

# COVER SHEET

WATTS BAR EXAM  
50-390, 391/2001-301

JANUARY 29 - FEBRUARY 6,  
2001

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

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

Facility: <b>Watts Bar</b>		Date of Exam: <b>January 26, 2001</b>		Exam Level: RO <b>(SRO)</b>	
Item Description	Initials				
	a	b	c		
1. Clean answer sheets copied before grading	TZW	YEB	JSM		
2. Answer key changes and question deletions justified and documented	TZW	YEB	JSM		
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	TZW	YEB	JSM		
4. Grading for all borderline cases (80% +/- 2%) reviewed in detail	TZW	YEB	JSM		
5. All other failing examinations checked to ensure that grades are justified	TZW	YEB	JSM		
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	TZW	YEB	JSM		
Printed Name / Signature			Date		
a. Grader	<u>Terry L. Newman / Terry L. Newman</u>		<u>2/5/01</u>		
b. Facility Reviewer(*)	<u>James E. Baker / YEBaker</u> <small>Rev 1/12/01</small>		<u>02/05/2001</u> <u>02/13/01</u>		
c. NRC Chief Examiner (*)	<u>Larry S. Melten / Larry S. Melten</u>		<u>02/13/2001</u>		
d. NRC Supervisor (*)	<u>MIKE ERNSTES / Mike Ernstes</u>		<u>2/14/01</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Facility: <b>Watts Bar</b>		Date of Exam: <b>1/26/2001</b>		Exam Level: <b>(RO) SRO</b>	
Item Description				Initial	
				a	b*
1.	Questions and answers technically accurate and applicable to facility	TZN	YEB	JSM	
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available	TZN	YEB	JSM	
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401	TZN	YEB	JSM	
4.	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 licensee certifies that there is no duplication; or <input type="checkbox"/> the license exam was prepared by the NRC	TZN	YEB	JSM	
5.	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	New	
		40	15	45	
6.	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	CIA		
		45	55		
7.	References/handouts provided do not give away answers	TZN	YEB	JSM	
8.	Question content conforms with specific K/A statements in the previously approved examination outline; deviations are justified.	TZN	YEB	JSM	
9.	Question psychometric quality and format meet ES, Appendix B, Guidelines.	TZN	YEB	JSM	
10.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet	TZN	YEB	JSM	
		Printed Name / Signature		Date	
a.	Author	Terry L. Newman / <i>Terry L. Newman</i>		1/12/01	
b.	Facility Reviewer (*)	James E. Baker / <i>JEBaker</i>		01/12/01	
c.	NRC Chief Examiner (*)	LARRY S. MELLETT / <i>JSM</i>		01/12/01	
d.	NRC Supervisor (*)	MIKE ERNSTES / <i>Mike Ernstes</i>		01/17/01	
Note: * The facility reviewer's signature is not applicable for NRC-developed examinations; two independent NRC reviews are required. # See special instructions (Section E.2.c) for items 1, 5, 8					

Facility: <b>Watts Bar</b>		Date of Exam: <b>1/26/2001</b>		Exam Level: RO <b>(SRO)</b>			
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				a	b*	c#	
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4.	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 licensee certifies that there is no duplication; or <input type="checkbox"/> the license exam was prepared by the NRC			TZW	JEB	FSM	
5.	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	New	TZW	JEB	FSM
		45	10	45			
6.	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	CIA		TZW	JEB	FSM
		45	55				
7.	References/handouts provided do not give away answers			TZW	JEB	FSM	
8.	Question content conforms with specific K/A statements in the previously approved examination outline; deviations are justified.			TZW	JEB	FSM	
9.	Question psychometric quality and format meet ES, Appendix B, Guidelines.			TZW	JEB	FSM	
10.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			TZW	JEB	FSM	
				Printed Name / Signature		Date	
a.	Author	Terry L. Newman / <i>Terry L. Newman</i>			1/12/01		
b.	Facility Reviewer (*)	James E. Baker / <i>JEBaker</i>			01/12/01		
c.	NRC Chief Examiner (*)	LARRY S. Mellen / <i>L.S. Mellen</i>			01/12/01		
d.	NRC Supervisor (*)	MIKE ERNSTE / <i>Mike Ernste</i>			01/12/01		
<p>Note: * The facility reviewer's signature is not applicable for NRC-developed examinations; two independent NRC reviews are required. # See special instructions (Section E.2.c) for items 1, 5, 8</p>							

