

Form 1.3-1 Examination Security Agreement

(1) Preexamination

I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for the week(s) of 4/22/24 - 4/24/24 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 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 the completion of examination administration, except as specifically noted below or authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations, an enforcement action by the NRC against me or the facility licensee, or both. I will immediately report to facility licensee management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

(2) Postexamination

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 4/22/24. From the date that I entered into this examination 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 or authorized by the NRC.

Print Name	Job Title	Signature (1)	Date	Signature (2)	Date	Note
DUCAN ADAMS	Exam Author		6/5/23		5/6/24	
Sara Andersen	Exam Author		6/5/23		5/6/24	
Michela Amberman	ADMIN		6/6/23		5-6-24	
PAUL ISHAM	REC		6/12/23		5/7/24	
James R. Riebold	LORT REA		10-12-23		5-07-24	
Brian Woodward	Sim Coordinator		4/9/23		5/6/24	
Jeffrey Wilkerson	Sim MAINT		11/9/23		5/8/24	
Matt Renton	Facility Rep		11/17/23		5/7/24	
Matthew D. Mills	SRO Tech Review		11/19/23		5/8/24	
DAN SWICK	TRC VALIDATOR		12/18/23		5/6/24	
Daniel Meese	RO validator		12.18.23		5.6.24	
Bill Linnell	SRO Validator		12/18/23		5/6/24	
Matt George	RO of ex validator		12/18/23		5/6/24	

NOTES:

Form 1.3-1 Examination Security Agreement

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	Print Name	Job Title	Signature (1)	Date	Signature (2)	Date	Note
1.	Afshreen Khatami	Sim Eng	<i>Afshreen Khatami</i>	12/18/23	<i>Captain Lee</i>	5/16/24	
2.	Eli Digon	Reactor Operator	<i>Eli Digon</i>	1/2/24	<i>Patricia</i>	5/7/24	
3.	Andrew Byers	Senior Reactor Operator	<i>Andrew Byers</i>	1/2/24	<i>Patricia</i>	5/7/24	
4.	Mike Schweigler	Senior Reactor Operator	<i>Mike Schweigler</i>	1/2/24	<i>Patricia</i>	5/7/24	
5.	Allen J. Murray	RO	<i>Allen J. Murray</i>	1/2/24	<i>Patricia</i>	5/10/24	
6.	Matthew Babab	SRO	<i>Matthew Babab</i>	1/10/24	<i>Mike</i>	5/16/24	
7.	Raymond P. Vogel III	Senior Reactor Operator	<i>Raymond P. Vogel III</i>	1/10/24	<i>Mike</i>	5/16/24	
8.	Jordan R. Selmedo	RO	<i>Jordan R. Selmedo</i>	1/16/24	<i>Mike</i>	5/16/24	
9.	Daniel Weese						
10.	Mark Thomas Jr	SRO	<i>Mark Thomas Jr</i>	1/18/24	<i>Patricia</i>	5/7/24	
11.	Matthew Pittman	LOFT Lead	<i>Matthew Pittman</i>	1/18/24	<i>Mike</i>	5/16/24	
12.	CHARIS BUCKHART	REE	<i>CHARIS BUCKHART</i>	1/29/24	<i>Patricia</i>	5/7/24	
13.	Timothy McDown	RO	<i>Timothy McDown</i>	1/31/24	<i>Patricia</i>	5/7/24	

NOTES:

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	Print Name	Job Title	Signature (1)	Date	Signature (2)	Date	Note
1.	Jeremy Behar	LC		3/25/24		5/6/24	
2.	BRADLEY POWELL	ILT INST.		4/22/24		5/6/24	
3.	Nick Somers	ILT INST		4/22/24		5/6/24	
4.	James Fleury	Sr. Ops Inst.		4/22/24		5/6/24	
5.	JAMES CREIGHTON	Sr Ops INST.		4/22/24		5/6/24	
6.	Ralph Smith	Sr Ops INST		4-22-24		5/7/24	
7.	Israel Stank	Ops Inst		4/22/24		5/13/24	
8.	Julius Madson	OTM		4/22/24		5/10/2024	
9.	LEAS HUBBARD	ILT INST.		4/22/24		5/6/24	
10.	Brandon Schwartz	Ops Services Manager		4/23/24		5/7/24	
11.							
12.							
13.							

