

FARLEY EXAM 2000-301

50-348, 50-364/2000-301

MAY 8 - 18, 2000

Administrative Documents

(Yellow Paper)

- ✓ 1. Exam Preparation Checklist ES-201-1 ✓
- ✓ 2. Exam Outline Quality Checklist ES-201-2 ✓
- ✓ 3. Exam Security Agreement ES-201-3 ✓
- ✓ 4. Administrative Topics Outline (Final) ES-301-1 ✓
- ✓ 5. Control Room Systems and 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-401-7 ✓
- ✓ 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 ✓

Facility: <u>FARLEY</u>		Date of Examination: <u>5/8/00</u>
Examinations 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 & b)	✓
-120	2. NRC examiners and facility contact assigned (C.1.d; C.2.e)	✓
-120	3. Facility contact briefed on security & other requirements (C.2.c)	ME
-120	4. Corporate notification letter sent (C.2.d)	1/5 ME
[-90]	[5. Reference material due (C.1.e; C.3.c)]	N/A
-75	6. Integrated examination outline(s) due (C.1.e & f; C.3.d)	ME 2/22
-70	7. Examination outline(s) reviewed by NRC and feedback provided to facility licensee (C.2.h; C.3.e)	ME 2/28
-45	8. Proposed examinations, supporting documentation, and reference materials due (C.1.e, f, g & h; C.3.d)	ME 3/23
-30	9. Preliminary license applications due (C.1.i; C.2.g; ES-202)	ME 4/10
-14	10. Final license applications due and assignment sheet prepared (C.1.i; C.2.g; ES-202)	ME 4/27
-14	11. Examination approved by NRC supervisor for facility licensee review (C.2.h; C.3.f)	ME 4/21
-14	12. Examinations reviewed with facility licensee (C.1.j; C.2.f & h; C.3.g)	ME 4/26
-7	13. Written examinations and operating tests approved by NRC supervisor (C.2.i; C.3.h)	ME 5/4
-7	14. Final applications reviewed; assignment sheet updated; waiver letters sent (C.2.g, ES-204)	ME 5/4
-7	15. Proctoring/written exam administration guidelines reviewed with facility licensee and authorization granted to give written exams (if applicable) (C.3.k)	ME 5/4
-7	16. Approved scenarios, job performance measures, and questions distributed to NRC examiners (C.3.i)	ME 5/8
<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: May, 2000		
Item	Task Description	Initials		
		a	b*	c
1. WRITTEN	a. Verify that the outline(s) fit(s) the appropriate model per ES-401.	SW	8	g m z
	b. Assess whether the outline was systematically prepared and whether all knowledge and ability categories are appropriately sampled.	SW	8	g m z
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	SW	8	g m z
	d. Assess whether the repetition from previous examination outlines is excessive.	SW	8	g m z
2. SIM	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.	SW	8	g m z
	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.	SW	8	g m z
	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.	SW	8	g m z
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.	5	8	g m z
	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.	5	8	g m z
	c. Verify that the required administrative topics are covered, with emphasis on performance-based activities.	5	8	g m z
	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.	5	8	g m z
4. GENERAL	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam section.	SW	8	g m z
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	SW	8	g m z
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	SW	8	g m z
	d. Check for duplication and overlap among exam sections.	SW	8	g m z
	e. Check the entire exam for balance of coverage.	SW	8	g m z
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	SW	8	g m z
a. Author	Michael E. Stein / <i>[Signature]</i>		Date: 12/23/99	
b. Facility Reviewer(*)	Scott Freeman / <i>[Signature]</i>		Date: 2/1/00	
c. Chief Examiner	MICHAEL E. ERNSTES / <i>[Signature]</i>		Date: 2/28/00	
d. NRC Supervisor	George T. Hopper / <i>[Signature]</i>		Date: 3/1/00	

(*) Not applicable for NRC-developed examinations.

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Energy to Serve Your World™

June 1, 2000

FNP-2000-0092-TRN

Mr. Mike Ernstes
United States Nuclear Regulatory Commission
Region II, Atlanta Federal Center
61 Forsyth St., Suite 23T85
Atlanta, GA 30303

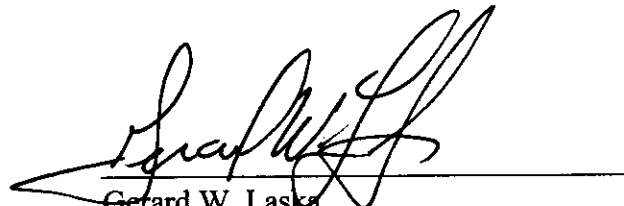
Dear Mr. Ernstes:

Enclosed are the completed post-exam Examination Security Agreements for the May 2000 Farley NRC license examinations.