Facility: <b>Watts Bar</b>		Date of Exam: <b>January 26, 2001</b>		Exam Level: <b>RO</b> SRO	
Item Description	Initials				
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6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	TZN	yeb	jsm		
Printed Name / Signature		Date			
a. Grader	<u>Terry L. Newman</u> <i>Terry L. Newman</i>	<u>2/5/01</u>			
b. Facility Reviewer(*)	<u>James E. Baker</u> / <i>yeb</i> <i>Rev A 12/10/01</i>	<u>02/05/2001</u> <i>02/13/01</i>			
c. NRC Chief Examiner (*)	<u>Larry S. Mellen</u> / <i>Larry S. Mellen</i>	<u>02/13/2001</u>			
d. NRC Supervisor (*)	<u>MIKE ERNSTES</u> / <i>Mike Ernstes</i>	<u>2/13/01</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Facility: <b>WATTS BAR</b>		Date of Examination: <b>1/29 - 2/7/2001</b> Operating Test Number:		
<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).	TZW	JEB	D
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	TZW	JEB	D
c.	The operating test shall not duplicate items from the applicants' audit test(s) (See section D.1.a)	TZW	JEB	D
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	TZW	JEB	D
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	TZW	JEB	D
<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>	TZW	JEB	D
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	TZW	JEB	D
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.	TZW	JEB	D
d.	At least 20 percent of the JPMs and questions on each test are new or significantly modified.	TZW	JEB	D
<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.	TZW	JEB	D
Printed Name / Signature		Date		
a.	Author	<u>Terry L. Newman / Terry L. Newman</u>		<u>1/19/01</u>
b.	Facility Reviewer(*)	<u>James E. Baker / JEBaker</u>		<u>01/19/01</u>
c.	NRC Chief Examiner (*)	<u>RON Avello / [Signature]</u>		<u>01/22/01</u>
d.	NRC Supervisor (*)	<u>MICHAEL E. ERNSTES / [Signature]</u>		<u>1/23/01</u>
(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.				

Facility: <b>WATTS BAR</b>		Date of Examination:		
Item	Task Description	Initials		
		a	b*	c
WRITTEN	1. a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	TEN	JEB	
	b. Assess whether the outline was systematically and randomly prepared in accordance with Section D.1 of ES-401 and whether all knowledge and ability categories are appropriately sampled.	TEN	JEB	
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	TEN	JEB	
	d. Assess whether the repetition from previous examination outlines is excessive.	TEN	JEB	
SIM	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.	TEN	JEB	0
	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.	TEN	JEB	0
	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.	TEN	JEB	0
W/T	3. 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.	TEN	JEB	0
	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.	TEN	JEB	0
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	TEN	JEB	0
	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.	TEN	JEB	0
GENERAL	4. a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	TEN	JEB	0
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	TEN	JEB	0
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	TEN	JEB	0
	d. Check for duplication and overlap among exam sections.	TEN	JEB	0
	e. Check the entire exam for balance of coverage.	TEN	JEB	0
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	TEN	JEB	0
a. Author	Terry L. Newman / <u>Terry L. Newman</u>		Date	1/19/01
b. Facility Reviewer(**)	James E. Baker / <u>JEBaker</u>			01/19/01
c. Chief Examiner	Ross Aiello / <u>LARRY MCELLEN</u>			01/24/01
d. NRC Supervisor	MICHAEL E. ERNSTES / <u>Michael E. Ernstes</u>			1/23/01