NOTES:

Form 2.1-1 Examination Preparation Checklist

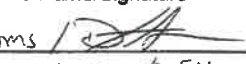




Facility: <u>PBA23</u>		Date of Examination: <u>4/22/24</u>
Developed by: Written: Facility <input checked="" type="checkbox"/> NRC <input type="checkbox"/> // Operating: Facility <input checked="" type="checkbox"/> NRC <input type="checkbox"/>		
Target Date*	Task Description	Chief Examiner's Initials
-240	1. Examination administration date confirmed (A.1-5). For NRC-prepared examinations, arrangements are made for the facility licensee to submit reference materials (B.4, C.4.g and F).	TF
-210	2. NRC examiners and facility licensee contact assigned (B.1 and C.1-3).	TF
-210	3. Facility licensee contact briefed on examination security and other requirements (D.4). As applicable, the facility licensee contact submits to the NRC any prescreened K/As for elimination from the written examination outline, with a description of the facility licensee's prescreening process (ES-4.1 A.1.a and ES-4.1 B.2).	TF
-210	4. Reference material due for NRC-prepared examinations (F).	NA
-210	5. Examination kick-off call held (C.4). The NRC sends the corporate notification letter (A.5).	TF
-195	6. Written examination outline developed by the NRC and sent to the facility licensee contact (must be on the examination security agreement) (B.2, ES-4.1 A.1.b and ES-4.1 A.2.a).	TF
-150	7. Operating test outlines and checklists due: Forms 1.3-1, 2.3-1, 3.2-1, 3.2-2, 3.3-1, and 3.4-1, as applicable (B.6). Facility licensee provides a draft operating test administration schedule to the NRC (B.18).	TF
-136	8. Operating test outlines reviewed by the NRC and feedback provided to the facility licensee (ES-2.3).	TF
-100	9. NRC-prepared examinations approved by the NRC supervisor and forwarded for facility licensee review (ES-2.3).	NA
-75	10. Proposed examinations (written, JPMs, and scenarios, as applicable) and outline forms; quality checklists and supporting documentation (including Forms 2.3-2 and 2.3-4 and any Form 2.3-1, 1.3-1, and 3.4-1 updates); and reference materials due.	TF
-60	11. Preliminary waiver/excusal requests due (ES-2.2 E.1).	TF
-50	12. Written examination and operating test reviews completed (ES-2.3). The NRC supervisor's authorization to proceed with the facility review granted (ES-2.3 D).	TF
-50	13. Examination review results discussed between the NRC and the facility licensee (B.14).	TF
-35	14. Examination preparatory week conducted by the NRC and the facility licensee (I).	TF
-30	15. Preliminary license applications, including any waiver/excusal requests, due (ES-2.2 C.1).	TF
-14	16. Final license applications, including any waiver/excusal requests, due and Form 2.2-1 prepared (ES-2.2 C and E).	TF
-7	17. Written examinations and operating tests approved by the NRC supervisor (C.9)	TF
-7	18. Facility licensee management feedback on the examination requested by the NRC supervisor (C.10).	TF
-7	19. Final applications reviewed; 10% of applications audited to confirm qualifications/eligibility (ES-2.2 G); and examination approval letter (Letter 2.3-1) and waiver/excusal letters sent.	TF
-7	20. Written examination administration guidelines reviewed with the facility licensee (D.14).	TF
-7	21. Approved scenarios and job performance measures distributed to NRC examiners (D.12).	TF
* Target dates are based on facility licensee-prepared examinations and the examination date identified in the corporate notification letter. These dates are for planning purposes and may be adjusted in coordination with the facility licensee.		

