

**2010 PERRY NUCLEAR POWER PLANT**

**INITIAL EXAMINATION**

**OUTLINE SUBMITTAL**

February 26, 2010

Mr. Dell McNeil  
USNRC Chief Examiner  
United States Nuclear Regulatory Commission  
Suite 210  
2443 Warrenville Road  
Lisle, Illinois 60532-4351

Perry Nuclear Power Plant  
Docket No. 50-440  
NRC Initial License Examination Outline Submittal

Dear Mr. McNeil:

Enclosed for your review and approval are the outlines for the Perry Initial Licensed Operator Examination scheduled to begin June 14, 2010. These outlines are submitted in accordance with NUREG 1021, Operator Licensing Examination Standards for Power Reactors (Revision 9, Supplement 1).

The following materials are enclosed:

- Form ES-201-2, Examination Outline Quality Checklist - (Signed)
- Form ES-201-3, Examination Security Agreement (Copy)
- Form ES-301-1, Administrative Topics Outline RO - Rev. 0
- Form ES-301-1, Administrative Topics Outline SRO - Rev. 0
- Form ES-301-2, Control Room/In-Plant Systems Outline RO - Rev. 0
- Form ES-301-2, Control Room/In-Plant Systems Outline SRO-I - Rev. 0
- Form ES 301 2, Control Room/In Plant Systems Outline SRO-U - Rev. 0
- Form ES-301-4, Simulator Scenario Quality Checklist - Rev. 0 (Unsigned)
- Form ES-301-5, Transient and Event Checklist - Rev. 0 (4 pages)
- Form ES-301-6, Competencies Checklist - Rev. 0
- Form ES-401-4, Record of Rejected K/As - Rev. 0
- Form ES-D-1, Scenario Outlines and Narrative Summary - Rev. 0 (5 New, 1 Bank)

**RO and SRO Written Outlines**

- Form ES-401-1, BWR Examination Outline - Rev. 0
- Form ES-401-3, Generic Knowledge and Abilities Outline Tier 3 - Rev. 0

The unsigned Form ES-301-4, Simulator Scenario Quality Checklist, is being sent to support Form ES-201-2, Examination Outline Quality Checklist. A signed version of this form will be sent with the exam materials.

The Written Exam Outline was compiled using the Random Selection Process described in ES-401, Attachment 1, Example Systematic Sampling Methodology and the K/A Elimination Guidance provided in ES-401. Rejected K/As were documented on Form ES-401-4, Record of Rejected K/As.

The expected additions to the Exam Security Agreement are additional Operation's Validation Team members.

We request these materials be withheld from public disclosure until after the completion of the exam. If you have any questions, please feel free to contact me at 440-280-4017, or Ray Torres at 440-280-5277.

Sincerely,

A handwritten signature in blue ink, appearing to read "David O' Donnell", with a stylized, looping flourish at the end.

David O' Donnell  
Nuclear Shift Manager - Facility Representative

A handwritten signature in blue ink, appearing to read "Ray Torres", with a stylized, flowing flourish at the end.

Raymond Torres  
Staff Nuclear Specialist – Author

Subject: Perry Training Memo – 10 - 0001

Facility: <b>Perry</b>		Date of Examination: <b>6/14/2010</b>		
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.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	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.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	<i>mm</i>	<i>mm</i>	<i>mm</i>
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.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	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.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	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.	<i>mm</i>	<i>mm</i>	<i>mm</i>
3. W / T	a. Verify that the systems walk-through outline meets the criteria specified on 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.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	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	<i>mm</i>	<i>mm</i>	<i>mm</i>
	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.	<i>mm</i>	<i>mm</i>	<i>mm</i>
4. G E N E R I C	a. Assess whether plant-specific priorities (including PRA and IPE insights) are covered in the appropriate exam sections.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	d. Check for duplication and overlap among exam sections.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	e. Check the entire exam for balance of coverage.	<i>mm</i>	<i>mm</i>	<i>mm</i>
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	<i>mm</i>	<i>mm</i>	<i>mm</i>
Printed Name/Signature a. Author <u>Raymond J. Torres</u> b. Facility Reviewer (*) <u>David W. O'Donnell</u> c. NRC Chief Examiner (#) <u>Debra R. McNeil</u> d. NRC Supervisor <u>Michael Bielby / Y. Michael Bielby for H. Poterius</u>		Date a. Author <u>2-26-10</u> b. Facility Reviewer (*) <u>2-26-10</u> c. NRC Chief Examiner (#) <u>03/03/2010</u> d. NRC Supervisor <u>03/26/2010</u>		
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines				