as of: 10/15/2001

M. MWRPHY Operations Branch Assignment Check Sheet: (Includes ES-201-1 & ES-501-1 Rev. 8, Supplement 1 information)

Chief: M. Murphy

Facility/Task: GG IN EX

Task Start Date: 08/26/2002

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	ITEM DESCRIPTION	DUE DATE	INIT	DATE
0	Exam/Inspection Schedule Agreement (C.1.a;C.2.a&b)	Feb 27, 2002	ATG	10/15/2001
1	NRC Staff & Fac. Contact Assigned (C.1.c;C.2.e)	Feb 27, 2002	ATG	10/15/2001
2	Facility contact briefed on security & other issues (C.2.c)	Feb 27, 2002	mant	2/21/02
3	Corp. Notification Letter Sent (C.2.d) (Exams only)	Feb 27, 2002	mert	2/26/02
3a	Inspection Announcement Letter Sent (PIR & LORT if req'd)	Jul 12, 2002	NA	N/A-
4	Task Expectations, Issues, & Standards Discussed w/ BC	May 28, 2002	ment	6/12/02
5#	[Reference Material Due (C.1.d;C.3.c)]	Apr 28, 2002	NIA	NA
6#	Integrated Exam Outlines Due (C.1.d&eC.3.d)	Apr 28, 2002	mant	5/1/02
7#	Outlines reviewed by NRC & Feedback Sent (c.2.h;C.3.e)	May 12, 2002	man	5/10/02
8#	Preliminary Applications Due (C.1.j;C.2.g;ES202)	Jul 27, 2002	Total	7/79/02
9#	Draft Exams w/ Doc./Ref. Due (C.1.d/e/f;C.3.d)	Jun 27, 2002	mont	6/12/02
10#	Peer Reviewer Initials As Reviewed All Parts*	Jul 7, 2002	Dm	7/1/8
11#	NRC Supervisor. Initials Approving for Fac. Rev. (C.2.h;C.3.f)*	Jul 7, 2002	Ar	7/19/22
12#	Exams Reviewed w/ Fac. (C.1.h;C.2.f&hC.3.g)	Jul 7, 2002	Thent	8/15/02
13#	Final Appl. Due & Assign. Sheet Prepared (C.1.j;C.2.h;ES202)	Aug 12, 2002	mont	8/8/02-
14#	NRC Supervisor Approved Final Exams (C.2.i;C.3.h)*	Aug 19, 2002	AT	8/19/02
15#	Final Appl. Rec'd & Waivers Sent (C.2.g)	Aug 19, 2002	Jugal	8/9/02
16#	Proctor Rules Reviewed w/ Fac. & Written Authorized (C.3.k)	Aug 19, 2002	Been	\$112/02
17	Exam/Insp Material to Team (C.3.i)	Aug 19, 2002	min-1.	8/23/02
18#	Fac. graded exam & Comments Rec'd	Sep 7, 2002	mart	8/30/02
19#	NRC Written Grading Completed	Sep 10, 2002	hosal	9/5/02
20#	Examiners Finished Grading Op. Tests	Sep 10, 2002	Tuesal	9/17/02
21#	NRC Ch. Ex. Review Completed	Sep 20, 2002	ment	9/15/02
22	NRC BC Review Completed*	Sep 21, 2002	Ar	9/22/02
23#	RPS/IP # Examinees Updated Before Report Issued	Sep 26, 2002	ment	9/23/02-
24	License/Denials Signed & Report Issued	Sep 26, 2002	right	\$/24/02
25	Package Closed Out	Oct 17, 2002	ment	10/17/02
	Final Inspection Report Issued, Exam Package to OLA, Facility.	Contact Notified	of Results	S
# No	ot required for inspections, except as noted.	<u> </u>		

# Not required for inspections, except as noted.

\* Note Supervisor/Peer initials required.

[] Required NRC-auth. exams only.

When complete, for exams, add to pkg & fwd copy to BC, for insp, fwd orig'l to BC.

