

COVER SHEET
FARLEY INITIAL EXAM
50-348 & 50-364/2001-301

JULY 23 - 27, 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: <u>Farley</u>		Date of Examination: <u>Written 7/30/01, Operating 7/23-26/01</u>
Examinations Developed by:		Facility / <u>NRC</u> (circle one)
Target Date*	Task Description / Reference	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a & b)	RSB
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	RSB
-120	3. Facility contact briefed on security & other requirements (C.2.c)	RSB
-120	4. Corporate notification letter sent (C.2.d)	RSB
[-90]	[5. Reference material due (C.1.e; C.3.c)]	RSB
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	RSB
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	RSB
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	RSB
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	RSB
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	RSB
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	RSB
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	RSB
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	RSB
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	RSB
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	RSB
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	RSB
<p>* Target dates are keyed to the examination date identified in the corporate notification letter. They are for planning purposes and may be adjusted on a case-by-case basis in coordination with the facility licensee.</p> <p>[] Applies only to examinations prepared by the NRC.</p>		

Facility: Farley		Date of Examination: Written 7/30/01, Operating 7/23-26/01		
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.	Ⓟ		LM
	b. Assess whether the outline was systematically prepared and whether all knowledge and ability categories are appropriately sampled.	Ⓟ		LM
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	Ⓟ		LM
	d. Assess whether the repetition from previous examination outlines is excessive.	Ⓟ		LM
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.	LM		LM
	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.	LM		LM
	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.	LM		LM
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.	LM		LM
	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.	LM		LM
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	LM		LM
	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.	LM		LM
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.	LM		LM
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	LM		LM
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	LM		LM
	d. Check for duplication and overlap among exam sections.	LM		LM
	e. Check the entire exam for balance of coverage.	LM		LM
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	LM		LM
a. Author		Steven D. Rose / <i>[Signature]</i>		Date
b. Facility Reviewer(*)		N/A		7/5/01
c. Chief Examiner		Richard S. Baldwin/Lee R. Miller <i>[Signature]</i>		7/5/01
d. NRC Supervisor		Michael E. Ernstes <i>[Signature]</i>		7/19/01

(*) Not applicable for NRC-developed examinations.

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

Plant Facility Written Exam and RNP RO Retake written

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 7/30/01 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 _____. From the date that I entered into this security agreement until the completion of examination administration, I did not instruct, evaluate, or provide performance feedback to those applicants who were administered these licensing examinations, except as specifically noted below and authorized by the NRC.

PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
1. <u>Donald W. McCaskill</u>	<u>Supt. OPS Training Review</u>	<u>[Signature]</u>	<u>5/24/01</u>	<u>[Signature]</u>	<u>8/6/01</u>	
2. <u>RICHARD O. MOORE</u>	<u>Proj. Tech. Spec. Review</u>	<u>[Signature]</u>	<u>5/24/01</u>	<u>[Signature]</u>	<u>8/6/01</u>	
3. <u>William A. Musselwhite</u>	<u>INST / REVIEW / OPS</u>	<u>[Signature]</u>	<u>5/25/01</u>	<u>[Signature]</u>	<u>8/6/01</u>	
4. <u>DARRYL POSTER</u>	<u>OPS / Review</u>	<u>[Signature]</u>	<u>5-29-01</u>	<u>[Signature]</u>	<u>8-7-01</u>	
5. <u>Kenneth S. Jones</u>	<u>OPS / Review</u>	<u>[Signature]</u>	<u>6/18/01</u>	<u>per-mail [Signature]</u>	<u>8-6-01</u>	
6. <u>WALTER OLIVER</u>	<u>OPS / Review</u>	<u>[Signature]</u>	<u>6/18/01</u>	<u>per-mail [Signature]</u>	<u>8-6-01</u>	
7. <u>Lee Sanders</u>	<u>OPS / Review</u>	<u>[Signature]</u>	<u>6/18/01</u>	<u>per-mail [Signature]</u>	<u>8-7-01</u>	
8. <u>NELSON BARNES</u>	<u>OPS / Review</u>	<u>[Signature]</u>	<u>7-9-01</u>	<u>per-mail [Signature]</u>	<u>8-7-01</u>	
9. _____	_____	_____	_____	_____	_____	_____
10. _____	_____	_____	_____	_____	_____	_____
11. _____	_____	_____	_____	_____	_____	_____
12. _____	_____	_____	_____	_____	_____	_____
13. _____	_____	_____	_____	_____	_____	_____
14. _____	_____	_____	_____	_____	_____	_____
15. _____	_____	_____	_____	_____	_____	_____

NOTES:

Farley / Robinson Nuclear Plants

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of 23 July and 30 July, 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 23 July and 30 July, 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)	DATENOTE
1. Gary T. O'Hara	Plant Instructor / Nuclear	[Signature]	5-7-01	[Signature]	8-6-01
2. M. Gail Rollins	Admin Asst I	[Signature]	5-10-01	M. Gail Rollins	7/31/01
3. Joel L. Deavers	Sr. Plant Inst. ops	[Signature]	5/22/01	J. L. Deavers	7/31/01
4. Debra L. Marsh	IR	[Signature]	6/7/01	Debra L. Marsh	7/31/01
5. Tom Reece	IR	[Signature]	6/14/01	Tom Reece	7/31/01
6. W. C. McPherson	Simulation Applications Analyst	[Signature]	6/25/01	[Signature]	8/22/01
7. Randy P. Adam	Plant Instructor / Nuclear	[Signature]	6/26/01	R. P. Adam	7/31/01
8. Thomas G. Blindauer	Shift Supervisor	[Signature]	7/2/01	[Signature]	8/1/01
9. Spencer T. Hayes	Control Tech.	[Signature]	7/18/01	Spencer T. Hayes	7/31/01
10. James G. Horan	Operations Training Supv	[Signature]	7/23/01	[Signature]	7/31/01
11. RICK C. LULLING	OPERATIONS SUPERINTENDENT	[Signature]	7/23/01	[Signature]	8/1/01
12. Michael Galle	Simulation Coordinator	[Signature]	7/23/01	Michael Galle	7/31/01
13. J. M. Powell	Sr. Plant Instructor	[Signature]	7/23/01	J. M. Powell	7/31/01
14. Mark Levett	Plant Instructor - Nuclear	[Signature]	7/23/01	[Signature]	7/31/01
15.					

NOTES: #4/5 worked on and removed stand alone computer from exam room. No known exam material was on hard drive. Signed for precautionary reasons.

Facility: <u>Farley Nuclear Plant</u>		Date of Examination: <u>July, 2001</u>
Examination Level (Circle One): RO / SRO		Operating Test Number: _____
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	SECURITY	SECURITY QUESTION ARP-1.13
		ESCORT QUESTION
	CONDUCT OF OPERATIONS	AP-6
		OPERATING CONTROLS
A.2	VALVE LINEUPS	JPM ON PERFORMING VALVE LINEUPS
		NA
A.3	PERSONNEL EXPOSURE	JPM ON ASSESSING EXPOSURE FOR A SPECIFIC JOB
		NA
A.4	EMERGENCY PLAN	FIRE EMERGENCY EIP-13
		EIP-9.2 MET TOWER DATA

Facility: <u>Farley Nuclear Plant</u>		Date of Examination: <u>May, 2000</u>
Examination Level (Circle One): <u>R0 / SRO</u>		Operating Test Number: <u>S (B)</u>
Administrative Topic/Subject Description	Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions	
A.1	SECURITY	SECURITY QUESTION ARP-1.13
		WHERE CAN SP-27 BE LOCATED?
	CONDUCT OF OPERATIONS	AP-6
		OPERATING CONTROLS
A.2	VALVE LINEUPS	JPM ON PERFORMING VALVE LINEUPS
		NA
A.3	PERSONNEL EXPOSURE	JPM ON ASSESSING EXPOSURE FOR A SPECIFIC JOB
		NA
A.4	EMERGENCY PLAN	JPM SS- , Classify an Emergency Event and Make Initial Notifications – 2.4.41 (2.3/4.1)
		NA

Facility: FarleyDate of Examination: 7/23-26/01

Exam Level: SRO(U)

Operating Test No.: _____

B.1 Control Room Systems

System / JPM Title	Type Code*	Safety Function
a. Perform the Recovery Actions in response of the Rod Control System for a Misaligned Rod CRO-033B	DS	1
b. Establish letdown as Required in Response to a Spurious Safety Injection CRO-343C Modified	MAS	2
c. N/A		
d. CTMT Mini-Purge CRO-NEW	NAS	5
e.		
f.		
g.		

B.2 Facility Walk-Through

a. Performed the Required Actions to Minimize DC Loads SO-607	MR	6
b. Shift to A SFP cooling loop in operation SO-128	DR	8

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

Facility: FarleyDate of Examination: 7/23-26/01

Exam Level: SRO(I)

Operating Test No.: _____

B.1 Control Room Systems

System / JPM Title	Type Code*	Safety Function
a. Perform the Recovery Actions in response of the Rod Control System for a Misaligned Rod CRO-033B	DS	1
b. Establish letdown as Required in Response to a Spurious Safety Injection CRO-343C Modified	MAS	2
c. Perform required actions for Cold Leg Recirc CRO-333D	DAS	4
d. CTMT Mini-Purge CRO-NEW	NAS	5
e. Removing a Diesel Generator from Operation CRO-NEW	NAS	6
f. Perform required actions for NIS-PR failure CRO-127A	DS	7
g. Return SW to Normal Ops CRO-292B	LDS	8

B.2 Facility Walk-Through

a. Defeat Auto Start of Safeguards Equipment SO-610C	D	2
b. Drain PRT (Using the RCDT Pumps) SO-570	DR	5
c. Rack-in 600V Load Center Breaker SO-324	D	6

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

Facility: Farley
Exam Level: RO

Date of Examination: 7/23-26/01
Operating Test No.: _____

B.1 Control Room Systems

System / JPM Title	Type Code*	Safety Function
a. Perform the Recovery Actions in response of the Rod Control System for a Misaligned Rod CRO-033B	DS	1
b. Establish Letdown As Required In Response To A Spurious Safety Injection CRO-343C Modified	MAS	2
c. Perform required actions for Cold Leg Recirc CRO-333D	DAS	4
d. CTMT Mini-Purge CRO-NEW	NAS	5
e. Removing a Diesel Generator from Operation CRO-NEW	NAS	6
f. Perform required actions for NIS-PR failure CRO-127A	DS	7
g. Return SW to Normal Ops CRO-292B	LDS	8