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

Facility: <b>WATTS BAR</b>		Date of Exam: <b>1/29-2/7/2001</b>	Scenario Numbers: <b>1 2 3</b>	Operating Test No.:	
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.	TZW	JFB		
2.	The scenarios consist mostly of related events.	TZW	JFB		
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>	TZW	JFB		
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.	TZW	JFB		
5.	The events are valid with regard to physics and thermodynamics.	TZW	JFB		
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	TZW	JFB		
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.	TZW	JFB		
8.	The simulator modeling is not altered.	TZW	JFB		
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.	TZW	JFB		
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.	TZW	JFB		
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	TZW	JFB		
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).	TZW	JFB		
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	TZW	JFB		
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)		Actual Attributes	--	--	--
1.	Total malfunctions (5-8)	8 / 9 / 9	TZW	JFB	
2.	Malfunctions after EOP entry (1-2)	3 / 5 / 4	TZW	JFB	
3.	Abnormal events (2-4)	4 / 4 / 4	TZW	JFB	
4.	Major transients (1-2)	2 / 1 / 1	TZW	JFB	
5.	EOPs entered/requiring substantive actions (1-2)	3 / 4 / 3	TZW	JFB	
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 1	TZW	JFB	
7.	Critical tasks (2-3)	3 / 2 / 3	TZW	JFB	

Facility: <b>WATTS BAR</b>		Date of Examination: <u>JAN 29 - FEB 7, 01</u>
Examination Level (circle one): <b>RO</b> / SRO		Operating Test Number <u>1</u>
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	<b><u>Conduct of Operations</u></b> Use of station reference materials.	JPM - Determine Main Turbine roll and loading rates using SOI-47.02 graphs. <u>K/A 2.1.25</u>
	Use of controlled procedures.	JPM - Obtain and verify controlled procedure copy using Curator. <u>K/A 2.1.21</u>
A.2	<b><u>Equipment Control</u></b> Knowledge of Surveillance Procedures	JPM - Calculate QPTR using 1-SI-0-21. <u>K/A 2.2.12</u>
A.3	<b><u>Radiation Control</u></b> Knowledge of radiation control requirements	JPM - Determine access route that results in least dose and if dose will exceed limit. <u>K/A 2.3.10</u>
A.4	<b><u>Emergency Procedures/Plan</u></b> Emergency Plan implementation	JPM - Respond to a medical emergency in accordance with EPIP-10 <u>K/A 2.4.39</u>

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Facility: <u>WATTS BAR</u>		Date of Examination: <u>JAN 29 - FEB 7, 01</u>
Examination Level (circle one): RO / <u>SRO</u>		Operating Test Number _____
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	<b><u>Conduct of Operations</u></b> Use of station reference materials.	JPM - Determine Main Turbine roll and loading rates using SOI-47.02 graphs. K/A 2.1.25
	Use of controlled procedures	JPM - Obtain and verify controlled procedure copy using Curator. K/A 2.1.21
A.2	<b><u>Equipment Control</u></b> Knowledge of Surveillance Procedures	JPM - Calculate QPTR using 1-SI-0-21. K/A 2.2.12
A.3	<b><u>Radiation Control</u></b> Procedures to guard against personnel exposure	JPM - Determine access route that results in least dose and if dose will exceed limit. K/A 2.3.10
A.4	<b><u>Emergency Procedures/Plan</u></b>	JPM - Classify a plant event and make initial notifications in accordance with EIPs (including protective action recommendation). K/A 2.4.41

Facility: Watts BarDate of Examination: JUN 27, 1987, 01

Exam Level (circle one): RO / SRO(I) / SRO(U)

Operating Test No.: 1

## B.1 Control Room Systems

System / JPM Title	Type Code*	Safety Function
a. <b>003/Retrieve a Dropped Rod per AOI-2</b> <u>JPMR095A</u>	D, A, S	1
b. 004/Respond to Pressurizer High Level per FR-I.1 <u>JPMR023</u>	D, A, S	2
c. 006/Increase Cold Leg Accumulator Pressure <u>JPMR055</u>	D, S	3
d. <b>003/Start a Reactor Coolant Pump per SOI-68.2</b> <u>JPMR028A</u>	D, A, S, L	4 (primary)
e. 008/Start a Thermal Barrier Booster Pump per SOI-70.01. <u>JPMR039</u>	D, S	8
f. <b>027/Shutdown "A" Train EGTS Following 10 Hour Run</b> <b>per SOI-65.02.</b> <u>JPMR168</u>	N, S	5
g. 015/Return PRM N-42 to Service per AOI-4. <u>JPMR108A</u>	M, S, A	7

