuant to Title 10, Section 55.40(b)(3), of the Code of Federal Regulations (10 CFR 55.40(b)(3)), an authorized representative of the facility licensee shall approve the examinations, and test before they are submitted to the NRC for review and approval. All materials shall be complete and ready-to-use.

We request that any personal, proprietary, sensitive unclassified, or safeguards information in your response be contained in a separate enclosure and appropriately marked. Any delay in receiving the required examination and reference materials, or the submittal of inadequate or incomplete materials, may cause the examinations to be rescheduled.

In order to conduct the requested written examinations and operating tests, it will be necessary for your staff to provide adequate space and accommodations in accordance with ES-402, and to make the simulation facility available on the dates noted above. In accordance with ES-302, your staff should retain the original simulator performance data (e.g., system pressures, temperatures, and levels) generated during the dynamic operating tests until the examination results are final.

Appendix E of NUREG-1021 contains a number of NRC policies and guidelines that will be in effect while the written examinations and operating tests are being administered.

To permit timely NRC review and evaluation, your staff should submit preliminary reactor operator and senior reactor operator license applications (Office of Management and Budget (OMB) approval number 3150-0090), medical certifications (OMB approval number 3150-0024), and waiver requests (OMB approval number 3150-0090) at least 30 days before the first examination date. If the applications are not received at least 30 days before the first examination date, a postponement may be necessary. Signed applications certifying that all training has been completed should be submitted at least 14 days before the first examination date.

This letter contains information collections that are subject to the *Paperwork Reduction Act of 1995* (44 U.S.C. 3501 et seq.). These information collections were approved by OMB under approval number 3150-0018, which expires on April 30, 2016. The public reporting burden for this collection of information is estimated to average 2500 hours per response, including the time for reviewing instructions, gathering and maintaining the data needed, writing the examinations, and completing and reviewing the collection of information. Send comments on any aspect of this collection of information, including suggestions for reducing the burden, to the Information and Records Management Branch (T-6 F33), U.S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by Internet electronic mail at BJS1@nrc.gov; and to the Desk Officer, Office of Information and Regulatory Affairs, NEOB-10202, (3150-0018), Office of Management and Budget, Washington, DC 20503.

The NRC may neither conduct nor sponsor, and a person is not required to respond to, an information collection, unless it displays a currently valid OMB control number.

In accordance with 10 CFR 2.390, "Public Inspections, Exemptions, Requests for Withholding," of the NRC's "Rules of Practice," a copy of this letter and its enclosures will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of the NRC's Agencywide Documents Access and Management System (ADAMS). ADAMS is accessible from the NRC Website at http://www.nrc.gov/reading-rm.adams.html (the Public Electronic Reading Room).

Thank you for your cooperation in this matter. Mr. Robert Bolin has been advised of the policies and guidelines referenced in this letter. If you have any questions regarding the NRC's examination procedures and guidelines, please contact Mr. Richard S. Baldwin at (404) 997-4642, (Internet E-mail: <u>Richard.Baldwin@nrc.gov</u>), or me at (404) 997-4662, (Internet E-mail: <u>Eugene.Guthrie@nrc.gov</u>)

Sincerely,

/**RA**/

Eugene F. Guthrie, Chief Operations Branch 2 Division of Reactor Safety

Docket Nos.: 50-325, 50-324 License Nos.: DPR-71, DPR-62

cc: Distribution via Listserv

Sincerely,

/**RA**/

Eugene F. Guthrie, Chief Operations Branch 2 Division of Reactor Safety

Docket Nos.: 50-424, 50-425 License Nos.: NPF-68, NPF-81

cc: Distribution via Listserv

 x
 PUBLICLY AVAILABLE
 INON-PUBLICLY AVAILABLE

 ADAMS: x
 Yes
 ACCESSION NUMBER:_ML15138A340_____

□ SENSITIVE x□ NON-SENSITIVE □ SUNSI REVIEW COMPLETE □ FORM 665 ATTACHED

OFFICE	RII:DRS	RII:DRS					
SIGNATURE	VIA EMAIL	EFG					
NAME	BALDWIN	GUTHRIE					
DATE	5/13/2015	5/ 15 /2015	5/ /2015	5/ /2015	5/ /2015	5/ /2015	5/ /2015
E-MAIL COPY?	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO	YES NO

OFFICIAL RECORD COPY DOCUMENT NAME: G:\OLEXAMS\BRUNSWICK EXAMINATIONS\INITIAL EXAM 2015-301\CORRESPONDENCE\BRUNSWICK 2015-301 CORPORATE NOTIFICATION LETTER_R00(RSB).DOCX

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Examination Preparation Checklist

Form ES-201-1

Facility:	Brunwick Date of Examination	: <u>12/2015</u>
Developed t	py: Written: Facility 📈 NRC 🗌 // Operating Facility 🕅 NR	
Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	RSB
- <u>150</u>	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	RSB
- <u>150</u>	3. Facility contact briefed on security and other requirements (C.2.c)	RSB
- <u>150</u>	4. Corporate notification letter sent (C.2.d)	RSB
[- <u>120]</u>	5. Reference material due (C.1.e; C.3.c; Attachment 3)	RSB
{- <u>90}</u>	 Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1, ES-401-1/2, ES-401N-1/2, ES-401-3, ES-401N-3, ES-401-4, and ES-401N-4, as applicable (C.1.e and f; C.3.d) 	RSB
{- <u>85}</u>	 Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e) 	RSB
{- <u>60}</u>	 Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6, ES-401N-6, and any Form <u>ES-201-2, ES-201-3, ES-301-1, or ES-301-2</u> updates), and reference materials due (C.1.e, f, g and h; C.3.d) 	RSB
-45	9Written exam and operating test reviews completed. (C.3.f)	RSB
-30	10. Preliminary license applications (NRC Form 398's) due (C.1.I; C.2.g; ES-202)	RSB
-21	1_1. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	RSB
-21	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	RSB
-14	13. Final license applications due and Form ES-201-4 prepared (C.1.I; C.2.i; ES-202)	RSB
- <u>14</u>	14. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	RSB
-7	15Facility licensee management queried regarding the licensee's views on the examination. (C.2 j)	RSB
-7	 Final applications reviewed; 1 or 2 (if >10) applications audited to confirm qualifications / eligibility; and examination approval and waiver letters sent (C.2.i; Attachment 5; ES-202, C.2.e; ES-204) 	RSB
-7	17. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	RSB
-7	18. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	RSB
* Target date identified in tl case basis in [Applies only]	s are generally based on facility-prepared examinations and are keyed to the examinations and are keyed to the examination be corporate notification letter. They are for planning purposes and may be adjusted coordination with the facility licensee. {Does not apply} to examinations prepared by the NRC.	ation date on a case-by-

Examination Outline Quality Checklist

Form ES-201-2

Facility:	Bru	inswick Nuclear Plant Date of Examination: Dec 2	015		
Item		Task Description		Initial	s
1.	a.	Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401 or ES-401N.	a,		c#
W R I T	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.	1	*	Mb
T E	c.	Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	Z.	VIA	145
N	d.	Assess whether the justifications for deselected or rejected K/A statements are appropriate.	6	NIĂ	189
2. S	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.	6	Ŷ	Nat
I M U L A T	b.	Assess whether there are enough scenario sets (and spares) to test the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity, and ensure that each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s), and that scenarios will not be repeated on subsequent days.	L	P	lat
O R	c.	To the extent possible, assess whether the outline(s) conform(s) with the qualitative and quantitative criteria specified on Form ES-301-4 and described in Appendix D.		P	16
3. W A L K T	a.	 Verify that the 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. 	4	9	Ja -
H R O U G	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 		P	Jan Jan
н	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.	Z	P	NAN
4.	a.	Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	6	q	h
G E	b.	Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.		Q	M
N E	c.	Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	E	q	Wh
R	d.	Check for duplication and overlap among exam sections.	6	P	UND'
ÎÎ	e.	Check the entire exam for balance of coverage.		Ø	Wh
	f.	Assess whether the exam fits the appropriate the level (RO or SRO).		P	m
a. Autho b. Facili c. NRC d. NRC	or ty R Chie Sup	Printer, Name/Signature// Lou Sosler eviewer (*) Jerry Pierce of Examiner (#) Richard Status ervisor Evigent F Sonther Status S	J1/3 11	8-2: 8-2: 10/231 30]	15-15 2-15 5-15
Note:		# Independent NRC reviewer initial items in Column "c"; chief examiner concurrence requ * Not applicable for NRC-prepared examination outlines.	lired.		

