

Administrative Documents

(Yellow Paper)

CRYSTAL RIVER OCTOBER 2005 EXAM

05000302/2005301

SEPTEMBER 12 - 16, 2005
SEPTEMBER 19, 2005 (WRITTEN)

- ~~1.~~ Exam Preparation Checklist ES-201-1 ✓
- ~~2.~~ Exam Outline Quality Checklist ES-201-2 ✓
- ~~3.~~ Exam Security Agreement(s) ES-201-3 ✓
- ~~4.~~ Administrative Topics Outline (Final) ES-301-1 ✓
- ~~5.~~ Control Room Systems & Facility Walk-through Test Outline
(Final) ES-301-2 ✓
- ~~6.~~ Operating Test Quality Check Sheet ES-301-3 ✓
- ~~7.~~ Simulator Scenario Quality Check Sheet ES-301-4 ✓
- ~~8.~~ Transient and Event Checklist ES-301-5 ✓
- ~~9.~~ Competencies Checklist ES-301-6 ✓
- ~~10.~~ Written Exam Quality Check Sheet ES-401-6 ✓
- ~~11.~~ Written Exam Review Worksheet ES-401-9 ✓
- ~~12.~~ Written Exam Grading Quality Checklist ES-403-1 ✓
- ~~13.~~ Post-Exam Check Sheet ES-501-1
14. Facility Submittal Letter (3FD705-08) [✓]

Facility: CRYSTAL RIVERDate of Examination: 9/9/2005Examinations Developed by: Facility / NRC (circle one)

Target Date*	Task Description (Reference)	Chief Examiner's Initials
-180	1. Examination administration date confirmed (C.1.a; C.2.a and b)	
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	
-120	3. Facility contact briefed on security and other requirements (C.2.c)	
-120	4. Corporate notification letter sent (C.2.d)	
[-90]	[5. Reference material due (C.1.e; C.3.c; Attachment 2)]	
-75	6. Integrated examination outline(s) due, including Forms ES-201-2, ES-201-3, ES-301-1, ES-301-2, ES-301-5, ES-D-1's, ES-401-1/2, ES-401-3, and ES-401-4, as applicable (C.1.e and f; C.3.d)	
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	7/10/2005
-45	8. Proposed examinations (including written, walk-through JPMs, and scenarios, as applicable), supporting documentation (including Forms ES-301-3, ES-301-4, ES-301-5, ES-301-6, and ES-401-6), and reference materials due (C.1.e, f, g and h; C.3.d)	7/26/2005
-30	9. Preliminary license applications (NRC Form 398's) due (C.1.i; C.2.g; ES-202)	
-14	10. Final license applications due and Form ES-201-4 prepared (C.1.i; C.2.i; ES-202)	8/30/2005
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f and h; C.3.g)	
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	
-7	14. Final applications reviewed; examination approval and waiver letters sent (C.2.i; Attachment 4; ES-204)	
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee (C.3.k)	
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	

* 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.

Facility: Crystal River Unit #3		Date of Exam: September 9 thru 16, 2005		
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, in accordance with ES-401.	AK	MVS	
	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.	AK	MVS	
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics	AK	MVS	
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	AK	MVS	
2. S I M U L A T O R	a. Using Form ES-301-5, verify that the proposed scenario sets cover the required number of normal evolutions, instrument and component failures, technical specifications, and major transients.	AK	MVS	
	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, and ensure that 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 that scenarios will not be repeated on subsequent days.	AK	MVS	
	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.	AK	MVS	
3. W / T	a. Verify that the systems walk-through outline meets the criteria of Form ES-301-2: (1) the outline(s) contain(s) the required number of control room and in-plant tasks distributed among the safety functions as specified on the form (2) task repetition from the last two NRC examinations is within the limits specified on the form (3) no tasks are duplicated from the applicants' audit test(s) (4) the number of new or modified tasks meets or exceeds the minimums specified on the form (5) the number of alternate path, low-power, emergency, and RCA tasks meet the criteria on the form.	AK	MVS	
	b. Verify that the administrative outline meets the criteria specified on Form ES-301-1: (1) the tasks are distributed among the topics as specified on the form (2) at least one task is new or significantly modified (3) no more than one task is repeated from the last two NRC licensing examinations	AK	MVS	
	c. Determine if there are enough different outlines to test the projected number and mix of applicants and ensure that no items are duplicated on subsequent days.	AK	MVS	
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 sections.	AK	MVS	
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate	AK	MVS	
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5	AK	MVS	
	d. Check for duplication and overlap among exam sections.	AK	MVS	
	e. Check the entire exam for balance of coverage.	AK	MVS	
	f. Assess whether the exam fits the appropriate job level (RO or SRO)	AK	MVS	
Printed Name / Signature		Date		
a. Author	Alan Kennedy	7-05-05		
b. Facility Reviewer (*)	Mark Van Sicklen	7-05-05		
c. NRC Chief Examiner (#)	Gerard W. Laska	7/14/2005		
d. NRC Supervisor	George T. Hopper /	7/19/2005		
Note: #Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

1. Pre-Examination

I acknowledge that I have acquired specialized knowledge about the NRC licensing examinations scheduled for the week(s) of September 9th thru 16th, 2005 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 (e.g., acting as a simulator booth operator or communicator is acceptable if the individual does not select the training content or provide direct or indirect feedback). 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 September 9th thru 16th, 2005. 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
Alan Kennedy	OPS Instructor / Exam Author	<i>Alan Kennedy</i>	1-12-05	<i>Alan Kennedy</i>	9-20-05	
Mark Van Sicken	TRNG Supervisor / Exam Reviewer	<i>Mark Van Sicken</i>	4-12-05	<i>Mark Van Sicken</i>	9-20-05	
TRUC DUCUY	SIM. Engineer	<i>John</i>	4-12-05	<i>John</i>	9-20-05	
PEARLY L. ROSE	SIM F. H. R. R.	<i>Pearly L. Rose</i>	4-12-05	<i>Pearly L. Rose</i>	9-20-05	
Moffatt, Gary	Operations Validator	<i>Gary Moffatt</i>	5-18-05	<i>Gary Moffatt</i>	9-20-05	
Russell, Leonard	OPS - maintenance	<i>Leonard Russell</i>	5-18-05	<i>Leonard Russell</i>	10-5-05	
R. Lee Linton	SIM Eng	<i>R. Lee Linton</i>	5-18-05	<i>R. Lee Linton</i>	9-20-05	
Robyn Lee Briley	OPS Instructor / Harris	<i>Robyn Lee Briley</i>	5-24-05	<i>Robyn Lee Briley</i>	10-11-05	*
Leonard D. T. H. R.	OPS SSO - support.	<i>Leonard D. T. H. R.</i>	6-6-05	<i>Leonard D. T. H. R.</i>	10-12-05	
John Addison	OPS STA	<i>John Addison</i>	6-6-05	<i>John Addison</i>	10-12-05	
JAMES P. OWEN	TRNG SUPERVISOR / REVIEWER	<i>James P. Owen</i>	6-12-05	<i>James P. Owen</i>	9-20-05	
A. M. Barnes	TRNG TRNG - C.R.S. Role of Sim	<i>A. M. Barnes</i>	6-14-05	<i>A. M. Barnes</i>	9-20-05	
Gary McCann	C.R.S. / VALIDATE	<i>Gary McCann</i>	7-14-05	<i>Gary McCann</i>	9-20-05	
Christopher R. Kellein	SSO / VALIDATE	<i>Christopher R. Kellein</i>	7-14-05	<i>Christopher R. Kellein</i>	9-20-05	
James R. Minton	SSO / Validate	<i>James R. Minton</i>	7-14-05	<i>James R. Minton</i>	10-13-05	

NOTES:

* Mr Briley no longer works for Harris and requested attempt to contact him failed.