B.2 Facility Walk-Through

a. Shift Auxiliary Feed Pump Suction to Emergency Supply SO-311	D	4
b. Drain PRT (Using the RCDT Pumps) SO-570	DR	5
c. Rack-in 600V Load Center Breaker SO-324	D	6

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

Facility: Farley		Date of Examination: 7/23-26/01		Operating Test Number:	
1. GENERAL CRITERIA			Initials		
			a	b	c#
a.	The operating test conforms with the previously approved outline; changes are consistent with sampling requirements (e.g., 10 CFR 55.45, operational importance, safety function distribution).	LM			100
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	LM			100
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	N/A			N/A
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	LM			100
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	LM			100
2. WALK-THROUGH (CATEGORY A & B) CRITERIA			--	-	--
a.	Each JPM includes the following, as applicable: <ul style="list-style-type: none"> initial conditions initiating cues references and tools, including associated procedures reasonable and validated time limits (average time allowed for completion) and specific designation if deemed to be time critical by the facility licensee specific performance criteria that include: <ul style="list-style-type: none"> detailed expected actions with exact criteria and nomenclature system response and other examiner cues statements describing important observations to be made by the applicant criteria for successful completion of the task identification of critical steps and their associated performance standards restrictions on the sequence of steps, if applicable 	LM			100
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	LM			100
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.	LM			100
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	LM			100
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.	LM			100
Printed Name / Signature		Date			
a. Author	R. Baldwin (Simulator) / Lee Miller (Operating Test)	7/18/01			
b. Facility Reviewer(*)	N/A				
c. NRC Chief Examiner (#)	R. Baldwin / L. Miller	7/18/01			
d. NRC Supervisor (*)	Michael E. Ernstes	7/18/01			
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c," chief examiner concurrence required.					

Facility:	Farley	Date of Exam:	July 23, 2001	Scenario Numbers:	1 / 2 /	Operating		
				Test No.:	A			
QUALITATIVE ATTRIBUTES					Initials	a	b	c
					LM			LM
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.				LM			LM
2.	The scenarios consist mostly of related events.				LM			LM
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)				LM			LM
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.				LM			LM
5.	The events are valid with regard to physics and thermodynamics.				LM			LM
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.				LM			LM
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.				LM			LM
8.	The simulator modeling is not altered.				LM			LM
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.				LM			LM
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.				LM			LM
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).				LM			LM
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).				LM			LM
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.				LM			LM
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)					Actual Attributes	--	--	--
1.	Total malfunctions (5-8)				6 / 5 /	LM		LM
2.	Malfunctions after EOP entry (1-2)				3 / 3 /	LM		LM
3.	Abnormal events (2-4)				4 / 3 /	LM		LM
4.	Major transients (1-2)				1 / 1 /	LM		LM
5.	EOPs entered/requiring substantive actions (1-2)				1 / 1 /	LM		LM
6.	EOP contingencies requiring substantive actions (0-2)				1 / 2 /	LM		LM
7.	Critical tasks (2-3)				7 / 5 /	LM		LM

OPERATING TEST NO.: CREW 1,2,3

Applicant Type	Evolution Type	Minimum Number	Candidate/Scenario Number/Position					
			U-SRO-1,2,3		I-SRO-1,2,3		RO-1,2,3	
			Scen. 1 SRO	Scen. 2 BOP	Scen. 1 RO	Scen. 2 SRO	Scen. 1 BOP	Scen. 2 RO
RO	Reactivity	1					1	4
	Normal	1					1	3
	Instrument / Component	4					3-C, 5-C	1-1,2-1
	Major	1					6	5
As RO	Reactivity	1			4			
	Normal	0			3			
	Instrument / Component	2			2-1, 4-1, 5-C			
	Major	1			6			
SRO-I								
As SRO	Reactivity	0				4		
	Normal	1				3		
	Instrument / Component	2				1-1,2-1		
	Major	1				5		
SRO-U	Reactivity	0	5	4				
	Normal	1	1					
	Instrument / Component	2	2-1, 3-C, 4-1, 5-C					
	Major	1	6	5				

- 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.
 - (3) 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 the minimum requirement.

