

## Ops Branch Assignment Check Sheet:

as of: 09/28/99

(Includes ES-201-1 &amp; ES-501-1 Rev. 8 information)

Chief: M MURPHY

Facility/Task: GG IN

Task Start Date: ~~04/03/00~~

05/22/00

ITEM DESCRIPTION	DUE DATE	INIT	DATE
0 Exam Schedule Agreement (C.1.a;C.2.a&b)	10/06/99	JLP	09/28/99
1 NRC Staff & Fac. Contact Assigned (C.1.c;C.2.e)	10/06/99	JLP	09/28/99
2 Fac. contact briefed on security & other issues (C.2.c)	10/06/99	JLP	09/28/99
3 Corp. Notification Ltr Sent (C.2.d) (Also for PIR/CAP)	10/06/99	<i>JLP</i>	10/7/99 *
4 Task Expectations, Issues, & Standards Discussed w/ BC	01/04/00	<i>JLP</i>	Various
5 [Reference Material Due (C.1.d;C.3.c)]	01/04/00	N/A	N/A
6 Integrated Exam Outlines Due (C.1.d&e;C.3.d)	12/05/99	<i>JLP</i>	12/13/99
7 Outlines reviewed by NRC & Feedback Sent (c.2.h;C.3.e)	12/09/99	<i>JLP</i>	12/15/99
8 Preliminary Appl. Due (C.1.j;C.2.g;ES202)	03/04/00	<i>JLP</i>	5/2/00
9 Draft Exams w/ Doc./Ref. Due (C.1.d/e/f;C.3.d)	<del>02/03/00</del> 01/24/00	<i>JLP</i>	2/3/00
10 Peer Reviewer Initials As Reviewed All Parts	02/13/00	<i>JLP</i>	2/18/00
11 NRC Suprv. Initials Approving for Fac. Rev. (C.2.h;C.3.f)	02/13/00	<i>JLP</i>	2/18/00
12 Exams Reviewed w/ Fac. (C.1.h;C.2.f&h;C.3.g)	02/13/00	<i>JLP</i>	2/22/00
13 Final Appl. Due & Assign. Sheet Prep'd (C.1.j;C.2.h;ES202)	<del>03/20/00</del> 05/08/00	<i>JLP</i>	5/8/00
14 NRC Suprv. Initials For Final Exams Approved (C.2.i;C.3.h)	03/27/00	<i>JLP</i>	5/12/00
15 Final Appl. Rec'd & Waivers Sent (C.2.g)	03/27/00	<i>JLP</i>	5/15/00
16 Proctor Rules Rev'd w/ Fac. & Written Authorized (C.3.k)	03/27/00	<i>JLP</i>	5/15/00
17 Exam/Insp Mat'l to Team (C.3.i)	03/27/00	<i>JLP</i>	5/15/00
18 Fac. graded exam & Comments Rec'd	04/15/00	<i>JLP</i>	6/5/00
19 NRC Written Grading Completed	04/18/00	<i>JLP</i>	6/6/00
20 Examiners Finished Grading Op. Tests	04/18/00	<i>JLP</i>	6/2/00
21 NRC Ch. Ex. Review Completed	04/28/00	<i>JLP</i>	6/6/00
22 NRC BC Review Completed	04/29/00	<i>JLP</i>	6/6/00
23 Lic./Denials Signed & Report Issued	<del>05/10/00</del> 6/22/00	<i>JLP</i>	6/27/00
24 Package Closed Out - Lessons Learned Debriefed & Filed ✓ - Final Inspection Report Issued ✓ - Exam Package to OLA ✓ - Fac. Contact Notified of Results ✓	<del>05/25/00</del> 7/15/00	<i>JLP</i>	7/15/00

\* Note Supv/Peer initials required.

New edition for PIR/CAP as of 9/28/99

[] Req'd NRC-auth. exams only.

When complete, for exams, add

to pkg &amp; fwd copy to BC, for

insp, fwd orig'l to BC.

Facility: <b>GRAND GULF NUCLEAR STATION</b>		Date of Examination: <b>04/3/2000</b>		
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.	nl	SP	SP
	b. Assess whether the outline was systematically prepared and whether all knowledge and ability categories are appropriately sampled.	nl	SP	SP
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	nl	SP	SP
	d. Assess whether the repetition from previous examination outlines is excessive.	nl	SP	SP
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.	nl	SP	SP
	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.	nl	SP	SP
	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.	nl	SP	SP
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.	nl	SP	SP
	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.	nl	SP	SP
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	nl	SP	SP
	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.	nl	SP	SP
	e. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	nl	SP	SP
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.	nl	SP	SP
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	nl	SP	SP
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	nl	SP	SP
	d. Check for duplication and overlap among exam sections.	nl	SP	SP
	e. Check the entire exam for balance of coverage.	nl	SP	SP
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	nl	SP	SP
a. Author <u>Michael K. Rasch</u>		Printed Name / Signature <u>Michael K. Rasch</u>		Date <u>11/29/99</u>
b. Facility Reviewer(*) <u>Gregory L Sparks</u>		<u>Gregory L Sparks</u>		<u>11/30/99</u>
c. Chief Examiner <u>M.E. MURPHY</u>		<u>M.E. MURPHY</u>		<u>12/15/99</u>
d. NRC Supervisor <u>J. Pellet</u>		<u>J. Pellet</u>		<u>12/18/99</u>