S:\DRS\OB\EXAMS\GG\August 2002 Exam\exam assignment sheet.wpd Last revised 10/15/01

#### Examination Outline Quality Checklist

Facility:	GRAND GULF NUCLEAR STATION Date of Examination: August 26	6, <u>2</u> 00	2	
ltem	Task Description		Initials	s
		a	b*	c#
1.	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	M	M	Tim
W R	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.	m	M	mont
T	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	m	M	Real
T E N	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	m	4	mont
2.	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.	m	M	mont
S I M	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.	pl	NP	mont
	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.	w	M	mont
3. W / T	<ul> <li>a. Verify that:</li> <li>(1) the outline(s) contain(s) the required number of control room and in-plant tasks,</li> <li>(2) no more than 30% of the test material is repeated from the last NRC examination,</li> <li>(3)* no tasks are duplicated from the applicants' audit test(s), and</li> <li>(4) no more than 80% of any operating test is taken directly from the licensee's exam banks.</li> </ul>	m	bi?	Jugal
	<ul> <li>b. Verify that:</li> <li>(1) the tasks are distributed among the safety function groupings as specified in ES-301,</li> <li>(2) one task is conducted in a low-power or shutdown condition,</li> <li>(3) 40% of the tasks require the applicant to implement an alternate path procedure,</li> <li>(4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and</li> <li>(5) the in-plant walk-through requires the applicant to enter the RCA.</li> </ul>	W	M	Jugor 1
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	m	hyp	Juban 1
	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.	W	SYR	mgont
4.	<ul> <li>Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.</li> </ul>	M	W	Jugn 1
G E	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	W	NP.	Dent
N E	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	M	M/-	Juger 1
· R A	d. Check for duplication and overlap among exam sections.	M	M	Bant
L	e. Check the entire exam for balance of coverage.	M	W	Prisn1
	f. Assess whether the exam fits the appropriate job level (RO or SRO)	W	W.	hight
	ity Reviewer(*): Stephen Hundrics that the start fundation of	12912		, 
	Chief Examiner(#): M. F. Murphy / Menghy 5	1610	22- 2	-
	* Not applicable for NRC-developed examinations.	<i>*  </i> -		-
	# Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.			

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# Examination Outline Quality Checklist

Facility:	GRAND GULF NUCLEAR STATION Date of Examination: August 26	<b>5, 200</b> 2	2	
ltem	Table David if		Initials	
nem	Task Description	a	b*	c#
1.	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	M	Af	Jupit
W R	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.	m	Aff.	Wen 1
I T T	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	r	41	Went
Ë N	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	m	SP .	pesal
2.	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.	M	₩.	Juin 1
S - M	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.	pul	ЪР	Parke 1
	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.	w	<b>S</b> H	mont
3. W / T	<ul> <li>a. Verify that:</li> <li>(1) the outline(s) contain(s) the required number of control room and in-plant tasks,</li> <li>(2) no more than 30% of the test material is repeated from the last NRC examination,</li> <li>(3)* no tasks are duplicated from the applicants' audit test(s), and</li> <li>(4) no more than 80% of any operating test is taken directly from the licensee's exam banks.</li> </ul>	w	₿₽₽.	What
	<ul> <li>b. Verify that:</li> <li>(1) the tasks are distributed among the safety function groupings as specified in ES-301,</li> <li>(2) one task is conducted in a low-power or shutdown condition,</li> <li>(3) 40% of the tasks require the applicant to implement an alternate path procedure,</li> <li>(4) one in-plant task tests the applicant's response to an emergency or abnormal condition, and</li> <li>(5) the in-plant walk-through requires the applicant to enter the RCA.</li> </ul>	ml	bf	Reput
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	M	₩P .	785n 1
	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.	M	AHP .	prisv"]
4.	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	M	A.P	Dist.
G E	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	M	Sif	July
N E	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	M	AP	mpli
R A	d. Check for duplication and overlap among exam sections.	me	AP	What!
L	e. Check the entire exam for balance of coverage.	int	SH	ment
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	pl	4P	mpin
c. NRC	Printed Name / Signature	Date 6/200 /+/20 //+//	12 102- 12- 102	_ _ _
NOTE:	* Not applicable for NRC-developed examinations.	¥.ŧ		
;	# Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.			