Author:

Chief Examiner:

NUREG-1021, Revision 8 Supplement 1

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			
	1	2	3	4	1	2	3	4	1	2	3	4
Understand and Interpret Annunciators and Alarms	2,3,4 ,5,6, 6a	4,5,6 ,6a			2,4 6 ,6a	1,2,3 ,5,6, 6a			1,3,5 ,6, 6a	1,2,3 ,4,5, 6,6a		
Diagnose Events and Conditions	2,3,4 ,5,6, 6a	4,5,6 ,6a			2,4 6 6a	1,2,3 ,5,6, 6a			1,3,5 ,6, 6a	1,2,3 ,4,5, 6,6a		
Understand Plant and System Response	2,3,4 ,5,6, 6a	4,5,6 ,6a			2,4 6 6a	1,2,3 ,5,6, 6a			1,3,5 ,6, 6a	1,2,3 ,4,5, 6,6a		
Comply With and Use Procedures (1)	2,3,4 ,5,6, 6a	4,5,6 ,6a			2,4 5 6 6a	1,2,3 ,4,5, 6,6a			1,3,5 ,6, 6a	1,2,3 ,4,5, 6,6a		
Operate Control Boards (2)		4,5,6 ,6a			2,4 5 6 6a	1,2,3 ,4,5, 6,6a			1,3,5 ,6, 6a			
Communicate and Interact With the Crew	1,2,3 ,4,5, 6, 6a	4,5,6 ,6a			2,4 5 6 6a	1,2,3 ,4,5, 6,6a			1,3,5 ,6, 6a	1,2,3 ,4,5, 6,6a		
Demonstrate Supervisory Ability (3)	1,2,3 ,4,5, 6, 6a									1,2,3 ,4,5, 6,6a		
Comply With and Use Tech. Specs. (3)	2,4				2	1,2,5			3	1,2,3 ,4,5, 6,6a		
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:

Lee R. Hill 7/5/01

NRC Reviewer:

Robert J. Stalder 7/5/01

Facility:		Date of Exam:		Exam Level: <u>RO/SRO</u>		
Item Description				Initial		
				a	b*	c#
1. Questions and answers technically accurate and applicable to facility				<input checked="" type="checkbox"/>		ROS LM
2. a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available				<input checked="" type="checkbox"/>		ROS LM
3. RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401				<input checked="" type="checkbox"/>		ROS LM
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				—NRG	Other	
4. [No (Less than 5 percent) Question duplication from the license screening/audit exam (if independently written)] was controlled as indicated below (check the item that applies) and appears appropriate: ___ the audit exam was systematically and randomly developed; or ___ the audit exam was completed before the license exam was started; or ___ the licensee certifies that there is no duplication; or <input checked="" type="checkbox"/> the license exam was prepared by the NRC				<input checked="" type="checkbox"/>		ROS LM
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
				41	6	53
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	C/A	
				42	58	
7. References/handouts provided do not give away answers				<input checked="" type="checkbox"/>		ROS LM
8. Question content conforms with specific K/A statements in the distribution meets previously approved examination outline; deviations are justified				<input checked="" type="checkbox"/>		ROS LM
9. Question psychometric quality and format meet ES, Appendix B, guidelines				<input checked="" type="checkbox"/>		ROS LM
10. The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet				<input checked="" type="checkbox"/>		ROS LM
Printed Name / Signature				Date		
a. Author <u>STEVEN D. ROSE / <i>[Signature]</i></u>				<u>6/28/01</u>		
b. Facility Reviewer(*)						
c. NRC Chief Examiner(*) <u>LEER. MILLER / <i>[Signature]</i> ALTHRO S. BROWN / <i>[Signature]</i></u>				<u>7/5/01</u>		
d. NRC Regional Supervisor(*) <u>MIKE EARNSTGS / <i>[Signature]</i></u>				<u>7/18/01</u>		
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, 4, 5, and 68. [] The items in brackets do not apply to NRC-prepared examinations.						