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Form ES-201-3

Pre-Examination

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ES-201

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 have been compromised. facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may 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 (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 NRC 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 acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of $\frac{11}{2}$ S12 51 as of the

Ņ Post-Examination

ES-201, Page 27 of 28

below and authorized by the NRC. instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted



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Form ES-201-3

1. <u>Pre-Examinatior</u>

ES-201

have been compromised. facility licensee. 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 (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 NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered 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 these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may as of the

2. Post-Examination

below and authorized by the NRC. instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted the week(s) of 1 To the best of my knowledge i did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during 130 -1 From the date that I entered into this security agreement until the completion of examination administration, I did not



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ES-201, Page 27 of 28



NOTES: 12 1 below and authorized by the NRC. during the week(s) of To the best of my knowledge, Ņ facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may 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 these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered 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 I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 13 10 instruct, evaluate, or provide/performance feedback to those applicants who were administered these licensing examinations, except as specifically noted have been compromised. feedback). Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and (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 . 5 4 Q ∞ S LOULUS HAKENEWERTH Bile Stetsen JASON MECTALIS MICHAEL D. 619502 licuma orthe Direkan Lakelow MAN PRINTED NAME Post-Examination Pre-Examination Ø D. 61950 Ste Written Exam only. Operatuly Exam culy. tsun lydid not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered 5 Ì JOB TITLE / RESPONSIBILITY エー エー From the date that I entered into this security agreement until the completion of examination administration, I did not F 5 LT INSTRUCTOR 125720 0700 Instructor エッナールキノ INSTRUCTOR Insrevetor IN STRUCTOR SIGNATURE (1) fter DATE 5-12/2 271: SIGNATURE (2) DATE 12 10 2.015 12/101 as of the date 12/11 NOTE

ES-201

Form ES-201-3

Examination Security Agreement

Facility: Brunswick Date of Examination: 11/30/2015 Operating Test	Number		
1. General Criteria	-	Initia	ls
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)	a	<u>в</u> . Д	C#
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	8	a	IND.
c. The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a	.) 8	9	MAD
d. Overlap with the written examination and between different parts of the operating test is within acceptable limits.	ß	q	WA
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	В	A	140
2. Walk-Through 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 	5	P	Nap
b. Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.	S	ď	Nat
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.	B	9	Mb
a. Author Lou Sosler Hind Signature U- b. Facility Reviewer(*) Jerry Pierce Comp Pierce II/2 c. NRC Chief Examiner (#) RICHAN Stream, Affecting Company II/2 d. NRC Supervisor EUGENEE GOTMON II.	24-2 5/15 0/20. 30 (15	ate DOIS	
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.	<u>.</u>		

Simulator Scenario Quality Checklist

Form ES-301-4

Faci	lity: Brunswick Date of Exam 11/30/2015 Scenario Numbers. 1/2/3/4 O	perating Test	No.:	
	QUALITATIVE ATTRIBUTES		Initials	
1.	The initial conditions are realistic, in that some equipment and/or instrumentation may be out of set	a dian	b ,	C#
	but it does not cue the operators into expected events.	VICE,	9	h
2.	The scenarios consist mostly of related events.	4	2	10th
3.	Each event description consists of			
	 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) 	8	P	1st
4.	The events are valid with regard to physics and thermodynamics.	3	Q	Mb
5.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complet evaluation results commensurate with the scenario objectives.	te	9	(DA)
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.	В	'P	44
7.	The simulator modeling is not altered.	6	g.	MD
8.	e g	P	W	
9.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.5 of ES-301.	6	P	Wh
10.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	•	P	(al)
11.	The scenario set provides the opportunity for each applicant to be evaluated in each of the applicabl rating factors. (Competency Rating factors as described on forms ES-303-1 and ES-303-3.)	le 5	P	[AA
12.	Each applicant will be significantly involved in the minimum number of transients and events specifion Form ES-301-5 (submit the form with the simulator scenarios).	ied	9	(A)
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			
	Target Quantitative Attributes (Per Scenario; See Section D.5.d) Actual Attributes	les -		
1.	Malfunctions after EOP entry (1-2) 2/3/2/2	k	P	M
2.	Abnormal events (2-4) 2/4/4/2		9	I'M
3.	Major transients (1-2) 1/2/2/2		2 P	1m
4.	EOPs entered/requiring substantive actions (1-2) 2/2/2/2	X	9	M
5.	EOP contingencies requiring substantive actions (0-2) 1/2/2/2	k	P	1 km
6.	EOP based Critical tasks (2-3) 3/2/2/2		D	M
NOT	 The facility signature is not applicable for NRC-developed tests. Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. 			
And in case of the local division of the loc				

Transient and Event Checklist

Form ES-301-5

Facility: Bi	Date of Exam: Nov/Dec 2015						Operating Test No.: Final										
A	E					Scenar	ios										
P	Ē		1			2			3			4		Т		M	
	N T	CRE	N POSI	TION	CREW POSITION			CREW POSITION			CRE	0		I N			
C A N T	T Y P E	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	I A L	I I R	і М Ј М(*)	U
	RX					Constant of the		3		1	3			2	1	1	0
SRO-I1	NOR			1				1			2			3	1	1	1
	I/C			2,4,5,6, 9				2,4,5,6, 9			1,4,5,6, 7,9,10			17	4	4	2
Brusselmans	MAJ			6,7				7,8,10, 11			8,11,13			9	2	2	1
	TS							2,5			4,6			4	0	2	2
	RX	5							3			3		3	1	1	0
SRO-I2	NOR	1							1					2	1	1	1
Patrick	I/C	2,3,4,5, 6,8,9							4,6,9			1,4		12	4	4	2
Sena	MAJ	6,7							7,8			8,11,13		7	2	2	1
	TS	3,4									17062			2	0	2	2
	RX							3						1	1	1	0
SRO-U2	NOR						Figure	1						1	1	1	1
Heather	I/C							2,4,5,6, 9						5	4	4	2
Edwards	MAJ							7,8,10, 11						4	2	2	1
	TS							2,5						2	0	2	2
	RX		5											1	1	1	0
RO-4	NOR									1				1	1	1	1
Kimberly	I/C		3,5,8							4,6,9				6	4	4	2
Embrey	MAJ		6,7						122.91	7,8				4	2	2	1
	TS													0	0	2	2
	RX		5											1	1	1	0
RO-5	NOR									1			2	1	1	1	1
Justin	I/C		3,5,8				1999			4,6,9			5,7	8	4	4	2
Sibson	MAJ		6,7							7,8			8,11,13	7	2	2	1
	<u> </u>				101.1				1	1				U	U	4	4

