







Form 2.1-1 Examination Preparation Checklist

Facility: <u>Watts Bar</u>		Date of Examination: <u>Aug 2022</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).	<i>DL</i>
-210	2. NRC examiners and facility licensee contact assigned (B.1 and C.1-3).	<i>DL</i>
-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).	<i>DL</i>
-210	4. Reference material due for NRC-prepared examinations (F).	<i>DL</i>
-210	5. Examination kick-off call held (C.4). The NRC sends the corporate notification letter (A.5).	<i>DL</i>
-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).	<i>DL</i>
-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).	<i>DL</i>
-136	8. Operating test outlines reviewed by the NRC and feedback provided to the facility licensee (ES-2.3).	<i>DL</i>
-100	9. NRC-prepared examinations approved by the NRC supervisor and forwarded for facility licensee review (ES-2.3).	<i>DL</i>
-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.	<i>DL</i>
-60	11. Preliminary waiver/excusal requests due (ES-2.2 E.1).	<i>DL</i>
-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).	<i>DL</i>
-50	13. Examination review results discussed between the NRC and the facility licensee (B.14).	<i>DL</i>
-35	14. Examination preparatory week conducted by the NRC and the facility licensee (I).	<i>DL</i>
-30	15. Preliminary license applications, including any waiver/excusal requests, due (ES-2.2 C.1).	<i>DL</i>
-14	16. Final license applications, including any waiver/excusal requests, due and Form 2.2-1 prepared (ES-2.2 C and E).	<i>DL</i>
-7	17. Written examinations and operating tests approved by the NRC supervisor (C.9)	<i>DL</i>
-7	18. Facility licensee management feedback on the examination requested by the NRC supervisor (C.10).	<i>DL</i>

-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.	<i>DL</i>
-7	20. Written examination administration guidelines reviewed with the facility licensee (D.14).	<i>DL</i>
-7	21. Approved scenarios and job performance measures distributed to NRC examiners (D.12).	<i>DL</i>
* 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: WBN		Date of Examination: AUG2022																						
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		***																				
	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>a. Author</td> <td>Michael Schulte / </td> <td>Date</td> <td>2/28/22</td> </tr> <tr> <td>b. Facility Reviewer (*)</td> <td>Eric Lambert / </td> <td>Date</td> <td>2/28/22</td> </tr> <tr> <td>c. NRC Reviewer (#)</td> <td>Joseph P. Viera</td> <td colspan="2">Digitally signed by Joseph P. Viera Date: 2022.05.05 11:07:23 -04'00'</td> </tr> <tr> <td>NRC Chief Examiner</td> <td>David R. Lanyi</td> <td colspan="2">Digitally signed by David R. Lanyi Date: 2022.05.06 13:03:42 -04'00'</td> </tr> <tr> <td>NRC Supervisor</td> <td>Thomas A. Stephen</td> <td colspan="2">Digitally signed by Thomas A. Stephen Date: 2022.05.07 15:48:27 -04'00'</td> </tr> </table>					a. Author	Michael Schulte / 	Date	2/28/22	b. Facility Reviewer (*)	Eric Lambert / 	Date	2/28/22	c. NRC Reviewer (#)	Joseph P. Viera	Digitally signed by Joseph P. Viera Date: 2022.05.05 11:07:23 -04'00'		NRC Chief Examiner	David R. Lanyi	Digitally signed by David R. Lanyi Date: 2022.05.06 13:03:42 -04'00'		NRC Supervisor	Thomas A. Stephen	Digitally signed by Thomas A. Stephen Date: 2022.05.07 15:48:27 -04'00'	
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<p>* The facility licensee signature is not applicable for NRC-developed tests.</p> <p># 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>																								

*** NRC generated the outline

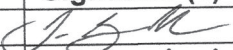
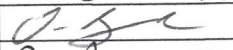
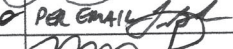