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

Facility: <b>GRAND GULF NUCLEAR STATION</b> Date of Exam: <b>MARCH 31, 2000</b> Exam Level: RO/SRO						
Item Description				Initial		
				a	b*	c*
1. Questions and answers technically accurate and applicable to facility				ML	8	2000
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available				ML	8	2000
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401				ML	8	2000
4. No more than 25 questions are duplicated from [practice exams, quizzes, and] the last two NRC licensing exams; enter the actual number of duplicated questions at right				ML	8	2000
		NRC	Other			
		0	2			
5. [No (Less than 5 percent) question duplication from the license screening/audit exam (if independently written)]				ML N/A	8 N/A	2000 N/A
6. Bank use meets limits (no more than 50 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right				ML	8	2000
		Bank	Modified			
		3	6	91		
7. Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right				ML	8	2000
		Memory	C/A			
		47	53			
8. References/handouts provided do not give away answers				ML	8	2000
9. Question distribution meets previously approved examination outline; deviations are justified				ML	8	2000
10. Question psychometric quality and format meet ES, Appendix B, guidelines				ML	8	2000
11. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet				ML	8	2000
Printed Name / Signature				Date		
a. Author <u>MICHAEL K. RASCH</u> <i>Michael K Rasch</i>				1/25/2000		
b. Facility Reviewer(*) <u>Gregory L Sparks</u> <i>Gregory L Sparks</i>				1-25-00		
c. NRC Chief Examiner(*) <u>MICHAEL E. MURPHY</u> <i>Michael E Murphy</i>				2-15-00		
d. NRC Regional Supervisor(*) <u>H. F. Bundy</u> <i>H. F. Bundy</i>				2/18/00		
<p>Note: * The facility reviewer's signature is not applicable for NRC-developed examinations; two independent NRC reviews are required.</p> <p># See special instructions (Section E.2.c) for Items 1, 4, 5, and 6.</p> <p>[] The items in brackets do not apply to NRC-prepared examinations.</p>						

Facility: <b>GRAND GULF NUCLEAR STATION</b> Date of Exam: <b>MARCH 31, 2000</b> Exam Level: <b>RO/SRO</b>																										
Item Description				Initial																						
				A	b*	c*																				
1.	Questions and answers technically accurate and applicable to facility			ML	K	ML																				
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			ML	K	ML																				
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			ML	K	ML																				
4.	No more than 25 questions are duplicated from [practice exams, quizzes, and] the last two NRC licensing exams; enter the actual number of duplicated questions at right	NRC	Other	ML	K	ML																				
0		1																								
5.	[No (Less than 5 percent) question duplication from the license screening/audit exam (if independently written)]			ML N/A	K N/A	ML N/A																				
6.	Bank use meets limits (no more than 50 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank	Modified	ML	K	ML																				
2		7	91																							
7.	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory	C/A	ML	K	ML																				
49		51																								
8.	References/handouts provided do not give away answers			ML	K	ML																				
9.	Question distribution meets previously approved examination outline; deviations are justified			ML	K	ML																				
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			ML	K	ML																				
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			ML	K	ML																				
<table border="0"> <thead> <tr> <th colspan="3">Printed Name / Signature</th> <th>Date</th> </tr> </thead> <tbody> <tr> <td>a. Author</td> <td><u>MICHAEL K. RASCH</u></td> <td><u>Michael K. Rasch</u></td> <td><u>1/25/2000</u></td> </tr> <tr> <td>b. Facility Reviewer(*)</td> <td><u>Gregory Spikes</u></td> <td><u>Gregory Spikes</u></td> <td><u>1-25-00</u></td> </tr> <tr> <td>c. NRC Chief Examiner(*)</td> <td><u>MICHAEL E. MURPHY</u></td> <td><u>Michael E. Murphy</u></td> <td><u>2/15/00</u></td> </tr> <tr> <td>d. NRC Regional Supervisor(*)</td> <td><u>H.F. Bundy</u></td> <td><u>H.F. Bundy</u></td> <td><u>3/1/00</u></td> </tr> </tbody> </table>							Printed Name / Signature			Date	a. Author	<u>MICHAEL K. RASCH</u>	<u>Michael K. Rasch</u>	<u>1/25/2000</u>	b. Facility Reviewer(*)	<u>Gregory Spikes</u>	<u>Gregory Spikes</u>	<u>1-25-00</u>	c. NRC Chief Examiner(*)	<u>MICHAEL E. MURPHY</u>	<u>Michael E. Murphy</u>	<u>2/15/00</u>	d. NRC Regional Supervisor(*)	<u>H.F. Bundy</u>	<u>H.F. Bundy</u>	<u>3/1/00</u>
Printed Name / Signature			Date																							
a. Author	<u>MICHAEL K. RASCH</u>	<u>Michael K. Rasch</u>	<u>1/25/2000</u>																							
b. Facility Reviewer(*)	<u>Gregory Spikes</u>	<u>Gregory Spikes</u>	<u>1-25-00</u>																							
c. NRC Chief Examiner(*)	<u>MICHAEL E. MURPHY</u>	<u>Michael E. Murphy</u>	<u>2/15/00</u>																							
d. NRC Regional Supervisor(*)	<u>H.F. Bundy</u>	<u>H.F. Bundy</u>	<u>3/1/00</u>																							
<p>Note: * The facility reviewer's signature is not applicable for NRC-developed examinations; two independent NRC reviews are required.</p> <p># See special instructions (Section E.2.c) for Items 1, 4, 5, and 6.</p> <p>[ ] The items in brackets do not apply to NRC-prepared examinations.</p>																										