In accordance with NRC examination requirements, all examination materials were withheld from public disclosure until the May 2000 NRC license examinations were complete.

If you need any additional information, please contact Mr. Gary Ohmstede at (334) 899-5156 extension 6111 or myself at (334) 899-5156 extension 6148.

Sincerely,



Gerard W. Laska
Plant Instructor

Enclosures

GWL:mgr

cc: M.J. Ajluni (without attachments)
S. Fulmer (without attachments)
W. D. Oldfield (without attachments)
File

MISC DISK #35

FARLEY PLANT

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 5/8/00 & 5/22/00 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 5/8/00 & 5/22/00. 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. GERALD W. LASKA	PLANT INSTRUCTOR/NUCLEAR	<i>Gerald W. Laska</i>	8/23/99	<i>Gerald W. Laska</i>	5-19-00	1
2. GARY OHMSTEDE	PLANT INSTRUCTOR/NUCLEAR	<i>Gary Ohmstede</i>	8/26/99	<i>Gary Ohmstede</i>	5-19-00	
3. M. GAIL ROLLINS	Admin Assistant	<i>M. Gail Rollins</i>	8/26/99	<i>M. Gail Rollins</i>	5-23-00	
4. SCOTT FULMER	TRAINING & EP MANAGER	<i>Scott Fulmer</i>	12/7/99	<i>Scott Fulmer</i>	5-19-00	*
5. GARY WEALE	Licensing Examiner	<i>Gary Weale</i>	12/9/99	<i>Gary Weale</i>	5-19-00	
6. Candace Mondello	tech edison	<i>Candace Mondello</i>	12-21-99	<i>Candace Mondello</i>	5-20-00	
7. Marcia Waterlond	Clerical	<i>Marcia Waterlond</i>	12-20-99	<i>Marcia Waterlond</i>	5/25/00	
8. MICHAEL STEIN	LICENSING EXAMINER	<i>Michael Stein</i>	12/20/99	<i>Michael Stein</i>	5/25/00	
9. RICHARD MILLER	License Examiner	<i>Richard Miller</i>	12/23/99	<i>Richard Miller</i>	5/25/00	
10. EVAN KINGSLEY	License Examiner	<i>Evan Kingsley</i>	12/30/99	<i>Evan Kingsley</i>	5/30/00	
11. TIM McDONALD	Assisting Exam Writer	<i>Tim McDonald</i>	1/4/00	<i>Tim McDonald</i>	5/31/00	
12. Richard Wells	SFO	<i>Richard Wells</i>	3/8/00	<i>Richard Wells</i>	5-23-00	
13. Doyle Sellers	Plant Operator	<i>Doyle Sellers</i>	3-17-00	<i>Doyle Sellers</i>	5-24-00	
14. THOMAS C. BINGO	SFO	<i>Thomas C. Bingo</i>	3/20/00	<i>Thomas C. Bingo</i>	5/24/00	
15. William C. McPherson	Simulator Applications	<i>William C. McPherson</i>	1/24/00	<i>William C. McPherson</i>	1/24/00	

NOTES: ① ON 9/23/99 CALLED MIKE ERNSTES CONCERNING JOHN DEWS & MIKE MCKOR MCCORREL ATTENDING ON LRP RETRAINING CLASS TAUGHT BY GERALD W. LASKA. SUBJECTS TAUGHT: SGWL, ACP130, & STEAM DUMPS.

FARLEY Plant

ES-201

Examination Security Agreement

Form ES-201-3

1. Pre-Examination

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2. Post-Examination

To the best of my knowledge, I did not divulge to any unauthorized persons any information concerning the NRC licensing examinations administered during the week(s) of _____. 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
16. Galle, Michael	Sim Coord.	<i>Michael Galle</i>	5/8/00	<i>Michael Galle</i>	5/23/00
2.17. Powell, Joseph	Senior Plant Instructor	<i>Joe Powell</i>	5/8/00	<i>Joe Powell</i>	5/19/00
3.18. Collins, CD	OPS mgr.	<i>CD Collins</i>	5-8-00	<i>CD Collins</i>	5-23-00
4.19. O'Brien, W.D.	CPS TRN SUPER	<i>W.D. O'Brien</i>	5-8-00	<i>W.D. O'Brien</i>	5-23-00
5. Furich, RS	Supt. OPS Support	<i>RS Furich</i>	5/9/00	<i>RS Furich</i>	5/24/00
6. Allen Wynn	OPS Instructor	<i>Allen Wynn</i>	5/9/00	<i>Allen Wynn</i>	5/24/00
7. Douglas Hobson	OPS SUPT	<i>Douglas Hobson</i>	5/10/00	<i>Douglas Hobson</i>	6/1/00
8.					
9.					
10.					
11.					
12.					
13.					
14.					
15.					