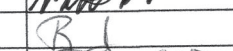



















Form 1.3-1 Examination Security Agreement

(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 8/8/22 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 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 8/8/22. 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
1.	TIM GABOSCH	WBN EXAM TEAM		11/16/21		8/18/22	
2.	Russell JORDAN	TVA EPM RWLO		2/1/22		8-18-22	
3.	Michael Peterson	WBN Exam Team		2/16/22		8/18/22	
4.	Matthew Holt	Sim Engineer		2/22/22		9/7/22	Signed off per email
5.	Byron Ferguson	Sim Engineer		2/22/22		8/24/22	Signed off per email
6.	BRIAN S. MCILWAIN	WBN NRC REP		12/31/22		8/26/22	Signed off per email
7.	Leon Neet	WBN OTM		3-1-2022		9-7-2022	
8.	T. Wilson	NVO		3-26-22		8/25/22	
9.	Richard Davis	NVO		3-26-22		9/7/22	Signed off per email
10.	ANDREW EASTMAN	SRO		3-26-22		8/24/22	Signed off per email
11.	Brian Joseph	NISO		4/2/22		8/24/22	Signed off per email
12.	J. LAUSSEUR	SRO		4/16/22		8/24/22	Signed off per email
13.	CURTIS CROOKS	NVO		7/5/22		8/24/22	Signed off per email

NOTES:

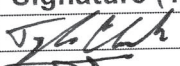
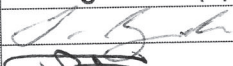
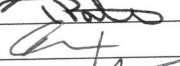
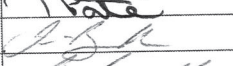


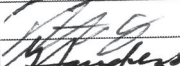















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	Print Name	Job Title	Signature (1)	Date	Signature (2)	Date	Note
1.	Tyler Clark	Sim Mgr		7-6-22		8/24/22	Signed off per email
2.	Tony Pate	Shift Manager		7-12-22		8-19-22	
3.	Chris Rony	SM UH/MSO		7/12/22		8/19/22	Signed on twice on accident
4.	D. WATTS	SM		7-17-22		8/24/22	Signed off per email
5.	TRON JONES	MSO		7/15/22		8/17/22	Signed off per email
6.	POOT OBARA	ILT Supervisor		8/3/22		8/24/22	Signed off per email
7.	George Sanders	Inst		8/5/22		8/25/22	Signed off per email
8.	Ryan Schaumburg	Lead Instr.		8/5/22		8/17/22	
9.	G.K. Gresham	ILT Instructor		8/8/22		8/24/22	Signed off per email
10.	Richard News	ILT INSTRUCTOR		8/8/22		8/17/22	
11.	James Perkins	ILT Instructor		8/9/22		8/17/22	
12.	DANIO JACKSON	ILT INSTRUCTOR		08/17/22		08/17/22	
13.	Jeffery Miller	ILT Instructor		8/17/22		8/17/22	

NOTES:

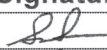
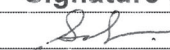






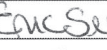





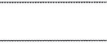




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To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 8/8/22. From the date that I entered into this examination security agreement until 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
1.	SEAN LORSON	NUSO STA		5/3/22		8/18/22	
2.	Victor Bond	RO		5/3/22		8/25/22	Signed off per email
3.	William Myers	NUSO SM		5/3/22		8/25/22	
4.	ROBERT SMITHSON	NUSO STA		5/3/22		8/25/22	Signed off per email
5.	Sheldon Ham	NUSO		5/4/22		8/25/22	Signed off per email
6.	ERIC SIMMONS	RO		5/9/22		8/27/22	Signed off per email
7.	CHRISTOPHER D. R.	NUSO		07/05/22		8/31/22	Signed off per email
8.	JOHN A. ANDERSON	SGN INSTRUCTOR		7/5/22		8/25/22	Signed off per email
9.	Chris Remy	NUSO		8/14/22		8/15/22	
10.							
11.							
12.							
13.							

NOTES:

Gabosch, Timothy Jon

From: Addison, John A
Sent: Thursday, August 25, 2022 10:06 AM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Bond, Victor Earl III
Sent: Thursday, August 25, 2022 6:55 AM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Clark, Tyler
Sent: Wednesday, August 24, 2022 3:31 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Crooke, Curtis
Sent: Wednesday, August 24, 2022 3:31 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Cruz, Daniel Roy
Sent: Wednesday, August 31, 2022 6:54 PM
To: Gabosch, Timothy Jon
Subject: RE: WBN 2022 ILT NRC Examination Security Agreement