Facility: <b>GRAND GULF NUCLEAR STATION</b>		Date of Examination: <b>04/03/2000 – 04/06/2000</b>		
<b>1. GENERAL CRITERIA</b>		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).	ML	JP	JP
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	ML	JP	JP
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	ML	JP	N/A
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	ML	JP	JP
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	ML	JP	JP
<b>2. WALK-THROUGH (CATEGORY A &amp; B) CRITERIA</b>				
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>	ML	JP	JP
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.	ML	JP	JP
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	ML	JP	JP
<b>3. SIMULATOR (CATEGORY C) CRITERIA</b>				
a.	The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.	ML	JP	JP
Printed Name/Signature		Date		
a. Author	Michael K. Rasch / Michael K. Rasch	1/25/2000		
b. Facility Reviewer(*)	Gregory Sparks / Gregory Sparks	1-26-00		
c. NRC Chief Examiner (*)	M. E. Murphy / M. E. Murphy	2/17/00		
d. NRC Supervisor (*)	H. E. Bundy / H. E. Bundy	2/18/00		
(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.				

Facility: **GRAND GULF NUCLEAR STATION** Date of Exam: **04/03/2000 – 04/06/2000**Scenario Numbers: **1 / 2 / 3**

QUALITATIVE ATTRIBUTES		Initials		
		a	b	c
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.	ml	g	msmt
2.	The scenarios consist mostly of related events.	ml	g	msmt
3.	Each event description consists of <ul style="list-style-type: none"> <li>the point in the scenario when it is to be initiated</li> <li>the malfunction(s) that are entered to initiate the event</li> <li>the symptoms/cues that will be visible to the crew</li> <li>the expected operator actions (by shift position)</li> <li>the event termination point (if applicable)</li> </ul>	ml	g	msmt
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.	ml	g	msmt
5.	The events are valid with regard to physics and thermodynamics.	ml	g	msmt
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	ml	g	msmt
7.	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.	ml	g	msmt
8.	The simulator modeling is not altered.	ml	g	msmt
9.	The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	ml	g	msmt
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.4 of ES-301.	ml	g	msmt
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	ml	g	msmt
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	ml	g	msmt
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	ml	g	msmt
<b>TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)</b>		<b>1</b>	<b>2</b>	<b>3</b>
		<b>Actual Attributes</b>		
1.	Total malfunctions (5-8)	8 / 8 / 9	ml	g
2.	Malfunctions after EOP entry (1-2)	4 / 4 / 3	ml	g
3.	Abnormal events (2-4)	2 / 3 / 2	ml	g
4.	Major transients (1-2)	1 / 1 / 1	ml	g
5.	EOPs entered/requiring substantive actions (1-2)	2 / 2 / 2	ml	g
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 0	ml	g
7.	Critical tasks (2-3)	2 / 5 / 2	ml	g

Facility: **GRAND GULF NUCLEAR STATION** Date of Exam: **04/03/2000 – 04/06/2000**Scenario Numbers: **BACKUP SCENARIOS 1 / 2** (Scenarios 4 & 5)