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## Written Examination Quality Checklist

Facility: <b>GRAN</b>	ID GULF NUCLEAR STATION Date	e of Exam:	August	<b>26, 2002</b> Ex	am Leve		BRO						
				<u> </u>		Initial							
	Item Description				A	b*	c#						
1. Ques	tions and answers technically accurate and		m	H	2001								
	<ul> <li>a. NRC K/As referenced for all questions</li> <li>b. Facility learning objectives referenced as available</li> </ul>						Julin						
3. RO/S per S	RO overlap is no more than 75 percent, and ection D.2.d of ES-401	SRO que	stions are	appropriate	m	W	Thebal						
4. Quest appea	tion selection and duplication from the last tw ars consistent with a systematic sampling pro	vo NRC lic ocess.	ensing ex	ams			Torbul						
indica th th th √_th													
	use meets limits (no more than 75	Bank	Modified	I New			4					1.0	
and th	nt from the bank, at least 10 percent new, ne rest modified); enter the actual question pution at right	58	9	33	M	<b>M</b> Y	WEN/						
	een 50 and 60 percent of the questions on	Mem	ory	C/A									
writter	am (including 10 new questions) are n at the comprehension/analysis level; the actual question distribution at right	49		51	m	hh	mint						
	ences/handouts provided do not give away a	answers			m	M	Dosn						
appro	tion content conforms with specific K/A state ved examination outline and is appropriate f ned; deviations are justified	ments in t or the Tier	he previou to which t	sly hey are	ml	M	Thisty						
10. Quest	tion psychometric quality and format meet E	S, Append	lix B, guide	elines	W	H	mign						
11. The e agree	xam contains 100, one-point, multiple choice s with value on cover sheet	e items; th	e total is c	orrect and	ml	4f	Dilon						
c. NRC Chief E d. NRC Regior Note: * The	MICHAEL K. RASCH Mult ewer(*) Stephen Humphries Otephen Examiner(#)	d Name / S ha / K n Hungh / O e for NRC-	developed	<b>H</b> examination	)S.	6/0 6/1 7/ 8/	ate /2002 /2003 /2003 /2/22 /2/22						

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# Written Examination Quality Checklist

Facility	GRAND GULF NUCLEAR STATION Date	e of Exam:	Augu	st 26	<b>2002</b> E>	am Leve	el: RO						
							Initial						
		А	b*	c#									
1.	Questions and answers technically accurate and applicable to facility							Jul .					
2.	<ul> <li>a. NRC K/As referenced for all questions</li> <li>b. Facility learning objectives referenced as available</li> </ul>	able				M	AP	mint					
3.	RO/SRO overlap is no more than 75 percent, and per Section D.2.d of ES-401	SRO que	stions a	re ap	propriate	M	AP .	Dulin1					
4.	Question selection and duplication from the last ty appears consistent with a systematic sampling pro	vo NRC lic	ensing	exam	S			Turn					
5.	Question duplication from the license screening/ai indicated below (check the item that applies) and the audit exam was systematically and random the audit exam was completed before the licer the examinations were developed independen v_the licensee certifies that there is no duplicatio other (explain)	appears a nly develo ise exam tly: or	ate.		M	цр	Wint						
6.	Bank use meets limits (no more than 75	Bank	Modif	ied	New	M	<u> </u>	, ,					
	percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right	57	9		34		M	Tisty					
7.	Between 50 and 60 percent of the questions on	Memo	ory	C/A			3.0						
	the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	46			54	W	44(	Person					
8.	References/handouts provided do not give away a	answers				m	MP	Trike					
9.	Question content conforms with specific K/A state approved examination outline and is appropriate for assigned; deviations are justified	ments in t or the Tier	he previ to whic	ously h they	/ are	M	Þł	ment					
10.	Question psychometric quality and format meet E	S, Append	ix B, gu	idelin	es	M	Al	men 1					
11.	The exam contains 100, one-point, multiple choice agrees with value on cover sheet					MM	hf	may					
c. NRC		I Name / S Nichow MacHarp for NRC-	Khu wies WT &	n/	/ 1		6/0	pate <u>7/200</u> 2 7/2000 1/15/02 9/02					