Form 2.3-1 Examination Outline Quality Checklist





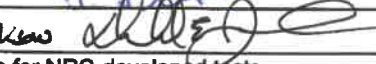
Facility: Peach Bottom Atomic Power Station		Date of Examination: 04/22/24																				
Item	Task Description	(Y)es / (N)o																				
		a	b*	c#																		
WRITTEN	a. The outline was systematically and randomly prepared in accordance with the instructions in Section B of ES-4.1, and all knowledge and ability (K/A) categories are appropriately sampled.	Y		Y																		
	b. The outline does not overemphasize any systems, evolutions, or generic topics.	Y	Y	Y																		
	c. Justifications for deselected or rejected K/A statements are acceptable.	Y	Y	Y																		
SIMULATOR	a. Using Form 3.4-1, Events and Evolutions Checklist, verify that the proposed scenario set contains the required number of normal evolutions, reactivity evolutions, instrument and component failures, manual control evolutions, technical specifications, and major transients.	Y	Y	Y																		
	b. There are enough scenarios (and spares) for the projected number and mix of applicants in accordance with the expected crew composition and rotation schedule without compromising exam integrity. Ensure that scenarios will not be repeated on subsequent days.	Y	Y	Y																		
	c. Ensure that all scenarios are new or significantly modified in accordance with ES-3.4 and that no scenarios are duplicated from the applicants' audit test(s).	Y	Y	Y																		
	d. To the extent possible, assess whether the outline(s) conforms with the qualitative and quantitative simulator set criteria specified on Form 2.3-2.	Y	Y	Y																		
JPMS	a. Verify that the administrative outline meets the criteria specified in the instructions on Form 3.2-1 and that no tasks are duplicated from the applicants' audit test(s).	Y	Y	Y																		
	b. Verify that the control room and in-plant systems outline meets the criteria specified in the instructions on Form 3.2-2 and that no tasks are duplicated from the applicants' audit test(s).	Y	Y	Y																		
	c. Determine whether the number of job performance measures (JPMs) and JPM types is sufficient for the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	Y	Y	Y																		
GENERAL	a. Assess whether the appropriate exam sections cover plant-specific priorities (including probabilistic risk assessment and individual plant examination insights).	Y	Y	Y																		
	b. Assess whether the 10 CFR 55.41, 10 CFR 55.43, and 10 CFR 55.45 sampling is appropriate.	Y	Y	Y																		
	c. Check whether K/A importance ratings (except for plant-specific priorities) are greater than or equal to 2.5.	Y	Y	Y																		
	d. Check for duplication and overlap across the exam and with the last two NRC exams.	Y	Y	Y																		
	e. Check the entire exam for balance of coverage.	Y	Y	Y																		
	f. Assess whether the exam fits the appropriate job level (reactor operator or senior reactor operator).	Y	Y	Y																		
<table border="0"> <tr> <td></td> <td>Printed Name/Signature</td> <td>Date</td> </tr> <tr> <td>a. Author</td> <td>Durand Adams/ </td> <td>4/15/24</td> </tr> <tr> <td>b. Facility Reviewer (*)</td> <td>Matt Rector/ </td> <td>4/15/24</td> </tr> <tr> <td>c. NRC Reviewer (#)</td> <td>Todd Fish/ </td> <td>4/15/24</td> </tr> <tr> <td>NRC Chief Examiner</td> <td>Todd Fish/ </td> <td>4/15/24</td> </tr> <tr> <td>NRC Supervisor</td> <td>Donald Jackson/ </td> <td>4/15/24</td> </tr> </table>			Printed Name/Signature	Date	a. Author	Durand Adams/ 	4/15/24	b. Facility Reviewer (*)	Matt Rector/ 	4/15/24	c. NRC Reviewer (#)	Todd Fish/ 	4/15/24	NRC Chief Examiner	Todd Fish/ 	4/15/24	NRC Supervisor	Donald Jackson/ 	4/15/24			
	Printed Name/Signature	Date																				
a. Author	Durand Adams/ 	4/15/24																				
b. Facility Reviewer (*)	Matt Rector/ 	4/15/24																				
c. NRC Reviewer (#)	Todd Fish/ 	4/15/24																				
NRC Chief Examiner	Todd Fish/ 	4/15/24																				
NRC Supervisor	Donald Jackson/ 	4/15/24																				
<p>* The facility licensee signature is not applicable for NRC-developed tests. # An independent NRC reviewer performs the steps in column "c." This may be the NRC Chief Examiner if he/she did not develop the outline under review.</p>																						