Form ES-301-5

Facility: Brunswick Nuclear Plant Date of Exam: Nov/Dec 2015 Operating Test N											est No	.: Fi	nal				
A	E						Scei	narios									
P	Ē		1			2			3			4		Т		M	
	T	CRE	W POS	SITION	CRE	W POSIT	ION	CRE	W POS	ITION	CRE	N POSI	TION	0	,		ĺ
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T	P E				0	U		0			0	С	P	Ļ		J M(*)	
	RX	-					10030	3						1	R 1	1	
	NOR		E.S.ser					1						1	1	1	1
SRO-U1	I/C							2,4,5,6, 9		•				5	4	4	2
Beachum	MAJ							7,8,10, 11						4	2	2	1
	TS							2,5						2	0	2	2
	RX		5					and a				2200		1	1	1	0
RO-1	NOR							-		1	East it			1	1	1	1
Charles	I/C		3,5,8							4,6,9				6	4	4	2
Brookshire	MAJ		6,7							7,8				4	2	2	1
	TS													0	0	2	2
	RX							1.4.10	3			1		1	1	1	0
PO 2	NOR			1										1	1	1	1
Freddie	I/C			2,4,5,6, 9					2,5,6, 11					9	4	4	2
Bunnell	MAJ			6,7	and the state	and a state			7,8,10		0	1		5	2	2	1
	TS													0	0	2	2
	RX	5			-			E ANS						1	1	1	0
	NOR	1					TO AN				Res 1			1	1	1	1
SRO U3	I/C	2,3,4,5												7	4	4	2
nony west	MAJ	6,7												2	2	2	1
	TS	3,4												2	0	2	2
	RX	5							The state	1	Distant.			1	1	1	0
SRO-U4	NOR	1												1	1	1	1
Dwayne	I/C	2,3,4,5												7	4	4	2
Wolf	MAJ	6,7												2	2	2	1
	TS	3,4												2	0	2	2
	RX								3					1	1	1	0
RO-3	NOR			1										1	1	1	1
Jacob	I/C			2,4,5,6, 9					2,5,6, 11					9	4	4	2
Bush	MAJ			6,7					7,8,10					5	2	2	1
	TS													0	0	2	2

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l	Instructio	ns:
	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 <i>controlled</i> 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.
	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 licensees that use the ATC operator primarily for monitoring plant parameters, the chief examiner may place SRO-I applicants in either the ATC or BOP position to best evaluate the SRO-I in manipulating plant controls.

Facility: Brunswick Date of Examination: Nov/Dec 2015 Operating Test No.:Final														
7					APF		ſS							
	Roe	SR(Bru:	D-I1 sselm	nans		P	SR(atricl	D-I2 (Sen	a	SRO-U2 Heather Edward				
Competencies	es SCENAF					9	SCEN	IARIO	2	SCENARIO				
•	1	2	3	4		1	2	3	4	1	2	3	4	
Interpret/Diagnose Events and Conditions	2,5, 6,7		2,5, 11	1,4, 5,6, 7,8, 9,10 ,11, 12		2,4, 5,6		2,5, 11	1,4, 5,6, 7,8, 9,10 ,11, 12			2,5, 11		
Comply With and Use Procedures (1)	2,5, 7		2,5, 7,10	1,2, 3,5, 8		1,2, 4,5, 6		2,5, 7,10	1,2, 3,5, 8			2,5, 7,10		
Operate Control Boards (2)	1,2, 4,5, 6		NA	2,5, 7,9, 10		NA		2,5, 7,8, 10	NA			2,5, 7,8, 10		
Communicate and Interact	ALL		ALL	ALL		ALL		ALL	ALL			ALL		
Demonstrate Supervisory Ability (3)	NA		1,3, 5,7, 8,9, 10,1 1,12	NA		2,3, 4,5, 6,7, 8,9		NA	1,3, 5,7, 8,9, 10,1 1,12			1,3, 5,7, 8,9, 10,1 1,12		
Comply With and Use Tech. Specs. (3)	NA		2,5	NA		3,4		NA	4,6			2,5		

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.

Facility: Brunswick	Date of Examination: October 2014 Operating Test No.:Fin												Final			
		APPLICANTS														
	Kim	RC)-4 [,] Emb	orey	Jı	RO-5 Justin Sibson				SR0 ric Be	D-U1 eachu	m		÷		
Competencies	5	SCEN)	5	SCEN)	5	SCEN	IARIC)		SCEN	IARIC)
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	3,5, 7,8, 9		4,6, 9		3,5, 7,8, 9		4,6, 9	1,4, 5,7, 8,9, 10,1 1,12			2,5, 11		3,5, 7,8, 9		4,6, 9	
Comply With and Use Procedures (1)	2,5		1,3, 4,6, 9		2,5		1,3, 4,6, 9	1,2, 3,5, 8			2,5, 7,10		2,5		1,3, 4,6, 9	
Operate Control Boards (2)	3,5, 7,8, 9		1,3, 4,6, 9		3,5, 7,8, 9		1,3, 4,6, 9	NA			2,5, 7,8, 10		3,5, 7,8, 9		1,3, 4,6, 9	
Communicate and Interact	ALL		ALL		ALL		ALL	ALL			ALL		ALL		ALL	
Demonstrate Supervisory Ability (3)	NA		NA		NA		NA	NA			1,3, 5,7, 8,9, 10,1 1,12		NA		NA	
Comply With and Use Tech. Specs. (3)	NA		NA		NA		NA	NA			2,5		NA		NA	
Notes: (1) Includes Technic (2) Optional for an S	Notes: (1) Includes Technical Specification compliance for an RO. (2) Optional for an SRO-U.															

(3) Only applicable to SROs.

Instructions:

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Facility: Brunswick			Date o	of Exa	amina	ition:	Octob	er 20)14		Oper	ating	Test	No.:	Final	
							AF	PLIC		S					_	
	Fre	R eddie	O-2 9 Bunr	nell		SR(Holly	D-U3 West		D	SRO	0-U4 le Wo	olf		R0 lacob)-3 Busl	h
Competencies		SCE!)	;	SCEN	ARIC)	5	SCEN	IARIO)	5	SCEN	IARIC)
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	3,5, 7,8, 9		2,5,1 1		2,4, 5,6				2,4, 5,6				2,4, 5,6		2,5, 11	
Comply With and Use Procedures (1)	2,5		2,5,7, 10		1,2, 4,5, 6				1,2, 4,5, 6				1,2, 4,5, 6		2,5, 7,10	
Operate Control Boards (2)	3,5, 7,8, 9		2,5,7, 8,10		NA				NA				NA		2,5, 7,8, 10	
Communicate and Interact	ALL		ALL		ALL				ALL				ALL		ALL	
Demonstrate Supervisory Ability (3)	NA		NA		2,3, 4,5, 6,7, 8,9				2,3, 4,5, 6,7, 8,9				NA		NA	
Comply With and Use Tech. Specs. (3)	NA		NA		3,4				3,4				3,4		2,5	
Notes:																

Includes Technical Specification compliance for an RO.

(1) (2) (3) Optional for an SRO-U. 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.

