

# COVER SHEET

## SEQUOYAH JPM RETAKE EXAM

50-327, 328/2001-301  
MARCH 14 - 15, 2001

### -- ADMINISTRATIVE DOCUMENTS -- ALL IN ONE ADAMS DOCUMENT

- [ ☒ ] ✓ ES-201-1 - Exam Preparation Checklist
- [ ☒ ] ✓ ES-201-2 - Exam Outline Quality Checklist
- [ ☒ ] ✓ ES-201-3 - Exam Security Agreements
- [ ☒ ] ✓ ES-301-1 - Admin Topics Outline
- [ ☒ ] ✓ *ON DISC* ES-301-2 - Control Room Systems & Facility Walk-through Test Outline
- [ ☒ ] ✓ ES-301-3 - Operating Test Quality Checklist
- [ ☒ ] ✓ ES-301-4 - Simulator Scenario Quality Checklist
- [ ☒ ] ✓ ES-301-5 - Transient & Event Checklist
- [ ☒ ] ✓ ES-301-6 - Competencies Checklist
- [ ☒ ] ✓ ES-401-7 - Written Exam Quality Checklist
- [ ☒ ] ✓ ES-401-9 - Written Exam Review Worksheet
- [ ☒ ] ✓ ES-403-1 - Written Exam Grading Quality Checklist
- [ ☒ ] ✓ ES-501-1 - Post Exam Check Sheet

Facility: <u>Sequoyah Nuclear Plant</u> Date of Exam: <u>March 14-15, 2001</u>		
Examinations Developed by:    Written:    N/A Operating:    Facility		
Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	rfa
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	rfa
-120	3. Facility contact briefed on security & other requirements (C.2.c)	rfa
-120	4. Corporate notification letter sent (C.2.d)	rfa
[-90]	[5. Reference material due (C.1.e; C.3.c)]	rfa
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	rfa
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	rfa
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	rfa
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	rfa
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	rfa
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	rfa
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	rfa
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	N/A
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	rfa
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	N/A
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	N/A
<p>* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.</p> <p>[ ] Applies only to examinations prepared by the NRC.</p>		

Facility: <u>TVA- Sequoyah</u>		Date of Examination: <u>15 Mar 01</u>		
Item	Task Description	Initials		
		a	b*	c
1. W R I T T E N	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	N/A	N/A	N/A
	b. Assess whether the outline was systematically prepared and whether all knowledge and ability categories are appropriately sampled.	N/A	N/A	N/A
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	N/A	N/A	N/A
	d. Assess whether the repetition from previous examination outlines is excessive.	N/A	N/A	N/A
2.  S I M	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, and major transients.	N/A	N/A	N/A
	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; ensure each applicant can be tested using at least one new or significantly modified scenario, that no scenarios are duplicated from the applicants' audit test(s)*, and scenarios will not be repeated over successive days.	MA	N/A	N/A
	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.	N/A	N/A	N/A
3.  W / T	a. Verify that: (1) the outline(s) contain(s) the required number of control room and in-plant tasks, (2) no more than 30% of the test material is repeated from the last NRC examination, (3)* no tasks are duplicated from the applicants' audit test(s), and (4) no more than 80% of any operating test is taken directly from the licensee's exam banks.	SB	RLP	h
	b. Verify that: (1) the tasks are distributed among the safety function groupings as specified in ES-301, (2) one task is conducted in a low-power or shutdown condition, (3) 40% of the tasks require the applicant to implement an alternate path procedure, (4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and (5) the in-plant walk-through requires the applicant to enter the RCA.	SB	RLP	h
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	N/A	N/A	N/A
	d. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on successive days.	SB	RLP	h
4.  G E N E R A L	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	SB	RLP	h
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	SB	RLP	h
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	SB	RLP	h
	d. Check for duplication and overlap among exam sections.	N/A	N/A	N/A
	e. Check the entire exam for balance of coverage.	N/A	N/A	N/A
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	SB	RLP	h
a. Author <u>Gregory S. Potest</u>		Printed Name / Signature		Date <u>2/27/01</u>
b. Facility Reviewer(*) <u>RICHARD F. DREYER</u>		<u>Richard F. Dreyer</u>		<u>2/27/01</u>
c. Chief Examiner <u>Rori Dreyer</u>		<u>Rori Dreyer</u>		<u>2/27/01</u>
d. NRC Supervisor <u>MIKE ERNST</u>		<u>Mike Ernst</u>		<u>2/23/01</u>