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PRINTED NAME	JOB TITLE / RESPONSIBILITY	SIGNATURE (1)	DATE	SIGNATURE (2)	DATE	NOTE
Christine McKim	SNTI	<i>Christine McKim</i>	7-19-05	<i>C. McKim</i>	10-3-5	
MELISSA GALLIAN	SNOI	<i>Melissa Gallian</i>	8-17-05	<i>Melissa Gallian</i>	9-28-05	
MARK GARLISON	CNO	<i>Mark Garlison</i>	08/30/05	<i>Mark Garlison</i>	10/05/05	
Blair Winderly	MSO	<i>Blair Winderly</i>	8/31/05	<i>Blair Winderly</i>	9/26/05	
DAVID McAGHY	OS	<i>David McAghy</i>	9-1-5	<i>David McAghy</i>	9-26-5	
David Smith	SNOI	<i>David Smith</i>	9/26/05	<i>David Smith</i>	9/20/05	
David Jones	SOT	<i>David Jones</i>	9/14/05	<i>David Jones</i>	9/11/05	
David M. Port	SSD	<i>David M. Port</i>	9/12/05	<i>David M. Port</i>	10/5/05	
Keith E. Hampton	Instructor	<i>Keith E. Hampton</i>	9/13/05	<i>Keith E. Hampton</i>	9/13/05	
David Smith	SNOI	<i>David Smith</i>	9/15/05	<i>David Smith</i>	9/20/05	
Christine McKim		<i>Christine McKim</i>				

NOTES:

Facility: Crystal River Unit #3 Date of Exam: September 12 thru 16, 2005
 Examination Level: **RO & SRO-I** Operating Test Number: 1

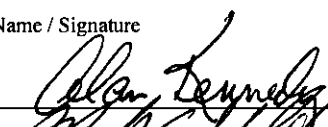
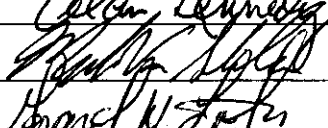
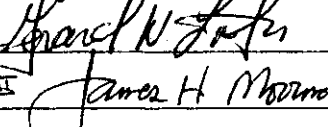
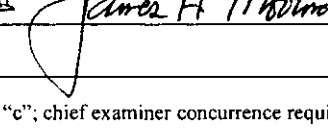
Administrative Topic (See Note)	Type Code*	Describe activity to be performed
Conduct of Operations	N	SRO Only – (CO1) – Determine overtime availability. K/A – G2.1.4 SRO 3.4 AI-100
	N	RO & SRO – (CO2) – Calculate SDM with a dropped control rod. K/A – G2.1.7 RO 3.7 SRO 4.4 SP-421 SRO Only – After completing the SDM calculation determine required TS actions, if any. K/A – G2.1.12 SRO 4.0
Equipment Control	N	RO & SRO – (EC1) – Perform a QPTR calculation. K/A – G2.2.12 RO 3.0 SRO 3.4 SP-303 SRO Only – After completing the QPTR calculation determine required TS actions, if any. K/A – G2.1.12 SRO 4.0
Radiation Control	N	RO & SRO – (RC1) – Calculate the maximum permissible stay time with an Emergency Event in progress. K/A – 2.3.4 RO 2.5 SRO 3.1 EM-202
Emergency Plan	D	RO Only – (EP1) - Perform an Offsite Dose Assessment Calculation K/A – G2.4.39 RO 3.3 EM-204A
	N	SRO Only – (EP2) - Determine Emergency Action Level and Protective Action Recommendations. K/A – G2.4.41 SRO 4.1 EM-202

Note: All items (5 total) are required for SROs. RO applicants require only 4 items unless they are retaking only the administrative topics, when all 5 are required.

* Type Codes & Criteria:

(C)ontrol room
 (D)irect from bank (≤ 3 for ROs; ≤ 4 for SROs & RO retakes)
 (N)ew or (M)odified from bank (≥ 1)
 (P)revious 2 exams (≤ 1; randomly selected)
 (S)imulator

Facility: Crystal River Unit #3		Date of Exam: September 12 - 16, 2005	
Examination Level: RO & SRO-I		Operating Test Number: 1	
<i>Control Room systems[@] (8 for RO; 7 for SRO-I; 2 or 3 for SRO-U)</i>			
System / JPM Title		Type Code*	Safety Function
a.	CRDS – Transfer control rod to auxiliary power supply K/A – 001A4.03 RO 4.0 SRO 3.7 (OP-502) [RO]	D, P, S	1
b.	CVCS – Respond to OTSG tube rupture at power K/A – 004A4.06 RO 3.6 SRO 3.1 (EOP-6) [RO, SRO-I]	A, D, S	3
c.	RCS – Respond to a stuck open PZR spray valve K/A – 002A4.01 RO 4.2 SRO 4.4 (AP-520) [RO, SRO-I]	A, L, N, S	2
d.	RHR – Respond to an ES A/B actuation K/A – 025AA1.10 RO 3.1 SRO 2.9 (EOP-3) [RO, SRO-I]	A, M, S	4 Primary
e.	MSS – Perform actions for a stuck open MSSV K/A – 039A2.04 RO 3.4 SRO 3.7 (EOP-2) [RO, SRO-I]	D, S	4 Secondary
f.	EDG – Synchronize off-site power and unload/shutdown EDG K/A – 064A4.09 RO 3.2 SRO 3.3 (AP-770) [RO, SRO-I]	D, S	6
g.	RPS – Restore RPS channel power K/A – 012A2.02 RO 3.6 SRO 3.9 (OP-507) [RO, SRO-I]	D, S	7
h.	WG – Respond to a Waste Gas header leak K/A – 060AA2.05 RO 3.7 SRO 4.2 (AP-250) [RO, SRO-I]	A, N, S	9
SPARE	MU – Restart a MUP following an RCS leak isolation K/A – 002A2.01 RO 4.3 SRO 4.4 (AP-520)	D, S	2
<i>In-Plant Systems[@] (3 for RO; 3 for SRO-I; 3 or 2 for SRO-U)</i>			
i.	CRDS – Manual Reactor trip from outside control room K/A – E02EA1.1 RO 4.0 SRO 3.6 (AP-990) [RO, SRO-I]	A, D, E, L, P	1
j.	EFW – Reset EFP-2 trip valve (ASV-50) K/A – 061A2.04 RO 3.4 SRO 3.8 (OP-450) [RO, SRO-I]	D, R	4 Secondary
k.	CCW – Appendix R Chiller lineup K/A – 008A2.01 RO 3.3 SRO 3.6 (AP-330) [RO, SRO-I]	D, E	8
SPARE	FS/OTSG – Transfer excess secondary inventory to FST K/A – 037AK3.07 RO 4.2 SRO 4.4 (EOP-14, Enc. 9)	D, E	2, 8
@	All control room (and in-plant) systems must be different and serve different safety functions; in-plant systems and functions may overlap those tested in the control room.		
* Type Codes		Criteria for RO / SRO-I / SRO-U	
(A)lternate path		4-6 / 4-6 / 2-3	
(C)ontrol room			
(D)irect from bank		$\leq 9 / \leq 8 / \leq 4$	
(E)mergency or abnormal in-plant		$\geq 1 / \geq 1 / \geq 1$	
(L)ow Power		$\geq 1 / \geq 1 / \geq 1$	
(N)ew or (M)odified from bank including 1 (A)		$\geq 2 / \geq 2 / \geq 1$	
(P)revious 2 exams		$\leq 3 / \leq 3 / \leq 2$ (randomly selected)	
(R)CA		$\geq 1 / \geq 1 / \geq 1$	
(S)imulator			

Facility: Crystal River Unit #3		Date of Exam: 9-9-05 to 9-16-05		Op. Test No. 1		
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).	AK	MVS	AK		
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	AK	MVS	AK		
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	AK	MVS	AK		
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	AK	MVS	AK		
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	AK	MVS	AK		
2. Walk-Through 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 • operationally important 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 				AK	MVS	AK
b.	Ensure that any changes from the previously approved systems and administrative walk-through outlines (Forms ES-301-1 and 2) have not caused the test to deviate from any of the acceptance criteria (e.g., item distribution, bank use, repetition from the last 2 NRC examinations) specified on those forms and Form ES-201-2.	AK	MVS	AK		
3. Simulator Criteria				---	---	
The associated simulator operating tests (scenario sets) have been reviewed in accordance with Form ES-301-4 and a copy is attached.				AK	MVS	AK
		Printed Name / Signature		Date		
a. Author	Alan Kennedy			8-30-05		
b. Facility Reviewer (*)	Mark Van Sicklen			8-31-05		
c. NRC Chief Examiner (#)	GERARD W. LASKA			9/6/2005		
d. NRC Supervisor	James H. Moorman, III			9.6.05		
Note: #Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.						