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Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
1	H	3											X	E	SRO ONLY. 001A2.15, T2G1, 1. Parenthesis around the noun name for the annunciator. 2. Change the stem to read as changed on the question. Otherwise OK.
2	H	2-3	X										X	E	SRO ONLY 014G2.1.7, T2G1 1. Change the stem as requested on the question. 2. Try not to use "select the best choice"
3	H	3													SRO ONLY, 028A2.02, T2G2, Farley 1998 1. Ok as is.
4	H	3	X										X	E	SRO ONLY, 033EG 2.1.12 T1G2, NEW, 2. Rearrange the stem to have Reactor come before start up. 3. Remove MUST from distractor 'a'. 4. Replace distractor 'b' to read Place IR N36, channel level in the 'BYPASS' position with in 6 hours and be in mode 3 with in 12 hours.
5	H	3											X	S	SRO ONLY, 009EA2.34, T1G2, New , Byron 2000-301 1. Appears to be ok. Provided you do not give TSs
6	H	3											X	S	SRO ONLY, G.2.1.12, T 3, NEW, Byron 2000-301 1. OK provided you do not give TSs.
7	F	2-3											X	S	SRO ONLY, Bank, G2.2.22 T3 1. OK provided you do not provide Tss. 2. Not sure this is required memory level question.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
8	H	3											X	S	SRO ONLY, T1G1, 076AA2.02, Bank, 1. Appears to be ok, provided you do not provide TS s to the applicants.
9	F	2-3											X	S	SRO ONLY, G2.1.10, T3, NEW, Byron 2000-301 1. Appears to be ok. Just remove the coma's in distractors a and b.
10	F	3											X	S	SRO ONLY, 034G 2.1.11, T2G2, Bank 1. Appears to be ok, Provided no TS s provided. Spelling correction in Stem.
11	H	3											X	E	SRO ONLY, G2.3.04,T3,Bank 1. Add the words "who has voluntarily agreed to receive an emergency dose" between "team" and "has". 2. This will clarify that the individual is not Nuclear Plant personnel who may be required to receive an exposure up to 25 rem TEDE for the search and rescue team. Because you state "during continuation", it may be confusing to some.
12	H	3											X	S	SRO ONLY, 103A2.03, T2G2, Bank 1. Ok as is.
13	H	3											X	S	SRO ONLY, 036AA2.02, T1G3, New 1. Ok as is.
14	H	3											X	S	SRO ONLY, 038EA2.01, T1G2, New 1. Ok as is.
15	F	2											X	S	SRO ONLY, 054AA2.04, T1G1, Bank 1. Ok as is. 2. Note that their materials do not address condensation induced water hammer associated with AFW and low SG levels. This could affect distractor A.
16	H	2											X	E	SRO ONLY 015/017AA2.08, T1G1, New 1. To be consistent with other question put "ONE" in all caps.
17	F	2											X	E	SRO ONLY, G2.3.06, T3, New 1. Change the name of the "Turbine Building Water Sump" in the stem.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
18	F	2											X	E	SRO ONLY, G2.2.28, T3, MOD 1. Misspelled words - because, scaffolding, through, provided
19	H	2												E	SRO ONLY, 068AA2.09, T1G1, New 1. As discussed change Tcold to 405 2. Include words Reference provided
20	H	2												E	SRO ONLY, G2.4.21, T3, Bank 1. Typo in stem SI
21	F	2												E	SRO ONLY, G2.4.01, T3, New 1. Answer given by previous questions
22	F	2												S	SRO ONLY, 069EG2.2.24, T1G1, New 1. Appears ok
23	H	3												S	SRO ONLY, G2.1.07, T3, New 1. Appears ok
24	H	2												S	SRO ONLY, 029G2.4.21, T2G2 Bank 1. Appears ok
25	H	2												S	SRO ONLY, G2.3.09, T3, New 1. Appears ok
RO ONLY															
1	H	2-3	X											E	RO ONLY, 004G2.4.21, NEW 1. Operators vice operator. 2. Will power still be increasing if MW goes up by 2 Mwe but then stops? Meaning is it plausible that MW will still also be going up? 3. Stem, WOOTF describes the <u>most probable</u> cause of plant conditions? May need to change this to 4. No Cognitive level described. I believe this is an H. Rated 2-3.
2	H	3												E	RO ONLY, 005K4.10, T2G3 1. See the exam question. Basically, there are some stem changes. 2. Put an indent in in the stem.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
3	F	2-3												E	056K1.03, T2G1 1. Looks ok, just change 2 'B' vice '2B' 2. Memory level question.
4	H	3												E	076A2.02, T2G3 1. Put parenthesis in the stem, add some lines to make it easier to read. 2. Need to add the noun name for AOP-7.0 for at least the first distractor.
5	F	2-3												E	061K4.02, T2G1 1. Question is basically ok. I would add to distractor 'c' the specific steam generator level. I would use 26 or 27% which would be an actuation level for unit 1.
6	F	3													007G2.3.2, T2G3, Bank, Farley 1998 exam 1. Question appears to be ok. Misspelled Fuel in the stem.
7	H	3													022K2.01 T2G1, Bank, Farley 1999 exam 1. In stem align margins 2. Put line spaces between distractors. 3. Otherwise looks ok.
8	F	2-3													022A3.01, New 1. I don't like to use the set point. Change this to 28psig in both distractors a and d. 2. Should read a. Containment pressure of 28 #s during a loss of OSP b. Containment pressure of 28 #s c. LOSP d. SI

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9	F	3													026G2.4.20, New, Byron 2000-301 Exam 1. Indent the procedural step quote. This will make it stand out as such. 2. Can this question in any way provide information concerning a previous question. This seems to be pretty similar. Need to look at the other question again. 3. Otherwise ok
10	F	2-3												E	028K2.01, T2G3, Bank, Farley Q # 052102D10013 1. is answer is kind of easy to pick out for me because I know the procedure. I am not sure that they will pick any other distractors. Reword distractors 2. Should read as follows: 1. Verify power available light ON, then verify the "PWR. ADJ." potentiometer is set to zero (0) position prior to turning on the "PWR. OUT SW." switch. 2. Verify power available light OFF, then verify the "PWR. ADJ." potentiometer is set to zero (0) position prior to turning on the "PWR. OUT SW." switch. 3. Verify power available light ON, then turn on the "PWR. OUT SW." switch prior to adjusting the "PWR. ADJ." potentiometer to the zero (0) position. 4. Verify the power available light OFF, then turn on the "PWR. OUT SW." switch prior to adjusting the "PWR. ADJ." potentiometer to the zero (0) position. 3. Distractor changes will change the intent of the question. Will have to replace the new 'b' with the old 'b' and use the new 'c'. Have to look at the old 'd' to see if we can get something more reasonable. Needs a lot more work. Will look at later and figure out what to do.