Yes

From: Gabosch, Timothy Jon <tjgabosch@tva.gov>
Sent: Wednesday, August 24, 2022 3:06 PM
To: Ferguson, Ryan Shaw <rsferguson@tva.gov>; Holt, Matthew John <mjholt@tva.gov>; McIlInay, Brian S <bsmcllnay@tva.gov>; Neat, Leon <lneat@tva.gov>; Wilson, Thomas J <tjwilson0@tva.gov>; Davis, Richard John <rjdavis0@tva.gov>; Zastrow, Andrew K <akzastrow0@tva.gov>; Joseph, Brian Scott <bsjoseph@tva.gov>; Lavoisier, Jarrett Keller <jklavoisier2@tva.gov>; Crooke, Curtis <ccrooke@tva.gov>; Bond, Victor Earl III <vebond@tva.gov>; Myers, William R <wrmyers@tva.gov>; Smithson, Robert C <rsmithson@tva.gov>; Ham, Sheldon K <skham@tva.gov>; Silvers, Eric L <elsilvers@tva.gov>; Cruz, Daniel Roy <drcruz@tva.gov>; Addison, John A <jaaddison@tva.gov>; Clark, Tyler <tclark0@tva.gov>; Martin, Dustin E <demartin0@tva.gov>; Jones, Tyson <tjones13@tva.gov>; O'Brien, Patrick Clinton <pcobrien@tva.gov>; Sanders, George Ira <gisanders@tva.gov>; Grabowski, Erik Warren <egrabowski@tva.gov>
Subject: WBN 2022 ILT NRC Examination Security Agreement

Good morning,

All of you are signed on to the WBN 2022 ILT NRC Examination Security Agreement due to your role in the development or administration of the exam. The exam is now complete.

Please use the voting buttons to vote or reply "YES" to affirm that you have complied with the below statement. This will serve as your electronic signature, and I will sign you off of the Examination Security Agreement per email. Please return your Exam Security Badge, as time allows, to the ILT Exam Room. There is a bin on the door.

If you vote or reply "NO", please contact me immediately.

(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 8/8/22 – 8/17/22. 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.

Thank you,

Tim Gabosch

Operations Training Instructor
Watts Bar Nuclear Plant
tjgabosch@tva.gov
423-365-3517

Gabosch, Timothy Jon

From: Davis, Richard John
Sent: Wednesday, September 7, 2022 9:28 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Ferguson, Ryan Shaw
Sent: Wednesday, August 24, 2022 5:53 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Grabowski, Erik Warren
Sent: Wednesday, August 24, 2022 4:49 PM
To: Gabosch, Timothy Jon
Subject: Re: WBN 2022 ILT NRC Examination Security Agreement

Yes

Erik Grabowski
Instructor, Operations Lead
Watts Bar Nuclear Plant
W: 423-365-1659, C: 740-222-9420

From: Gabosch, Timothy Jon <tjgabosch@tva.gov>
Sent: Wednesday, August 24, 2022 3:06:23 PM
To: Ferguson, Ryan Shaw <rsferguson@tva.gov>; Holt, Matthew John <mjholt@tva.gov>; McIlroy, Brian S <bsmclroy@tva.gov>; Neat, Leon <leat@tva.gov>; Wilson, Thomas J <tjwilson0@tva.gov>; Davis, Richard John <rjdavis0@tva.gov>; Zastrow, Andrew K <akzastrow0@tva.gov>; Joseph, Brian Scott <bsjoseph@tva.gov>; Lavoie, Jarrett Keller <jklavoie2@tva.gov>; Crooke, Curtis <ccrooke@tva.gov>; Bond, Victor Earl III <vebond@tva.gov>; Myers, William R <wrmyers@tva.gov>; Smithson, Robert C <rsmithson@tva.gov>; Ham, Sheldon K <skham@tva.gov>; Silvers, Eric L <elsilvers@tva.gov>; Cruz, Daniel Roy <drcruz@tva.gov>; Addison, John A <jaaddison@tva.gov>; Clark, Tyler <tclark0@tva.gov>; Martin, Dustin E <demartin0@tva.gov>; Jones, Tyson <tjones13@tva.gov>; O'Brien, Patrick Clinton <pcobrien@tva.gov>; Sanders, George Ira <gisanders@tva.gov>; Grabowski, Erik Warren <egrabowski@tva.gov>
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Watts Bar Nuclear Plant
tjgabosch@tva.gov
423-365-3517