Facility: Crystal River Unit #3	Date of Exam: September 9 thru 16, 2005
Scenario Numbers: 1 / 2 / 3	Operating Test Number: 1

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.	AK	MVS	
2.	The scenarios consist mostly of related events.	AK	MVS	
3.	Each event description consists of: <ul style="list-style-type: none"> • 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) 	AK	MVS	
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.	AK	MVS	
5.	The events are valid with regard to physics and thermodynamics.	AK	MVS	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	AK	MVS	
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.	AK	MVS	
8.	The simulator modeling is not altered.	AK	MVS	
9.	The scenarios have been validated. Pursuant to 10 CFR 55.46(d), any open simulator performance deficiencies or deviations from the referenced plant have been evaluated to ensure that functional fidelity is maintained while running the planned scenarios.	AK	MVS	
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.5 of ES-301.	AK	MVS	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	AK	MVS	
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).	AK	MVS	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	AK	MVS	

Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes				---	---	---
		1	2	3	4			
1.	Total malfunctions (5-8)	7	8	8		AK	MVS	
2.	Malfunctions after EOP entry (1-2)	2	2	2		AK	MVS	
3.	Abnormal events (2-4)	3	2	3		AK	MVS	
4.	Major transients (1-2)	1	1	1		AK	MVS	
5.	EOPs entered/requiring substantive actions (1-2)	2	1	1		AK	MVS	
6.	EOP contingencies requiring substantive actions (0-2)	2	1	2		AK	MVS	
7.	Critical tasks (2-3)	2	2	3		AK	MVS	

Facility: Crystal River Unit #3

Date of Exam: September 9 thru 16, 2005

Operating Test No.: 1

A P P L I C A N T	E V E N T T Y P E	Scenarios												T O T A L	M I N I M U M (*)		
		1			2			3			4						
		C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N			C R E W P O S I T I O N						
		S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P	S R O	A T C	B O P		R	I	U
RO	RX		4		---					---				1	1	1	0
	NOR		---		---					4				1	1	1	1
SRO-I	I/C		1/3/ 5/8		2/3/ 5/7/ 8					3/5/ 9/10				13	4	4	2
SRO-U	MAJ		6		6					8				3	2	2	1
	TS		---		1/4					---				2	0	2	2
RO	RX			---			---			---				0	1	1	0
	NOR			---			---		1					1	1	1	1
SRO-I	I/C			2/7/ 8			2/3/8			6/7/9 /10				10	4	4	2
	MAJ			6			6		8					3	2	2	1
SRO-U	TS			---			---			---				0	0	2	2
RO	RX	4				---		---						1	1	1	0
	NOR	---				---		---						0	1	1	1
SRO-I	I/C	3/5/ 7/8				4/5/ 7/8		5/6/ 7/9/ 10						13	4	4	2
SRO-U	MAJ	6				6		8						3	2	2	1
	TS	1/2				---		2/3						4	0	2	2

Instructions:

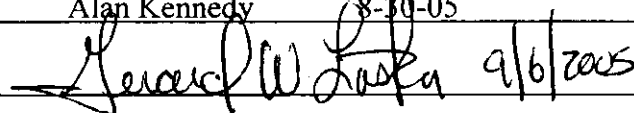
1. Circle the applicant level and enter the operating test number and Form ES-D-1 event numbers for each event type; TS are not applicable for RO applicants. ROs must serve in both the "at-the-controls (ATC)" and "balance-of-plant (BOP)" positions; Instant SROs must do one scenario, including at least two instrument or component (I/C) malfunctions and one major transient, in the ATC position.
2. Reactivity manipulations may be conducted under normal or *controlled* abnormal conditions (refer to Section D.5.d) but must be significant per Section C.2.a of Appendix D. (*) Reactivity and normal evolutions may be replaced with additional instrument or component malfunctions on a 1-for-1 basis.
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 requirements specified for the applicant's license level in the right-hand columns.

Author

Alan Kennedy

8-10-05

NRC Reviewer



Facility: **Crystal River Unit #3**

Date of Exam: September 9 thru 16, 2005

Operating Test No.: 1

Competencies	APPLICANTS															
	RO				SRO-I				RO/SRO-I/SRO-U				RO/SRO-I/SRO-U			
	SCENARIO				SCENARIO				SCENARIO				SCENARIO			
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
Interpret / Diagnose Events and Conditions	1/2/ 3/5/ 6/7/ 8	1/2/ 3/4/ 5/6/ 7/8	2/3/ 5/6/ 7/8/ 9/ 10		1/2/ 3/5/ 6/7/ 8	1/2/ 3/4/ 5/6/ 7/8	2/3/ 5/6/ 7/8/ 9/ 10									
Comply With and Use Procedures (1)	1/2/ 5/6/ 8	1/2/ 3/4/ 5/6/ 7/8	1/2/ 3/4/ 6/7/ 8		1/2/ 4/5/ 6	1/2/ 3/4/ 6/7/ 8	1/2/ 3/4/ 6/8/ 9/ 10									
Operate Control Boards (2)	4/5/ 6/7/ 8	1/2/ 3/4/ 5/6/ 7/8	1/2/ 3/4/ 5/6/ 7/8/ 9/ 10		4/5/ 6/7/ 8	1/2/ 3/4/ 5/6/ 7/8	1/2/ 3/4/ 5/6/ 7/8/ 9/ 10									
Communicate and Interact	2/5/ 6/7/ 8	2/3/ 4/5/ 6/7/ 8	3/4/ 5/6/ 7/8/ 9		2/5/ 6/7/ 8	1/2/ 3/4/ 5/6/ 7/8	2/3/ 5/6/ 7/8/ 9/ 10									
Demonstrate Supervisory Ability (3)					1/2/ 4/5/ 6/7/ 8	1/2/ 3/4/ 5/6/ 7/8	2/3/ 5/6/ 7/8/ 9/ 10									
Comply With and Use Tech. Specs. (3)					1/2	1/2-3 4	2/3 4/6/7/8									

Notes:

Includes Technical Specification compliance for an RO.

(1) Optional for an SRO-U.

(2) Only applicable to SROs.

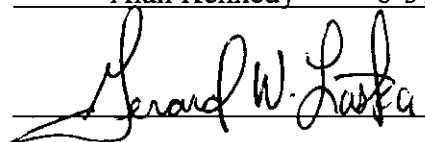
(3)

Author

Alan Kennedy

8-31-05

NRC Reviewer

 9/6/2005

Facility: Crystal River Unit #3		Date of Exam: September 9 thru 16, 2005					
Item Description					Initials		
					a	b*	c#
1.	Questions and answers are technically accurate and applicable to the facility.				AK	MVS	<i>[Signature]</i>
2.	a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.				AK	MVS	<i>[Signature]</i>
3.	SRO questions are appropriate in accordance with Section D.2.d of ES-401				AK	MVS	<i>[Signature]</i>
4.	The facility licensee's sampling process was random and systematic (i.e., no more than 4 RO and/or 2 SRO questions were repeated from the last 2 NRC licensing exams).				AK	MVS	<i>[Signature]</i>
5.	Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: <input type="checkbox"/> the audit exam was systematically and randomly developed <input type="checkbox"/> the audit exam was completed before the license exam was started <input type="checkbox"/> the examinations were developed independently <input checked="" type="checkbox"/> the licensee certifies that there is no duplication <input type="checkbox"/> other (explain)				AK	MVS	<i>[Signature]</i>
6.	Bank use meets limits (no more than 75 percent from the bank, at least 10 percent new, and the rest new or modified); enter the actual RO / SRO-only question distribution(s) at right.	Bank 29 / 5	Modified 15 / 2	New 31 / 18	AK	MVS	<i>[Signature]</i>
7.	Between 50 and 60 percent of the questions on the RO exam are written at the comprehension/ analysis level; the SRO exam may exceed 60 percent if the randomly selected K/As support the higher cognitive levels; enter the actual RO / SRO question distribution(s) at right.	Memory 32 / 10	C/A 43 / 15		AK	MVS	<i>[Signature]</i>
8.	References/handouts provided do not give away answers or aid in the elimination of distractors.				AK	MVS	<i>[Signature]</i>
9.	Question content conforms with specific K/A statements in the previously approved examination outline and is appropriate for the tier to which they are assigned; deviations are justified.				AK	MVS	<i>[Signature]</i>
10.	Question psychometric quality and format meet the guidelines in ES Appendix B.				AK	MVS	<i>[Signature]</i>
11.	The exam contains the required number of one-point, multiple choice items; the total is correct and agrees with the value on the cover sheet.				AK	MVS	<i>[Signature]</i>
		Printed Name / Signature				Date	
a. Author	Alan Kennedy	<i>[Signature]</i>				9-06-05	
b. Facility Reviewer (*)	Mark Van Sicklen	<i>[Signature]</i>				9-06-05	
c. NRC Chief Examiner (#)	GERARD W. LASTA	<i>[Signature]</i>				9-07-05	
d. NRC Supervisor	JAMES H. MOORMAN, JR.	<i>[Signature]</i>				9-8-05	
Note: * The facility reviewer's initials/signature are not applicable for NRC-developed examinations. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.							