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11	H	3												E	RO ONLY, 015 A1.04, T2G1, Bank, Farley Exam 2000-301, 1. Appears to be ok, provided you do not provide TS s. 2. Change word in stem from becoming to being.
12	F	2-3	X											E	RO ONLY, 064K2.02, T2G2, NEW 1. Appears to be ok, need to change some wording in the stem.
13	H	3												E	RO ONLY, G 2.1.03, T3, NEW, 1. Question looks ok, do we need only there? 2.
14	F	2												S	RO ONLY, G2.3.01, T3, Bank, Farley Exam 2000-301, 1. Appears to be ok, Lee looked at it.
15	F	2												S	RO ONLY, W/E05EK2.1, T1G2, New 1. Appears ok.
16	F	1		X		X								E	RO ONLY,027AA1.01, T1G1, New Suggest using combinations of PROV-445A and 445B in answer
17	H	2												S	RO ONLY,015A2.01, T2G1, Bank 1. Appears ok.
18	H	2												S	RO ONLY,001K6.08, T2G1, New 1. Appears ok
19	F	2												S	RO ONLY,G2.4.07, T3, Bank 1. Appears ok
20	F	2												S	RO ONLY, 033K3.01, T2G2, Bank 1. Appears ok.
21	H	3												S	RO ONLY, 017K3.01, T2G1/T2G1, New 1. Appears ok.
22	F	2												S	RO ONLY, 29A4.04, T2G2, Bank 1. Appears ok
23	F	3												S	RO ONLY,G2.4.11, T3, Bank 1. Appears ok

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24	F	2												S	RO ONLY, G2.4.12, T3, Bank 1. Appears ok. Only question would be reference to "order" is it necessary to make it clear that step sequence is the question?
25	F	2												S	RO ONLY, G2.2.03, T3, New 1. Appears ok
RO/SRO COMMON QUESTIONS															
1	F	2-3	X											E	002K6.02, T2G2, 1. Change stem wording as listed on the question. 2. Memory
2	H	3-4												E	003K1.03, T2G1 1. Terminology in the stem. 2. Looks ok otherwise.
3	F	2-3												S	003K4.03, T2G1, NEW 1. Underline NORMAL and Capitalize it. 2. This question they may say is too trivial. Will see what they come up with. Otherwise it is ok.
4	H	3												E	004K3.04, T2G3, Bank 1. Changed the stem to ask it differently. See the test. 2. Otherwise ok.
5	F	2-3												E	005K1.13, T2G3, Bank, 1. Added parenthesis, changed the set point values to any value that would work. See exam. 2. Moved over one space in stem.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
6	F	3	x											U	010A3.02, T2G2, Bank 1. Stem changes 2. Distractor 'a', 'b' and 'c' changes. 3. Distractor 'd' does not make sense to me. Can we replace this one.
7	H	3-4												S	011A3.03, T2G2, NEW 1. Some minor changes. 2. Otherwise it looks good
8	F	2												E	013A4.02, T2G1, Bank 1. See test for comments. 2. PSIA vs PSIG. 3. Not very hard but OK.
9	H	2-3												E	035A1.01, T2G2, NEW 1. See test question. Remove the noun name for the FRV in the second part of the stem, it was already defined in the beginning of the stem. 2. There are 3 open FRVs and 1 close FRV, not sure why anyone would pick C. Otherwise ok.
10	F	2-3												E	014K5.01, T2G2, Bank 1. The stem states ...actual.... Is there an actual position. Only approximations, need to change the wording of this. 2. Also, the stem does not ask about the basis for this decision, need to add some words to make it ask what we want them to do. 3. Otherwise ok.
11	H	3												E	035K5.01, T2G2, Bank, Farley 1997 1. Pimp, should this be something like P "IMP" 2. Otherwise ok. Disagree with level of knowledge, I believe this is more of a upper level question. Have to use information provided to analyze and determine rod speed.

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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Back-ward	Q= K/A	SRO Only		
12	H	3												E	041A3.02, T2G3, Farley Bank 1. Look at stem change. 2. Otherwise ok.
13	F	2-3												E	055K3.01, T2G2, Bank, Farley exam 1997 1. Capitalize and underline FIRST, 2. Remove will alarm from a, b, and d distractors. 3. Replace go out with extinguish. 4. Otherwise ok.
14	H	3											?	E	059K4.13, T2G1, Modified, Farley 1997 examination. 1. Add parenthesis as in marked copy. 2. This question may not be of the RO level. This question was originally on the 1997 SRO only exam. Need to have the utility determine if they expect the RO applicants to have this knowledge from memory.
15	H	2-3												E	061K2.02, T2G1, NEW, 1. Add S/G designators to the levels in the stem. 2. Capitalize Unit 3. Low level cognitive analysis 4. The TDAFW pump starts on UV on the RCP buses, will the loss of 1 B SU transformer cause a UV for the RCP buses? Talked to Steve, he said this was not a problem. 5. Otherwise looks ok.
16	H	2-3													061K6.01, T2G1, Farley Exam Bank 1. Change the Stem to remove in the event and replace it with if. 2. Place spacer lines between the distractors. 3. Otherwise ok.