Competencies Checklist

Form ES-301-6

Facility: Brunswick		D	ate o	f Exa	imina	tion:	Nov/I	Dec 2	2015		Ope	rating	g Tes	t No.:	Final	
							Α	PPLI	CAN	rs	,					
	Roe	SR(I Bru	O-I1 sseln	nans		SR(Doug	O-I2 Just	t	F	SR atric	O-I3 k Sen	a	Неа	SRC)-U2 Edwa	ards
Competencies	5	SCEN		2		SCEN	ARIC	2		SCEN	ARIC	2	5	SCEN	ARIC)
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	2,5, 6,7		2,5, 11		3,5, 7,8, 9	3,4, 5,6, 7,8, 9	4,6, 9		2,4, 5,6	4,6, 8,9	2,4, 5,6, 7,11		2,5, 6,7	3,4, 5,6, 7,8, 10		
Comply With and Use Procedures (1)	2,5, 7		2,5, 7,10		2,5	5,6, 7	1,3, 4,6, 9		1,2, 4,5, 6	1,4, 6,7	2,4, 5,7, 10		2,5, 7	5,6, 7		
Operate Control Boards (2)	NA		2,5, 7,8, 10		3,5, 7,8, 9	NA	1,3, 4,6, 9		1,2, 4,5, 6	1,2, 4,6, 7,9	NA		NA	NA		
Communicate and Interact	ALL	_	ALL		ALL	ALL	ALL		ALL	ALL	ALL		ALL	ALL		
Demonstrate Supervisory Ability (3)	2,3, 4,5, 6,7, 8,9		NA		NA	2,3, 4,5, 6,7, 8,10	NA		NA	NA	2,3, 4,5, 6,7, 8,10		2,3, 4,5, 6,7, 8,9	2,3, 4,5, 6,7, 8,10		
Comply With and Use Tech. Specs. (3)	3,4		NA		NA	4,5	NA		NA	NA	2,5		3,4	4,5		
Notes: (1) Includes Technica (2) Optional for an SI	al Spe RO-U.	cifica	tion c	omplia	ance	for an	RO.									

(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.

Competencies Checklist

Form ES-301-6

Facility: Brunswick	1	[Date	of Exa	amina	ation:	Octo	ber 2	2014		Оре	rating	g Tes	t No.:	Final	
					n		A	PPLI	CANT	rs						
	Kim	RC	D-4 / Emt	orey	J	RC ustin	D-5 Sibso	on	E	SRC ric Be	D-U1 eachu	m		RC Cha Brool	D-1 Irles Ishire	
Competencies		SCEN	ARIC	2	_ :	SCEN	IARIC	2	5	SCEN	IARIC)	5	SCEN	ARIC)
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	3,5, 7,8, 9	3,5, 6,7	4,6, 9		2,4, 5,6	4,6, 8,9		÷	2,5, 6,7				3,5, 7,8, 9	3,5, 6,7		
Comply With and Use Procedures (1)	2,5	1,3, 5,6, 7	1,3, 4,6, 9		1,2, 4,5, 6	1,4, 6,7	- inite		2,5, 7				2,5	1,3, 5,6, 7		
Operate Control Boards (2)	3,5, 7,8, 9	1,3, 5,6, 7	1,3, 4,6, 9		1,2, 4,5, 6	1,2, 4,6, 7,9			NA				3,5, 7,8, 9	1,3, 5,6, 7		
Communicate and Interact	ALL	ALL	ALL		ALL	ALL			ALL				ALL	ALL		
Demonstrate Supervisory Ability (3)	NA	NA	NA		NA	NA			2,3, 4,5, 6,7, 8,9				NA	NA		
Comply With and Use Tech. Specs. (3)	NA	NA	NA		NA	NA			3,4				NA	NA		
Notes: (1) Includes Technic (2) Optional for an S (3) Only applicable t	al Sp RO-U o SR(ecifica I. Ds.	ation c	ompli	ance	for an	RO.								<u> </u>	

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.

Competencies Checklist

Form ES-301-6

Facility: Brunswick		[Date o	of Exa	amina	ation:	Octob	er 20)14		Oper	ating	Test	No.:	Final	
				-	11		AP	PLIC	ANT	s						
	Fr	R(eddie	D-2 Bunr	neli		SR(Holly	D-U3 West	2475 A	D	SR(wayr	D-U4 ne Wo	olf		R(lacob	D-3 9 Busl	h
Competencies		SCEN	ARIC	2		SCEN)		SCEN	ARIC	2		SCEN	IARIC	>
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret/Diagnose Events and Conditions	2,4, 5,6	4,6, 8,9				3,4, 5,6, 7,8, 10					2,4, 5,6, 7,11			3,5, 6,7	2,5, 11	
Comply With and Use Procedures (1)	1,2, 4,5, 6	1,4, 6,7				5,6, 7					2,4, 5,7, 10			1,3, 5,6, 7	2,5, 7,10	
Operate Control Boards (2)	1,2, 4,5, 6	1,2, 4,6, 7,9				NA					NA			1,3, 5,6, 7	2,5, 7,8, 10	
Communicate and Interact	ALL	ALL				ALL					ALL			ALL	ALL	
Demonstrate Supervisory Ability (3)	NA	NA				2,3, 4,5, 6,7, 8,10					2,3, 4,5, 6,7, 8,10			NA	NA	
Comply With and Use Tech. Specs. (3)	NA	NA				4,5					2,5			NA	NA	
Notes: (1) Includes Technic (2) Optional for an S (3) Only applicable t	al Sp RO-L o SR(ecifica J. Os.	ation c	ompli	ance	for an	RO.									

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.



ES-401, Rev.	9		_		BW	RE	xan	nina	atio	n Oı	ıtlir	Ie R	lev.1 (Sh	own ii	n red)	Fo	rm E	<u>S-40</u> 1-1
Facility B	runswick				Da	ate c	ofEx	am:	D	ecei	nbe	r 201	15					
Tier	Group				R	OK	A C	ateg	ory	Poin	ts				SR	0-Onl	y Poin	ts
	·	к 1	к 2	К 3	к 4	К 5	к 6	A 1	A 2	A 3	A 4	G *	Total	-	A2		G*	Total
1.	1	4	3	4				3	3			3	20	-	4		3	7
Emergency & Abnormal Plant	2	2	1	1		N/A		1	1	і _м	/Δ	1	7		2		1	3
Evolutions	Tier Totals	6	4	5			•	4	4			4	27		6	-	4	10
	1	2	3	3	2	3	1	2	3	3	2	2	26		3	:	2	5
2. Plant	2	1	2	1	1	1	1	1	1	1	1	1	12	0	2		1	3
Systems	Tier Totals	3	5	4	3	4	2	3	4	4	3	3	38		5		3	8
3. Generic K	nowledge and	l Ab	ilitie	s		1	:	2	;	3	4	1	10	1	2	3	4	7
(Jategories					2	:	3		3	2	2		2	2	1	2	
2. 3. 4. 5. 6. 7. 8.	The final point total The final point based on NRC Systems/evolu not apply at th not included o the elimination Select topics f in the group be Absent a plant selected. Use Select SRO top *The generic (must be releva On the followin	tota revia tions e fac n the for efore -spe the the for e G) K ant to	i for e sions s with sillity : outl napp as m sele cific RO a for Ti /As ir o the ages,	each each s. Th ine s shoul ine s ropri any s ecting prior nd SI iers 1 n Tier appli ente	grou grou ach g ld be hould ate F syste g a se tity, c RO ra I and rs 1 a icabl	ip an al RC group d be (/A s ms a econ only t ating 1 2 fro and 2 e evo	d tie) exa b are eted a adde taten ind e d top hose s for com th c shall	r may m mu iden and ju ad. R nents volut ic fo k //A: the I he sh l be s on or bers	y dev y dev ust to tifiec ustifi efer s. ions r any s hav RO a aded selec syste	iad of viate tal 7 l on t ed; o to ES as port y syst ving a nd Sf l syst ted f em. rief d	by \forall' 5 poi he as pera 3-401 ossib em o ni im RO-ol ems rom	I from nts a ssoci tiona , Att le; sa r evo porta nly p and Sect	m that spe and the SF ated outli ally impor- achment : ample eve olution. ance ratin ortions, ro K/A categ ion 2 of th	confiect RO-online; system, stant, s tant, s ery system, s g (IR) espectories topic, topic,	d in the ly exam ystems site-spe guidan stem or of 2.5 (tively. Catalo	table must or evo cific s ce reg evolu or high g, but	total 2 Jutions ystems arding ition her sha the top	5 points. that do s that are II be pics
9.	ratings (IRs) for the group and than Category # 1 does not ap For Tier 3, sele and point total	or the tier (A2 c oply) ect to s (#)	e app totals or G* . Us opics on F	olication on the dup from orm	ole lic each ne SF plica n Sec ES-4	censo cate (O-or te pa ction 01-3	e leve egory nly ex ages 2 of f . Lim	el, an in th kam, for R the K hit SR	id the ne tal ente O an (/A ca (O se	e poir ble al r it o d SR atalo lecti	nt tot bove n the O-on g, an ons t	als (i ; if fu left : ly ex d enf o K/A	#) for eac let handlir side of Co ams. ter the K// As that are	h syst ng equ olumn A num e linke	em and lipment A2 for bers, d ed to 10	l categ t is sar Tier 2, lescrip CFR (jory. E mpled i Group otions, 55.43.	nter n other 2 (Note IRs,

