

Administrative Documents

MCGUIRE OCTOBER 2003 EXAM 50-369 & 50-37012003-302

OCTOBER 21, 2003

- ✓1. Exam Preparation Checklist ES-201-1 ✓
- ✓2. Exam Outline Quality Checklist ES-201-2 ✓
- ✓3. Exam Security Agreement ES-201-3 ✓
4. ~~M/K~~ Administrative Topics Outline (Final) ES-301-1 ~~pt 1~~
5. ~~M/K~~ Control Room Systems and Facility Walk-through Test Outline
(Final) ES-301-2
6. ~~M/K~~ Operating Pest Quality Check Sheet ES-301-3
7. ~~M/K~~ Simulator Scenario Quality Check Sheet ES-301-4
8. ~~M/K~~ Transient and Event Checklist ES-301-5
9. ~~M/K~~ Competencies Checklist ES-301-6
- ✓10. Written Exam Quality Check Sheet ES-401-~~8~~ ✓
- ✓11. Written Exam Review Worksheet ES-401-9 ✓
- ✓12. Written Exam Grading Quality Checklist ES-403-1 ✓
- ✓13. Post-Exam Check Sheet ES-501-1 ✓

Facility: McGeorgeDate of Examination: 10/21/03Examinations Developed by: Facility / NRC (circle one)

Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	ATW
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.b)	ATW
-120	3. Facility contact briefed on security & other requirements (C.2.c)	ATW
-120	4. Corporate notification letter sent (C.2.d) <u>8/25/03</u>	ATW
[-90]	[5. Reference material due (C.1.e; C.3.c)]	ATW
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d) <u>NRC 10/20/03</u>	ATW
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	ATW
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.f)	ATW
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	ATW
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	ATW
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.g) <u>10/2/03</u>	ATW
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	ATW
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	ATW
	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g; ES-204)	ATW
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	ATW
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	N/A

* 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.

9 Applies only to examinations prepared by the NRC.

Facility:		Date of Examination: 10/21/03		
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.	CL	JWA	AM
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all K/A categories are appropriately sampled.	CL	JWA	AM
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	CL	JWA	AM
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	CL	JWA	AM
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.			
	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 on subsequent days.			
	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.			
3. W /	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.			
	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) 4-6 (2 - 3 for SRO-U) of the tasks require the applicant to implement an alternate path procedure, (4) the 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.			
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.			
	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 subsequent days.			
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.	CL	JWA	AM
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	CL	JWA	AM
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	CL	JWA	AM
	d. Check for duplication and overlap among exam sections.	CL	JWA	AM
	e. Check the entire exam for balance of coverage.	CL	JWA	AM
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	CL	JWA	AM
a. Author		CHARLES W. SAWYER Sr. / Charles W. Sawyer		Date
b. Facility Reviewer (*)		JERRY W. RUFFELT / Jerry W. Ruffelt		10/13/03
c. NRC Chief Examiner (#)		GEORGE T. HOPPER / George T. Hopper		10/15/03
d. NRC Supervisor		MICHAEL E. ERNITES / Michael E. Ernites		10/16/03

Note: * Not applicable for NRC-developed examinations.
Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of Oct 21, 2003 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 Oct 21, 2003 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. CHARLES SAWYER	INSTRUCTOR / EXAM WRITER	<i>Charles Sawyer</i>	8-4-03	<i>Charles Sawyer</i>	10-21-03	
2. EDDIE L. ROBERTS	SUPER. OPS TRNG. / SUPER.	<i>Eddie L. Roberts</i>	8/4/03	<i>Eddie L. Roberts</i>	10/21/03	
3. Alan Orton	MANAGER OF TRNG / EXAM WRITER	<i>Alan Orton</i>	5/4/07	<i>Alan Orton</i>	10/21/03	
4. John Zelm	Instructor / Exam writer	<i>John Zelm</i>	8/5/03	<i>John Zelm</i>	10/21/03	
5. Rob Billings	Instructor / Exam writer	<i>Rob Billings</i>	8-7-03	<i>Rob Billings</i>	10-21-03	
6. ROBBY POPE	SUP OPS TRNG / SUPER	<i>Robby Pope</i>	8-27-03	<i>Robby Pope</i>	10-22-03	
7. Newton A Smith, III	SRG / EXAM WRITER / SRO	<i>Newton A Smith, III</i>	8/29/03	<i>Newton A Smith, III</i>	11/6/03	
8. Tony Cook	SRO / EXAM WRITER / SRO	<i>Tony Cook</i>	8/29/03	<i>Tony Cook</i>	11/10/03	
9. JASON MCALLISTER	OPS TRNG / SRO / Kernal	<i>Jason McAllister</i>	9-2-03	<i>Jason McAllister</i>	11-2-03	
10. JERRY RUMFELT	OPS TRNG / SRO / SRO	<i>Jerry Rumfelt</i>	9-2-03	<i>Jerry Rumfelt</i>	11-2-03	
11. Catherine Sivaterk	SRO - STA	<i>Catherine Sivaterk</i>	9-2-03	<i>Catherine Sivaterk</i>	11-19-03	
12. STEVEN HELMS	INSTRUCTOR	<i>Steven Helms</i>	9-9-03	<i>Steven Helms</i>	10-21-03	
13. Allen Berck	Instructor	<i>Allen Berck</i>	9-12-03	<i>Allen Berck</i>	11/25/03	
14. Rebecca L. Hasty	Instructor / Emerg Plng	<i>Rebecca L. Hasty</i>	9-16-03	<i>Rebecca L. Hasty</i>	10-21-03	
15. Gordon Fung	SRO / SRO	<i>Gordon Fung</i>	10-8-07	<i>Gordon Fung</i>	11-12-03	
Andrew Garrett	STA / SRO / SRO	<i>Andrew Garrett</i>	10-8-03	<i>Andrew Garrett</i>	11-12-03	

