

Sequoyah Nuclear Plant, Post Office Box 2000, Soddy Daisy, Tennessee 37384

January 13, 2023

10 CFR 55.5 10 CFR 55.49

Ms. Laura Dudes U.S. Nuclear Regulatory Commission Marquis One Tower 245 Peachtree Center Avenue, NE, Suite 1200 Atlanta, Georgia 30303-1257

Sequoyah Nuclear Plant, Units 1 and 2

Renewed Facility Operating License Nos. DPR-77 and DPR-79

NRC Docket Nos. 50-327 and 50-328

Subject: Licensed Operator Initial Written Examination Retake

Reference: Letter from NRC to TVA, "Sequoyah Nuclear Plant - Notification of Licensed

Operator Retake Initial Examination 05000327/2023301 and

05000328/2023301," dated November 18, 2022

As requested by the referenced letter, the enclosure to this letter provides the information for the Tennessee Valley Authority's (TVA's) Sequoyah Nuclear Plant (SQN) Reactor Operator initial written examination retake scheduled to be administered the week of March 13, 2023.

As discussed during a telephone conversation on November 17, 2022 between Mr. J. Viera, NRC Senior Operations Engineer, and Mr. Aaron Forsha, SQN Lead Operations Instructor, the due date for this submittal is January 13, 2023.

There are no commitments contained in this submittal. In accordance with 10 CFR 55.49 and NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," appropriate measures have been taken to ensure examination integrity and security. Accordingly, it is requested that this letter and enclosed documents be withheld from public disclosure until the examinations are completed.

U.S. Nuclear Regulatory Commission Page 2 January 13, 2023

TVA's principal contact regarding the license examinations is Mr. Aaron Forsha. If you have any questions, please contact Mr. Forsha at (423) 843-4015 or Mr. Rick Medina, Site Licensing Manager, at (423) 843-8129.

Sincerely,

Thomas Marshall Site Vice President Sequoyah Nuclear Plant

Enclosure: EXAMINATION FOR REACTOR OPERATOR (RO) CANDIDATE

ENCLOSURE

TENNESSEE VALLEY AUTHORITY SEQUOYAH NUCLEAR PLANT UNITS 1 AND 2

EXAMINATION FOR REACTOR OPERATOR (RO) CANDIDATE

- Written Examination RO Portion Including Student Reference Material and Answer Key
- NUREG-1021 Forms:
 - 1.3-1 Examination Security Agreement
 - o 2.3-1 Examination Outline Quality Checklist
 - o 2.3-4 Written Examination Quality Checklist

Form 1.3-1 Examination Security Agreement

(1) <u>Preexamination</u>

I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for the week(s) of MAL 2013 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) <u>Postexamination</u>

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 <u>H3|23</u>. 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	Şignature (1)	Date	Signature (2)	Date	Note
1.	Aaron Forsing	EXAM AVENUR (lezz-	11/15/22	C222	4/3/23	
2.	Loitu Appison	Exelus Herical	All	11/15/22	ML	4/13/23	6
3.	Russell Joplin	FEM -	Cery	11/15/22	Ce27-	4/4/23	25 TONER PER PHUNE CO
4.	David Nett	Instructor	224/	12/21/22	BULL	4/3/23	
5.	JOHNY R LANG	Nuso	1835	12/28/22	an	4/4/23	2
6.	Christopher Blucknell	NUSO	Christon & Marke	116/23	arr	4/4/23	.1
7.	TIMOTHY HOWARD	Student Inst. PL	-74°)H	1/6/23	Cerza	4/4/23	1
8.	Brion Jasos	NUSO	B.2-	1/6/23	am	4/11/23	1
9.	JOHN D RALSZON	Reaction Ozoranon	MA	1/6/23	arm	4/4/23	1
10.	Joseph Welch	NUSO	230	1/6/23	ann	4/17/23	1
11/	Tommie C. Window #1	Reactor Operator	Frutt. Chimbret	· d -	an	4/17/23	シ
12.	Reith Powell	Recetor Operator	nest fall	1/7/23	an	4/5/23	1
13.	Kurt McCornacs	NUSO"	ILLICE	1/9/23	Cenn	4/5/23	1

NOTES:

NOTE I SIGNED OF PER EMAIL REALY

Form 1.3-1 Examination Security Agreement

(1) <u>Preexamination</u>

I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing examinations scheduled for the week(s) of <u>MAR 2023</u> 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) <u>Postexamination</u>

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 <u>4/3/23</u>. 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.	Gestic/ Johnson	10050	Belle.	1.46.73	an	4/5/23	2
2.	Andrew J Gifford	NUSO	(heleth)	1-10-23	ain	4/10/23	1
3.	Francis J Scholte	Shiff Manager	11/12	1/10/23	an	4/4/23	エ
4.	Jerony M. Hickey	Naso	My Grely	1/11/23	Can-	4/4/23	2
5.	Marty Benson	00	yearne	11123	Celh	415/23	1
6.	Grant Hancock	40	Bancook	1/11/23	arr	4/4/23	2
7.	Cobut Alperton	opm	116	1/12/23	ann	4/4/23	1
8.	MATTHEW SLEEWENS	SHIFT MANAGEZ	2/1/2	2/24/23	Cerm	4/5/23	1
9.	Jeremy Loymon	NUSU	177	2/4/23	an	4/5/23	.1
10.	Michael Hencock	uo.	1000	7/24/23	Com	4/4/23	1
11.	Grand Keoun	UO c		2/28/23	412~	4/4/23	2
12.	Scott Thomas	NUSO.	Alex	3/3/23	Coth	4/5/23	ユ
13.	Derek Jones	NUSU	men of	- 3/3/23	412	4/20/23	1
NOT		100070	100-11	1 2/3/23	WIFF	9/20/23	<i></i>

NOTES:

SEE PAGE / FOR NOTES

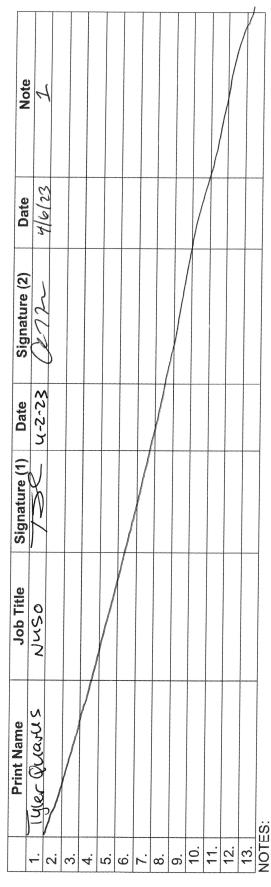
Form 1.3-1 Examination Security Agreement

) Preexamination

information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I enforcement action by the NRC against me or the facility licensee, or both. I will immediately report to facility licensee management examinations scheduled for the week(s) of MAA 2023 as of the date of my signature. I agree that I will not knowingly divulge any 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 am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations, an I acknowledge that I have acquired specialized knowledge about the U.S. Nuclear Regulatory Commission (NRC) licensing 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 $\frac{4/3/23}{1}$. 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.



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SEE PAGE I FOR NOTES

Form 2.1-1 Examination Preparation Checklist

Facility:	Sequoyah NPP (RO Written Retake ONLY) Date of Examination: 04/03/20	<u>23</u>
Develop	ed by: Written: Facility X NRC // Operating: Facility // NRC //a	
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).	jpu
-210	2. NRC examiners and facility licensee contact assigned (B.1 and C.1-3).	jpu
-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).	jpu
-210	4. Reference material due for NRC-prepared examinations (F).	ula
-210	5. Examination kick-off call held (C.4). The NRC sends the corporate notification letter (A.5).	jpu
-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).	jpu
-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).	ula
-136	8. Operating test outlines reviewed by the NRC and feedback provided to the facility licensee (ES-2.3).	ula
-100	9. NRC-prepared examinations approved by the NRC supervisor and forwarded for facility licensee review (ES-2.3).	ula
-75	 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. 	jpu
-60	11. Preliminary waiver/excusal requests due (ES-2.2 E.1).	jpu
-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).	jpu
-50	13. Examination review results discussed between the NRC and the facility licensee (B.14).	jpu
-35	14. Examination preparatory week conducted by the NRC and the facility licensee (I).	ula
-30	15. Preliminary license applications, including any waiver/excusal requests, due (ES-2-2 C.1).	jpu
-14	16. Final license applications, including any waiver/excusal requests, due and Form 2.2-1 prepared (ES-2.2 C and E).	jpu
-7	17. Written examinations and operating tests approved by the NRC supervisor (C.9)	jpu
-7	 Facility licensee management feedback on the examination requested by the NRC supervisor (C.10). 	jpu
-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.	jpu
-7	20. Written examination administration guidelines reviewed with the facility licensee (D.14).	jpu
-7	21. Approved scenarios and job performance measures distributed to NRC examiners (D.12).	ula

Form 2.3-1 Examination Outline Quality Checklist

Facility: SOA) Date of Examination: MARCH											
Faci	Facility: SQN Date of Examination:										
Item		Task Description)es /	Ì						
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.	Q	b*	JPV*						
R	b.	The outline does not overemphasize any systems, evolutions, or generic topics.	Co	χ	JPV*						
5		Justifications for deselected or rejected K/A statements are acceptable.	0	Ų,	JPV						
	_	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.		0							
SIMULATOR	b.	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.									
S	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).	Λ	\ \F							
	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.									
	a.	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).									
JPMS	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).									
	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.									
	a.	Assess whether the appropriate exam sections cover plant-specific priorities (including probabilistic risk assessment and individual plant examination insights).	(I)	d	JPV						
ᆜ	b.	Assess whether the 10 CFR 55.41, 10 CFR 55.43, and 10 CFR 55.45 sampling is appropriate.	Œ	<u>)</u>	J₽V						
GENERAL		Check whether K/A importance ratings (except for plant-specific priorities) are greater than or equal to 2.5.	Œ	8	J₽∨						
9	d.	Check for duplication and overlap across the exam and with the last two NRC exams.	Ø	ď.	J₽V						
	e.	Check the entire exam for balance of coverage.	D	X	J₽V						
	ı	Assess whether the exam fits the appropriate job level (reactor operator or senior reactor operator).	6	ď	J₽V						
c. NR NRC (cility C Re Chie Supe	, , , , , , , , , , , , , , , , , , , ,	2/20	023							
# An ir	* 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.										

NOTE (*) = portions approved on Sequeyah 2023-301 Form 2.3-1 (Written Sample Plan ONLY) dtd 11-14-2022

Form 2.3-1 Examination Outline Quality Checklist

Facil	ity: Sequoyah Date of Examinati	on: 202	3						
Item	Task Description	(/)es/	(N)o					
Item	rask Bescription	а	b*	c#					
WRITTEN	 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 a appropriately sampled. 	re		Y					
N N	b. The outline does not overemphasize any systems, evolutions, or generic topics.	Υ	NA	Υ					
	c. Justifications for deselected or rejected K/A statements are acceptable.	Υ	NA	Υ					
	a. Using Form 3.4-1, Events and Evolutions Checklist, verify that the proposed scenar set contains the required number of normal evolutions, reactivity evolutions, instrum and component failures, manual control evolutions, technical specifications, and ma transients.	ent	NA	NA					
SIMULATOR	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.								
S	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).								
	d. To the extent possible, assess whether the outline(s) conforms with the qualitative a quantitative simulator set criteria specified on Form 2.3-2.	and N A	NA	NA					
	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).								
JPMS	b. Verify that the control room and in-plant systems outline meets the criteria specified the instructions on Form 3.2-2 and that no tasks are duplicated from the applicants' audit test(s).		NA	NA					
	 Determine whether the number of job performance measures (JPMs) and JPM type sufficient for the projected number and mix of applicants and ensure that no items a duplicated on subsequent days. 		NA	NA					
	 Assess whether the appropriate exam sections cover plant-specific priorities (including probabilistic risk assessment and individual plant examination insights). 								
ب	b. Assess whether the 10 CFR 55.41, 10 CFR 55.43, and 10 CFR 55.45 sampling is appropriate.	Υ	NA	Y					
ENERAL	c. Check whether K/A importance ratings (except for plant-specific priorities) are greater than or equal to 2.5.								
뜅	d. Check for duplication and overlap across the exam and with the last two NRC exams.								
	e. Check the entire exam for balance of coverage.	Υ	NA	Υ					
	f. Assess whether the exam fits the appropriate job level (reactor operator or senior reactor operator).	Y	NA	Y					
II	Printed Name/Signature Date a. AuthorMark A, Bates /Mark A. Bates11/14								
b. Facility Reviewer (*) N/A c. NRC Reviewer (#) Michael Kennard / Michael Kennard 11/14/22									
C. NRC Reviewer (#) Michael Kennard / Michael Kennard 11/14/22 NRC Chief Examiner Michael Kennard / Michael Kennard 11/14/22									
		11/14/22							
<u> </u>	facility licensee signature is not applicable for NRC-developed tests.								