ES-401, RI	EV 9	T1	G1 BWR E)	XAMINATION O	UTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:	IR RO SR	K1 K2 K3 0	3 K4 K5 K6 A1 /	12 A3 A4 G	TOPIC:
295001AK1.04	Partial or Complete Loss of Forced Core Flow Circulation / 1 & 4	2.5 3.3				Limiting cycle oscillation: Plant-Specific
295003G2.4.50	Partial or Complete Loss of AC / 6	4.2 4.0				Ability to verify system alarm setpoints and operate controls identified in the alarm response manual.
295004AK3.02	Partial or Total Loss of DC Pwr / 6	2.9 3.3				Ground isolation/fault determination
295005AA1.07	Main Turbine Generator Trip / 3	3.3 3.3				A.C. electrical distribution
295006AA2.02	SCRAM / 1	4.3 4.4				Control rod position
295016AK2.01	Control Room Abandonment / 7	4.4 4.5				Remote shutdown panel: Plant-Specific
295018AK3.02	Partial or Total Loss of CCW / 8	3.3 3.4				Reactor power reduction
295019AA1.04	Partial or Total Loss of Inst. Air / 8	3.3 3.2				Service air isolations valves: Plant-Specific
295021AK3.02	Loss of Shutdown Cooling / 4	3.3 3.4				Feeding and bleeding reactor vessel
295023AA2.01	Refueling Acc Cooling Mode / 8	3.6 4.0				Area radiation levels
295024G2.4.50	High Drywell Pressure / 5	4.2 4.0				Ability to verify system alarm setpoints and operate controls identified in the alarm response manual.

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ES-401, RE	EV 9		T1G	1G1 BWR EXAMINATION OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:	- OS	R SRO	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G TOPIC: 30	
295025EK2.05	High Reactor Pressure / 3	4.1	4.2	2 🛛 🗸 🔲 🔄 🔄 🔄 🔄 🔄 🔄 Safety/relief valves: Plant-Sp	scific
295026EK1.02	Suppression Pool High Water Temp. / 5	3.5	3. 8.	8 V Steam condensation	
295028EK1.01	High Drywell Temperature / 5	3.5	3.7	7 🗸 🗆 🔲 🔤 🔤 🔤 🔤 Reactor water level measurer	nent
295030EK1.02	Low Suppression Pool Wtr Lvl / 5	3.5	3. 8.	8 🖉 🕒 Pump NPSH.	
295031G2.2.37	Reactor Low Water Level / 2	3.6	4.6	6 Ability to determine operability related equipment	/ and/or availability of safety
295037EK3.07	SCRAM Condition Present and Power Above APRM Downscale or Unknown /1	4.2	4.3	3 Secific methods of Specific methods of Speci	control rod insertion: Plant-
295038EA2.02	High Off-site Release Rate / 9	2.5	3.3	3 Total number of curies release	
6000004K2.01	Plant Fire On Site / 8	2.6	2.7	7	σ
70000AA1.02	Generator Voltage and Electric Grid Distrurbancecs	3. 8	3.7	7	

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Page 2 of 2

ES-401, RE	5V 9		T1G	2 BWR EXA	MINATION OUTLINE		FORM ES-401-
KA	NAME / SAFETY FUNCTION:	- OR	R SRO	K1 K2 K3 K [,]	4 K5 K6 A1 A2 A3 A4	9	TOPIC:
295007G2.4.11	High Reactor Pressure / 3	4.0	4.2			2	Knowledge of abnormal condition procedures.
295008AK1.02	High Reactor Water Level / 2	2.8	2.8				Component erosion/damage
295010AK2.02	High Drywell Pressure / 5	3.3	3.5				Drywell/suppression chamber differential pressure: Mark I&II
295014AA2.04	Inadvertent Reactivity Addition / 1	4.1	4.4				Violation of fuel thermal limits
295017AK1.03	High Off-site Release Rate / 9	2.7	3.4				Meteorological effects on off-site release
295020AK3.02	Inadvertent Cont. Isolation / 5 & 7	3.3	3.5				Drywell/containment pressure response
50000EA1.02	High CTMT Hydrogen Conc. / 5	3.3	3.2				Primary containment oxygen instrumentation

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Page 1 of 1

ES-401, RI	EV 9	Τ2	2G1 B	WR EXAMINATION	OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:	IR RO SF	K1 R0	K2 K3 K4 K5 K6 A1	A2 A3 A4 G	TOPIC:
203000A4.06	RHR/LPCI: Injection Mode	3.9 3.9	6			System reset following automatic initiation: Plant-Specific
205000K3.02	Shutdown Cooling	3.2 3.3	С С			Reactor water level: Plant-Specific
205000K5.03	Shutdown Cooling	2.8 3.1				Heat removal mechanisms
206000G2.2.36	HPCI	3.1 4.2	2			Ability to analyze the effect of maintenance activities, such as degraded power sources, on the status of limiting conditions of operations
209001A3.03	LPCS	3.5 3.5	2			System pressure
211000G2.4.9	SLC	3.8 4.2				Knowledge of low power / shutdown implications in accident (e.g. LOCA or loss of RHR) mitigation strategies.
212000K1.03	RPS	3.4 3.6	S w			Recirculation system
215003K2.01	IRM	2.5 2.7				IRM channels/detectors
215004K5.01	Source Range Monitor	2.6 2.6	9			Detector operation
215005K1.10	APRM / LPRM	3.3 3.3	5			Reactor manual control system: Plant-Specific
217000K6.01	RCIC	3.4 3.5				Electrical power