QUALITATIVE ATTRIBUTES		Initials		
		a	b	c
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.	ml	g	msm
2.	The scenarios consist mostly of related events.	ml	g	msm
3.	Each event description consists of <ul style="list-style-type: none"> <li>the point in the scenario when it is to be initiated</li> <li>the malfunction(s) that are entered to initiate the event</li> <li>the symptoms/cues that will be visible to the crew</li> <li>the expected operator actions (by shift position)</li> <li>the event termination point (if applicable)</li> </ul>	ml	g	msm
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated into the scenario without a credible preceding incident such as a seismic event.	ml	g	msm
5.	The events are valid with regard to physics and thermodynamics.	ml	g	msm
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	ml	g	msm
7.	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.	ml	g	msm
8.	The simulator modeling is not altered.	ml	g	msm
9.	The scenarios have been validated. Any open simulator performance deficiencies have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	ml	g	msm
10.	Every operator will be evaluated using at least one new or significantly modified scenario. All other scenarios have been altered in accordance with Section D.4 of ES-301.	ml	g	msm
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	ml	g	msm
12.	Each applicant will be significantly involved in the minimum number of transients and events specified on Form ES-301-5 (submit the form with the simulator scenarios).	ml	g	msm
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	ml	g	msm
<b>BACKUP SCENARIOS</b>		<b>4</b>	<b>5</b>	
<b>TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)</b>		<b>Actual Attributes</b>		
1.	Total malfunctions (5-8)	8 / 4	ml	g
2.	Malfunctions after EOP entry (1-2)	4 / 1	ml	g
3.	Abnormal events (2-4)	2 / 2	ml	g
4.	Major transients (1-2)	1 / 2	ml	g
5.	EOPs entered/requiring substantive actions (1-2)	2 / 2	ml	g
6.	EOP contingencies requiring substantive actions (0-2)	1 / 2	ml	g
7.	Critical tasks (2-3)	3 / 5	ml	g

GRAND GULF NUCLEAR STATION

DATES: 04/03/2000 – 04/06/2000

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			BOP 1	ATC 2	BOP 3	TOTAL
RO	Reactivity	1	0	1	0	1
	Normal	1	0	1	1	2
	Instrument	2	2	2	0	4
	Component	2	3	2	2	7
	Major	1	1	1	1	3

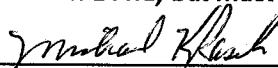
As RO	Reactivity	1				
	Normal	0				
	Instrument	1				
	Component	1				
	Major	1				
SRO-I						
As SRO	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	Major	1				

SRO-U	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	Major	1				

- Instructions: (1)  
(2)

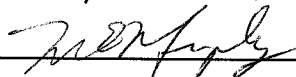
Enter the operating test number and Form ES-D-1 event numbers for each evolution type.  
Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author:



MICHAEL K. RASCH

Chief Examiner:





GRAND GULF NUCLEAR STATION

DATES: 04/03/2000 - 04/06/2000

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			SS 1	BOP 2	ATC 3	TOTAL
RO	Reactivity	1				
	Normal	1				
	Instrument	2				
	Component	2				
	Major	1				

As RO	Reactivity	1		0	1	1
	Normal	0		0	0	0
	Instrument	1		1	1	2
	Component	1		1	1	2
	Major	1		1	1	2
<div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;"> <b>SRO-I 1&amp;2</b> </div>						
As SRO	Reactivity	0	0			0
	Normal	1	1			1
	Instrument	1	2			2
	Component	1	3			3
	Major	1	1			1

SRO-U	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	Major	1				

Instructions: (1)

Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

(2)

Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author:

*Michael K. Rasch*

MICHAEL K. RASCH

Chief Examiner:

*R. Murphy*

GRAND GULF NUCLEAR STATION

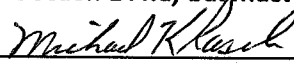
DATES: 04/03/2000 – 04/06/2000

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			ATC 1	SS 2	SS 3	TOTAL
RO	Reactivity	1				
	Normal	1				
	Instrument	2				
	Component	2				
	Major	1				
As RO  <div style="border: 1px solid black; border-radius: 50%; padding: 5px; display: inline-block;">SRO-I 3&amp;4</div>  As SRO	Reactivity	1	1			1
	Normal	0	1			1
	Instrument	1	1			1
	Component	1	1			1
	Major	1	1			1
	Reactivity	0		0	0	0
	Normal	1		1	1	2
	Instrument	1		2	1	3
	Component	1		3	3	6
	Major	1		1	1	2
SRO-U	Reactivity	0				
	Normal	1				
	Instrument	1				
	Component	1				
	Major	1				

Instructions: (1)  
(2)