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# **Operating Test Quality Checklist**

Form ES-301-3

Facility:	GRAND GULF NUCLEAR STATION Date of Examination: 08/26/200	<u>2 – 0</u> 2	<b>B/30/</b> 2	2002
			Initial	s
	1. GENERAL CRITERIA	а	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).	W	M	Tugul
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	M	W	Nesrof
с.	The operating test shall not duplicate items from the applicants' audit test(s)(see Section D.1.a).	N	CH -	nin
d.	Overlap with the written examination and between operating test categories is within acceptable limits.		bp-	men
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	M	Sff	Pupij
	2. WALK-THROUGH (CATEGORY A & B) CRITERIA			
a.	Each JPM includes the following, as applicable:			
	<ul> <li>initial conditions</li> <li>initiating cues</li> <li>references and tools, including associated procedures</li> <li>reasonable and 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> <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>	M	4f	Mary
b.	The prescripted questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	W/L	SH .	Joren 1
с.	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.	m	M	mang
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	W	M.	24.5%
	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.	W	H	July
c. NRC	Printed Name / Signature r <u>Michael K. KASUH</u> Michael Kush y Reviewer(*) <u>Stephen Humphries</u> Displayeduss Chief Examiner (#) <u>Michael</u> OT Socy Supervisor <u>Authony Goby</u> OT Socy * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c;" chief examiner concurrence required.	6, 6/ 7/ 8		002 03- 102 03

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Revision 0

# Simulator Scenario Quality Checklist

Form ES-301-4

	Initia					
			a	b*	c#	
1.	The initial conditions are realistic, in that some equipment and/or instrumenta service, but it does not cue the operators into expected events.	ation may be out of	put	M	7.01	
2.	The scenarios consist mostly of related events.					
3.	Each event description consists of the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable)					
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated i without a credible preceding incident such as a seismic event.	nto the scenario	M	W.	men	
5	The events are valid with regard to physics and thermodynamics.		W	W	primi	
6.	Sequencing and timing of events is reasonable, and allows the examination complete evaluation results commensurate with the scenario objectives.	team to obtain	m	M	Jugar	
7.	If time compression techniques are used, the scenario summary clearly so ir have sufficient time to carry out expected activities without undue time const given.	ndicates. Operators raints. Cues are	ml	W	Tryn 1	
8.	The simulator modeling is not altered.		m	4	Dign	
9.	The scenarios have been validated. Any open simulator performance deficience evaluated to ensure that functional fidelity is maintained while running the place		Y	MP	Webs 1	
10.	Every operator will be evaluated using at least one new or significantly modi other scenarios have been altered in accordance with Section D.4 of ES-301		W	M	mbul	
11.	All individual operator competencies can be evaluated, as verified using Form the form along with the simulator scenarios).	n ES-301-6 (submit	M	41	Win	
12.	Each applicant will be significantly involved in the minimum number of transi specified on Form ES-301-5 (submit the form with the simulator scenarios).	ents and events	W	M	mful	
13.	The level of difficulty is appropriate to support licensing decisions for each cr	ew position.	M	<u> M</u>	mp	
TARC	GET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)	1 2 Actual Attributes		_	-	
1.	Total malfunctions (5-8)	6/6	M	M	mon	
2.	Malfunctions after EOP entry (1-2)	2 / 2	N.	M	mont	
3.	Abnormal events (2-4)	3/3	×,	M	mism	
4.	Major transients (1-2)	1 / 1	ľ	M	min	
5.	EOPs entered/requiring substantive actions (1-2)	2/2	M	M	Min	
6.	EOP contingencies requiring substantive actions (0-2)	2/0	V,	M	many	
7.	Critical tasks (2-3)	5/2		44	mini	