NOTES:

Facility: <u>Farley Nuclear Plant</u>		Date of Examination: <u>May, 2000</u>
Examination Level (Circle One): RO / SRO		Operating Test Number: <u>R</u>
Administrative Topic/Subject Description	Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions	
A.1	Plant Parameter Verification	JPM CRO-035, Perform RCS Water Inventory Balance. – 2.1.19 (3.0/3.0)
		NA
	Controlled Procedures	Question on procedure usage level – 2.1.20 (4.3/4.2)
		Question on working copies of procedures – 2.1.21 (3.1/3.2)
A.2	Refueling	Question on RO duties in the CR during fuel handling – 2.2.30 (3.5/3.3)
		Question on spent fuel movement procedures – 2.2.28 (2.6/3.5)
A.3	ALARA	Question on facility ALARA program – 2.3.2 (2.5/2.9)
		Question on radiation exposure limits – 2.3.4 (2.5/3.1)
A.4	Emergency Plan	JPM-SS-059- Operate the NRC ENS – 2.4.43 (2.8/3.5)
		NA

Examiner: _____

Chief Examiner: _____

Facility: <u>Farley Nuclear Plant</u>		Date of Examination: <u>May, 2000</u>
Examination Level (Circle One): <u>RO / SRO</u>		Operating Test Number: <u>S</u>
Administrative Topic/Subject Description		Describe method of evaluation: 1. ONE Administrative JPM, OR 2. TWO Administrative Questions
A.1	Shutdown Safety Assessment.	JPM-CRO-(NEW)-Complete a Shutdown Safety Assessment - 2.1.25 (2.8/3.1) (Determine Time to Saturation)
		NA
	Shift Staffing	Question on shift staffing requirements - 2.1.4 (2.3/3.4)
		Question on procedures and directives related to shift staffing - 2.1.5 (2.3/3.4)
A.2	Refueling	JPM SO-139C, Perform Spent Fuel Bridge Crane Operability Test - 2.2.27 (2.6/3.5)
		NA
A.3	ALARA	Question on facility ALARA program – 2.3.2 (2.5/2.9)
		Question on radiation exposure limits – 2.3.4 (2.5/3.1)
A.4	EALs and Classification	JPM SS-138C, Classify an Emergency Event and Make Initial Notifications – 2.4.41 (2.3/4.1)
		NA

Examiner: _____

Chief Examiner: _____

Facility: FarleyDate of Examination: May 2000Exam Level (circle one): **RO** / SRO(I) / SRO(U)Operating Test No.: R**B.1 Control Room Systems**

System / JPM Title	Type Code*	Safety Function
a. CVCS / CRO-139 - Dilute the RCS using BTRS	D, C	1
b. CVCS / CRO-343J – Control charging after SI	D, S, A	2
c. ECCS / NRC-002 - Simultaneous Cold Leg and Hot Leg Recirculation	N, S, A	3
d. RHR / NRC-001 - Shift RHR Trains for Cooldown in Mode 4	N, S, L	4P
e. Main Feedwater / CRO-358B - Place a SGFP on Service	D, S	4S
f. EDG / CRO-359E - Start 1C Diesel Generator from the EPB	D, S, A	6
g. NI System / CRO-126B - Intermediate Range Functional Check	D, S	7

B.2 Facility Walk-Through

a. PRT / SO-65 - PRT Cooldown Using Normal Method	D,R	5
b. CCW / SO-605 – Back-up cooling to charging pumps from Fire Protection	D, R	8
c. EDG / SO-351 Modified – Manual EDG Start	M, A	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: May 2000
 Exam Level (circle one): RO / **SRO(I)** / SRO(U) Operating Test No.: S

B.1 Control Room Systems

System / JPM Title	Type Code*	Safety Function
a. CRDS / CRO-033B Modified Recover Misaligned Rod	D, S, A	1
b. CVCS / CRO-343J Control charging after SI	D, S, A	2
c. ECCS / NRC-002 – Simultaneous Cold Leg and Hot Leg Recirculation	N, S, A	3
d. RHR / CRO-066C - Place RHR in Cooldown	D, S, L	4P
e. Steam Dumps / CRO-169 - Operate The Steam Dump System In Various Modes	D, S	4S
f. AC / CRO-254 - Loss of Vital 120V AC Bus "A"	D, C	6
g. NI's / CRO-355A – Containment Ventilation	D, S	5