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From: Ham, Sheldon K
Sent: Wednesday, August 24, 2022 3:09 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Holt, Matthew John
Sent: Wednesday, September 7, 2022 12:01 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Jones, Tyson
Sent: Wednesday, September 7, 2022 6:11 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Joseph, Brian Scott
Sent: Wednesday, August 24, 2022 3:08 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Lavasseur, Jarrett Keller
Sent: Wednesday, August 24, 2022 4:11 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Martin, Dustin E
Sent: Wednesday, August 24, 2022 3:12 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: McInay, Brian S
Sent: Friday, August 26, 2022 5:28 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Follow Up Flag: Follow up
Flag Status: Completed

Gabosch, Timothy Jon

From: O'Brien, Patrick Clinton
Sent: Wednesday, August 24, 2022 3:22 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Sanders, George Ira
Sent: Thursday, August 25, 2022 7:03 AM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Silvers, Eric L
Sent: Saturday, August 27, 2022 12:59 AM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Follow Up Flag: Follow up
Flag Status: Completed

Gabosch, Timothy Jon

From: Smithson, Robert C
Sent: Thursday, August 25, 2022 8:26 AM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Gabosch, Timothy Jon

From: Zastrow, Andrew K
Sent: Wednesday, August 24, 2022 7:04 PM
To: Gabosch, Timothy Jon
Subject: Yes: WBN 2022 ILT NRC Examination Security Agreement

Form 2.3-2 Operating Test Quality Checklist



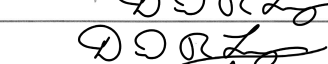
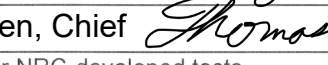
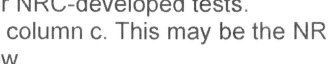
<p>a. Each job performance measure (JPM) includes the following, as applicable:</p> <ul style="list-style-type: none"> task standard initial conditions initiating cues references and tools, including associated procedures reasonable and validated time limits (average time allowed for completion) and 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	✓
<p>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.</p>	Y	Y	✓
Simulator Scenario Set Criteria for Scenario Numbers: 1 / 2 / 3 / 4			
QUALITATIVE ATTRIBUTES			
<p>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.</p>	Y	Y	✓
<p>2. The scenarios consist mostly of related events.</p>	Y	Y	✓
<p>3. Each event description consists of the following:</p> <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	✓
<p>QUALITATIVE ATTRIBUTES (continued)</p>	(Y)es / (N)o		
	a	b*	c#
<p>4. The events are valid with regard to physics and thermodynamics.</p>	Y	Y	y
<p>5. The sequencing and timing of events is reasonable and allows the examination team to observe and evaluate applicant performance.</p>	Y	Y	y
<p>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.</p>	Y	Y	y
<p>7. The simulator modeling is not altered.</p>	Y	Y	y
<p>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.</p>	Y	Y	y
<p>9. Scenarios are new or significantly modified in accordance with ES-3.4.</p>	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. 1 / 2 / 3 / 4	(Y)es / (N)o		
		a	b*	c#
1. Malfunctions after emergency operating procedure (EOP) entry (1-2)	2 / 3 / 2 / 3	y	y	y
2. Abnormal events (2-4)	5 / 4 / 4 / 4	y	y	y
3. Major transients (1-2)	1 / 1 / 1 / 1	y	y	y
4. EOPs entered/requiring substantive actions (1-2)	2 / 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)	0 / 0 / 0 / 1	y	y	y
6. Preidentified critical tasks (≥ 2)	2 / 2 / 2 / 2	y	y	y

	Printed Name/Signature	Date
a. Author	Tim GABOSCH <i>[Signature]</i>	5/18/22
b. Facility Reviewer (*)	BRIAN S. MCILWAIN <i>[Signature]</i>	5/18/22
c. NRC Reviewer (#)	David R. Lanyi <i>[Signature]</i>	7/25/2022
NRC Chief Examiner	David R. Lanyi <i>[Signature]</i>	7/27/2022
NRC Supervisor	Thomas A. Stephen, Chief <i>[Signature]</i>	8/2/2022

* 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: WBN		Date of Exam: 8/8/22		Exam Level: RO <input checked="" type="checkbox"/>		SRO <input checked="" type="checkbox"/>	
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 checked="" type="checkbox"/> The audit exam was completed before the license exam was started. <input type="checkbox"/> The examinations were developed independently. <input type="checkbox"/> The licensee certifies that there is no duplication. <input type="checkbox"/> 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	
				14 / 6	1 / 2	60 / 17	
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	
				30 / 7		45 / 18	
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	TIM GABOSCH / 			5/18/22			
b. Facility Reviewer (*)	BRIAN S. McILWY / 			5/18/22			
c. NRC Reviewer (#)	David R. Lanyi 			7/26/2022			
NRC Chief Examiner	David R. Lanyi 			7/27/2022			
NRC Regional Supervisor	Thomas A. Stephen, Chief 			8/2/2022			