**Revision** 0

# Simulator Scenario Quality Checklist

Form ES-301-4

Scena			Initia	als			
	QUALITATIVE ATTRIBUTES		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.						
2.	2. The scenarios consist mostly of related events.						
3.	Each event description consists of the point in the scenario when it is to be initiated the malfunction(s) that are entered to initiate the event the symptoms/cues that will be visible to the crew the expected operator actions (by shift position) the event termination point (if applicable)		w	ų	mnf		
4.	No more than one non-mechanistic failure (e.g., pipe break) is incorporated i without a credible preceding incident such as a seismic event.	nto the scenario	W	hd P	Wyn 1		
5.	The events are valid with regard to physics and thermodynamics.		r	M	Insul		
6.	Sequencing and timing of events is reasonable, and allows the examination complete evaluation results commensurate with the scenario objectives.	team to obtain	r	SP	Ther		
7.	M	M	print				
8.	3. The simulator modeling is not altered.						
9.					negn		
10.	Every operator will be evaluated using at least one new or significantly modil other scenarios have been altered in accordance with Section D.4 of ES-301	ied scenario. All	W	ЬЯ	nesil		
11.	All individual operator competencies can be evaluated, as verified using Form the form along with the simulator scenarios).	n ES-301-6 (submit	M	M	Mint		
12.	Each applicant will be significantly involved in the minimum number of transi specified on Form ES-301-5 (submit the form with the simulator scenarios).	ents and events	m	M	min		
13.	The level of difficulty is appropriate to support licensing decisions for each cr	ew position.	M	M	July 1		
TARG	ET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)	3 Actual Attributes					
1.	Total malfunctions (5-8)	7 / /	WR	H	Hent		
2.	Malfunctions after EOP entry (1-2)	3 / /	j.	M	719n1		
3.	Abnormal events (2-4)	2 / /	M	NP	Think		
4.	Major transients (1-2)	1//	M	M	NAM		
5.	EOPs entered/requiring substantive actions (1-2)	2 / /	_ N	M	Mini		
6.	EOP contingencies requiring substantive actions (0-2)	1//	M	M	Min		
7.	Critical tasks (2-3) 2 / /						

NUREG 1021, REVISION 8 SUPPLEMENT 1

**Revision** 0

Transient and Event Checklist

Form ES-301-5

GRAND GULF NUCLEAR STATION BACKUP SCENARIO DATES: 08/26/2002 - 08/30/2002

Applicant Type	Evolution	Minimum	5	Scenari	o Numb	
Туре	Туре	Number	SS 3	ATC 3	BOP 3	TOTAL
	Reactivity			1		1
ATC	Normal			1		1
RO	Instrument/ Component			2		2
	Major			1		1
	Reactivity				0	
	Reactivity				0	0
BOP	Normal				0	. 0
As RO	Instrument/ Component		-		3	3
	Major				1	1
SRO-I	<b></b>				<b>.</b>	
	Reactivity					
	Normal					
As SRO	Instrument/ Component					
	Major					

Reactivity	0		0
Normal	1		1
Instrument/ Component	4		4
Major	1		1

Instructions: (1)

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.
 Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward minimum requirement.

Author:

**Revision** 0

NRC Reviewer:

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ES-301	* * * * * * * * * * * * * * * * * * *	Transient and	d Event Che	cklist		Form ES-30
г	GRAND GULF	NUCLEAR STATION	D	ATES: 08/2	26/2002 -	08/30/2002
	Applicant Type	Evolution	Minimum		enario N	umber
	Туре	Туре	Number	SS 1		TOTAL
		Reactivity	1			
		Normal	1			·
	RO	Instrument/ Component	4			
		Major	1			
	an a	Reactivity	1			
		Normal	0			
	As RO	Instrument/ Component	2			
		Major	1			
	SRO-I					
		Reactivity	0			
		Normal	1			
	As SRO	Instrument/ Component	2			
L		Major				
ſ		Reactivity	0	0		0
	$\frown$	Normal	1	1		1
	(SRO-U)	Instrument/ Component	2	5		5
		Major	1	1		1
L Instruction	(2) ev co	nter the operating test olution type. eactivity manipulations inditions (refer to Section opendix D. henever practical, both cluded; only those that	number and F may be cond ion D.4.d) but	Form ES-D- ucted unde must be sig	r normal gnificant p	umbers for each or <i>controlled</i> abno per Section C.2.a

Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count/toward minimum requirement.