Crystal River 2005-301 September 9, 2005

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			
<p align="center">Instructions</p> <p>[Refer to Section D of ES-401 and Appendix B for additional information regarding each of the following concepts.]</p> <ol style="list-style-type: none"> Enter the level of knowledge (LOK) of each question as either (F)undamental or (H)igher cognitive level. Enter the level of difficulty (LOD) of each question using a 1 – 5 (easy – difficult) rating scale (questions in the 2 – 4 range are acceptable). Check the appropriate box if a psychometric flaw is identified: <ul style="list-style-type: none"> The stem lacks sufficient focus to elicit the correct answer (e.g., unclear intent, more information is needed, or too much needless information). The stem or distractors contain cues (i.e., clues, specific determiners, phrasing, length, etc). The answer choices are a collection of unrelated true/false statements. The distractors are not credible; single implausible distractors should be repaired, more than one is unacceptable. One or more distractors is (are) partially correct (e.g., if the applicant can make unstated assumptions that are not contradicted by stem). Check the appropriate box if a job content error is identified: <ul style="list-style-type: none"> The question is not linked to the job requirements (i.e., the question has a valid K/A but, as written, is not operational in content). The question requires the recall of knowledge that is too specific for the closed reference test mode (i.e., it is not required to be known from memory). The question contains data with an unrealistic level of accuracy or inconsistent units (e.g., panel meter in percent with question in gallons). The question requires reverse logic or application compared to the job requirements. Check questions that are <u>sampled</u> for conformance with the approved K/A and those that are <u>designated SRO-only</u> (K/A and license level mismatches are unacceptable). Based on the reviewer's judgment, is the question as written (U)nsatisfactory (requiring repair or replacement), in need of (E)ditorial enhancement, or (S)atisfactory? At a minimum, explain any "U" ratings (e.g., how the Appendix B psychometric attributes are not being met). 												
1	F	2									S	<p>BW/E-10EK1.2 Meets K/A Question SAT (BANK) Very similar to Question # 70 on 1999 NRC Exam</p> <p>Question SAT 8/04/2005</p> <p><i>After validation the licensee commented that this may be above the knowledge required of an RO. (This question was very similar to a question on the 1999 NRC Exam)</i></p> <p><i>Left question as is. 9/06/2005</i></p>

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		
	H	2											S	008AA2.19 Meets K/A. C and D distractors are not credible. Try Pressurizer reference leak for one of the distractors. Very similar to 2003-301 RO question #34. (NEW) <u>On distractor D remove the middle portion of response for distractor C to be credible lower Tave to 545 and stable. Question SAT 8/04/2005</u>
	H	2	X										S	009EA1.11 Matches K/A. Should have IAW a procedure in the stem. Question is modified from the 1998 NRC exam. (MOD). <u>Question SAT 8/04/2005.</u> <u>Added IAW Rule 3. SAT 8/29/2005</u>
4	H	2	X			X							U	011EA2.09 Matches K/A Is the applicant supposed to assume that all RCPs were secured? (Can you actual get to these conditions in the plant) Question is from 1999 NRC Exam. (BANK) . <u>Need to address Tincore and Thots that are referred in EOP-9.0. 8/04/2005</u> <u>Replaced all Tincores with Thots IAW EOP9.0. Question appears to be SAT. 8/29/2005 Question is modified slightly from 1999 exam.</u>
5	H	2											S	015/017AA1.22 Meets K/A Very similar to 2003-301 RO question #5. (BANK) <u>Question SAT 8/04/2005</u> <u>No changes 8/30/2005</u>

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		
6	H	2					X							S	022AG2.4.45 Meets K/A Very simple question. Without the knowledge of which alarm came in first, an applicant could argue that distractor C is also correct, if the gear oil pump failed first, and the pump seized both of these alarms could be in for this malfunction. (NEW) Add Immediately followed after first alarm. Question SAT 8/04/2005 <i>Added "Immediately followed by," after first alarm. SAT 8/29/2005</i>
	H	2				X								S	025AA1.09 Meets K/A. Distractor D is not credible. Need to add IAW a particular procedure, for instance APO-404 or OP-404. For distractor D try "raise RCS level to greater than 132' and ensure pump amps and flow stabilize. (BANK) Change Distractor D to read raise RCS level to >130.6 ft and verify 1A DHP Pump conditions stabilize. Question SAT 8/04/2005 <i>Added IAW AP-404 and changed distractor D as requested SAT 8/29/2005</i>

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	1.5				X								S	026AA2.01 Meets K/A. Distractor A (is this a cooler from the RCDT? It does not seem logical for the RCDT to be able to leak into the SW system. Very simple question. Also need to add "which ONE of the following describes the correct location..... (BANK) (*NRCN99) Same K/A as 1999 Two answers were accepted in 1999 based on comments after exam. <u>Stem was changed to prevent two answers from being correct. After discussion with Utility question appears to be okay, still need to discuss 1999 Exam.</u> <u>Question SAT 8/05/2005</u>
9	F	2				X								S	029EK2.06 Matches K/A Distractors A and B do not appear to be credible. (NEW) <u>Change A and B to read contacts in parallel with E and F and the same for the DC hold bus. Restructure Stem wooff. Then question will be SAT.</u> <i>Changes Made to distractors as requested question is SAT 8/29/2005.</i>
	H	2		X										S	038EA2.08 Meets K/A. Question as written is very simple, suggest adding either rate or to "minimize subcooling" as appropriate. Also need to make sure that having EOP 6 as a reference does not answer any other questions on the exam (or helps exclude other distractors). For example does EOP-6 list criteria for Natural Circ Conditions that would help answer 011EA2.09? RM to look at as in 061AK2.01. (NEW) <u>Licensee to look at procedure to make sure that the condenser is not mentioned in material to prevent giving away answer. Otherwise Question is sat 8/04/2005</u> <i>Reference does not answer any other questions, SAT 8/29/2005.</i>

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		
11	F	2				X								E	BW/E05EK2.2 Matches K/A Distractor A may not be credible.. (NEW) <u>Licensee to look at finding a better distractor for A. Look at again later</u> <i>Replaced distractor A with Allows for a more rapid recovery of OTSG level. Question SAT. (Split up distractors C and D.) 8/29/2005.</i>
	H	2												S	054AG2.4.49 Matches K/A (NEW) Some discussion on numbers in distractors but decided that plant conditions need to remain as written <u>Question SAT 8/04/2005.</u> <i>No Changes to Question 8/29/2005</i>
	H	2				X								S	055EA1.07 Meets K/A. All distractors have a bus voltage listed except for the correct answer. This can point the applicant to the correct answer by it being different than the others. Which bus undervoltage relays did not reset? (BANK) <u>Added 4160 volt bus relays did not reset.</u> <u>Question SAT 8/04/2005</u> <i>Would both procedures be performed at the same time? Look at SRO question # 13. Could be teaching or double jeopardy type question.</i> <i>Changed stem to remove procedure references and changed to be IAW AP-770.</i> <i>No Changes to Question 8/31/2005</i>

