

2009 PERRY NUCLEAR POWER PLANT

INITIAL EXAMINATION

PROPOSED EXAM FILES

Mark B. Bezilla
Vice President440-280-5382
Fax: 440-280-8029November 14, 2008
L-08-330

10 CFR 55

ATTN: Mr. Raymond K. Walton, Chief Examiner
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352**SUBJECT:**Perry Nuclear Power Plant
Docket No. 50-440, License No. NPF-58
NRC Initial License Examination Submittal

In accordance with NUREG-1021, ES-201, "Initial Operator Licensing Examination Process," enclosed are the proposed examinations, supporting documentation, and reference materials for the NRC initial license examination scheduled to be administered at the Perry Plant starting January 12, 2009. The examination materials were developed in accordance with the guidelines specified in NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9, Supplement 1.

NUREG-1021 Forms ES-201-3, ES-301-3, ES-301-4, ES-301-5, ES-301-6, ES-401-6, ES-D-1 and ES-D-2 are enclosed with the supporting documentation.

Form ES-301-6 has been completed based on the projected class size and license types. The size and makeup of the class may change prior to the examination date.

The NRC initial license examination outlines were previously submitted via letter L-08-0275 dated September 8, 2008.

The Operating Test outlines for the applicants Audit Exam have also been included in this submittal as requested. The Written Test outline for the applicants Audit Exam is also included as requested.

It is requested that the enclosed examination materials be withheld from public disclosure until after the initial license examinations are completed.

NOV 19 2008

There are no regulatory commitments contained in this letter. If there are questions or if additional information is required, please contact Mr. Daniel K. Zielinski at (440) 280 - 5277.



Daniel K. Zielinski
Nuclear Qualification Instructor



David W. O'Donnell
Facility Representative

Sincerely,



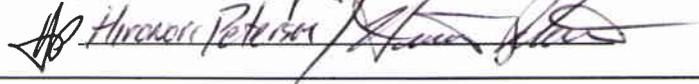
Mark Bezilla

Enclosures:

- A Operator License Examination
- B Supporting Documentation
- C Reference Material
- D Audit Examination Outline
- E Job Performance Measures Examination
- F Form ES-201-3, Examination Security Agreement
- G Form ES-301-3, Operating Test Quality Checklist
- H Form ES-301-4, Simulator Scenario Quality Checklist
- I Form ES-301-5, Transient and Event Checklist
- J Form ES-301-6, Competencies Checklist
- K Form ES-401-6, Written Examination Quality Checklist
- L Form ES-D-1, Scenario Outline
- M Form ES-D-2, Required Operator Actions

cc: NRC Document Control Desk w/o Enclosures
NRC Project Manager w/o Enclosures
NRC Region III Branch Chief w/o Enclosures
NRC Resident Inspector w/o Enclosures

Facility: **Perry** Date of Examination: **January 2009** Operating Test Number: **2009-01**

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).	DZ	AP	RKW
b. There is no day-to-day repetition between this and other operating tests to be administered during this examination.	DZ	AP	RKW
c. The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	OZ	AP	RKW
d. Overlap with the written examination and between different parts of the operating test is within acceptable limits.	OZ	AP	RKW
e. It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	OZ	AP	RKW
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 	DZ	AP	RKW
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.	OZ	AP	RKW
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.	OZ	AP	RKW
Printed Name / Signature		Date	
a. Author	<u>DK ZIELINSKI</u> 	<u>11-7-2008</u>	
b. Facility Reviewer(*)	<u>D.W. O'Donnell</u> 	<u>11-13-08</u>	
c. NRC Chief Examiner (#)	<u>RK Walton / Kapel / Rick Walton</u>	<u>12/9/2008</u>	
d. NRC Supervisor		<u>1/7/09</u>	
NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.			

Facility: Perry		Date of Exam: Jan. 2009	Scenario Numbers: 1/2/3/4/5	Operating Test No.: 2009-01	
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.	02	00	RKW	
2.	The scenarios consist mostly of related events.	02	00	RKW	
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) 	02	00	RKW	
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.	02	00	RKW	
5.	The events are valid with regard to physics and thermodynamics.	02	00	RKW	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	02	00	RKW	
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.	02	00	RKW	
8.	The simulator modeling is not altered.	02	00	RKW	
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.	02	00	RKW	
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.	02	00	RKW	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	02	00	RKW	
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).	02	00	RKW	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	02	00	RKW	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes			
1.	Total malfunctions (5-8)	6 / 7 / 7 / 6 / 5	02	00	RKW
2.	Malfunctions after EOP entry (1-2)	3 / 3 / 3 / 2 / 2	02	00	RKW
3.	Abnormal events (2-4)	2 / 2 / 2 / 2 / 4	02	00	RKW
4.	Major transients (1-2)	2 / 2 / 2 / 1 / 1	02	00	RKW
5.	EOPs entered/requiring substantive actions (1-2)	3 / 2 / 2 / 2 / 2	02	00	RKW
6.	EOP contingencies requiring substantive actions (0-2)	1 / 1 / 1 / 2 / 1	02	00	RKW
7.	Critical tasks (2-3)	3 / 4 / 5 / 6 / 4	02	00	RKW

Facility: Perry		Date of Examination: Jan. 2009					Operating Test No.: 2009-01								
Competencies	APPLICANTS														
	RO					SRO-I					SRO-U				
	SCENARIO					SCENARIO					SCENARIO				
	1	2	3	4	5	1	2	3	4	5	1	2	3	4	5
Interpret/Diagnose Events and Conditions	3,4	2,3	3,5	3,4	3,4	3,4	1,3	3,5	3,4	3,4	3,4	3,5	3,5	3,4	3,4
Comply With and Use Procedures (1)	1,3	1	3,4	3,4	4	3,4	3	3,4	3,4	4	3,4	3	3,4	3,4	4
Operate Control Boards (2)	3,4	1,3	1,2	1,2	1,2	3,4	1,3	1,2	1,2	1,2					
Communicate and Interact	5	4	6	4	4	5	3,4	6	4	4	5	3,4	6	4	4
Demonstrate Supervisory Ability (3)						6	5	7	4,5	4,5	6	5	7	4,5	4,5
Comply With and Use Tech. Specs. (3)						3,4	1,3	3,4	3,4	4	3,4	1,3	3,4	3,4	4
Notes:															
(1) Includes Technical Specification compliance for an RO.															
(2) Optional for an SRO-U.															
(3) Only applicable to SROs.															

Instructions:

Check the applicants' license type and enter one or more event numbers that will allow the examiners to evaluate every applicable competency for every applicant.

Facility: Perry		Date of Exam: January 2009		Exam Level: RO <input checked="" type="checkbox"/> SRO <input type="checkbox"/>		
Item Description	Initial			a	b*	c#
	Bank	Modified	New			
1. Questions and answers are technically accurate and applicable to the facility.				02	00	RKW
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.				02	00	RKW
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401				NA 02	WA 00	RKW
4. The sampling process was random and systematic (If more than 4 RO or 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL program office).						RKW
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: ___ the audit exam was systematically and randomly developed; or ___ the audit exam was completed before the license exam was started; or _x_ the examinations were developed independently; or _x_ the licensee certifies that there is no duplication; or ___ other (explain)				02	00	RKW
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	Modified	New			
	25 / 33%	12 / 16%	38 / 51%	02	00	RKW
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	C/A				
	32 / 43%	43 / 57%		02	00	RKW
8. References/handouts provided do not give away answers or aid in the elimination of distractors.				02	00	RKW
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.				02	00	RKW
10. Question psychometric quality and format meet the guidelines in ES Appendix B.				02	00	RKW
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.				02	00	RKW
a. Author	Printed Name / Signature			Date		
	DK Zielinski / DK Zielinski			11-7-2008		
b. Facility Reviewer (*)	D.W. O'Donnell / [Signature]			11-10-08		
c. NRC Chief Examiner (#)	RK Walton / Rachel Kirk Walton			12/5/2008		
d. NRC Regional Supervisor	[Signature]			1/7/09		
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.					

Facility: Perry		Date of Exam: January 2009		Exam Level: RO <input type="checkbox"/> SRO <input checked="" type="checkbox"/>														
Item Description	Initial																	
	a	b*	c#															
1. Questions and answers are technically accurate and applicable to the facility.	02	00	RW															
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	02	00	RW															
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	02	00	RW															
4. The sampling process was random and systematic (If more than 4 RO or 2 SRO questions were repeated from the last 2 NRC licensing exams, consult the NRR OL program office).			RW															
5. Question duplication from the license screening/audit exam was controlled as indicated below (check the item that applies) and appears appropriate: ___ the audit exam was systematically and randomly developed; or ___ the audit exam was completed before the license exam was started; or _X_ the examinations were developed independently; or ___ the licensee certifies that there is no duplication; or ___ other (explain)	02	00	RW															
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	Modified	New															
	9 / 36%	2 / 8%	14 / 56%															
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	C/A																
	7 / 28%	18 / 72%																
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	02	00	RW															
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.	02	00	RW															
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	02	00	RW															
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.	02	00	RW															
<table style="width:100%; border-collapse: collapse;"> <tr> <td style="width:30%;"></td> <td style="text-align: center;">Printed Name / Signature</td> <td style="text-align: right;">Date</td> </tr> <tr> <td>a. Author</td> <td style="text-align: center;"><u>Dr. Zielinski / Dr Zielinski</u></td> <td style="text-align: right;"><u>11-7-2008</u></td> </tr> <tr> <td>b. Facility Reviewer (*)</td> <td style="text-align: center;"><u>D.W. O'Donnell / [Signature]</u></td> <td style="text-align: right;"><u>11-10-08</u></td> </tr> <tr> <td>c. NRC Chief Examiner (#)</td> <td style="text-align: center;"><u>RK Walton / Royal Keith Walton</u></td> <td style="text-align: right;"><u>12/5/2008</u></td> </tr> <tr> <td>d. NRC Regional Supervisor</td> <td style="text-align: center;"><u>[Signature]</u></td> <td style="text-align: right;"><u>1/7/09</u></td> </tr> </table>					Printed Name / Signature	Date	a. Author	<u>Dr. Zielinski / Dr Zielinski</u>	<u>11-7-2008</u>	b. Facility Reviewer (*)	<u>D.W. O'Donnell / [Signature]</u>	<u>11-10-08</u>	c. NRC Chief Examiner (#)	<u>RK Walton / Royal Keith Walton</u>	<u>12/5/2008</u>	d. NRC Regional Supervisor	<u>[Signature]</u>	<u>1/7/09</u>
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