NOTES:

Facility:		Date of Exam:		Exam Level: RO/SRO			
Item Description				Initial			
				b*	c*		
1.	Questions and answers technically accurate and applicable to facility			CB	JWR	AB	
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			CB	JWR	AB	
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			CB	JWR	AB	
4.	Question selection and duplication from the last two NRC licensing exams appears consistent with a systematic sampling process			CB	JWR	AB	
5.	Question duplication from the license 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; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input checked="" type="checkbox"/> the examinations were developed independently; or <input type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)			CB	JWR	AB	
6.	Bank use meets limits (no more than 75 percent from the bank at least 10 percent new, and the rest modified); enter the actual RO/SRO-only question distribution(s) at right	Bank	Modified	New	CB	JWR	AB
		19	13	13			
7.	Between 50 and 60 percent of the questions on the RO exam (including 10 new questions) are written at the comprehension/analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right	Memory	C/A		CB	JWR	AB
		19 17	16 13				
8.	References/handouts provided do not give away answers			CB	JWR		
9.	Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the Tier to which they are assigned; deviations are justified			CB	JWR	AB	
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			CB	JWR	AB	
11.	The exam contains 400 the required number of one-point, multiple choice items; the total is correct and agrees with value on cover sheet			CB	JWR	AB	
a. Author		Printed Name / Signature			Date		
b. Facility Reviewer (*)		CHARLES W. SAWYER, Sr / Charles W. Sawyer Jr			9-10-03		
c. NRC Chief Examiner (#)		JERRY W. RUMFELT / Jerry W. Rumbert			9-10-03		
d. NRC Regional Supervisor		GEORGE T. HOPPER / George T. Hopper			10-15-03		
		MICHAEL E. GANSTER / Michael E. Ganster			10-16-03		
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c," chief examiner concurrence required.							

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws					5. Other		6. U/E/S	7. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q=K/A	SRO Only				
1	H	3				d									U g	d is not an "action" taken by the operator. Check math on hours worked. Ensure turnover time was subtracted since that does not count as hours worked.	
2	H	1	x												E	Do not need stem to answer question. Slight mod will test ECA 0.0 restriction and raise LOD to 2.	
3	H	3					a				X				E	Need to check if answer is allowed by RIS. Why is initial wind speed not stated ? Do not know if deposition occurred in sector D. See EP/	
4	F	2													S		
5	F	2													S	distractor analysis not use 'u'	
6	H	3										X			U	Question does not match K/A . Outline is G 2.4.50 not EA 2.1 However, original K/A is not 43.x designated so must be replaced on outline.	
7	F	2				c											Add the word "approximately" to the distractors with time elements. Remove "will" from distractor c.
8	FF	2										X			U S	Question is what is 1 st step in RNO. Not higher level. WA is 2 parts. Question deals with procedure usage only. Rewrote.	
9	F	2													S		
10	F	2											X		E	Edit question data K/A wrong missing 073 , 2 correct answers indicated, Why SRO only? - <i>basis of procedure</i>	
11	F(h)	3				d							X		E	Need to elevate to SRO level (dual K/A). d not plausible	
12	H	3					a						X	<i>EU</i>		Distractor analysis indicates answer should be a not b. SRO only ?	
13	H(F)	2													S	Not comprehensive	
14	H					a							X		E	Explain distractor a . SRO ? <i>procedure selection</i>	
15	H	3		a,b											E	Explain distractors. Distractors must be complete action statements, not partial	
16	H														S	Explain d	

[illegible]

Facility: <u>McGuire</u>		Date of Exam: <u>10/21/03</u>		Exam Level: <u>RO/SRO</u> <i>re-take</i>	
Item Description		Initials			
		a	b	c	
1.	Clean answer sheets copied before grading	CS	JWR	APR	
2.	Answer key changes and question deletions justified and documented <i>Q was #6</i>	CS	JWR	APR	
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	CS	JWR	APR	
4.	Grading for all borderline cases (80 +/- 2% overall and 70 +/- 4% on the SRO-only) reviewed in detail	CS	JWR	N/A	
5.	All other failing examinations checked to ensure that grades are justified	N/A	N/A	N/A	
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	CS	JWR	APR	
Printed Name / Signature		Date			
a.	Grader <u>CSAWAN / [Signature]</u>	<u>10-21-03</u>			
b.	Facility Reviewer(*) <u>[Signature]</u>	<u>10-21-03</u>			
c.	NRC Chief Examiner (*) <u>[Signature]</u>	<u>10/24/03</u>			
d.	NRC Supervisor (*) <u>MICHAEL E. EMMES / [Signature]</u>	<u>10/24/03</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	10/24/03
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	10/24/03
3. Operating tests graded by NRC examiners	N/A
4. NRC Chief examiner review of written exam and operating test grading completed	10/24/03
5. Responsible supervisor review completed	10/24/03
6. Management (licensing official) review completed	10/24/03
7. License and denial letters mailed	10/24/03
8. Facility notified of results	10/24/03
9. Examination report issued (refer to NRC MC 0612)	11/10/03
10. Reference material returned after final resolution of any appeals	N/A