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		
14	H	2												S	056AA1.06 Meets K/A. Somewhat confusing with all the components listed. Is there a way that could simplify the question so the applicant doesn't have to read so much? (BANK) <u>Question SAT 8/04/2005</u> No Changes 8/29/2005.
	F	3												S	057G2.1.28 Kind of meets K/A. Change stem a to include which ONE of the following describes the purpose of the Inverter Available Light.... (NEW) <u>Leave as is Question SAT 8/04/2005</u> Question was changed as requested. SAT 8/29/2005
16	F	3										X		U	058AK3.01 Does not meet K/A (although it is a good question) the K/A asks for reasons, and no reasons are asked for in the question. Need to incorporate reasons into the responses. (NEW) (Very similar to Question # 33 on the 1999 SRO exam but has a different K/A) <u>Replace Question to a question that matches K/A</u> Question written with reasons, need to be reworded, Gerry to work. 8/29/2005 Changed as requested 8/31/2005

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		
17	H	2				X							U*	062AK3.03 Matches K/A. "A" distractor does not seem credible with 3 other responses directing a reactor trip. (BANK) (*NRCN99) Same K/A as 1999 <u>Replace or modify</u> Modify with CTWS clogged, CTWS 1A-1G normal, traveling screen failed to start. CTWS 2 flume clogged. 8/19/2005. Question is modified, from original, but is still considered bank., appears to be SAT 8/29/2005
18	H	2											S	BW/EO4EK2.2 Make sure that the step listed does not answer any other questions on exam. Otherwise SAT. (MOD) <u>Question SAT 8/04/2005</u>
19	H	2										X	U	005AK 3.01 Does not match K/A The K/A asks for knowledge of the reasons for... Also have a very similar Adm JPM asking for SDM with a dropped Rod. <u>Replace question that matches K/A(BANK) 8/04/2005 Gerry to work.</u> <u>Replaced Question SAT 09/06/2005</u>
	H	2	X			X							U	028AK2.02 Matches K/A Distractor C may not be credible, if an interlock does not exist on another controller/sensor that is similar in operation. (BANK) Look at replacing distractor C. Remove temperature compensation (teaching in stem) <u>8/04/2005</u> <u>Question Changed to remove temperature compensation, distractors also changed making question modified due to ending conditions being different. Question SAT 8/29/2005</u>

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		
21	H	2				X								S	051AA2.02 Matches K/A Distractor D is not credible (Since the condenser may become unavailable trip the reactor) When you see a reason on a distractor, with none of the other distractors having reasons, it tends to make the distractor less credible. (NEW) Removed reason and inserted immediately trip Rx... Question SAT 8/04/2005 "Change should be taken" to "is/are required to be taken" several actions "should" or could be taken. 8/29/2005.
	F	2												S	059AK1.01 Matches K/A (Listed as RO #43 in LXR test) Question SAT. (BANK) No changes 8/29/2005
	H	2												S	061AK2.01 Matches K/A. Very simple (BANK) Question SAT 8/04/2005 No changes 8/29/2005
	H	2												S	BW/A04AA2.1 Meets K/A Question SAT. (MOD) No changes 8/29/2005
25	H	2												??	BW/A05AK2.1 Meets K/A Question used on NRC1999 Exam, K/A is the same. Otherwise Okay. Status to be determined. Replace or modify Question Modified still meets K/A, appears to be SAT. 8/29/2005

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	
	H	2											S	BW/A07AK1.2 Matches K/A Question is SAT (without a reference. (BANK) No Reference to be provided. <u>Question SAT 8/04/2005</u> No changes 8/29/2005
	F	2											S	BW/EA08EK3.3 Matches K/A Question SAT. (NEW) <u>Question SAT 8/04/2005</u> remove the listing of the (fans AHF 1-A etc.)

Q#	1. LOK (F/H)	2. LO (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	
	H	3				X							S	003K2.01 Matches K/A sort of. This question is looking at where the RCPs get control power from, the K/A is asking for the bus power supplies to the RCPs. I think this is close enough. One semmetrey problem two distractors have A and C... one has A and B and C and D, and one has all. You can narrow the question down to b or d using this method. (NEW) Upon further review, question matches K/A (both control power and bus power supplies are needed to answer question. <u>Question SAT 8/04/2005</u> No changes 8/29/2005

Q#	1. LOK (F/H)	2. LO D (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		
29	H	2												S	004A2.26 Meets K/A Listed as (NEW) Very Similar to Question # 71 on 1999 NRC Exam. Changed to MOD will treat as other 1999 questions. <u>Question SAT 8/05/2005</u> No changes 8/29/2005
30	H	2												S	005A1.03 Meets K/A Need to add which one of the following to stem. If these actions are in accordance with a procedure, we need to add IAW "Procedure Name". Otherwise SAT. added IAW AP-470 <u>Question SAT 8/04/2005</u> No changes 8/29/2005
	H	2												S	006A1.13 Meets K/A Need to add ONE to the stem, rearranged to make stem more clear. Need to review Reference to make sure it does not answer any other questions. Appears that reference is okay. (NEW) <u>Question SAT 8/04/2005</u> No changes 8/29/2005
32	F	2				X								S	007A3.01 Meets K/A Distractors C and D do not appear to be credible. Add ONE to stem. (BANK) <u>Fix C for sure and try to fix D.</u> Changed both distractors. Appears to be acceptable. 8/29/2005

Q#	1. LOK (F/H)	2. LO (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		
	H	2				X								S	008K4.02 Kind of meets K/A. (Tough K/A). Distractors A and D do not seem to be very credible. (BANK) During validation 5 of 7 validators picked D. Not sure that this is a true indication of plausibility. But Okay. <i>No changes 8/29/2005</i>
34	F	1												U*	008G2.4.4 Meets K/A Very simple question, Try giving some indications from control board indications/annunciators and have applicants diagnose event and what procedure should be entered. (BANK) (*NRCN99) Different K/A from 1999 <u>Rewrite Question from above angle</u> Question rewritten and is now considered new. Appears to be SAT. 8/29/2005
	H	2												S	010K5.02 Matches K/A Question is listed as modified, but is very close to the original in set up and answer. Should really be listed as (BANK). Otherwise SAT. <u>Question SAT 8/04/2005</u> <i>No changes 8/29/2005</i>
	H	2												S	010A4.02 Matches K/A Question appears to be okay. Question is modified. From 1998 NRC EXAM <u>Question SAT 8/04/2005</u> <i>No changes 8/29/2005</i>

Q#	1. LOK (F/H)	2. LO D (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other		6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q= K/A	SRO Only		
	F	2												S	012K4.02 Meets K/A. A & C Distractors do not appear to be credible. (BANK) Distractors okay leave question as is. <u>Question SAT 8/04/2005</u> No changes 8/29/2005
	F	2												S	013K6.01 Meets K/A. Need to add ONE to the stem. (NEW) <u>Question SAT 8/04/2005</u> Remove the 1250 psig from the stem. Just state the transmitter fails to midscale. 8/29/2005 Applicant needs 1250 psig to figure Out that the transmitter is the wide range transmitter. 8/30/2005
39	H	2												S	013A4.03 Matches K/A. Modified from 1999 NRC EXAM. Otherwise SAT. (MOD) <u>Question SAT 8/04/2005</u> No changes 8/29/2005
	H	2												S	022A2.05 Meets K/A. Need to add ONE to the stem. (NEW) <u>Question SAT 8/04/2005</u> No changes 8/29/2005

Q#	1. LOK (F/H)	2. LO (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		
41	F	2		X										S	026G2.1.32 Meets K/A Teaching in the stem. State the question: Which one of the following describes the basis for the precautions and limitations for RB minimum pressure during the performance of SP-340B? (BANK) Will Change to match above and remove teaching from stem. Question SAT 8/04/2005 Question changed as requested. Question SAT 8/29/2005.
	H	2												S	026A3.01 Matches K/A Is this procedurally driven? If it is add a LAW ...procedure to the stem. (MOD) Skill of craft. Change to would be successful in... Question SAT 8/04/2005 Made changes as requested. Question SAT 8/29/2005.
	H	2												S	039K4.05 Meets K/A. Add ONE to the stem. Question appears to be SAT. (NEW) Question SAT 8/04/2005 No changes 8/29/2005