Author:

NRC Reviewer:

Muthal Kkurk The Shiply

Revision 0

#### **Transient and Event Checklist**

Form ES-301-5

	UCLEAR STATIO	N D	ATES: 0	8/26/20	02 – 08/	30/2002
Applicant Type	Evolution	Minimum	9	Scenario	o Numb	er
Туре	Туре	Number	ATC 1	BOP 2		TOTAL
	Reactivity	1	1	0		1
	Normal	1	Ö	1		1
(RO 1,3,5,7	Instrument/ Component	4	2	4		6
	Major	1	1	1		2
[		<u></u>				
	Reactivity	1				
	Normal	0				
As RO	Instrument/ Component	2				
	Major	1				
SRO-I						
	Reactivity	0				
	Normal	1				
As SRO	Instrument/ Component	2				
	Major	1				
	. /					[]
	Reactivity	0			:	

	Reactivity	0		
	Normal	1		
SRO-U	Instrument/ Component	2		
······	Major	1		

Instructions: (1)

- 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. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward minimum requirement. (2)
- (3)

Author:

**Revision** 0

NRC Reviewer:

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## **Transient and Event Checklist**

Form ES-301-5

GRAND GULF NUCLEAR STATION DATES: 08/26/2002 -						30/2002
Applicant Type	Evolution	Minimum				
Туре	Type Numbe		BOP 1	ATC 2		TOTAL
	Reactivity	1	0	1		1
	Normal	1	1	0		1
(RO 2,4,6)	Instrument/ Component	4	3	3		6
	Major	1	1	1		2

**************************************			 	 
	Reactivity	1		
	Normal	0		
As RO	Instrument/ Component	2		
	Major	1		
SRO-I		-		
	Reactivity	0	 	
	Normal	1		
As SRO	Instrument/ Component	2		
	Major	1		

	Reactivity	0		
	Normal	1		
SRO-U	Instrument/ Component	2		
	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. Whenever practical, both instrument and component malfunctions should be included; only those that require verifiable actions that provide insight to the applicant's competence count toward minimum requirement.
- (3)

Author:

NRC Reviewer:

NUREG 1021, REVISION 8 SUPPLEMENT 1

**Revision** 0

**Competencies Checklist** 

#### Form ES-301-6

#### **Grand Gulf Nuclear Station**

#### Dates 08/26/2002 - 08/30/2002

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

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: NRC Reviewer:

**Revision** 0

**Competencies Checklist** 

#### Form ES-301-6

#### **Grand Gulf Nuclear Station**

#### Dates 08/26/2002 - 08/30/2002

		olicant #1 RO-I/SRO	-U	Applicant #2 (RO/\$RO-I/SRO-U			Applicap <del>t#3</del> RO/SRO(I/ <b>SRO-U</b> )	
Competencies	SC	ENARIO		sc	ENARIC	)	SCENARIO	
	ATC 1	ВОР 2		BOP 1	АТС 2		ss 1	
Understand and Interpret Annunciators and Alarms	2, 3, 4, 5	1, 3, 5, 6		1, 3, 4, 5	2, 3, 4, 5, 6		2, 3, 4, 5	
Diagnose Events and Conditions	2, 3, 4, 5	3, 5, 6		3, 4, 5	3, 4, 5, 6		2, 3, 4, 5	
Understand Plant and System Response	2, 3, 4, 5	1, 3, 5, 6		1, 3, 5	2, 3, 4, 5, 6		2, 3, 4, 5	
Comply With and Use Procedures (1)	ALL	ALL		ALL	ALL		ALL	
Operate Control Boards (2)	2, 3, 4, 5	1, 2, 3, 5		1, 3, 5	2, 3, 5, 6		N/A	
Communicate and Interact With the Crew	ALL	ALL		ALL	ALL		ALL	
Demonstrate Supervisory Ability (3)	N/A	N/A		N/A	N/A		ALL	
Comply With and Use Tech. Specs. (3)	N/A	N/A		N/A	N/A		2	