* 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 5.1-1 Postexamination Check Sheet

Postexamination Check Sheet	
Facility: Watts Bar	Dates of Examination: August 2022
Activity Description	Date Complete
1. *Received postexamination package from facility licensee and verified complete. (ES-4.4)	8/29/2022
2. *Reviewed and incorporated any necessary facility and applicant written examination comments. NRC grading of written examination completed. (ES-4.4)	N/A
3. *Reviewed and incorporated any necessary facility and applicant operating test comments. NRC grading of operating test completed. (ES-3.6)	8/31/2022
4. *Completed NRC chief examiner review of operating test and written examination grading. (ES-3.6 and ES-4.4)	9/15/2022
5. Completed licensing official review.	9/23/2022
6. Mailed licenses, preliminary results, and pass letters.	9/26/2022
7. Notified facility licensee of results.	9/23/2022
8. Issued the examination report (refer to Operator Licensing Manual Chapter (OLMC) 510, "Operator Licensing Examination Reports").	9/30/2022
9. Returned reference material after final resolution of any informal NRC staff reviews, hearing demands, or both.	9/30/2022
10. Performed examination recordkeeping activities (refer to OLMC 520, "Operator Licensing Examination Records and Documentation," and Management Directive 3.53, "NRC Records and Document Management Program").	11/7/2022
* Activity may not be applicable for a retake examination. If this activity does not apply, place an "N/A" in the Date Complete column.	



Tennessee Valley Authority, Post Office Box 2000, Spring City, Tennessee 37381-2000

WBL-22-009

March 10, 2022

10 CFR 55.5
10 CFR 55.49
10 CFR 55.40(b)(3)

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

Attn: Mr. David Lanyi

Watts Bar Nuclear Plant, Units 1 and 2
Facility Operating License Nos. NPF-90 and NPF-96
NRC Docket Nos. 50-390 and 50-391

Subject: **Submittal of Initial Operator Licensing Outline**

Reference: NRC Letter to TVA, "Watts Bar Nuclear Plant - Notification of Licensed Operator Initial Examination 05000390/2022301 and 05000391/2022301" dated January 7, 2022 (ML22007A156)

In accordance with the referenced letter, Tennessee Valley Authority is providing supporting reference materials in accordance with NUREG-1021, "Operator Licensing Examination Standards for Power Reactors."

The operating test is scheduled to be administered during the week of August 8, 2022. The written examination is scheduled to be administered the week of August 22, 2022. In order to meet the examination schedule, Watts Bar was requested by the NRC to furnish this examination material by March 11, 2022.

Enclosure 1 includes the supporting reference materials for the reactor operator's and senior reactor operator's examinations.

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March 10, 2022

In accordance with Title 10 of the Federal Code of Regulations (10 CFR) 55.49, and NUREG-1021, appropriate measures have been taken to ensure examination integrity and security. Accordingly, it is requested that this letter and the enclosed documents be withheld from public disclosure until the examinations are completed.

There are no new regulatory commitments in this letter. If you have any questions, please contact Leon Neat, Operations Training Manager, at lneat@tva.gov, or Jonathan Johnson, Site Licensing Manager, at jtjohnson0@tva.gov.

Respectfully,

A handwritten signature in dark ink, appearing to read 'Anthony L. Williams, IV', with a large, loopy initial 'A'.

Anthony L. Williams, IV
Site Vice President
Watts Bar Nuclear Plant

Enclosure

Supporting Reference Materials for the Operator License Examinations

cc: (w/o Enclosures)

NRC Chief Operations Branch 1 – Division of Reactor Safety, Region II
NRC Senior Resident Inspector – Watts Bar Nuclear Plant

Enclosure 1

Supporting Reference Materials for the Operator License Examinations

This enclosure contains the following information:

- Form 1.3-1, Examination Security Agreement;
- Form 2.3-1, Examination Outline Quality Checklist;
- Form 3.2-1, Administrative Topics Outline;
- Form 3.2-2, Control Room/In-Plant Systems Outline;
- Form 3.3-1, Scenario Outline;
- Form 3.4-1, Events and Evolutions Checklist;