B.2 Facility Walk-Through

a. PRT / SO- 65 – PRT Cooldown	D, R	5
b. CCW / SO-605 - Align Backup cooling to the Charging Pumps from Fire Protection.	D, R	8
c. EDG/SO-351Modified - Manual EDG Start	M, A	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: <u>FARLEY</u>		Date of Examination: <u>5/8/00</u>		Operating Test Number: <u>A</u>	
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).	<u>JS</u>	<u>JS</u>	<u>ME</u>	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	<u>JS</u>	<u>JS</u>	<u>ME</u>	
c.	The operating test shall not duplicate items from the applicants' audit test(s) (see Section D.1.a).	<u>JS</u>	<u>JS</u>	<u>ME</u>	
d.	Overlap with the written examination and between operating test categories is within acceptable limits.	<u>JS</u>	<u>JS</u>	<u>ME</u>	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	<u>JS</u>	<u>JS</u>	<u>ME</u>	
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 - 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 	<u>JS</u>	<u>JS</u>	<u>ME</u>	
b.	The prescribed questions in Category A are predominantly open reference and meet the criteria in Attachment 1 of ES-301.	<u>JS</u>		<u>ME</u>	
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.	<u>JS</u>	<u>JS</u>	<u>ME</u>	
d.	At least 20 percent of the JPMs on each test are new or significantly modified.	<u>JS</u>	<u>JS</u>	<u>ME</u>	
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.	<u>JS</u>	<u>JS</u>	<u>ME</u>	
a. Author <u>G.W. Laska</u> <u>[Signature]</u> Printed Name / Signature b. Facility Reviewer (*) <u>Scott Fulmer</u> <u>[Signature]</u> c. NRC Chief Examiner (*) <u>M.E. ERNSTES</u> d. NRC Supervisor (*) <u>G.D. Christensen</u> <u>[Signature]</u>		Date <u>3/23/00</u> <u>3/23/00</u> <u>4/27/00</u> <u>3/4/00</u>			
(*) The facility signature is not applicable for NRC-developed tests; two independent NRC reviews are required.					

Facility: FARLEY		Date of Exam: 5/8/00		Scenario Numbers: 1, 2, 3		Operating Test No.: A	
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.			<i>JS</i>	<i>JS</i>	<i>ME</i>	
2.	The scenarios consist mostly of related events.			<i>JS</i>	<i>JS</i>	<i>ME</i>	
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)			<i>JS</i>	<i>JS</i>	<i>ME</i>	
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.			<i>JS</i>	<i>JS</i>	<i>ME</i>	
5.	The events are valid with regard to physics and thermodynamics.			<i>JS</i>	<i>JS</i>	<i>ME</i>	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.			<i>JS</i>	<i>JS</i>	<i>ME</i>	
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.						
8.	The simulator modeling is not altered.			<i>JS</i>	<i>JS</i>	<i>ME</i>	
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.			<i>JS</i>	<i>JS</i>	<i>ME</i>	
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.			<i>JS</i>	<i>JS</i>	<i>ME</i>	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).			<i>JS</i>	<i>JS</i>	<i>ME</i>	
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).			<i>JS</i>	<i>JS</i>	<i>ME</i>	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.			<i>JS</i>	<i>JS</i>	<i>ME</i>	
TARGET QUANTITATIVE ATTRIBUTES (PER SCENARIO; SEE SECTION D.4.D)				1	2	3	
				Actual Attributes			
1.	Total malfunctions (5-8)	7, 8, 8		<i>JS</i>	<i>JS</i>	<i>ME</i>	
2.	Malfunctions after EOP entry (1-2)	1, 1, 3		<i>JS</i>	<i>JS</i>	<i>ME</i>	
3.	Abnormal events (2-4)	5, 4, 5		<i>JS</i>	<i>JS</i>	<i>ME</i>	
4.	Major transients (1-2)	1, 2, 2		<i>JS</i>	<i>JS</i>	<i>ME</i>	
5.	EOPs entered/requiring substantive actions (1-2)	1, 2, 2		<i>JS</i>	<i>JS</i>	<i>ME</i>	
6.	EOP contingencies requiring substantive actions (0-2)	1, 2, 0		<i>JS</i>	<i>JS</i>	<i>ME</i>	
7.	Critical tasks (2-3)	3, 5, 3		<i>JS</i>	<i>JS</i>	<i>ME</i>	

FARLEY

OPERATING TEST NO.: A

Applicant Type	Evolution Type	Minimum Number	Scenario Number			
			1	2	3	4
RO	Reactivity	1	4	1	4	
	Normal	1	4	1	4	
	Instrument	2	1,5	2,3	1,3	
	Component	2	0,2,3,6A	0,4,5	0,2,5	
	Major	1	6	6,6A	6,6A	
As RO	Reactivity	1	4	1	4	
	Normal	0	4	1	4	
	Instrument	1	1	2	1	
	Component	1	0,3	0,4	0,5	
	Major	1	6	6,6A	6,6A	
SRO-I As SRO	Reactivity	0	4	1	4	
	Normal	1	4	1	4	
	Instrument	1	1,5	2,3	1,3	
	Component	1	0,2,3,6A	0,4,5	0,2,5	
	Major	1	6	6,6A	6,6A	
SRO-U	Reactivity	0	4	1	4	
	Normal	1	4	1	4	
	Instrument	1	1,5	2,3	1,3	
	Component	1	0,2,3,6A	0,4,5	0,2,5	
	Major	1	6	6,6A	6,6A	

- 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.2.4 of Appendix D.