(\*) Not applicable for NRC-developed examinations.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 12 Mar 01 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 completion of examination administration, except as specifically noted below and 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 and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 3/12/01. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Gregory S. Poter</u>	<u>SOS-Instructor / Exam Developer</u>	<u>Gregory S. Poter</u>	<u>1/13/01</u>	<u>Gregory S. Poter</u>	<u>3/15/01</u>	
2. <u>William R. Ramsey</u>	<u>SOS Instructor / SPMs</u>	<u>William R. Ramsey</u>	<u>1/30/01</u>	<u>William R. Ramsey</u>	<u>3/15/01</u>	
3. <u>Mike Bercher</u>	<u>SIM</u>	<u>Mike Bercher</u>	<u>1/24/01</u>	<u>Mike Bercher</u>	<u>3/15/01</u>	
4. <u>Michael Peterson</u>	<u>Sim Svcs Mgr</u>	<u>Michael Peterson</u>	<u>1/31/01</u>	<u>Michael Peterson</u>	<u>3/15/01</u>	
5. <u>Tom Lundy</u>	<u>Sim Software Engr</u>	<u>T. Lundy</u>	<u>1/31/01</u>	<u>T. Lundy</u>	<u>3/15/01</u>	
6. <u>NORMAN GOOD</u>	<u>SIM HARDWARE ENGINEER</u>	<u>N. Good</u>	<u>1-31-01</u>	<u>N. Good</u>	<u>3/15/01</u>	
7. <u>Joseph D. Smithson</u>	<u>Sim Verification Engineer</u>	<u>Joseph D. Smithson</u>	<u>1-31-01</u>	<u>Joseph D. Smithson</u>	<u>3/15/01</u>	
8. <u>David M. Breland</u>	<u>Operations Rep</u>	<u>David M. Breland</u>	<u>2-14-01</u>	<u>David M. Breland</u>	<u>3/15/01</u>	
9. <u>RICHARD F. DRISCOLL</u>	<u>SITE TRN MGR</u>	<u>Richard F. Driscoll</u>	<u>2-27-01</u>	<u>Richard F. Driscoll</u>	<u>3/15/01</u>	
10. <u>WALTER W. HUNT</u>	<u>OPS TRN MGR</u>	<u>Walter W. Hunt</u>	<u>3-13-01</u>	<u>Walter W. Hunt</u>	<u>3/15/01</u>	
11. <u>VE KEYSER, JR</u>	<u>SOS INSTRUCTOR</u>	<u>VE Keyser, Jr.</u>	<u>3-13-01</u>	<u>VE Keyser, Jr.</u>	<u>3/15/01</u>	
12. <u>Ricky C. King</u>	<u>SOS Instructor</u>	<u>R. C. King</u>	<u>3-13-01</u>	<u>R. C. King</u>	<u>3/15/01</u>	
13. <u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	
14. <u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	
15. <u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	<u>_____</u>	

NOTES:

## ES-301 Control Room Systems and Facility Walk-Through Test Outline

Form ES-301-2

Facility: Tennessee Valley Authority - Sequoyah  
 Exam Level (circle one): RO / SRO(I) / SRO(U)

Date of Examination: March 15, 2001  
 Operating Test No.: \_\_\_\_\_

## B.1 Control Room Systems

System / JPM Title	Type Code*	Safety Function
a. 128AP, Equipment Checks Following ESF Actuation	D, S, A	5
b. 063AP, SGTR, RCS Depressurization w/fail open sprays	D, S, A, L	3
c. 077, Perform D/G Load Test on 1B-B DG	D, S	6
d. 034, Loss of Secondary Heat Sink	D, S	4P
e. 001AP, Emergency Boration (Stuck Rods)	D, S, A, L	1
f. NRC-2001-1, Steamline Pressure Transmitter Fails, PT-1-33 Fails Low	N, S	7
g. 115-2AP, Respond to ERCW Pump Trip	N, S, A	8

## B.2 Facility Walk-Through

a. 074, Operate the TDAFW Pump Locally	D, PRA	4S
b. 080, Local Control of Charging Flow (FCV-62-93)	D, R	2
c. 098, Locally Align 1B-B CCS Pump to Supply B Train	D, R	8

\* Type Codes: (D)irect from bank, (M)odified from bank, (N)ew, (A)lternate path, (C)ontrol room, (S)imulator, (L)ow-Power, (R)CA

Facility: <u>TVA - Sequoyah</u>		Date of Examination: <u>15 Mar 01</u>		
Operating Test Number: _____				
1. GENERAL CRITERIA		Initials		
		a	b	c
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	SB	RL	JD
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	N/A	N/A	N/A
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	SB	RL	JD
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	N/A	N/A	N/A
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	SB	RL	JD
2. WALK-THROUGH (CATEGORY A & B) CRITERIA		--	--	--
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> <li>· initial conditions</li> <li>· initiating cues</li> <li>· references and tools, including associated procedures</li> <li>· validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee</li> <li>· specific performance criteria that include:               <ul style="list-style-type: none"> <li>- detailed expected actions with exact criteria and nomenclature</li> <li>- system response and other examiner cues</li> <li>- statements describing important observations to be made by the applicant</li> <li>- criteria for successful completion of the task</li> <li>- identification of critical steps and their associated performance standards</li> <li>- restrictions on the sequence of steps, if applicable</li> </ul> </li> </ul>	SB	RL	JD
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	N/A	N/A	N/A
c.	Repetition from operating tests used during the previous licensing examination is within acceptable limits (30% for the walk-through) and do not compromise test integrity.	SB	RL	JD
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	SB	RL	JD
3. SIMULATOR (CATEGORY C) CRITERIA		--	--	--
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	N/A	N/A	N/A
<div style="display: flex; justify-content: space-between;"> <div>           Printed Name / Signature         </div> <div>           Date         </div> </div>				
a. Author	<u>Gregory S. Poter / Gregory S. Poter</u>	<u>2/27/01</u>		
b. Facility Reviewer(*)	<u>RICHARD F. DEISCOLL / Richard F. Deiscoll</u>	<u>2/27/01</u>		
c. NRC Chief Examiner (*)	<u>RON AIELLO / Ron Aiello</u>	<u>2/28/01</u>		
d. NRC Supervisor (*)	<u>MIKE ERNSTES / Mike Ernstes</u>	<u>2/28/01</u>		
(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.				

Sequoyah Nuclear Plant	
Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	N/A
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	N/A
3. Operating tests graded by NRC examiners	3/19/01
4. NRC Chief examiner review of written exam and operating test grading completed	3/19/01
5. Responsible supervisor review completed	3/19/01
6. Management (licensing official) review completed	3/19/01
7. License and denial letters mailed	N/A
8. Facility notified of results	3/20/01
9. Examination report issued (refer to NRC MC 0610)	3/22/01
10. Reference material returned after final resolution of any appeals	N/A