Q#	1. LOK (F/H)	2. LO D (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	
44	F	1										X	U	039K5.08 K/A asks for operational implications of steam removal on reactivity. The questions basically states at what time in core life is a steam line break more severe. Question as written is very simple and has little discriminatory value. This is a GFES question. Concept is okay, work to develop a more discriminating question. (BANK) <u>Gerry to work on this one. Replace</u> <u>Question rewritten SAT 8/29/2005</u>
45	H	2										X	U	059K3.02 Question does not appear to match K/A. How could this happen in the plant, and not have other effects? Need to look closer at this question. (BANK) <u>Licensee to change to make either B, C, or D correct, It will then match K/A. VBDP-9</u> <u>Made changes as requested question appears to be SAT. 8/29/2005.</u>
	F	2											S	061K5.01 Meets K/A. Teaching in stem. If you started at Which ONE of the following... this question would be SAT. (BANK) Took away all the window dressing question SAT <u>Question SAT 8/04/2005</u> <u>No changes 8/29/2005</u>

Q#	1. LOK (F/H)	2. LO D (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		
F		2												S	062K1.02 Meets K/A. Distractors A and B do not appear to be credible. See if we can set up with better distractors. (BANK) (*NRCN99) Different K/A from 1999 <u>Made changes to distractor A and changed to slightly increase grid freq.</u> <u>Question SAT 8/05/2005</u> Changes made as requested. 8/29/2005
H		3												S	063K2.01 Meets K/A Can we change distractor D to 1 and 4 for symmetry? (NEW) <u>Changed per above.</u> <u>Question SAT 8/04/2005</u> No changes 8/29/2005
F		2 X												S	064A4.06 Meets K/A. Need to tighten up stem. IAW ...a procedure. Several appeals on "should Normally" (BANK) (*NRCN99) Different K/A from 1999 Change stem to IAW EOP-8.0 and should to would be used... <u>Question SAT 8/04/2005</u> pending 1999 review. No changes 8/29/2005 Question SAT

Q#	1. LOK (F/H)	2. LO D (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	
50	F	2											U*	064G2.1.8 Question has information very similar to question 47. Both have Unit /Parallel switch and concern real and reactive load. Could be double jeopardy question. (BANK) (*NRCN99) Same K/A as 1999 exam. <u>Replace Question. From new K/A</u> <u>Selected 064G2.1.32.</u> <i>Question replaced appears to be SAT. 8/29/2005</i>
51	F	2											U	071A3.03 This K/A was also on the 1999 NRC Exam and this question was also on the RO portion of the 1999 NRC Exam, but this question was not annotated as being used before on an NRC exam. It was listed as BANK. Also used on 2003 Exam under K/A 071K3.04. <u>Replace Question</u> <i>Question replaced with a modified question, need to state what kind of leak (assume fuel leak)? Otherwise SAT. 8/29/2005 This is not a waste gas release. Upon further review this does not meet the K/A anymore. Developed new question with a release in progress, and asked which rad monitor would indicate first and automatic actions that would occur if a setpoint were reached. 8/30/2005.</i>

Q#	1. LOK (F/H)	2. LO D (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	
	F	2										X	U	073G2.3.11 K/A does not appear to be met. The question is asking a knowledge of what it takes to satisfy an interlock, the K/A asks for the ability to control a release. In this case the K/A is not satisfied. (NEW) <u>Licensee to change stem to have SDT-1 tank release and D will be correct answer this will satisfy the RML-7 interlock to allow a release, and match K/A. 8/05/2005</u> <i>Question modified, appears to be SAT. 8/29/2005</i>
53	F	2					X						S	076A4.01 Meets K/A. Answer A is a subset of answer B. IF B is correct so is A, so I would disregard B. Need to make B a better distractor. Otherwise Okay. (NEW) <u>Changed distractor A to read RWP-2A and B to read 2B. Question SAT8/05/2005.</u> <i>No changes 8/29/2005</i>
54	F	2											S	078K3.02 Matches K/A Question is SAT (NEW) <i>No changes 8/30/2005</i>
55	F	2											S	103K4.06 Meets K/A. Question was on NRCN99 Exam . May have little discriminatory value. (BANK) <u>Changed stem to add low level alarm on SWT-1 which will along with the 4psig signal will isolate RCPs and make B the correct answer. MOD 8/05/2005</u> <i>No changes 8/30/2005</i>

Q#	1. LOK (F/H)	2. LO (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		
	H	2												S	001K1.05 Meets K/A due to rod motion (could also be a NI malfunction question. Original Question Used on 1998 NRC Exam. (MOD)) <u>Question SAT 8/05/2005</u> No changes 8/30/2005
	H	2												S	002K1.09 Meets K/A. Why are control rods withdrawn during a cooldown? Distractor B does not appear to be credible (LPI). (NEW) Changed B to read RBIC and HPI actuation. <u>Question SAT 8/05/2005</u> No changes 8/30/2005
58	H	2												S	014K4.06 Meets K/A BANK Question from 1998 NRC EXAM. <u>Question SAT 8/05/2005</u> No changes 8/30/2005
59	H	2												S	015K6.02 Meets K/A Question SAT. (BANK) Changed second bullet to read power supply is de-energized. <u>Question SAT 8/05/2005</u> May want to change "Most Likely" Change most likely to what will NI- 3 indicate? And add approx to distractors. 8/30/2005

Q#	1. LOK (F/H)	2. LO (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	
H		2										X	U	017K5.03 Does not meet the K/A. The K/A asks for Indications of superheat. This question asks for which indicator would be used to determine the Inadequate Core Cooling Region based on core exit thermocouples. Modified from a Question from the 1999 NRC EXAM. (MOD). <u>Gerry to look at lesson plan to develop question May need to select a new K/A</u> <i>New Question developed SAT. 9/6/2005</i>
H		2					X						S	041A1.02 Meets K/A. Several distractors may be correct (B,C & D). Need to reword stem to eliminate the possibility of more than one correct answer. (BANK) 1998 NRC Exam Question. Earliest pressure that the TBVs will begin to open <u>Question SAT 8/05/2005</u> Remove "used to apply TBVs bias" then SAT .8/30/2005
F		2											S	045K4.13 Matches K/A (MOD) <u>Question SAT 8/05/2005</u> <i>No changes 8/30/2005</i>

Q#	1. LOK (F/H)	2. LO (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		
53	H	2												S	055K3.01 Matches K/A Distractor D could also be considered correct. One day vacuum will stabilize. (BANK) 1999 NRC Exam Question <u>Changed distractor D to read condenser vacuum will stabilize prior to reaching a turbine trip setpoint.</u> <u>Question SAT 8/05/2005</u> <i>No changes 8/30/2005</i>
	F	2												S	078K1.0 5 Matches K/A. Question SAT. <u>Changed Distractor A to allow manual control of ADVs by SPO due to loss of remote operation.</u> <u>Question SAT 8/05/2005</u> <i>No changes 8/30/2005</i>
	F	2												S	086K4.06 Meets K/A Spurt pushbutton does not appear to be a good distractor. Spurt implies that is only discharges in spurts and the question asks for a discharge without any time limits. A does not appear to be a credible distractor. (BANK) <u>Changed stem to read such that the CO2 will flow continuously to the A MFW pump. Change distractor A to manually override the timer for the Control Room Spurt push button.</u> <u>Question SAT 8/05/2005</u> <i>No changes 8/30/2005</i>