Enter the operating test number and Form ES-D-1 event numbers for each evolution type.  
Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author:



MICHAEL K. RASCH

Chief Examiner:



## GRAND GULF NUCLEAR STATION

DATES: 04/03/2000 – 04/06/2000

## BACK UP SCENARIOS

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			4	5		
RO ATC	Reactivity		1	1		
	Normal		0	1		
	Instrument		1	1		
	Component		1	0		
	Major		1	2		
As RO BOP	Reactivity		0	0		
	Normal		1	0		
	Instrument		1	0		
	Component		3	1		
	Major		1	2		
SRO-I  As SRO SS	Reactivity		0	0		
	Normal		1	1		
	Instrument		2	1		
	Component		4	1		
	Major		1	2		
SRO-U	Reactivity					
	Normal					
	Instrument					
	Component					
	Major					

Instructions: (1)

Enter the operating test number and Form ES-D-1 event numbers for each evolution type.

(3)

Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.4.d) but must be significant per Section C.2.a of Appendix D.

Author:

*Michael K. Rasch*

Michael K. Rasch

Chief Examiner:

*Michael K. Rasch*

GRAND GULF NUCLEAR STATION

DATES: 04/03/2000 – 04/06/2000

Competencies	Applicant #1 RO/SRO-I/SRO-U			Applicant #2 RO/SRO-I/SRO-U			Applicant #3 RO/SRO-I/SRO-U		
	SCENARIO			SCENARIO			SCENARIO		
	BOP 1	ATC 2	BOP 3	SS 1	BOP 2	ATC 3	ATC 1	SS 2	SS 3
Understand and Interpret Annunciators and Alarms	4, 6	3, 4, 5, 7	4, 5	1, 3, 4, 5, 6, 7	5, 9	3	1, 3, 4	3, 4, 5, 7, 9	3, 4
Diagnose Events and Conditions	4, 8, 9	4, 5, 7, 8	4, 5, 8	3, 4	5, 9	7	4, 7	4, 5, 7, 8, 9	3, 4, 5, 7, 8
Understand Plant and System Response	3, 4, 6, 7, 8	1, 2	2, 8	3, 4, 6, 7	7, 9	1, 7	1, 2, 3	1, 2, 7, 9	1, 3, 5, 6, 8
Comply With and Use Procedures (1)	3, 4, 6	1 – 8	2, 4	ALL	5, 7	1, 3, 6	1, 2, 3, 4	ALL	ALL
Operate Control Boards (2)	3, 6, 7, 8, 9	1, 2, 3, 6, 7, 8	2, 4, 5, 8	N/A (4)	7, 8, 9	1, 3, 6, 7, 8	1, 2, 3, 5, 7	N/A (4)	N/A (4)
Communicate and Interact With the Crew	4, 6, 8, 9	1 - 8	2, 4, 5	ALL	5, 7, 9	1, 3	1, 2, 3, 4, 5, 7	ALL	ALL
Demonstrate Supervisory Ability (3)	N/A	N/A	N/A	ALL	N/A	N/A	N/A	ALL	ALL
Comply With and Use Tech. Specs. (3)	N/A	N/A	N/A	3, 4	N/A	N/A	N/A	3	4

## Notes:

- (1) Includes Technical Specification compliance for an RO.
- (2) Optional for an SRO-U.
- (3) Only applicable to SROs.
- (4) Only applicable to RO positions at GGNS.

## Instructions:

Circle the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Author:

*Michael K. Rasch*

MICHAEL K. RASCH

Chief Examiner:

*John J. [Signature]*

GRAND GULF NUCLEAR STATION

DATES: 04/03/2000 – 04/06/2000

<b><u>BACKUP SCENARIOS</u></b>  Competencies	Applicant #1 RO/SRO-I/SRO-U		Applicant #2 RO/SRO-I/SRO-U		Applicant #3 RO/SRO-I/SRO-U	
	SCENARIO		SCENARIO		SCENARIO	
	ATC 4	ATC 5	BOP 4	BOP 5	SS 4	SS 5
Understand and Interpret Annunciators and Alarms	3, 4, 5	2, 5, 6	1, 6, 7, 8, 9	4	1, 3, 4, 5, 6, 7, 8, 9	2, 4, 5, 6
Diagnose Events and Conditions	3, 5	2, 5	5, 6, 7, 8, 9	4	3, 4, 5, 6	2, 4, 5, 6
Understand Plant and System Response	3, 4	5, 6	1, 5	4, 5	3, 4, 5	2, 4, 5, 6
Comply With and Use Procedures (1)	2, 3, 4, 5	1, 2, 3, 6	1, 6	5, 6	ALL	ALL
Operate Control Boards (2)	2, 3, 4, 5	1, 2, 3, 5, 6	1, 6	4, 5, 6	N/A (4)	N/A (4)
Communicate and Interact With the Crew	2, 3, 5	1, 2, 3, 5, 6	1, 6, 7, 8, 9	4, 5, 6	ALL	ALL
Demonstrate Supervisory Ability (3)	N/A	N/A	N/A	N/A	ALL	ALL
Comply With and Use Tech. Specs. (3)	N/A	N/A	N/A	N/A	1	4

Notes:

(1) Includes Technical Specification compliance for an RO.  
 (2) Optional for an SRO-U.  
 (3) Only applicable to SROs.  
 (4) Only applicable to ROs at GGNS.