Author:

Chief Examiner:

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

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:

Chief Examiner:

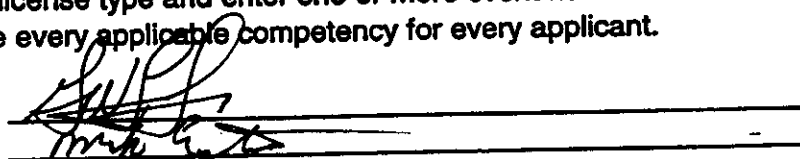
Competencies	SRO Applicant #14 RO/SRO-I/SRO-U				SRO Applicant #25 RO/SRO-I/SRO-U				SRO Applicant #36 RO/SRO-I/SRO-U			
	OP TEST A SCENARIO				OP TEST A SCENARIO				OP TEST A SCENARIO			
	SRO 1	RO 2	BOF 3	4	RO 1	BOF 2	SRO 3	4	BOF 1	SRO 2	RO 3	4
Understand and Interpret Annunciators and Alarms	1,2,3	2,4	2,3		1,3	3,5	1,2,3		2,5	2,3,4	1,5	
Diagnose Events and Conditions	1,2,3	2,4	2,3		1,3	3,5	1,2,3		2,5	2,3,4	1,5	
Understand Plant and System Response	1,2,3	2,4	2,3		1,3	3,5	1,2,3		2,5	2,3,4	1,5	
Comply With and Use Procedures (1)	1,2,3	2,4	2,3		1,3	3,5	1,2,3		2,5	2,3,4	1,5	
Operate Control Boards (2)	—	2,4	2,3		1,3	3,5	—		2,5	—	1,5	
Communicate and Interact With the Crew	1,2,3	2,4	2,3		1,3	3,5	1,2,3		2,5	2,3,4	1,5	
Demonstrate Supervisory Ability (3)	1,2,4	—	—		—	—	1,2,4		—	1,2,4	—	
Comply With and Use Tech. Specs. (3)	5	—	—		—	—	1,3		—	2	—	
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:

Chief Examiner:



Facility: <u>FARLEY</u>		Date of Exam: <u>5/8/00</u>		Exam Level: RO/SRO		
Item Description				Initial		
				a	b*	c*
1.	Questions and answers technically accurate and applicable to facility			<u>JS</u>	<u>JS</u>	<u>ME</u>
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			<u>JS</u>	<u>JS</u>	<u>ME</u>
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			<u>JS</u>	<u>JS</u>	<u>ME</u>
4.	No more than 25 questions are duplicated from [practice exams, quizzes, and] the last two NRC licensing exams; enter the actual number of duplicated questions at right	NRC	Other	<u>JS</u>	<u>JS</u>	<u>ME</u>
		<u>0</u>	<u>8</u>			
5.	[No (Less than 5 percent) question duplication from the license screening/audit exam (if independently written)]			<u>JS</u>	<u>JS</u>	<u>ME</u>
6.	Bank use meets limits (no more than 50 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank	Modified	<u>JS</u>	<u>JS</u>	<u>ME</u>
		<u>8</u>	<u>26</u>			
7.	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory	C/A	<u>JS</u>	<u>JS</u>	<u>ME</u>
		<u>46</u>	<u>54</u>			
8.	References/handouts provided do not give away answers			<u>JS</u>	<u>JS</u>	<u>ME</u>
9.	Question distribution meets previously approved examination outline; deviations are justified			<u>JS</u>	<u>JS</u>	<u>ME</u>
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			<u>JS</u>	<u>JS</u>	<u>ME</u>
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			<u>JS</u>	<u>JS</u>	<u>ME</u>
a. Author <u>Garard W. L...</u> b. Facility Reviewer(*) <u>Scott F...</u> c. NRC Chief Examiner(*) <u>MIKE GANSTOS</u> d. NRC Regional Supervisor(*) <u>H. Christensen</u>				Printed Name / Signature Date <u>3/23/00</u> <u>3/23/00</u> <u>4/21/00</u> <u>4/24/00</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 6. [] The items in brackets do not apply to NRC-prepared examinations.						

Facility: <u>FARLEY</u>		Date of Exam: <u>5/8/00</u>		Exam Level: <u>RO/SRO</u>																											
Item Description				Initial																											
				a	b*	c*																									
1.	Questions and answers technically accurate and applicable to facility			<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>																									
2.	a. NRC K/As referenced for all questions b. Facility learning objectives referenced as available			<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>																									
3.	RO/SRO overlap is no more than 75 percent, and SRO questions are appropriate per Section D.2.d of ES-401			<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>																									
4.	No more than 25 questions are duplicated from [practice exams, quizzes, and] the last two NRC licensing exams; enter the actual number of duplicated questions at right	NRC	Other	<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>																									
		0	15																												
5.	[No (Less than 5 percent) question duplication from the license screening/audit exam (if independently written)]			<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>																									
6.	Bank use meets limits (no more than 50 percent from the bank, at least 10 percent new, and the rest modified); enter the actual question distribution at right	Bank	Modified	New	<i>[initials]</i>	<i>[initials]</i>																									
		15	25	60																											
7.	Between 50 and 60 percent of the questions on the exam (including 10 new questions) are written at the comprehension/analysis level; enter the actual question distribution at right	Memory	C/A		<i>[initials]</i>	<i>[initials]</i>																									
		45	55																												
8.	References/handouts provided do not give away answers			<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>																									
9.	Question distribution meets previously approved examination outline; deviations are justified			<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>																									
10.	Question psychometric quality and format meet ES, Appendix B, guidelines			<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>																									
11.	The exam contains 100, one-point, multiple choice items; the total is correct and agrees with value on cover sheet			<i>[initials]</i>	<i>[initials]</i>	<i>[initials]</i>																									
<table border="0"> <tr> <td colspan="3"></td> <td>Printed Name / Signature</td> <td>Date</td> </tr> <tr> <td>a. Author</td> <td colspan="3"><u>G.W. Laska</u></td> <td><u>3/23/00</u></td> </tr> <tr> <td>b. Facility Reviewer(*)</td> <td colspan="3"><u>Scott Fulmer</u></td> <td><u>3/23/00</u></td> </tr> <tr> <td>c. NRC Chief Examiner(*)</td> <td colspan="3"><u>Mike Ernest</u></td> <td><u>4/14/00</u></td> </tr> <tr> <td>d. NRC Regional Supervisor(*)</td> <td colspan="3"><u>H. Christensen</u></td> <td><u>4/24/00</u></td> </tr> </table>										Printed Name / Signature	Date	a. Author	<u>G.W. Laska</u>			<u>3/23/00</u>	b. Facility Reviewer(*)	<u>Scott Fulmer</u>			<u>3/23/00</u>	c. NRC Chief Examiner(*)	<u>Mike Ernest</u>			<u>4/14/00</u>	d. NRC Regional Supervisor(*)	<u>H. Christensen</u>			<u>4/24/00</u>
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MarchMarch 29, 2000

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation	
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job-Link	Minutia	#/units	Backward			
RO ONLY QUESTIONS														
1	H	3		x								U	Written as a series of “ands”. Break into two sentences to clarify which is the cause and which is the effect. The answer is the only choice with an explanation: “due to....” [Too much information App. B, C.1.c] <i>Delete this portion of d.</i>	
2	H	2										S		
3	H	3		x		c						E	Use more concise terms for “robbed”; “fell”; and “was rising”. Such as “diverted from”; “decreased” and “increasing” B & D assume charging is going up which cues the answer [Specific Determiner App. B, C.2.m (9)] C is not plausible “Due to the loss of pressurizer heater, charging flow fell?”	
4	H	3										S		
5	F	3							?			S	Need to say normal full power line up to know where D is powered from? Do we need a “1” in front of the buses.	
6	H	2										S		
7	H	3		x								U	The last part of each distractor is not needed and teaches the very concept the KA is testing. [Too much information App. B, C.1.c] - <i>Delete everything after “as.”</i> Need to put in stem that PRT remains intact. Does not meet definition of modified. [ES-401 D.2.f]	
8	F*	2						x				U	Question OK but KA does not match. K6.04 is more appropriate. Does not meet definition of modified. [ES-401 D.2.f]	

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward		
9	F	3				d						E	Need names for MLB 1.... and ESP-1.1 d. Why would resetting the A train effect the B train valves [Implausible Distractor App. B, C.2.m(5)]
10	F	3			x							U	Series of T/F [App. B, C.2.c] <i>Pick one Permissive to test.</i>
11	F	2	c									E	c. How can you do both things "first" [Specific determiner - App B, C.2.m] <i>Could find another distractor by testing <u>how</u> flow is reduced</i>
12	F	2										S	Does an operator need to know this to do his job? #R17 gives answer.
13	F	3					a					?	a was correct on original question why isn't it now?
14	H	3										S	
15	H	3										S	
16	H	3										S	NEW Q 059 K3.02,
17	H	3										S	answers R12 by stating (reminding) that the MDAFW valves are operated from the BOP.
18	H	3										S	Do the FCVs auto open? The notes say they don't
19	F	2										S	
20	H	3										S	
21	F	1										U	Answer seems very obvious
22	H	1				cd						U	cd Stem states that the LOCA is outside containment. [Implausible Distractor App. B, C.2.m(5)] Next question gives answer! What signal is a "High Energy Line Break"?
23	H	4										S	Stem answers #22