## B.2 Facility Walk-Through

a. <b>061/Local Control of S/G Levels. (AFWT-AS) per SOI-3.02.</b> <u>JPMA047</u>	D, R	4 (secondary)
b. 073/Align the Upper Containment Monitor to the Lower Containment Locally <u>JPMA044A</u>	D	7
c. <b>008/Alignment of ERCW to 1A-A CCP Lube Oil Heat Exchanger per AOI-15.</b> <u>JPMA098</u>	D,R	8

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

OPERATING TEST NO.:

Applicant Type	Evolution Type	Minimum Number	Scenario Number					
			1		2		3	
			RO	BOP	RO	BOP	RO	BOP
RO/BOP	Reactivity	1	1	0	2a	0	1	
	Normal	1	0	1	0	2b	0	1
	Instrument / Component	4	2,3 5,6	3,4 5	3,5a 7	1,4	3,5	2,4
	Major	1	7,8	7,8	6a	6a	6	6

As RO	Reactivity	1	1	2a	1
	Normal	0	0	0	0
	Instrument / Component	2	2,3,5,6	3,5a,7	3,5
	Major	1	7,8	6a	6
SRO-I	Reactivity	0	0	0	0
	Normal	1	1	2b	1
As SRO	Instrument / Component	2	2,3,4,5,6	1,3,4,5a,7	2,3,4,5
	Major	1	7,8	6a	6

SRO-U	Reactivity	0	0	0	0
	Normal	1	1	2b	1
	Instrument / Component	2	2,3,4,5,6	1,3,4,5a,7	2,3,4,5
	Major	1	7,8	6a	6

- 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:

*Lenny L. Newman*

Chief Examiner:

*[Signature]*

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

Notes:

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

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: *Serry L. Neppan*

Chief Examiner: *[Signature]*

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 1/26 - 2/02/2001 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 1/26 - 2/02/2001. 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. Terry L. Newman	SRO Instructor / Exam Author	<i>Terry L. Newman</i>	2/30/00	<i>Terry L. Newman</i>	2/6/01
2. Randolph H. Evans	SRO Instructor / Exam Author	<i>Randolph H. Evans</i>	2/30/00	<i>Randolph H. Evans</i>	2/6/01
3. Albert V. White	SRO Instructor / Exam Author	<i>Albert V. White</i>	9/12/00	<i>Albert V. White</i>	2/6/01
4. Jack W. Cox, Jr.	Training Mgr.	<i>Jack W. Cox, Jr.</i>	9/27/00	<i>Jack W. Cox, Jr.</i>	2/6/01
5. James D. Knight	Software Engineer	<i>James D. Knight</i>	10/18/00	<i>James D. Knight</i>	2/6/01
6. Edward J. Knoblauch	SIM Engr.	<i>Edward J. Knoblauch</i>	10/19/00	<i>Edward J. Knoblauch</i>	2/6/01
7. William G. Boesly	SIM Engr	<i>William G. Boesly</i>	11/18/00	<i>William G. Boesly</i>	2/6/01
8. Kevin D. Garrison	SIMF	<i>Kevin D. Garrison</i>	10/18/00	<i>Kevin D. Garrison</i>	2-5-01
9. Kay A. Lovell	SIM ENGR	<i>Kay A. Lovell</i>	10/19/00	<i>Kay A. Lovell</i>	2/7/01
10. Zdzislaw Bednarski	Unit Operator / Validation	<i>Zdzislaw Bednarski</i>	11/16/00	<i>Zdzislaw Bednarski</i>	02/06/01
11. James E. Baker	Operations Training Mgr.	<i>James E. Baker</i>	11/16/00	<i>James E. Baker</i>	02/06/01
12. Stephen M. Baker	Ops Spec. SRL	<i>Stephen M. Baker</i>	11/27/00	<i>Stephen M. Baker</i>	02/06/01
13. George Pickar	Unit Operator	<i>George Pickar</i>	1/5/01	<i>George Pickar</i>	2/7/01
14. Clyde T. Benton	SRO INSTRUCTOR	<i>Clyde T. Benton</i>	1/29/01	<i>Clyde T. Benton</i>	2/6/01
15. David A. Kolisek	Ops Mgr	<i>David A. Kolisek</i>	1/29/01	<i>David A. Kolisek</i>	2/6/01

NOTES:

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 01/26-02/04/01 as of the date of my signature. I agree that I will not knowingly divulge any information about these examinations to any persons who have not been authorized by the NRC chief examiner. I understand that I am not to instruct, evaluate, or provide performance feedback to those applicants scheduled to be administered these licensing examinations from this date until completion of examination administration, except as specifically noted below and authorized by the NRC. Furthermore, I am aware of the physical security measures and requirements (as documented in the facility licensee's procedures) and understand that violation of the conditions of this agreement may result in cancellation of the examinations and/or an enforcement action against me or the facility licensee. I will immediately report to facility management or the NRC chief examiner any indications or suggestions that examination security may have been compromised.