## Instructions:

Circle the applicant's license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Author:

Chief Examiner:

Michael K. Asch      MICHAEL K. ASCH  
[Signature]

Facility: <u>GRAND GULF NUCLEAR STATION</u> Date of Exam: <u>19 May 2000</u> Exam Level: <u>RO/SRO</u>			
Item Description	Initials		
	a	b	c
1. Answer key changes and question deletions justified and documented	ML	<i>[Signature]</i>	<i>[Signature]</i>
2. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	ML	<i>[Signature]</i>	<i>[Signature]</i>
3. Grading for all borderline cases (80% +/- 2%) reviewed in detail	ML	<i>[Signature]</i>	<i>[Signature]</i>
4. All other failing examinations checked to ensure that grades are justified	ML	<i>[Signature]</i>	<i>[Signature]</i>
5. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	ML	<i>[Signature]</i>	<i>[Signature]</i>
Printed Name / Signature		Date	
a. Grader	<u>Michael K. Rasch</u> <i>Michael K. Rasch</i>	<u>5/30/2000</u>	
b. Facility Reviewer(*)	<u>Gregory L. Sparks</u> <i>Gregory L. Sparks</i>	<u>5-30-2000</u>	
c. NRC Chief Examiner (*)	<u>MICHAEL E. MURPHY</u> <i>Michael E. Murphy</i>	<u>6/6/2000</u>	
d. NRC Supervisor (*)	<u>J. Pellet</u> <i>John Pellet</i>	<u>6/6/2000</u>	
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.			

Facility: <u>GRAND GULF NUCLEAR STATION</u>		Date of Exam: <u>19 May</u>		Exam Level: <u>RO/SRO</u>	
Item Description	Initials				
	a	b	c		
1. Answer key changes and question deletions justified and documented	<i>ml</i>	<i>J</i>	<i>msmt</i>		
2. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	<i>ml</i>	<i>J</i>	<i>msmt</i>		
3. Grading for all borderline cases (80% +/- 2%) reviewed in detail	<i>ml</i>	<i>J</i>	<i>msmt</i>		
4. All other failing examinations checked to ensure that grades are justified	<i>ml</i>	<i>J</i>	<i>msmt</i>		
5. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	<i>ml</i>	<i>J</i>	<i>msmt</i>		
Printed Name / Signature		Date			
a. Grader	<u>Michael R. Rasch</u> <i>Michael R. Rasch</i>	<u>5/30/2000</u>			
b. Facility Reviewer(*)	<u>Gregory L. Sparks</u> <i>Gregory L. Sparks</i>	<u>5-30-00</u>			
c. NRC Chief Examiner (*)	<u>Michael E. Murphy</u> <i>Michael E. Murphy</i>	<u>6/6/2000</u>			
d. NRC Supervisor (*)	<u>J. Pellet</u> <i>John Pellet</i>	<u>6/6/2000</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

06/28/2000

08:47:58

Report 21

## Operator Licensing Exam Schedule

From 10/01/1999 To 09/30/2000

Region: 4

Phase Code: 5 Operational

Exam Week	Site/Docket No./Insp Rpt #	# Candidates		Type	Exam Author	Chief Examiner	Examiners Assigned
02/22/2000	Grand Gulf / 05000416 / 2000301				FAC	MURPHY, MICHAEL E.	MURPHY, MICHAEL E.
03/20/2000	Grand Gulf / 05000416 / 2000301					MURPHY, MICHAEL E.	MURPHY, MICHAEL E.
03/26/2000	Grand Gulf / 05000416 / 2000301					MURPHY, MICHAEL E.	BUNDY, HOWARD F. GAGE, PAUL C.
03/27/2000	Grand Gulf / 05000416 / 2000301				FAC	MURPHY, MICHAEL E.	MURPHY, MICHAEL E.
05/08/2000	Grand Gulf / 05000416 / 2000301			Prep		MURPHY, MICHAEL E.	MURPHY, MICHAEL E.
05/22/2000	Grand Gulf / 05000416 / 2000301	RO - 2	SROI - 4	Admin	FFF	MURPHY, MICHAEL E.	BUNDY, HOWARD F. MURPHY, MICHAEL E. PELLET, JOHN L.