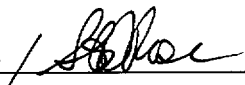
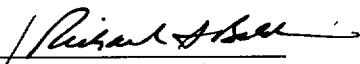
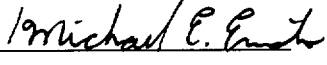
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			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
17	H	3-4												U	026K1.01 T2G2, Farley Bank, 1. You are correct, I agree that it may not fit the KA, will need to evaluate this further. This may need to be replaced. 2. The KA is for containment spray, cause and effect relationship between CSS and ECCS. Not sure how/what was the tie. 3. Not sure that this is an RO question. 4. Will have to come back to this one. 5. There are some changes to the question, add noun name to the valve in the stem. See question for the rest of the changes.
18	F	3												E	022A1.02, T2G1, NEW 1. Would rather change distractor a to look more like b and remove the 3 from the stem. This would be more than the minimum required. Look at test for change. 2. Otherwise ok.
19	H	3												S	056A1.01, T1G3, New, Byron 2000-301 1. Looks ok
20	F	3												S	073K4.01, T2G2, Modified 1. Minor changes to the stem and distractor 'a'.
21	F	2-3												E	078A4.01, T2G3, Bank, Farley #O5210A03014 1. Minor word changes to the stem. 2. Added both PI indicator numbers to distractors A and D24F2XXECOMMON QUESTIONS, 015/017AA1.22 T1G1 1. Distractor "B" is correct, 350 psig ensures 50 psig on high side of # 2 seal
22	F	2				X								E	055EA1.05, T1G1/T1G1, New 1. Distractor A is not reasonable. Change to 90 minutes.
23	H	2												E	040AK3.06, T1G1/T1G1, Bank 1. Distractor D change the hours in operation to 8, which is less than the nominal time auto transfer to recirc would occur.

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24	F	2				X								E	015/017AA1.22, T1G1/T1G1, Mod 1. Distractor B may be considered correct, sufficient pressure across the #1 seal ensures 50 psid on #2
25	H	3												S	COMMON QUESTIONS, 038EK3.06 T1G1 OK
26	H	3												S	COMMON QUESTIONS, 008K4.09, T2G3 OK
27	H	3		X										E	COMMON QUESTIONS, 054AK1.01, TIG2 1. You noted change of Tavg to 575 2. Depending on the size of the leak and duration, you could expect to see SG pressure decrease
28	H	3										X		E	COMMON QUESTIONS, 037AA2.01, TIG2 3. KA is for unusual readings of the monitors; steps needed to verify readings. AK3.03 is comparison of makeup flow and letdown flow for various modes of operation Change to 037AA2.06.
29	H	3												S	COMMON QUESTIONS, 009EG2.4.48, T1G2 OK
30	H	2												S	COMMON QUESTIONS, 075K1.01, T2G2/T2G2 1. Appears ok
31	F	2										X		E	COMMON QUESTIONS, 028AK2.03, T1G3 1. KA is for controllers and positioners 028AK2.02 is sensors and detectors
32	F	2										X		E	COMMON QUESTIONS, 005AK1.05 1. KA is for calculation for minimum shutdown margin. AK3.06 is for Actions contained in EOP
33	H	3												S	COMMON QUESTIONS, 025AK3.01, T1G2 OK
34	H	3					X							E	COMMON QUESTIONS, 032AA1.01, T1G2 1. Add wording to the effect that fuel movement in "B" and "D" to reflect that stopping fuel movement does not preclude completion of movement of a component to a safe position.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
35	F	2	X											E	COMMON QUESTIONS, G2.2.13, T3 1. Change the wording to-- Which one of the following positions must the individual hold in order to mark the RR block on the Tag Order Acceptance section of the cover sheet for a maintenance task.
36	F	2												S	COMMON QUESTIONS, 065EG2.4.11, T1G3/T1G2, Bank 1. Appears to be ok.
37	F	2				X								E	COMMON QUESTIONS, 062K2.01, T2G2/T2G2, Bank Distractor D has both the Normal and Backup the same source
38	F	1				X								E	COMMON QUESTIONS, 067AK3.04, T1G1/T1G1, Bank Distractors C and D are not credible, even from the Bank
39	F	2												E	COMMON QUESTIONS, G2.4.06, T3/T3, New 1. Misspelled word in Distractor A - ensure
40	H	3												E	COMMON QUESTIONS, W/E09EK2.2, T1G1/T1G1, New 1. Misspelled condensation Distractor A.
41	H	3												S	COMMON QUESTIONS, 001K5.05, T2G1/T2G1, New 1. Dependent on references provided, 2. Appears ok.
42	F	2												S	COMMON QUESTIONS, G2.2.12, T3/T3, New 1. Appears ok
43	H	2												S	COMMON QUESTIONS, W/E04EK1.2, T1G2/T1G2, New 1. Appears ok
44	H	2												S	COMMON QUESTIONS, 001A3.08, T2G1/T2G1, New 1. Appears ok
45	H	2												S	COMMON QUESTIONS, W/E03EK2.1, T1G2/T1G2, New 1. Appears ok
46	F	2												S	COMMON QUESTIONS, 074EA1.06, T1G1/T1G1, Bank 1. Appears ok
47	F	2										X		U	COMMON QUESTIONS, 006K5.04, T2G2/T2G2, New 1. Does not match K/A, does match 006k5.02
48	F	2												S	COMMON QUESTIONS, 076AK2.01, T1G1/T1G1, New 1. Appears ok