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: NRC Reviewer:

**Revision** 0

# Written Examination Grading Quality Checklist

Facility: GRAND GULF NUCLER Date of Exam: 8/23/2012	Exam Le	evel	Isro				
Station		Initials					
Item Description	а	b	с				
1. Clean answer sheets copied before grading	ML	SOK	ment.				
2. Answer key changes and question deletions justified and documented NONE	ml	SOK	Prign1				
<ol> <li>Applicants' scores checked for addition errors (reviewers spot check &gt; 25% of examinations)</li> </ol>	ml	sok	Tisn				
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	M	SOF	MEN 1				
5. All other failing examinations checked to ensure that grades are justified NONE	M	SOL	men				
<ol> <li>Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants</li> </ol>	M	sor	Wing				
Printed Name / Signature		D	ate				
a. Grader Michael K. RASCH Michael Rass	L	<u>8/z:</u>	5/2002				
b. Facility Reviewer(*) Steven D Reeves Steve Ree	~	0/23	3/2002				
c. NRC Chief Examiner (*) M.E. Musering Planty	_	9/4	1/02				
d. NRC Supervisor (*) <u>T.F. Stetta / F. Stetta / F. Stetta / F. Stetta / J. Store 9/5/02</u>							
(*) The facility reviewer's signature is not applicable for examinatio NRC; two independent NRC reviews are required.	ns grade	ed by th	ie				

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# Written Examination Grading Quality Checklist

Facility: GRAND GULF NUCLEAR Date of Exam: 8/23/2007	Exam Lo	evel: R	ORRO				
STATION	Initials						
item Description	а	b	С				
1. Clean answer sheets copied before grading	m	sor	Jubert				
2. Answer key changes and question deletions justified and documented	ml	SOK,	Jul 1				
<ol> <li>Applicants' scores checked for addition errors (reviewers spot check &gt; 25% of examinations)</li> </ol>	pul	sok	7.S.A				
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail いいり	mR	son	Pesno				
5. All other failing examinations checked to ensure that grades are justified いい	mR	SOK	Julan				
<ol> <li>Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants</li> </ol>	nd	SOR	7up.1				
Printed Name / Signature	/	D	ate				
a. Grader Michael K. RASCH Michael Kluss	_	8/2	3/2002				
b. Facility Reviewer(*) Steven D Reeves Sten Reen		8/13	2002				
c. NRC Chief Examiner (*) M.E. Mukerty / 2324 9/4/02							
d. NRC Supervisor (*) <u>T.F. Stette</u> <u>T.F. Stette</u> <u>T.F. Stette</u> <u>T.F. Stette</u> <u>T.F. Stette</u> <u>T.F. Stette</u>							
(*) The facility reviewer's signature is not applicable for examinatio NRC; two independent NRC reviews are required.	ns grade	ed by th	ne				

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## Operator Licensing Exam Schedule From 08/01/2002 To 09/30/2003

Region: 4 Phase Code: 5 Operational

Exam Week	Site/Docket No./Insp Rpt #	# Ca	ndidates	Туре	Exam Autho	Chief Examiner	Examiners Assigned
08/12/2002	Grand Gulf / 05000416 / 2002301 TAC #: X02231			Prep		MURPHY, MICHAEL E.	MURPHY, MICHAEL E.
08/26/2002	Grand Gulf / 05000416 / 2002301 TAC #: X02231	RO - 7	SROI - 1	Admin		MURPHY, MICHAEL E.	MURPHY, MICHAEL E. SANCHEZ, ALFRED
09/08/2003	Grand Gulf / 05000416 / TAC #: X02237			Prep		MURPHY, MICHAEL E.	MURPHY, MICHAEL E.
09/29/2003	Grand Gulf / 05000416 / TAC #: X02237	SROU - 7	SROI - 2	Admin	FFF	MURPHY, MICHAEL E.	DRAKE, JAMES F. GAGE, PAUL C. MURPHY, MICHAEL E.