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward		
24	F	3					bd		?			U	KA is for Loss of Recirc? [App B, C.1.b] bd correct? Will not 3 accumulators (although not required) accomplish what it says? Is there any operational significance to these levels?
25	F	2										S	
26	F	2				cd ac						U	cd When do we ever do procedure steps in any order? ac Why would SS perform procedures? [Implausible Distractor App. B, C.2.m(5)]
SRO ONLY QUESTIONS													
1	F*	3										S	Reference?
2	H	3	d					x				U	KA asks for low pressure conditions. This is at full pressure? [App B, C.1.b] Not SRO only [ES-401, D.2.d] Need original question for comparison a. confusing why not say 2000psig d. stem says HD2 not in, this says it is?
3	H	3										S	Why are c and d plausible?
4	F	3										S	
5	H	3		x		d						U	The answer is a different topic than the distractors [Specific Determiner App. B, C.2.m (9)] and trivial compared to losing control of containment pressure! d is true, you will reduce flow when the RWST runs out.
6	H	3										S	
7	F	3	?									?	"The term IMMEDIATE has different connotations among the distractors.
8	H	3	?									?	Not convinced the distractors are wrong. Why do we say FIRST double?

[illegible]

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward		
20	F	3	x				b	x				U	KA doesn't match question. KA [App B, C.1.b] b is correct if ISLOCA could be in pen room. What is the purpose of the first paragraph?[Too much information App. B, C.1.c] Use more concise term for "upscale into an alarm..." Not sure why this clause is needed anyway? Need original for comparison. Not SRO only [ES-401, D.2.d]
21	F	3						x				U	This is a rad con question KA 2.1.13 is for vital access control. [App B, C.1.b]
22	F	3						x				U	Question does not match KA 2.1.34 primary and secondary chemistry. [App B, C.1.b]
23	F	1		x								U	Stem says every procedure. bcd refer to specific functions safeguards & EP
24	F*	2					b	x				U	What difference would it make if a guy did not know this? [Operational Validity App. A C.2] b is correct
25	F	2										S	
26	F	2				bd						U	Not plausible distractor to wait in declaring a GE!
"BOTH" QUESTIONS													
1	H	4										S	
2	H*			x								U	Why do we include the explanation of what will close. [Too much information App. B, C.1.c] <i>Delete "...which would..." and make an H question</i> B is a subset of A (C of D)
3	H	3										S	Need original question for comparison.

[illegible]

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward		
24	H*	3					d?					E	"promptly" in all but the answer [Correct option differs App. B, C.2.m (9)] May need some wording work, not sure if "it is accurate.
25	H	3										S	SRO #2 008AA2.06 also is PT-444 failing high.
26	F	2				bd						E	Stem is not changed Does not meet definition of modified. [ES-401 D.2.f] bd not plausible. The difference between 3 and 4 is too close. <i>Use original bank question.</i>
27	H	3					x					U	I think all of the answers are correct. Even if it is a low delta P you get the isolations.
28	H	3										S	
29	H	3		x								U	The stem cues them to "maintain... boron concentration," That is what is being tested. [Too much information App. B, C.1.c] <i>delete all after "and..." in stem.</i>
30	F*	3										S	Stem is mostly Window Dressing. Not sure if it really tests anything on Fuel Handling. Not Comprehension, just need to know Phase A interlocks.
31	H	3										S	Conditions of stem not changed. Does not meet definition of modified. [ES-401 D.2.f]
32	F*	3				cd			x			U	cd not plausible, you don't "align" CS to the RWST, it already is. Don't feel you need to know an 8 hour action from memory. [Operational Validity App. A C.2] Not Comprehension, just memory of procedure step.

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward		
33	H*	3		x		cd						U	c "The reactor should not be tripped automatically???" What is a condition II event and why should an operator on the boards care? [Trivial distractor - App. B C.2.k] The last half of d didn't make sense. Last half of distractors teaches the answer [Too much information App. B, C.1.c] <i>See proposal</i> Stem not changed. Does not meet definition of modified. [ES-401 D.2.f]
34	H	3	b			ad						U	a Stop the only source of power? d Why go to the trouble of defeating an interlock when you can just close in 1G? b "continue with of"??? b does not flow with question which directly asks how to get power back
35	H	2						x				U	This is a only a math problem and does not test KA [App B, C.1.b]
36	F	2										S	
37	H*	3										U	KA asks for reason behind step [App B, C.1.b] c. Why the second half, we did not ask for the reason. [Too much information App. B, C.1.c] d does not make sense why emphasize "NOT trip reactor"
38	H	?										?	What is SLLOF? Don't understand what trips you. Does not meet definition of modified. [ES-401 D.2.f]
39	H*	3		b								U	Changing from B-train to A-train does not modify question. [ES-401 D.2.f] Why did answer change from "could trip" to "will trip" Don't understand explanation for A. table refers to Unit 2, is it the same for Unit 1? It also says that it aligns to A train and that is the one in question. Answer is only one with explanation [Too much information App. B, C.1.c]