Page 1 of 3

ES-401, RE	EV 9	Ĥ	2G1	BWR EXAMINATION OUTLINE		FORM ES-401-
KA	NAME / SAFETY FUNCTION:	Ro R	В В	<pre><1 K2 K3 K4 K5 K6 A1 A2 A3 A4</pre>	ю	TOPIC:
218000A3.03	ADS	3.7 3	<u>ω</u>			ADS valve acoustical monitor noise: Plant-Specific
218000K2.01	ADS	3.1 3	e,			ADS logic
223002A2.09	PCIS/Nuclear Steam Supply Shutoff	3.6	<u> </u>			System initiation
223002A4.05	PCIS/Nuclear Steam Supply Shutoff	2.5 2	80.			SPDS/ERIS/CRIDS/GDS: Plant-Specific
239002K4.04	SRVs	3.4	9.			Ensures even distribution of heat load to suppression pool, and adequate steam condensing
259002A2.06	Reactor Water Level Control		4			Loss of controller signal output
261000K3.04	SGTS	3.1 3.	5			High pressure coolant injection system: Plant- Specific
262001A1.05	AC Electrical Distribution	3.2 3	52			Breaker lineups
262002A2.01	UPS (AC/DC)	2.6 2.	8			Under voltage
262002A3.01	UPS (AC/DC)	2.8	<u> </u>			Transfer from preferred to alternate source
26300A1.01	DC Electrical Distribution	2.5 2.				Battery charging/discharging rate

Page 2 of 3

ES-401, RI	EV 9	T2(G1 BW	R EXAMINATION OUTLINE		FORM ES-401-
KA	NAME / SAFETY FUNCTION:	IR RO SR	K1 K 20	2 K3 K4 K5 K6 A1 A2 A3 A4	G	TOPIC:
264000K3,03	EDGs	4.1 4.2				Major loads powered from electrical buses fed by the emergency generator(s)
264000K5.05	EDGs	3.4 3.4				Paralleling A.C. power sources
30000K2.01	Instrument Air	2.8 2.8				Instrument air compressor
400000K4.01	Component Cooling Water	3.4 2.0 0.0				Automatic start of standby pump

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ES-401, RE	EV 9	T2G2 BWR F	EXAMINATION OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:	IR K1 K2 F R0 SR0	K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
201001K4.03	CRD Hydraulic	2.7 2.7]		Control rod drive mechanism cooling water flow
201002A1.04	RMCS	3.6 3.5		Overall reactor power
201003A2.01	Control Rod and Drive Mechanism	3.4 3.6		Stuck rod
204000A4.01	RWCU	3.1 3.0		System pumps
215002K2.03	RBM	2.8 2.9		APRM channels: BWR-3,4,5
219000G2.2.37	RHR/LPCI: Torus/Pool Cooling Mode	3.6 4.6		Ability to determine operability and/or availability of safety related equipment
233000K2.02	Fuel Pool Cooling/Cleanup	2.8 2.9		RHR pumps
241000K6.10	Reactor/Turbine Pressure Regulator	3.6 3.7		Bypass valves
256000A3.07	Reactor Condensate	2.9 2.9		Feedwater heater level
271000K1.03	Offgas	2.7 3.0		Elevated release point
290002K5.05	Reactor Vessel Internals	3.1 3.3		Brittle fracture

12/18/2014 11:50 AM

Page 1 of 2

KA	NAME / SAFETY FUNCTION:			
		Щ	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	I UPIC.
		RO SRO		
290003K3.02	Control Room HVAC	3.3 3.6		Computer/instrumentation: Plant-Specific

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Page 2 of 2

ES-401, R	EV 9	Ţ	3 BWR EXAMINATION OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:	R	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO SR(
G2.1.30	Conduct of operations	4.4 4.0		Ability to locate and operate components, including local controls.
G2.1.42	Conduct of operations	2.5 3.4		Knowledge of new and spent fuel movement procedures
G2.2.25	Equipment Control	3.2 4.2		Knowledge of the bases in Technical Specifications for limiting conditions for operations and safety limits.
G2.2.40	Equipment Control	3.4 4.7		Ability to apply technical specifications for a system.
G2.2.43	Equipment Control	3.0 3.3		Knowledge of the process used to track inoperable alarms
G2.3.11	Radiation Control	3.8 4.3		Ability to control radiation releases.
G2.3.15	Radiation Control	2.9 3.1		Knowledge of radiation monitoring systems
G2.3.7	Radiation Control	3.5 3.6		Ability to comply with radiation work permit requirements during normal or abnormal conditions
G2.4.17	Emergency Procedures/Plans	3.9 4.3		Knowledge of EOP terms and definitions.
G2.4.42	Emergency Procedures/Plans	2.6 3.8		Knowledge of emergency response facilities.

Page 1 of 1

ES-401, RE	6 A:	SI	30 T	1G1 BWR EXAMINATION OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:		2	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		2	SRC		
295003AA2.04	Partial or Complete Loss of AC / 6	3.5	3.7		System lineups
295016G2.1.7	Control Room Abandonment / 7	4.4	4.7		Ability to evaluate plant performance and make operational judgments based on operating characteristics, reactor behavior and instrument interpretation.
295018G2.1.23	Partial or Total Loss of CCW / 8	4.3	4.4		Ability to perform specific system and integrated plant procedures during all modes of plant operation.
295021AA2.06	Loss of Shutdown Cooling / 4	3.2	3.3		Reactor pressure
295023G2.4.11	Refueling Acc Cooling Mode / 8	4.0	4.2		Knowledge of abnormal condition procedures.
295025EA2.05	High Reactor Pressure / 3	3.4	3.6		Decay heat generation
295037EA2.07	SCRAM Condition Present and Power Above APRM Downscale or Unknown / 1	4.0	2.7		Containment conditions/isolations

Page 1 of 1

ES-401, RE	<u>EV 9</u>	SRO	T1G2 BWR EXAMINATION OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:	≌	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO SF	Q	
295015G2.4.5	Incomplete SCRAM / 1	3.7 4.5		Knowledge of the organization of the operating procedures network for normal, abnormal, and emergency evolutions.
295022AA2.01	Loss of CRD Pumps / 1	3.5 3.6		Accumulator pressure
295034EA2.02	Secondary Containment Ventilation High Radiation / 9	3.7 4.2		Cause of high radiation levels

ES-401, RE	EV 9	S	RO T	2G1 BWR EXAMINATION OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:		L L L	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G TOPIC:	
		RO	SRO		
203000G2.4.6	RHR/LPCI: Injection Mode	3.8	4.5		of EOP mitigation strategies.
209001A2.07	LPCS	2.6	2.8		n cooling
212000A2.06	RPS	4.1	4.2	High reactor	power
217000G2.4.47	RCIC	4.2	4.2	Ability to diag and timely r	gnose and recognize trends in an accurate nanner utilizing the appropriate control room aterial.
261000A2.05	SGTS	3.0	3.1	Fan trips	

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Page 1 of 1

ES-401, RE	6 A:	SRO 1	2G2 BWR EXAMINATION OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:	R	K1 K2 K3 K4 K5 K6 A1 A2 A3 A4 G	TOPIC:
		RO SRC		
219000G2.1.25	RHR/LPCI: Torus/Pool Cooling Mode	3.9 4.2		Ability to interpret reference materials such as graphs, monographs and tables which contain performance data.
256000A2.07	Reactor Condensate	2.9 2.9		High hotwell level
290002A2.04	Reactor Vessel Internals	3.7 4.1		Excessive heatup/cooldown rate

12/18/2014 11:51 AM

Page 1 of 1

ES-401, R	EV 9		SRO	T3 B	WR EXAMINA	TION OUTLINE	FORM ES-401-1
KA	NAME / SAFETY FUNCTION:		R	ž	K2 K3 K4 K5 K	6 A1 A2 A3 A4 G	TOPIC:
		RO	SRC				
G2.1.26	Conduct of operations	3.4	3.6				Knowledge of industrial safety procedures (such as rotating equipment, electrical, high temperature, high pressure, caustic, chlorine, oxygen and hydrogen).
G2.1.38	Conduct of operations	3.7	3.8				Knowledge of the stations requirements for verbal communication when implamenting procedures
G2.2.17	Equipment Control	2.6	3.8 .0				Knowledge of the process for managing maintenance activities during power operations.
G2.2.22	Equipment Control	4.0	4.7				Knowledge of limiting conditions for operations and safety limits.
G2.3.6	Radiation Control	2.0	3.8				Ability to aprove release permits
G2.4.13	Emergency Procedures/Plans	4.0	4.6				Knowledge of crew roles and responsibilities during EOP usage.
G2.4.46	Emergency Procedures/Plans	4.2	4.2				Ability to verify that the alarms are consistent with the plant conditions.