Form 2.3-2 Operating Test Quality Checklist

Facility: <u>PBAPS</u>		Date of Examination: <u>9/22/24</u>			Operating Test Number: <u>1</u>		
General Criteria				(Y)es / (N)o			
				a	b*	c*	
a. The operating test meets the criteria on the associated test outline.				Y	Y	Y	
b. There are enough test items so that test items will not be repeated on more than 1 day of the operating test.				Y	Y	Y	
c. The operating test does not duplicate items from the applicants' audit test(s).				Y	Y	Y	
d. Overlap with the written examination and between different parts of the operating test is minimized.				Y	Y	Y	
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.				Y	Y	Y	
Walkthrough Criteria							
a. Each job performance measure (JPM) includes the following, as applicable:							
<ul style="list-style-type: none"> • task standard • initial conditions • initiating cues • references and tools, including associated procedures • reasonable and validated time limits (average time allowed for completion) and specific designation if the facility licensee deems it to be time critical • alternate path JPMs are labeled as "alternate path" • operationally important specific performance criteria that include the following: <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 JPM task standard – identification of critical steps and their associated performance standards – restrictions on the sequence of steps, if applicable 				Y	Y	Y	
b. Ensure that any changes from the previously approved JPM outlines (Forms 3.2-1 and 3.2-2) 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.				N/A	N/A	NA	
Simulator Scenario Set Criteria for Scenario Numbers: <u>11213/4</u>							
QUALITATIVE ATTRIBUTES							
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.				Y	Y	Y	
2. The scenarios consist mostly of related events.				Y	Y	Y	
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) 				Y	Y	Y	

QUALITATIVE ATTRIBUTES (continued)		(Y)es / (N)o			
		a	b*	c#	
4.	The events are valid with regard to physics and thermodynamics.	Y	Y	Y	
5.	The sequencing and timing of events is reasonable and allows the examination team to observe and evaluate applicant performance.	Y	Y	Y	
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.	Y	Y	Y	
7.	The simulator modeling is not altered.	Y	Y	Y	
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.	Y	Y	Y	
9.	Scenarios are new or significantly modified in accordance with ES-3.4.	Y	Y	Y	
10.	Scenarios (as grouped) allow each applicant to be significantly involved in the minimum number of transients, events, and evolutions specified on the version of Form 3.4-1 submitted with the scenario set.	Y	Y	Y	
11.	Applicants are evaluated on a similar number of preidentified critical tasks across scenarios, when possible.	Y	Y	Y	
12.	The level of difficulty is appropriate to support licensing decisions for each crew position.	Y	Y	Y	
TARGET QUANTITATIVE ATTRIBUTES per Scenario (See ES-3.4)		Actual Attributes by Scenario No.	(Y)es / (N)o		
		1 1 2 1 3 / 4	a	b*	c#
1.	Malfunctions after emergency operating procedure (EOP) entry (1-2)	3 / 2 / 2 / 3	Y	Y	Y
2.	Abnormal events (2-4)	8 / 8 / 6 / 9	Y	Y	Y
3.	Major transients (1-2)	1 / 1 / 1 / 1	Y	Y	Y
4.	EOPs entered/requiring substantive actions (1-2)	3 / 2 / 2 / 2	Y	Y	Y
5.	Entry into a contingency EOP with substantive actions (≥ 1 per scenario set; set is the entire set of scenarios prepared for the scheduled exam)	1 / 1 / 1 / 1	Y	Y	Y
6.	Preidentified critical tasks (≥ 2)	2 / 2 / 2 / 2	Y	Y	Y
		Printed Name/Signature	Date		
a.	Author	DURAND ADAMS / 	4/15/24		
b.	Facility Reviewer (*)	MATTHEW RICTOR /  ^{FOL RECORD} PER RECEIVED	4/15/24		
c.	NRC Reviewer (#)	TODD FISH / 	4/15/24		
	NRC Chief Examiner	TODD FISH / 	4/15/24		
	NRC Supervisor	Donald E Jackson / 	4/15/24		
* The facility licensee signature is not applicable for NRC-developed tests.					
# An independent NRC reviewer performs the steps in column c. This may be the NRC Chief Examiner if he/she did not develop the operating test under review.					