Sites: GG

Orgs: 4620

Exam Author: ALL



## Operator Licensing Exam Schedule

From 10/01/1999 To 09/30/2000

Region: 4

Phase Code: 5 Operational

**Summary By Date**

02/2000	GG - Grand Gulf				
	RO - 0	SROI - 0	SROU - 0	LSRO - 0	Total for Grand Gulf: 0
02/2000					
	RO - 0	SROI - 0	SROU - 0	LSRO - 0	Total for 02/2000: 0
03/2000	GG - Grand Gulf				
	RO - 0	SROI - 0	SROU - 0	LSRO - 0	Total for Grand Gulf: 0
03/2000					
	RO - 0	SROI - 0	SROU - 0	LSRO - 0	Total for 03/2000: 0
05/2000	GG - Grand Gulf				
	RO - 2	SROI - 4	SROU - 0	LSRO - 0	Total for Grand Gulf: 6

Sites: GG

Orgs: 4620

Exam Author: ALL

# Operator Licensing Exam Schedule

From 10/01/1999 To 09/30/2000

Region: 4

Phase Code: 5 Operational

## Summary By Site

GG - Grand Gulf

RO - 2

SROI - 4

SROU - 0

LSRO - 0

Total for Grand Gulf: 6

## Operator Licensing Exam Schedule

From 10/01/1999 To 09/30/2000

Region: 4

Phase Code: 5 Operational

### Summary By Region

---

Region 4

RO - 2

SROI - 4

SROU - 0

LSRO - 0

Total for Region 4: 6

WEDNESDAY	SHIFT SUPERVISOR	RO (AT THE CONTROLS)	BOP
SCENARIO 1 CREW 1	ERRINGTON /SLM	PORCH /MEM	LIDDELL /JLP
SCENARIO 1 CREW 2	HOLBROOK /JLP	BEACH /MEM	INGRAM /SLM
SCENARIO 2 CREW 1	LIDDELL /JLP	ERRINGTON /SLM	PORCH /MEM
SCENARIO 2 CREW 2	INGRAM /SLM	HOLBROOK /JLP	BEACH /MEM
THURSDAY	SHIFT SUPERVISOR	RO	BOP
SCENARIO 3 CREW 1	SURROGATE (ROBERTS)	LIDDELL /JLP	ERRINGTON /SLM
SCENARIO 3 CREW 2	SURROGATE (ROBERTS)	INGRAM /SLM	HOLBROOK /JLP

### SIMULATOR CANDIDATE ORDER OF POSITIONS

#### EXAMINERS

SLM = SL MCCORMY

JLP = JL PELLET

MEM = ME MURPHY

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 4/3/2000 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 4/3/2000. 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. Michael K. Rasch	SR. OPS INSTRUCTOR <sup>Exam Developer</sup>	<i>Michael Rasch</i>	10/26/99	<i>Michael Rasch</i>	5/26/2000
2. Gregory Sparks	Tech Asst, Ops <sup>Facility Rep.</sup>	<i>Greg Sparks</i>	11-18-99	<i>Greg Sparks</i>	5-26-00
3. Dale R. Jennings	SR. OPS. Instructor / <sup>Exam Developer</sup>	<i>Dale Jennings</i>	12/14/99	<i>Dale Jennings</i>	5/26/2000
4. Ricky Patterson	SRD/STA <sup>Validator</sup>	<i>Ricky Patterson</i>	1/5/00	<i>Ricky Patterson</i>	6/28/00
5. Mickey Ellis	SRD <sup>Validator</sup>	<i>Mickey Ellis</i>	1/10/00	<i>Mickey Ellis</i>	5/30/2000
6. MIKE WAGNER	Ops TNG Supervisor <sup>Validator</sup>	<i>Mike Wagner</i>	1/10/00	<i>Mike Wagner</i>	
7. Robert Goldman	Sr. Engineer / Software	<i>Robert Goldman</i>	1/10/00	<i>Robert Goldman</i>	5/30/2000
8. Dexter L. Smith	Nuclear Operator "A" <sup>Validation</sup>	<i>Dexter L. Smith</i>	1/10/2000	<i>Dexter L. Smith</i>	5/26/00
9. Billy Cupit	NOA <sup>Validation</sup>	<i>Billy Cupit</i>	1/10/2000	<i>Billy Cupit</i>	5/26/00
10. Roger Butler	RO <sup>Validation</sup>	<i>Roger Butler</i>	1/10/2000	<i>Roger Butler</i>	5/26/00
11. Shirley Williams	Admin Specialist	<i>Shirley Williams</i>	1/10/2000	<i>Shirley Williams</i>	5/26/2000
12. STEPHEN ELLIOTT	NOA <sup>Validation</sup>	<i>Stephen Elliott</i>	1/18/2000	<i>Stephen Elliott</i>	5/26/2000
13. Norman Frank McGowan	NOA <sup>Validation</sup>	<i>Norman McGowan</i>	1-18-00	<i>Norman McGowan</i>	2/21/00
14. SANDRA KEESEE	NOA <sup>Validation</sup>	<i>Sandra Keesee</i>	1-20-00	<i>Sandra Keesee</i>	6/8/00
15. JOHN E. OAKES	NOA <sup>Validation</sup>	<i>John E. Oakes</i>	1-20-00	<i>John E. Oakes</i>	5-30-00