STETKA, THOMAS F.

**Examination Security Agreement** 

#### 1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 8/23-3c/2002 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 23-30/2002. 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) /D	ATENOTE
1. Michael K. RASCH	SR. Ops. Inst. Exam Developer	Mythand Thash	3/13/2002 mykel Hanh	8)30/2002
2. Stephen Humphries	Ops Goord Facility Rep.	Stephythankis	Alatzan Stant Laken	9/5/2007
3. Kobert Goldman	Simulator Eng, Software	Well fr Sha	5/14/me full to the	8/30/2002
4. Emest Mathes	Shift Manager /Validation	- Emetmathes	5/20/2002 Thert Mathe	8/30/2002
5. Handy Farris	Control Room Sup v SRO	Marrio	5/20/2002 ANJanit	
6. <u>SA EII</u>	RO UALIDATION	SASIT	5/20/2012 A. O. A.	8/30/02
7. Michael Stannes	RO VALIDATION	Maliltenton	5-20-2002 M. In Alan	8-30-02
8. Timothy D. Boland	SRO SLIFT SURV. VALIDATION	1.40Blue	52302 J.H. Vall	915102
9. Ocnnis M. Sweeney	SRO Validation	Mar M.L.	5/28/02 111	9/n/02
10. Phillip K. Huff	RO VALIDATION	Phillip & Miff	5-28-02 PV Marth	9-3-02
11. <u>Steven Angel</u>	RO validation	Atu Lal	5-28-02	9.5.62
12. Cecil w. Mc Millaw	RD Validation	Cart w. McDuilla	5/20/2 Carf w, Mything	- 9/3/2
13. JOHN P. WATKINS	RO · VALIDATION	John Pulathing	5/28/02 March Walt	> 9/3/2
14. Jesse Turnage	RO Validation	On Ing	7-19-02 / Han Charl	
15. ALAN HOLBRODIC	SRU/SISTA VALIDATION	1 Alanch	7-19-02	9-5-02
	• • • • • • • • • • • • • • • • • • • •	, , , , , , , , , , , , , , , , , , , ,	Az ?	

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ES-201

9-12.02

Form ES-201-3

**ES-201** 

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of  $\frac{2}{23-3}/2\omega^2$  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  $\frac{8/23-30/2000}{1-2}$  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) DA	TENOTE
1. FRANK WEARS	Shaff Mg Watedate	Allem .	1-23-Z	<u> Alberton</u>	412-2
2. CARLOS DAWSON I	RO / VALIDATE	had the the	<u>7-23-2 ¥</u>	har Dana	9-3-2
3. Larry Bufkin	RO / Validate	Dany Diff-	7-23-21	Tany After	9-3-2
4. JAMES G.O'NEIL	RO VANDATE	James CO. Veil	7-23-02 *	Same O'Vil	8.30-02
5. H.T. Powell	Control Room Supl.	& Homellen	7-23-2	Repuel	9-12-2
6. Russoll Broth	RO/Validele	CHA HE	7/23/2	A Dan alt	9/4/02
7. KICK INGRAM	Shift Snov. / Validate	- Alter	7/23/02	Allon	8/30/02
8. SAM RUSS ,	ROT VALIDATION	Samuel & Bun	8-13-02	Sand DA	8/30/02
9. Jeen Streken	RO Valadation	- a terten	8-1302	I ken Statt	9-3.02
10. Chiefs Miller)	Sho Valudation	- a Theshallon	8-13-02	. Dallatter	9-3-02
11. Ricky Ciddell	SRO Validation	Jur Jalle	8.14-02	N' Logell	8-30-02
12. Steve Reeves	Sr. Ops Instructor Etaministra	12. Stein Ren	8-26-02	Stereken	8/30/02
13. Kule Grillis	Op's instr.	Konla	8-29-2	KENGA	8-30-02
14. TOMMY HARRELSON		J. Hourban	8.29.02	J. Haurbon	9.3.07
15. CURTIS' BUFORD	OPS INSTR	CAB-brd	8/29/02	ADutord	8/30/02
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