Page 1 of 1

Written Examination Grading Quality Checklist



Fac	cility: <i>BRUNSWICK</i> Date of Exam: /ɛ//s//s Exam Level:	ro 〉	< SRO	λ				
	Item Description		Initials					
		а	b	с				
1.	Clean answer sheets copied before grading	K	NĄ	12B				
2.	Answer key changes and question deletions justified and documented	æ		10B				
3.	Applicants' scores checked for addition errors							
	(reviewers spot check > 25% of examinations)	R/		pas				
4.	Grading for all borderline cases ($80 \pm 2\%$ overall and 70 or 80, as applicable, $\pm 4\%$ on the SRO-only) reviewed in detail	æ		pab				
5.	All other failing examinations checked to ensure that grades are justified	R/		pas				
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	æ	4	MB				
Printed Name/Signature Date								
a. Grader NEWTON LACY Next 1/7/2016								
b. Facility Reviewer(*)								
C.	NRC Chief Examiner (*) <u>RICHARD 5. BALDW.N/fledendeBilde</u>	- 1/	13/2015	the Frage				
d.	NRC Supervisor (*) EVGENCE F. GUTHUE Stand	1/2	0/2016	<u>0</u>				
(*)	The facility reviewer's signature is not applicable for examination two independent NRC reviews are required.	ns grade	d by the	NRC;				



UNITED STATES NUCLEAR REGULATORY COMMISSION REGION II 245 PEACHTREE CENTER AVENUE NE, SUITE 1200 ATLANTA, GEORGIA 30303-1257

November 30, 2015

Duke Energy Progress, Inc. ATTN: Mr. Jonathan L. Hicks Manager, Training Brunswick Steam Electric Plant P. O. Box 10429 Southport, NC 28461-0429

SUBJECT: BRUNSWICK NUCLEAR POWER PLANT - OPERATOR LICENSING OPERATING EXAMINATION APPROVAL 05000325/2015301 AND 05000324/2015301

Dear Mr. Hicks:

The purpose of this letter is to confirm the final arrangements for the upcoming operator licensing operating examination at the Brunswick Nuclear Power Plant.

The U.S. Nuclear Regulatory Commission (NRC) has completed its review of the operator license applications submitted in connection with this examination and separately provided a list of approved applicants to your office. The NRC staff will administer the operating tests to individuals, as applicable, the weeks of November 30, 2015, and December 7, 2015. Note that any examination waivers and application denials have been addressed in separate correspondence.

This examination has undergone extensive review by my staff and representatives responsible for operator training at your facility. Based on this review, I have concluded that the examination meets the guidelines of NUREG-1021 for content, operational, and discrimination validity. By administering this examination, you also agree that it meets NUREG-1021 guidelines, and is appropriate for measuring the qualifications of licensed operators at your facility. If you determine that this examination is not appropriate for licensing operators at your facility, do not administer the examination and contact me at (404) 997-4642.

Please contact the Chief Examiner, Mr. Richard S. Baldwin, at (404) 997-4642, if you have any questions or identify any errors or changes in license level (RO or SRO) or type of examination (operating examination) specified for each applicant on the list of approved applicants.

Sincerely, /RA/ Eugene F. Guthrie, Chief Operations Branch 2 Division of Reactor Safety

 Docket Nos.:
 50-325, 50-324

 License Nos.:
 DPR-71, DPR-62

November 30, 2015

Duke Energy Progress, Inc. ATTN: Mr. Jonathan L. Hicks Manager, Training Brunswick Steam Electric Plant P. O. Box 10429 Southport, NC 28461-0429

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Sincerely, /RA/ Eugene F. Guthrie, Chief Operations Branch 2 Division of Reactor Safety

Docket Nos.: 50-325, 50-324 License Nos.: DPR-71, DPR-62 X PUBLICLY AVAILABLE DON-PUBLICLY AVAILABLE SENSITIVE X NON-SENSITIVE

ADAMS: Yes ACCESSION NUMBER: ML15335A557

X SUNSI REVIEW COMPLETE

OFFICE	RII:DRS	RII:DRS	RII:DRS		
SIGNATURE	Jcb	Rsb	efg		
NAME	JVINCENT	RBALDWIN	EGUTHRIE		
DATE	11/ 24 /15	11/ 30 /15	11/30/15		
E-MAIL COPY?	YES NO	YES	YES NO		



Enclosure Contains Operator Examination Material Withhold in Accordance with 10 CFR 2.390

AUG 2 4 2015

Serial: BSEP 15-0070

U. S. Nuclear Regulatory Commission, Region II ATTN: Mr. Victor M. McCree, Regional Administrator 245 Peachtree Center Ave, NE, Suite 1200 Atlanta, GA 30303-1257

- Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2 Renewed Facility Operating License Nos. DPR-71 and DPR-62 Docket Nos. 50-325 and 50-324 Operating Test Outline for Licensed Operator Initial Examination 50-325/2015-301 and 50-324/2015-301
- Reference: Letter from Eugene F. Guthrie (NRC) to William R. Gideon (Duke Energy), "Brunswick Steam Electric Plant – Notification of Licensed Operator Initial Examination 05000325/2015301 and 05000324/2015301," dated May 15, 2015, ADAMS Accession Number ML15138A340

Dear Mr. McCree:

In accordance with the guidelines in Revision 10, of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Duke Energy Progress, Inc., is providing the examination outline supporting the operating test, which is scheduled to be administered during the weeks of November 30, 2015, and December 7, 2015.

In accordance with the schedule contained in the NRC's letter dated May 15, 2015, a copy of the outline for the operating test is being provided only to Mr. Richard S. Baldwin, the assigned NRC chief examiner. In accordance with 10 CFR 55.40(b)(3), Mr. Jerry Pierce, as the designated authorized representative of the Brunswick Steam Electric Plant, Units 1 and 2, has approved the outline for the examinations of the applicants.

In accordance with Revision 10, of NUREG-1021, Section ES-201, "Initial Operator Licensing Examination Process," please ensure that the outline for the operating test is withheld from public disclosure until after the examinations are complete.

This document contains no regulatory commitments.

U. S. Nuclear Regulatory Commission, Region II Page 2 of 3

Please refer any questions regarding this submittal to Mr. Bob Bolin, Senior Nuclear Operations Instructor, at (910) 457-3078, or Mr. Jerry Pierce, Assistant Operations Manager - Support, at (910) 454-7931.

Sincerely,

mutte 2P.