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
49	F	3												S	COMMON QUESTIONS, G2.1.20, T3/T3, New 1. Appears ok
50	H	2				X								E	COMMON QUESTIONS, 007EK2.03, T1G2/T1G2, New 1. Distractor A and B are the same.
51	H	2												S	COMMON QUESTIONS, 022AA1.08, T1G2/T1G2, New 1. Appears ok
52	H	2												S	COMMON QUESTIONS, 068A2.04, T2G1/T2G1, New 1. Appears ok
53	H	3												S	COMMON QUESTIONS, 024AK2.03, T1G1/T1G1, Mod 1. Appears ok
54	H	2												S	COMMON QUESTIONS, 001AK3.02, T1G2/T1G1, New 1. Appears ok
55	F	2												S	COMMON QUESTIONS, 011EA1.13, T1G2/T1G1, New 1. Appears ok
56	H	3												S	COMMON QUESTIONS, W/E02EK1.3, T1G2/T1G1, New 1. Appears ok
57	H	2												S	COMMON QUESTIONS, 062AA2.02, T1G1/T1G1, New 1. Appears ok
58	H	2												S	COMMON QUESTIONS, 057AK3.01, T1G1/T1G1, New 1. Appears ok
59	H	2	x											E	COMMON QUESTIONS, 008AA2.12, T1G2/T1G2, New 1. Change the stem to place emphasis on the rapid pressure reduction rather than the low pressurizer pressure tends...
60	F	2												S	COMMON QUESTIONS, 071A4.13, T2G1/T2G1, Bank 1. Appears ok
61	H	3												S	COMMON QUESTIONS, 012A1.01, T2G2/T2G2, New 1. Appears ok, but you may want to spell out temperature or use OTDT
62	H	2												S	COMMON QUESTIONS, 016A4.01, T2G2/T2G2, New 1. Appears ok
63	F	2												S	COMMON QUESTIONS, G2.2.11, T3/T3, NEW 1. Appears ok

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward	Q= K/A	SRO Only		
64	F	2				X								E	COMMON QUESTIONS, WE08EK1.3, T1G1/T1G1, New 1. The distractors are not credible.
65	F	2												S	COMMON QUESTIONS, G2.3.01, T3/T3, Bank 1. Appears ok
66	H	2												S	COMMON QUESTIONS, G2.1.32, T3/T3, Bank 1. Appears ok
67	H	3												E	COMMON QUESTIONS, 017G2.4.47, T2G1/T2G1, Bank 1. List the conditions in the stem. 2. Change the question to "Which action should be taken at this point". 3. Change the distractors to respond to stem Present stem is misleading indicating a transition should occur
68	H	2												S	COMMON QUESTIONS, 063A2.01, T2G2/T2G1, Mod 1. Appears ok
69	H	2												S	COMMON QUESTIONS, 003AK2.05, T1G2/T1G1, Bank 1. Appears ok
70	H	2												S	COMMON QUESTIONS, 005EG2.4.4, T1G1/T1G1, New 1. Is reference provided? 2. No part of answer for TS action with rod K6
71	F	2												S	COMMON QUESTIONS, 086K4.01, T2G2/T2G2, Bank 1. As noted Facility to validate
72	F	2												S	COMMON QUESTIONS, 062AA1.01, T1G1/T1G1, Bank 1. Appears ok.
73	F	2												S	COMMON QUESTIONS, 026EG2.3.2, T1G1/T1G1, New 1. Appears ok
74	F	2												S	COMMON QUESTIONS, 071A3.02, T2G1/T2G1, New 1. Appears ok
75	F	2												S	COMMON QUESTIONS, 060AA2.05, TG2/T1G2, Bank 1. Appears ok.

Facility: Farley Nuclear Plant		Date of Exam: July 30, 2001 Exam Level: <u>RO/SRO</u>		
Item Description		Initials		
		a	b	c
1.	Clean answer sheets copied before grading	(S)	NA	RSB
2.	Answer key changes and question deletions justified and documented	(S)	NA	RSB
3.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	(S)	NA	RSB
4.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	(S)	NA	RSB
5.	All other failing examinations checked to ensure that grades are justified	(S)	NA	RSB
6.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	(S)	NA	RSB
Printed Name / Signature		Date		
a. Grader	Steven D. Rose / 	8/14/01		
b. Facility Reviewer(*)	N/A			
c. NRC Chief Examiner (*)	Richard S. Baldwin / 	8/14/01		
d. NRC Supervisor (*)	Michael E. Ernstes / 	8/22/01		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.				

Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	08/14/01
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	08/14/01
3. Operating tests graded by NRC examiners	08/14/01
4. NRC Chief examiner review of written exam and operating test grading completed	08/21/01
5. Responsible supervisor review completed	8/21/01
6. Management (licensing official) review completed	8/28/01
7. License and denial letters mailed	8/28/01
8. Facility notified of results	8/28/01
9. Examination report issued (refer to NRC MC 0610)	8/30/01
10. Reference material returned after final resolution of any appeals	N/A