Form 2.3-4 Written Examination Quality Checklist

Facility: PBAPS		Date of Exam: 4/22/24		Exam Level: RO X SRO X	
Item Description			(Y)es / (N)o		
			a	b*	c#
1. Questions and answers are technically accurate and applicable to the facility. Each question includes a technical reference.			Y	Y	Y
2. a. All questions reference NRC knowledge and abilities (K/As) requirements. b. Facility learning objectives are referenced as available. c. All questions include an explanation of the correct answer explanation and a distractor analysis.			Y	Y	Y
3. Senior reactor operator (SRO) questions test at the SRO license level.			Y	Y	Y
4. The sampling process was random and systematic. (If more than four reactor operator (RO) or two SRO questions were repeated from the last two NRC licensing exams, including full (100-question) retake examinations, consult the NRC Office of Nuclear Reactor Regulation operator licensing program office.)			Y	Y	Y
5. Question duplication from the licensee screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input type="checkbox"/> The audit exam was systematically and randomly developed. <input type="checkbox"/> The audit exam was completed before the license exam was started. <input checked="" type="checkbox"/> The examinations were developed independently. <input checked="" type="checkbox"/> The licensee certifies that there is no duplication. Other (explain):			Y	Y	Y
6. Bank use meets limits (no more than 75% from the bank, at least 10% new (at the comprehension/analysis level), and the rest new or modified); enter the actual RO/SRO-only question distribution >	Bank	Modified	New		
	29/8	0/0	48/17	Y	Y
7. Between 38 and 45 questions of the questions on the RO exam and at least 13 of the questions on the SRO-only portion of the exam are written at the comprehension/analysis level; enter the actual RO/SRO-only question distribution >	Memory		C/A		
	31/9		44/16	Y	Y
8. References/handouts provided do not give away answers or aid in the elimination of distractors.			Y	Y	Y
9. Question content conforms to specific K/A statements in the previously approved examination outline and is appropriate for the K/A statements' assigned tier; deviations are justified.			Y	Y	Y
10. Question psychometric quality and format meet the instructions and guidelines in ES-4.2.			Y	Y	Y
11. The exam contains the required number of one-point, multiple-choice items; the total is correct and agrees with the value on the cover sheet.			Y	Y	Y
Printed Name/Signature				Date	
a. Author	Durand Adams/ 			4/15/24	
b. Facility Reviewer (**)	Matt Rector/  SMOSS			4/15/24	
c. NRC Reviewer (#)	TODD FISH 			4/15/24	
NRC Chief Examiner	TODD FISH 			4/15/24	
NRC Regional Supervisor	Donald Jackson 			4/15/24	
* The facility licensee signature is not applicable for NRC-developed tests.					
# An independent NRC reviewer performs steps in column c. This may be the NRC Chief Examiner if he/she did not develop the written examination under review.					