^{*} 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.

Form 2.3-4 Written Examination Quality Checklist

	Facility:	SON		Date of Exa	am: MARCH 2023	Ex	am Level:	ro 💆	d s	RO		
Item Description										(Y)es / (N)o		
1.	Questions and answers are technically accurate and applicable to the facility. Each question									b*	C#	
	includes a te	chnical refer	erence.							11	JPV	_
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. 									8	JPV	
3.	3. Senior reactor operator (SRO) questions test at the SRO license level.									WH	-	
4.	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.)								Op	ď	J₽∨	
5.								@	ď	J₽∨		
6.	10% new (at	the compreh	ension/analy	75% from the b ysis level), and nly question di	the rest new or	Bank	Modified	New 31/-	<u>-</u>	ж	40B	J₽V
7.				776.000.000.000.000.000.000.000.000.000.	e RO exam and			 	GP	0.	35N	
	at least 13 of	the question	is on the SR	O-only portion	of the exam	2010	emory	C/A 40				
	are written at RO/SRO-only			ysis level; ente	er the actual	34	4/ —	412-	0	X	36F 39H	JPV
8.	References/h	andouts pro	vided do not	give away ans	wers or aid in the	eliminati	on of distrac	tors.	0	X	JPV	
9.					s in the previously signed tier; deviat			on	6	X	JPV	
10.					nstructions and gu				Co	λ	JPV	
11.	The exam cor and agrees wi				, multiple-choice i	items; the	total is corr	ect	6	X	JPV	
			^		Name/Signature			***************************************	Date	1. 1		
a.	Author		Havon	Forsha	CELL		_		//	12/	23	
b.	Facility Review	ver (*)	Johnny		y O	Deitally sig	ned by Joseph P. Viera		<u>a</u>	12	23	
C.	NRC Reviewe	r (#)	Joseph P.			Date: 2023.0	3.07 10:31:17 -05'00'					
NR	C Chief Examir	ner	Joseph P.	Viera	Digitally si	Date: 2023.0	ned by Joseph P. Viera 3.07 10:31:45 -05'00'	en				
	NRC Regional Supervisor The facility licensee signature is not applicable for NRC-developed tests. Digitally signed by Thomas A. Stephen Date: 2023.03.10 08:33:13 -05'00' * The facility licensee signature is not applicable for NRC-developed tests.											
# A	# An independent NRC reviewer performs steps in column c. This may be the NRC Chief Examiner if he/she											

Form 5.1-1 Postexamination Check Sheet

Postexamination Check Sheet

Facility: Sequoyah NPP Dates of Examination: 04/03/2023

	Activity Description	Date Complete
1.	*Received postexamination package from facility licensee and verified complete. (ES-4.4)	04/11/2023
2.	*Reviewed and incorporated any necessary facility and applicant written examination comments. NRC grading of written examination completed. (ES-4.4)	04/11/2023
3.	*Reviewed and incorporated any necessary facility and applicant operating test comments. NRC grading of operating test completed. (ES-3.6)	n/a
4.	*Completed NRC chief examiner review of operating test and written examination grading. (ES-3.6 and ES-4.4)	04/11/2023
5.	Completed licensing official review.	5/3/2023
6.	Mailed licenses, preliminary results, and pass letters.	5/3/2023
7.	Notified facility licensee of results.	5/3/2023
8.	Issued the examination report (refer to Operator Licensing Manual Chapter (OLMC) 510, "Operator Licensing Examination Reports").	5/15/2023
9.	Returned reference material after final resolution of any informal NRC staff reviews, hearing demands, or both.	n/a
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").	5/15/2023
Г. —		

^{*} Activity may not be applicable for a retake examination. If this activity does not apply, place an "N/A" in the Date Complete column.