Q#	1. LOK (F/H)	2. LO D (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. Other	6. U/E/S	7. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward	Q= K/A	SRO Only	
	H	2	X										S	G2.1.12 Teaching in stem. Remove the T/S verbiage and allow applicants to use 3.8.1 to find how often SR 3.8.1.1 needs to be performed. (BANK) <u>Change times in stem to make C correct this will make question modified and allow applicants to use 3.8.1 as reference</u> <u>Question SAT 8/05/2005 MOD</u> <i>will having 3.8.1 on the exam help the SROs with TS determination on SRO question # 8 26G2.2.23?</i> Will not effect SRO exam different TS. SAT 8/30/2005
	F	2											S	G2.1.29 Matches K/A Question SAT. (BANK)
58	F	2											S	G2.2.1 Matches K/A Question SAT. (NEW) Use Dilute instead of add demineralizer.
59	F	2											S	G2.2.11 Matches K/A Question SAT. (BANK)
70	F	2											S	G2.2.28 Matches K/A. Question SAT. (NEW)
71	F	2											S	G2.3.1 Matches K/A distractor D is not plausible. (NEW) <u>Expedite completion of lineup and when lineup is complete exit the RCA and ...</u> <u>Question SAT 8/05/2005</u> Distractor A, exit the letdown Cooler room, move to a low dose area in the RB and ... 8/30/2005

Q#	1. LOK (F/H)	2. LO D (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		
72	F	2												S	G2.3.10 Matches K/A Question SAT (BANK) No changes 8/30/2005
73	F	2												S	G2.4.6 Matches K/A Question SAT. (BANK) <u>Changed A to Read Ensures excessive... will not cause vortexes..</u> <u>Question SAT 8/05/2005</u> No changes 8/30/2005
74	F	2												E	G2.4.35 Matches K/A Question was used on 1999NRC EXAM (BANK) <u>Attempt to find another bank Question (upon further review the reasons prevented question from being discriminating.</u> No changes 8/30/2005
75	F	2												S	G2.4.43 Matches K/A. Question SAT. (NEW) <u>Question SAT 8/05/2005</u> No changes 8/30/2005

Q#	1. LOK (F/H)	2. LO D (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			
SRO Questions																
	H	2												S	001G2.1.33 Meets K/A . Question appears to be SAT. (NEW)	
2	H	2												S	003A2.01 Meets K/A. <u>Same K/A as on the 1999 NRC exam.</u> Need to Add IAW OP 302 to the stem. (MOD) <u>Added IAW OP-302</u> <u>Question SAT 8/05/2005</u> <i>After Reviewing the simulator scenarios this question was found to be very close to an event on the scenario, asked to change somewhat to make it different. 8/19/2005 modify to have seal problem and use a graph.</i> <i>Changed dumpster clicks and computer point and answer to D. MOD 8/30/2005</i>	
	F	2												S	005G2.2.18 Meets K/A Kind of simple. Could some one argue that D could also be correct ? Otherwise Question appears to be SAT. (BANK) <u>Added IAW AI-500</u> <u>Question SAT 8/05/2005</u>	

Q#	1. LOK (F/H)	2. LO (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		
4	H	2											X	U	<p>009EA2.34 Meets K/A Does not appear to be SRO only knowledge. This is typical knowledge that an RO should have. (BANK)</p> <p><u>Add basis to distractors to make SRO only. 8/05/2005</u></p> <p><i>During discussions on 8/19 decided to add Rule 1 is applicable.... not applicable and reasons (basis) why.</i></p> <p>Review of Question after changes on 8/23 revealed that reasons for distractors A and B are not plausible, refine reason to be more credible.</p> <p><i>Changed to full flow from HPI pump and BWOG to replace GEOG.</i></p> <p><i>No changes 8/30/2005</i></p>
	H	2												S	<p>012A2.05 Meets K/A. Replace should with "are required to be taken". Discuss "Prompt and Prudent Actions" (NEW)</p> <p><u>Replaced should with are required. Question SAT 8/05/2005</u></p> <p><i>During question review 8/19 and validation distractor D needed to be changed. Changed distractor to read RCS pressure transmitter slowly fails high and added new action. Question SAT</i></p>

Q#	1. LOK (F/H)	2. LO D (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	
5	H	2											S	<p>015A2.01 Meets K/A. Teaching in distractor A. Distractors A and B do not really have a plant response. Is distractor D credible? (NEW)</p> <p>Removed the "only one RPS channel lost power" statement and added actions to re-power the RPS cabinet for distractor A to make it more correct, and have actions to perform.</p> <p><u>Question SAT 8/05/2005</u></p> <p><i>During review and validation on 8/19 distractors A and B still did not appear to be plausible, added that SASS does not transfer and annunciator to stem to make distractors more plausible. Question 8/22 SAT.</i></p>
	H	2										X	S	<p>022AA2.01 Meets K/A. Not SRO Only. This question can be answered correctly with only systems knowledge by figuring out what the problem is. Without having any knowledge of what procedure needs to be entered. (BANK)</p> <p><u>Question completely rewritten, Modified.</u></p> <p><u>Question is now SAT 8/05/2005.</u></p> <p><i>8/19 question reviewed, SAT</i></p>

Q#	1. LOK (F/H)	2. LO (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	2		X		X								U	026G2.2.23 Meets K/A. Distractors B and C have reasons listed for performing the action A and D do not. Need to remove reasons from B and C. It also appears that an entry into 3.0.3 has occurred. A statement should be made that actions were commenced, and then stopped when A BS was returned to service. (I feel this will be a question of the applicants). BANK. Discuss use of references. <u>Need to rewrite Question due to 3.03 entry.</u> <i>During 8/19 review requested that 3.03 entry be added as one of the answers It would be correct. Licensee add 3.03 to stem, this is teaching need to correct. 8/22 Went through several iterations and decided to leave question as is. 9/07/2005</i>
9	F	2	X											U	036AA2.02 Meets K/A. Needs to have IAW ... added to stem. As written very simple question (NEW). <u>Need to work on distractors B and C and add IAW FP-203.</u> <i>Added fuel movement is stopped due to reduced fuel clarify SAT 8/23</i>
10	F	2												S	037AA2.10 Meets K/A. Need to make sure that the definition of identified leakage is not also correct for this leak rate into the S/Gs. Need to have all the distractors line up correctly. (NEW) <u>Question SAT 8/05/2005</u> <i>After 8/19 review still SAT</i>

Q#	1. LOK (F/H)	2. LO (1-5) D	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		
11	H	1											X	U	<p>041A2.02 Does not meet K/A . The K/A asks for actions for a Steam Valve Stuck Open. This question asks for the procedure to be entered based on a wrong bias being applied. This question was very simple. Need to address the K/A and write to an appropriate SRO level. (NEW)</p> <p><u>Valve is electronically stuck open. K/A okay</u> <u>Continue to work on Question so it is not just system based knowledge. Actions required to be performed 8/05/2005</u></p> <p><i>Actions that were listed were perform follow-up actions of Procedure ... need more definitive actions. 8/23 added distractor minimize RCS temp changes using OTSGs , and added to Distractor D check operation of TBVs and ADVs. This should be sat. 8/30/2005</i></p>
	H	2												S	<p>054AA2.03 Meets K/A. If D is true someone may appeal question if they select this answer, can we make it more incorrect? (NEW)</p> <p><u>Replaced D distractor and moved the distractors around D is now correct answer.</u></p> <p><u>Question is SAT 8/05/2005</u></p> <p><i>No changes 8/30/2005</i></p>

Q#	1. LOK (F/H)	2. LO D (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		
13	H	2						X						U	<p>055EG2.4.41 Meets K/A. Distractors A and B are not credible. With all that has happened in the plant the only 2 credible choices are site area and general. There is also an Admin JPM that has the applicants perform an emergency classification. Recommend randomly selecting a new K/A. (NEW)</p> <p>Gerry to Pick another K/A double jeopardy . 055EG2.4.6 was randomly selected.</p> <p><i>Question Still needs work. Gerry to rewrite. 8/23 question rewritten SAT 9/06/2005</i></p>
	H	2												S	<p>057G2.4.32 Matches K/A. The way I read the K/A is what does the operator do if he loses a vital bus without any annunciators. If it is determined that the question does meet the K/A then distractor C may also be correct. Without listing a procedure in the stem an operator may perform C. With a governor problem the pump could trip at any time and this would be prudent action. (BANK)</p> <p>After much discussion question appears to meet K/A and IAW AP-430 was added to tighten up question. Question SAT</p> <p><i>No changes 8/30/2005</i></p>