[illegible]

[illegible]

Q#	1. LOK (F/H)	2. LOD (1-5)	3. Psychometric Flaws					4. Job Content Flaws				5. U/E/S	6. Explanation
			Stem Focus	Cues	T/F	Cred. Dist.	Partial	Job- Link	Minutia	#/ units	Back- ward		
67	F	2				ac						E	ac not very plausible to have Chemistry approve Ops. valves
68	F*	3										S	Attached reference did not support the question.
69	H*	3				b						E	You have to assume that the pool is at a normal level and there are no leaks. <i>should mention this in stem</i> (b) is not very believable (a) why do list the 480K
70	F*	2										S	WD is confusing.
71	F	2					x					U	All of the answers are correct. Not sure of the value of knowing which one to do first. Reference does not definitively state what is "First". An individual will utilize whatever is under their control.
72	H	4						x				E	#70 also tests annual administrative TEDE limit. This just adds on a lot of GFES math. [App B, C.1.b] Tests too many concepts.
73	H	2										S	Is down wind direction used anywhere?
74	F	1									?	U	Seems very obvious without knowing anything about EOPs. Maintain is the only word with a connotation of continuing action.

Facility: <u>FARLEY</u>		Date of Exam: <u>5/18/00</u>		Exam Level: <u>RO/SRO</u>	
Item Description		Initials			
		a	b	c	
1.	Answer key changes and question deletions justified and documented	NA	N/A	N/A	
2.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	NO	ME	ME	
3.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	NO	ME	ME	
4.	All other failing examinations checked to ensure that grades are justified	NO	ME	ME	
5.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	NO	ME	ME	
Printed Name / Signature		Date			
a. Grader	<u>GARY T. CHRISTENSEN / [Signature]</u>	<u>5-24-00</u>			
b. Facility Reviewer(*)	<u>Gregory W. Laska / [Signature]</u>	<u>5-24-00</u>			
c. NRC Chief Examiner (*)	<u>MIKE EARNSTES / [Signature]</u>	<u>5/25/00</u>			
d. NRC Supervisor (*)	<u>H. Christensen / [Signature]</u>	<u>5/26/00</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

Facility: <u>FARLEY</u>		Date of Exam: <u>5/18/00</u>		Exam Level: <u>RO/SRO</u>	
Item Description		Initials			
		a	b	c	
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2.	Applicants' scores checked for addition errors (reviewers spot check > 25% of examinations)	no	<i>[initials]</i>	ME	
3.	Grading for all borderline cases (80% +/- 2%) reviewed in detail	no	<i>[initials]</i>	ME	
4.	All other failing examinations checked to ensure that grades are justified	no	<i>[initials]</i>	ME	
5.	Performance on missed questions checked for training deficiencies and wording problems; evaluate validity of questions missed by half or more of the applicants	no	<i>[initials]</i>	ME	
Printed Name / Signature		Date			
a. Grader	<u>GARY T. OHMSTEDT</u> <i>[signature]</i>	<u>5-24-00</u>			
b. Facility Reviewer(*)	<u>GERARD W. LASCA</u> <i>[signature]</i>	<u>5-24-00</u>			
c. NRC Chief Examiner (*)	<u>MIKE ERNSTES</u> <i>[signature]</i>	<u>5/25/00</u>			
d. NRC Supervisor (*)	<i>[signature]</i> <u>A. CHELSTON</u>	<u>5/26/00</u>			
(*) The facility reviewer's signature is not applicable for examinations graded by the NRC; two independent NRC reviews are required.					

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Task Description	Date Complete
1. Facility written exam comments or graded exams received and verified complete	5/25/00
2. Facility written exam comments reviewed and incorporated and NRC grading completed, if necessary	5/25/00
3. Operating tests graded by NRC examiners	5/30/00
4. NRC Chief examiner review of written exam and operating test grading completed	5/30/00
5. Responsible supervisor review completed	5/31/00
6. Management (licensing official) review completed	5/31/00
7. License and denial letters mailed	5/31/00
8. Facility notified of results	5/31/00
9. Examination report issued (refer to NRC MC 0610)	5/31/00
10. Reference material returned after final resolution of any appeals	N/A