2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of 1/26-2/4/01. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE NOTE
1. Dale A Hoffman	Instructor	<i>Dale A Hoffman</i>	1-30-01	<i>Dale A Hoffman</i>	2/6/01
2. John B Roden	Ops Sup It	<i>John B Roden</i>	1-30-01	<i>John B Roden</i>	2/6/01
3. STEVE WOETHRICH	VO	<i>Steve Woethrich</i>	1-31-01	<i>Steve Woethrich</i>	2/6/01
4. Harry J. Voiles	INSTRUCTOR	<i>Harry J. Voiles</i>	2/5/01	<i>Harry J. Voiles</i>	2/6/01
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NOTES:

Facility: Watts Bar Nuclear Plant Date of Exam: January 26 - February 6

Examinations Developed by: Written: Facility  
Operating: NRC

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

\* 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.

[ ] Applies only to examinations prepared by the NRC.

Watts Bar Nuclear Plant	
Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	02/12/01
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	02/14/01
3. Operating tests graded by NRC examiners	02/28/01
4. NRC Chief examiner review of written exam and operating test grading completed	02/28/01
5. Responsible supervisor review completed	03/01/01
6. Management (licensing official) review completed	03/01/01
7. License and denial letters mailed	03/05/01
8. Facility notified of results	03/05/01
9. Examination report issued (refer to NRC MC 0610)	03/05/01
10. Reference material returned after final resolution of any appeals	N/A

March 5, 2001

NOTE TO: Ron Aiello, DRS

FROM: Bev Michael, DRS *Bew*

SUBJECT: LICENSES ISSUED - WATTS BAR NUCLEAR PLANT EXAMINATION  
NO. 2001-301 ADMINISTERED January 26, AND 29 - FEBRUARY 7, 2001  
(EXAM WRITTEN BY FACILITY)

<u>Docket No.</u>	<u>RO/SRO</u>	<u>License Number</u>	<u>Conditions</u>	<u>Effective Date</u>	<u>Instant or Upgrade</u>
55-21700	Steven S. Barnes	OP-21382	Glasses	3/5/2001	
55-21952	Gary R. Dennis	OP-21383	Glasses	3/5/2001	
55-50747	William J. Hahn	OP-21384	None	3/5/2001	
55-22409	William H. Horton	OP-21385	Glasses	3/5/2001	
55-22539	Jacob F. Martin	OP-21386	None	3/5/2001	
55-22540	Danny E. Newby	OP-21387	None	3/5/2001	
55-22541	Pedro A. Williams, Jr.	OP-21388	None	3/5/2001	
55-22535	Joyce N. Artis	SOP-21638	None	3/5/2001	<i>INSTANT</i>
55-20570	Robert H. Bowles	SOP-21639	Glasses No Solo - Qualified June 2001 Status Report	3/5/2001	Upgrade
55-21437	Richard S. Egli	SOP-21640	Glasses	3/5/2001	Instant
55-22538	Vernon P. Law	SOP-21641	None	3/5/2001	Instant
55-21800	Stuart L. Switzer	SOP-21642	Glasses	3/5/2001	Upgrade
55-21954	Mary L. Watson	SOP-21643	None	3/5/2001	Upgrade

**Delay Issuance of License (Pending Appeal if Any - Performance Deficiencies)**

None

**Denial(s)**

None

Distribution: M. Ernstes, DRS  
M. Miller, DRS  
G. Salyers, DRS  
OL Specific Reading File  
Certs

*WATTS BAR  
TRAINING SUPERVISOR, Jim BAKER  
NOTIFIED OF THE ABOVE  
RESULTS AT 1510 ON 3/5/01  
BY STEVEN D. ROSE  
*SD Rose**