Form 3.4-1 Events and Evolutions Checklist

Facility: PBAPS		Date of Exam: 4/22/2024											Operating Test No.: 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*		
		1			2			3			4							
		POSITION			POSITION			POSITION			POSITION							
		S	A	B	S	A	B	S	A	B	S	A	B					
		R	T	O	R	T	O	R	T	O	R	T	O					
O	C	P	O	C	P	O	C	P	O	C	P	RO	I	U				
All Positions	RX	2	2	0	6	6	0	3	3	0	3	3	0		1	1	0	
	NOR	1	0	1	1	0	1	1	0	1	1	1	0		1	1	1	
	I/C	3,5,6, 8,9,10	5,6,9	3,6,8, 10	2,4,5,7, 9,10	2,5,7,9, 10	4,6,9	2,4,5,7, 8	2,5	4,5,7,8	2,4,5,8, 9,10, 11	4,5,9	2,8,10, 11		4	4	2	
	MAJ	7	7	7	8	8	8	6	6	6	7	7	7		2	2	1	
	Man. Ctrl	0	5,9	8	0	5,7	6	0	0	4,7	0	9	2,8		1	1	0	
	TS	4,6	0	0	3,4	0	0	2,4,5	0	0	2,6	0	0		0	2	2	
SRO 1	RX				6					0		3		2	1	1	0	
	NOR				1					1		1		3	1	1	1	
	I/C				2,4,5,7, 9,10					4,5,7,8		4,5,9		13	4	4	2	
	MAJ				8					6		7		3	2	2	1	
	Man. Ctrl				0					4,7		9		3	1	1	0	
	TS				3,4					0		0		2	0	2	2	
SRO 2	RX					6				0	3		2	1	1	0		
	NOR					0				1	1		2	1	1	1		
	I/C					2,5,7,9, 10				4,5,7,8	2,4,5,8, 9,10, 11			16	4	4	2	
	MAJ					8				6	7		3	2	2	1		
	Man. Ctrl					5,7				4,7	0		4	1	1	0		
	TS					0				0	2,6		2	0	2	2		
SRO 3 (No ATC)	RX				6							0	1	1	1	0		
	NOR				1							0	1	1	1	1		
	I/C				2,4,5,7, 9,10							2,8,10, 11	10	4	4	2		
	MAJ				8							7	2	2	2	1		
	Man. Ctrl				0							2,8	2	1	1	0		
	TS				3,4							0	2	0	2	2		
SRO 4	RX							3				3		2	1	1	0	
	NOR							1				1		2	1	1	1	
	I/C							2,4,5,7, 8				4,5,9		8	4	4	2	
	MAJ							6				7		2	2	2	1	
	Man. Ctrl							0				9		1	1	1	0	
	TS							2,4,5				0		3	0	2	2	

SRO 5	RX					6		3			3			3	1	1	0
	NOR					0		1			1			2	1	1	1
	I/C					2,5,7,9 .10		2,4,5,7 .8			2,4,5,8 .9,10.			16	4	4	2
	MAJ					8		6			7			3	2	2	1
	Man. Ctrl					5,7		0			0			2	1	1	0
	TS					0		2,4,5			2,6			5	0	2	2
RO 1	RX						0		3				0	1	1	1	0
	NOR						1		0				0	1	1	1	1
	I/C						4,6,9		2,5				2,8,10, 11	9	4	4	2
	MAJ						8		6				7	3	2	2	1
	Man. Ctrl						6		0				2,8	3	1	1	0
	TS						0		0				0	0	0	2	2
RO 2	RX						0		3					1	1	1	0
	NOR						1		0					1	1	1	1
	I/C						4,6,9		2,5					5	4	4	2
	MAJ						8		6					2	2	2	1
	Man. Ctrl						6		0					1	1	1	0
	TS						0		0					0	0	2	2