Annette H. Pope Director – Organizational Effectiveness Brunswick Steam Electric Plant

AHP/mkb

Enclosure: Outline for Operating Test (Enclosure only being sent to Chief Examiner)

U. S. Nuclear Regulatory Commission, Region II Page 3 of 3

cc (with enclosure):

U. S. Nuclear Regulatory Commission, Region II ATTN: Mr. Richard S. Baldwin, Chief Examiner 245 Peachtree Center Ave, NE, Suite 1200 Atlanta, GA 30303-1257

cc (without enclosure):

U. S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

U. S. Nuclear Regulatory Commission, Region II ATTN: Mr. Eugene F. Guthrie Chief, Operations Branch 2 245 Peachtree Center Ave, NE, Suite 1200 Atlanta, GA 30303-1257

U. S. Nuclear Regulatory Commission ATTN: Mr. Andrew Hon (Mail Stop OWFN 8G9A) 11555 Rockville Pike Rockville, MD 20852-2738

(Electronic Copy Only)

U. S. Nuclear Regulatory Commission ATTN: Ms. Michelle P. Catts, NRC Senior Resident Inspector 8470 River Road Southport, NC 28461-8869

Chair - North Carolina Utilities Commission P.O. Box 29510 Raleigh, NC 27626-0510



otter Enclosures Contain Personally Identifiable Information

William R. Gideon Vice President Brunswick Nuclear Plant P.O. Box 10429 Southport, NC 28461 o: 910.457.3698

OCT 2 9 2015

Serial: BSEP 15-0087

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

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

References:

- 1. Letter from Eugene F. Guthrie (NRC) to William R. Gideon (Duke Energy), "Brunswick Steam Electric Plant – Notification of Licensed Operator Initial Examination 05000325/2015301 and 05000324/2015301," dated May 15, 2015, ADAMS Accession Number ML15138A340
- 2. Letter from Annette H. Pope (Duke Energy) to Victor M. McCree (NRC), "Operating Test Outline for Licensed Operator Initial Examination 50-325/2015-301 and 50-324/2015-301," dated August 24, 2015
- 3. Letter from Annette H. Pope (Duke Energy) to NRC Region II, Regional Administrator, "Operating Test, Written Exam, and Reference Materials for Licensed Operator Initial Examination 50-325/2015-301 and 50-324/2015-301," dated September 29, 2015

Dear Regional Administrator:

In accordance with the schedule contained in the NRC's letter dated May 15, 2015 (i.e., Reference 1), Duke Energy Progress, Inc., is submitting preliminary reactor operator and senior reactor operator license applications and medical certifications for individuals participating in the operating test that is scheduled to be administered during the weeks of November 30, 2015, and December 7, 2015, and the written examination that is scheduled to be administered during the week of December 14, 2015, at the Brunswick Steam Electric Plant. Submittal of the preliminary reactor operator and senior reactor operator license applications and medical certifications is required at least 30 days before the first examination date.

Enclosure 1 provides a list of the applicants who are currently scheduled to participate in the license examination. Enclosure 2 provides preliminary, unsigned license applications for each applicant (i.e., NRC Form 398, "Personal Qualification Statement – Licensee"). Enclosure 3 provides signed medical certifications for each applicant (i.e., NRC Form 396, "Certification of Medical Examination by Facility Licensee"). Enclosure 4 provides the physician's letter for only a few specific individuals.

etter Enclosures Contain Percentily Identifiable Information Withhold in Accordance with 10 OED 0.200(a)(6) U.S. Nuclear Regulatory Commission, Region II Page 2 of 3

Duke Energy requests that the information in the enclosures be withheld from public disclosure, in accordance with 10 CFR 2.390(a)(6), since disclosure of this information would constitute a clearly unwarranted invasion of personal privacy.

This document contains no regulatory commitments.

Please refer any questions regarding this submittal to Mr. Lee Grzeck, Manager – Regulatory Affairs, at (910) 457-2487.

Sincerely,

Moser for

William R. Gideon

WRG/mkb

Enclosures:

- 1. List of Applicants Scheduled for License Examinations (Percently Identifieble Information Withhold in Accordance with 10-OED-0-200(a)(6))
- Preliminary NRC Form 398, "Personal Qualification Statement Licensee" (Personally Identifiable Information – Withhold in Accordance with 10.0FR-0.000(u)(S))
- NRC Form 396, "Certification of Medical Examination by Facility Licensee" (Personally Identifiable Information - Withhold in Accordance with 19-0FR-2:000(a)(5))
- 4. Physician's Letters (Personally Identifiable Information Withhold in Accordance with to SFR-0.665(c)(6))

U.S. Nuclear Regulatory Commission, Region II Page 3 of 3

cc (with enclosures):

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

U.S. Nuclear Regulatory Commission, NRC Region II ATTN: Mr. Richard S. Baldwin, Chief Examiner 245 Peachtree Center Ave, NE, Suite 1200 Atlanta, GA 30303-1257

cc (without enclosures):

U.S. Nuclear Regulatory Commission, NRC Region II ATTN: Mr. Gerald J. McCoy Chief, Operations Branch 245 Peachtree Center Ave, NE, Suite 1200 Atlanta, GA 30303-1257

U.S. Nuclear Regulatory Commission ATTN: Mr. Andrew Hon (Mail Stop OWFN 8G9A) (Electronic Copy Only) 11555 Rockville Pike Rockville, MD 20852-2738

U.S. Nuclear Regulatory Commission ATTN: Ms. Michelle P. Catts, NRC Senior Resident Inspector 8470 River Road Southport, NC 28461-8869

Chair - North Carolina Utilities Commission P.O. Box 29510 Raleigh, NC 27626-0510



William R. Gideon Vice President Brunswick Nuclear Plant P.O. Box 10429 Southport, NC 28461 910.457.3698

December 21, 2015

Serial: BSEP 15-0105

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

- Subject: Brunswick Steam Electric Plant, Unit Nos. 1 and 2 Renewed Facility Operating License Nos. DPR-71 and DPR-62 Docket Nos. 50-325 and 50-324 Reactor Operator and Senior Reactor Operator License Post-Examination Documentation and Comments
- Reference: Letter from Eugene F. Guthrie (NRC) to William R. Gideon (Duke Energy), "Brunswick Steam Electric Plant – Notification of Licensed Operator Initial Examination 05000325/2015301 and 05000324/2015301," dated May 15, 2015, ADAMS Accession Number ML15138A340

Dear Regional Administrator:

In accordance with the guidance contained in Revision 10 of NUREG-1021, "Operator Licensing Standards for Power Reactors," Section ES-402, "Administering Initial Written Examinations," and ES-501, "Initial Post-Examination Activities," Duke Energy Progress, Inc., is providing the NRC the specified documentation for the reactor operator and senior reactor operator written examinations, which were administered at the Brunswick Steam Electric Plant on Tuesday, December 15, 2015. The examination documentation enclosures are being provided only to Mr. Eugene Guthrie, with his copy of this letter. Duke Energy has five post exam comments relating to the written examination included with this submittal letter as Enclosure 2.

The master examination and answer key are provided in Enclosure 6 of this letter, with annotations. All substantive comments made by the applicants following the written examination are included with Enclosure 2. Lastly, the original ES-201-3 forms, "Examination Security Agreement," with all the pre- and post-examination signatures will be provided via email, as previously discussed with the NRC chief examiner on December 21, 2015.

U.S. Nuclear Regulatory Commission, Region II Page 2 of 3

This document contains no regulatory commitments.

Please refer any questions regarding this submittal to Mr. Lee Grzeck, Manager – Regulatory Affairs, at (910) 457-2487.

Sincerely,

William R. Gideon

WRG/mkb

Enclosures:

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

U.S. Nuclear Regulatory Commission, Region II Page 3 of 3

cc (with enclosures):

U.S. Nuclear Regulatory Commission, Region II ATTN: Mr. Eugene F. Guthrie Chief, Operations Branch 2 245 Peachtree Center Ave, NE, Suite 1200 Atlanta, GA 30303-1257

cc (without enclosures):

U.S. Nuclear Regulatory Commission ATTN: Document Control Desk Washington, DC 20555-0001

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

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