Q#	1. LOK (F/H)	2. LO (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		
F		2												S	061G2.1.12 Meets K/A Distractor D does not seem credible, unless CR has Electric driven feed pumps. (NEW) <u>Steam from other (coal units provide motive force) for feed pumps. Question SAT</u> <u>Added to immediately take actions to restore to answer. 8/23 SAT</u>
16 F		2				X								U	071A2.02 Kind of meets K/A. <u>Question used on 1999 NRC exam (Check K/A used).</u> The reason for distractor B being wrong suggests that response A could be a correct answer. The time on D is too long. WGD releases are normally only 4 or 5 hours long so only one sample would be taken. This makes D not credible. (BANK) <u>Review ODCM and make a decision on whether to keep question as is.</u> <u>Randomly selected 002A2.04 as a replacement 8/25</u> <u>New Question has some teaching in stem but does not appear to affect any other questions, or this question.</u>
H		2												S	BW/A04AA2.2 Meets K/A (NEW) <u>Question SAT 8/05/2005</u>

Q#	1. LOK (F/H)	2. LO (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			
18	H	2				X									U	BW/E02EA2.1 Meets K/A Distractor A does not appear to be credible. Why would one think that a loss of SCM had occurred with RCS at 1900 psig with OTSGs at normal post trip values (pressure is a little low but not enough to lose SCM. Kind of simple question. (NEW) <u>Work on another distractor for A.</u> <u>8/05/2005</u> <i>Distractor A is still not plausible, why would an individual go to the Post Loca Cooldown and then stop for PTS Concerns.</i>
19	F	1											X		U	G2.1.22 Meets K/A Question was on <u>1999 NRC exam RO portion with the same K/A.</u> Not SRO only knowledge. <u>Replace Question. (BANK)</u> <i>Replaced Question with new question appears to be SAT 8/25</i>
20	F	2				X									U	G2.1.34 Kind of matches K/A, it is not really addressing chemistry limits. Very Simple is this common knowledge for ROs and SROs. (NEW) <u>Look again later.</u> <i>Question SAT 8/25 will leave as is.</i>

Q#	1. LOK (F/H)	2. LO D (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			
21	F	1												X	?	G2.2.22 Matches K/A. Same K/A was on 1999 NRC exam Look for question on exam in office. Not SRO only knowledge, 5 minute TS are also to be known by ROs. (NEW) <u>Work on a new question</u> Question appears to be SAT. Still somewhat simple.
22	F	2				X									U	G2.2.24 Matches K/A. If A EDG is operable then both A and B distractors would be correct. This makes them not credible distractors. (BANK) <u>Work on Distractors A and B</u> Replaced with new question, and added to return to service, or be in mode 3 in certain time frames. After this change question appears to be SAT 8/25/2005
23	F	2				X									U	G2.3.2 Matches K/A. Distractor D is not credible. Replace distractor otherwise okay. (NEW) <u>Rewrite distractor D.</u> Changed stem to Waste Gas system valve, and changed to IAW procedure. C is the only correct answer. SAT 8/25

Q#	1. LOK (F/H)	2. LO D (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=	SRO K/A Only		
24	F	1				X							X	U	2.4.23 Matches K/A, Very Low discriminatory value. Distractor A and Care not credible. How can you have PTS concerns with inadequate heat transfer? And keep three fission product barrier with one (SGTR) already broken? Not really SRO only. (NEW) <u>Replace. Gerry to work</u> Changed K/A to 2.4.11 Replaced Question, New question SAT.
	F	2												S	G2.4.30 Matches K/A Distractors C and D not credible, with the seven days for a written report added. I don't know of any 30 minute reports either for notification of the NRC. Try 15 min. 1 hour 4 hours 8 hours.. (NEW) Changed selections to above. <u>Question is SAT.</u> <u>8/05/2005</u>

Written Examination Grading
Quality ChecklistFacility: CRYSTAL RIVERDate of Exam: 7/19/05Exam Level: RO SRO

Item Description	Initials		
	a	b	c
1. Clean answer sheets copied before grading		<u>N/A</u>	
2. Answer key changes and question deletions justified and documented			
3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)			
4. Grading for all borderline cases (80 \pm 2% overall and 70 or 80, as applicable, \pm 4% on the SRO-only) reviewed in detail			
5. All other failing examinations checked to ensure that grades are justified			
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants			

	Printed Name/Signature	Date
a. Grader	<u>STEVEN D. ROSE / </u>	<u>10/5/05</u>
b. Facility Reviewer(*)	<u>N/A</u>	<u>N/A</u>
c. NRC Chief Examiner (*)	<u>GERARD W. LASCA / </u>	<u>10/5/05</u>
d. NRC Supervisor (*)	<u>James H. Moorman / </u>	<u>10.27.05</u>

(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.

Facility: <u>CRYSTAL RIVER</u>		Date of Exam: <u>9/19/05</u>		Exam Level: RO <u>(SRO)</u>	
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3. Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)					
4. Grading for all borderline cases (80 \pm 2% overall and 70 or 80, as applicable, \pm 4% on the SRO-only) reviewed in detail					
5. All other failing examinations checked to ensure that grades are justified					
6. Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants					
Printed Name/Signature		Date			
a. Grader	<u>STEVEN D. ROSE / </u>		<u>10/5/05</u>		
b. Facility Reviewer(*)	<u>N/A</u>		<u>N/A</u>		
c. NRC Chief Examiner (*)	<u>GERARD W. LASICA / </u>		<u>10/5/05</u>		
d. NRC Supervisor (*)	<u>JAMES H. MOORMAN, JR. / </u>		<u>10-27-05</u>		
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Post-Examination Check Sheet	
Facility: Crystal River	Date of Examination: 9/12-9/19 2005
Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	9/21/2005
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	10/05/2005
3. Operating tests graded by NRC examiners	10/07/2005
4. NRC chief examiner review of operating test and written exam grading completed	10/19/2005
5. Responsible supervisor review completed	10/19/2005
6. Management (licensing official) review completed	10/19/2005
7. License and denial letters mailed	10/20/2005
8. Facility notified of results	10/20/2005
9. Examination report issued (refer to NRC MC 0612)	10/31/2005
10. Reference material returned after final resolution of any appeals	N/A. ELECTRONIC



Crystal River Nuclear Plant
Docket No. 50-302
Operating License No. DPR-72

July 20, 2005
3F0705-08

U.S. Nuclear Regulatory Commission
Attn: Mr. Gerry W. Laska
Sam Nunn Atlanta Federal Center
61 Forsyth Street, S.W., Suite 23T85
Atlanta, GA 30303-8931

Subject: Crystal River Unit 3 – 2005 Reactor Operator (RO) and Senior Reactor Operator (SRO) Written and Operating Examinations

Reference: NRC to PEF letter, dated June 20, 2005, "Reactor and Senior Reactor Operator Initial Examinations – Crystal River Nuclear Plant"

Dear Sir:

By letter dated June 20, 2005, the NRC requested that Crystal River Nuclear Plant (CR-3) provide specific examination materials, to be submitted by July 26, 2005, in preparation for the upcoming initial licensing examinations that will be conducted at CR-3 during September 2005.

Attached to this submittal, Florida Power Corporation, doing business as Progress Energy Florida, Inc. (PEF), hereby provides the following requested documents: the final written (final draft), the examination scenarios and the job performance measures (JPMs).

PEF requests that the information contained in the attachment to this letter be exempt from public disclosure until after the examinations have been completed.

If you have any questions regarding this submittal, please contact Mr. Mark Van Sicklen, Supervisor, Operator Initial Training at (352) 795-0504, ext. 6471 or Mr. Alan Kennedy, Senior Nuclear Operations Training Instructor at (352) 795-0504, ext. 6129.

Sincerely,

A handwritten signature in black ink, appearing to read 'J. A. Franke'.

J. A. Franke
Plant General Manager

JAF/ff

Attachments

xc: Senior Resident Inspector (w/o att.)
James H. Moorman, III, Region II (w/o att.)

Progress Energy Florida, Inc.
Crystal River Nuclear Plant
15760 W. Powerline Street
Crystal River, FL 34428