NOTES:

*Sandra Keesee*

1. Pre-Examination

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1. Michael K. Rasch	SR. OPS INSTRUCTOR <sup>Exam Developer</sup>	<i>Michael Rasch</i>	10/26/99			
2. Gregory Sparks	Tech Asst, Ops Facility Rep	<i>G. Sparks</i>	11-18-99			
3. Dale R. Jennings	SR. OPS. Instructor / <sup>Exam Developer</sup>	<i>Dale Jennings</i>	12/14/99			
4. Ricky Patterson	SRO/STA Validator	<i>Ricky Patterson</i>	1/5/00			
5. Mickey Ellis	SRO Validator	<i>Mickey Ellis</i>	1/10/00			
6. Mike Wagner	Ops TNG Supervisor Validator	<i>Mike Wagner</i>	1/10/00	<i>M. Wagner</i>	5/30/00	
7. Robert Golden	Sr. Engineer / Software	<i>Robert Golden</i>	1/10/00			
8. Dexter W. Smith	Nuclear Operator "A" Validator	<i>Dexter Smith</i>	1/10/00			
9. Billy Cupit	NOA Validation	<i>Billy Cupit</i>	1/10/2000			
10. Roger Butler	NOA Validation	<i>Roger Butler</i>	1/10/2000			
11. Shirley Williams	Admin Specialist	<i>Shirley Williams</i>	1/10/2000			
12. STEPHEN ELLIOTT	NOA Validation	<i>Stephen Elliott</i>	1/15/2000			
13. Norman Frank McGowan	NOA Validation	<i>Norman McGowan</i>	1-18-00			
14. SANDRA KESSEE	NOA Validation	<i>Sandra Keesee</i>	1-20-00			
15. JOHN E. OAKES	NOA Validation	<i>John E. Oakes</i>	1-20-00			

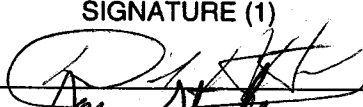

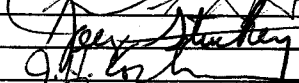
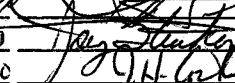
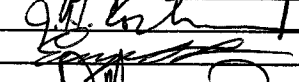
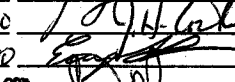
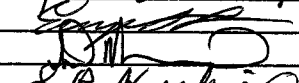
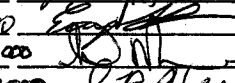
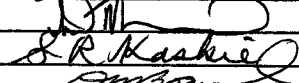
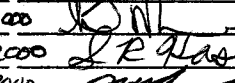
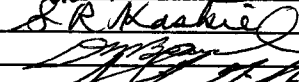
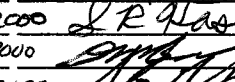

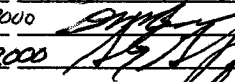
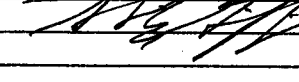
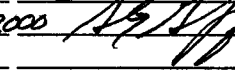
NOTES:

1. Pre-Examination

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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 4/3/2000. 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.	David H. Hanks	Shift Supt.		1/20/00		6/5/00
2.	Joey Stuckey	RO		1-20-00		5-30-00
3.	John H. Cochran	RU		01-20-00		5-30-00
4.	EUGENE DIANA	OFFSHIFT SRO		1-21-00		5-26-00
5.	Steve Murano	SRO		2-23-2000		5-30-00
6.	Stephen Kaskie	Simulator Engineer		2-24-2000		5-26-00
7.	DAVID M. BLARD	OFFSHIFT SRO		5-4-2000		5-26-00
8.	ALINE E. GRIFFIN	I&C TECH/SIM. MAINT.		5-8-2000		5/30/00
9.						
10.						
11.						
12.						
13.						
14.						
15.						

NOTES: