

2009 POINT BEACH NUCLEAR PLANT

INITIAL EXAMINATION

PROPOSED EXAM FILES



FPL Energy

Point Beach Nuclear Plant

FPL Energy Point Beach, LLC, 6610 Nuclear Road, Two Rivers, WI 54241

March 18, 2009

NRC 2009-0022

Mr. Hironori Peterson, Chief
Operations Branch
U. S. Nuclear Regulatory Commission
2443 Warrenville Road, Suite 210
Lisle, IL 60532-4352

Point Beach Nuclear Plant, Units 1 and 2
Dockets 50-266 and 50-301
Renewed License Nos. DPR-24 and DPR-27

Initial Operator License Examination

Reference: NRC to FPL Energy Point Beach, LLC, Letter dated January 20, 2009

In accordance with the requirements listed in the referenced letter, FPL Energy Point Beach, LLC is submitting the initial license examination for the Point Beach Nuclear Plant. This submittal is made in accordance with the provisions of NUREG-1021, "Operator Licensing Examination Standards for Power Reactors," Revision 9. The initial license examination is scheduled for May 11-16, 2009. The following materials are enclosed:

- Three (3) modified Forms ES-301-2, Control Room/In-Plant Systems Outline (RO, SRO-I and SRO-U)
- Two (2) modified Forms ES-301-5, Transient and Event Checklist (one for each crew)
- Three (3) modified Forms ES-D-1, Scenario Outline (one for each projected scenario)
- One (1) Form ES 301-3, Operating Exam Quality Checklist
- Two (2) Forms ES-301-4, Simulator Scenario Quality Checklist
- Two (2) Forms ES-301-6, Competencies Checklist
- Eleven (11) Operational Job Performance Measures (JPMs)
- Seven (7) Administrative JPMs
- Four (4) QF-1075 Forms, Simulator Evaluation Guides, equivalent to Form ES-D-2 Required Operator Actions (one for each scenario)

An FPL Group company

MAR 19 2009

ENCLOSURE TO BE WITHHELD FROM PUBLIC DISCLOSURE UNTIL EXAMINATIONS ARE COMPLETE

- One (1) ES 401-6, Written Exam Quality Checklist
- Seventy Five (75) Forms ES-401-5, Written Examination Question Worksheets (RO); one (1) RO Written Exam (ready to give with handouts), and one (1) RO Written Exam Key with supporting procedures
- Twenty Five (25) Forms ES-401-5, Written Examination Question Worksheets (SRO); one (1) SRO Written Exam (ready to give with handouts), and one (1) SRO Written Exam Key with supporting procedures
- Audit Exam materials for comparison including three (3) Scenario Outlines and five (5) JPM outlines.

Pursuant to the provisions of NUREG-1021, Revision 9, these materials shall be withheld from public disclosure until after the examinations are complete.

Please contact Mr. Randall Amundson at 920/755-6860 if you have questions regarding this submittal.

Very truly yours,

FPL Energy Point Beach, LLC



Larry Meyer
Site Vice President

Enclosure

ENCLOSURE

**FPL ENERGY POINT BEACH, LLC
POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2**

INITIAL OPERATOR LICENSE EXAMINATION

Facility: Point Beach Nuclear Plant				Date of Examination: Week of May 11 th 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).							OK	T	MCS	
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.							OK	T	MCS	
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)							OK	T	MCS	
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.							OK	T	MCS	
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.							OK	T	MCS	
2. Walk-Through Criteria								--	--	--	
a.	<p>Each JPM includes the following, as applicable:</p> <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 							OK	T	MCS	
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.							OK	T	MCS	
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.								OK	T	MCS	
		Printed Name / Signature						Date			
a.	Author	Andrew Zommers					3/10/09				
b.	Facility Reviewer(*)	Tom Larson					3/15/09				
c.	NRC Chief Examiner (#)	Michael Bielby					4/10/09				
d.	NRC Supervisor	Hironori Peterson					5/5/09				
<p>NOTE: * The facility signature is not applicable for NRC-developed tests. # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.</p>											

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

Facility: PBNP		Date of Exam: week of May 11 th		Scenario Numbers: 4 / /		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.						
2.	The scenarios consist mostly of related events.						
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) 						
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.						
5.	The events are valid with regard to physics and thermodynamics.						
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.						
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.						
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.						
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.						
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).						
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).						
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.						
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes		--	--	--	--
1.	Total malfunctions (5-8)	6 / /					
2.	Malfunctions after EOP entry (1-2)	2 / /					
3.	Abnormal events (2-4)	3 / /					
4.	Major transients (1-2)	1 / /					
5.	EOPs entered/requiring substantive actions (1-2)	1 / /					
6.	EOP contingencies requiring substantive actions (0-2)	1 / /					
7.	Critical tasks (2-3)	2 / /					

Facility: PBNP Date of Examination: Week of May 11 th 2009 Operating Test No.:2009-01																
Competencies	Crew A APPLICANTS															
	RO <input type="checkbox"/> SRO-I <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input checked="" type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>				RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>			
	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	1,3	3		6	3	3		2,6	4	4,5,6					
Comply With and Use Procedures (1)	all	4,5	3,4		5	1,4,5	1,3,4		2,6	4,5	2,5,6					
Operate Control Boards (2)		1,4,5			4,5		1,3,4		2,5,6	5,6,7	1,5,6					
Communicate and Interact	all	1,3,4	all		2,4,5	all	3,4		2,4,5	4,5	1,4					
Demonstrate Supervisory Ability (3)	1,4,5		3,4			1,3,4										
Comply With and Use Tech. Specs. (3)	1,3		2,3			2,3										
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: PBNP Date of Examination: Week of May 11 th 2009 Operating Test No.:2009-01																
Competencies	Crew B APPLICANTS															
	RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input checked="" type="checkbox"/>	RO <input type="checkbox"/> SRO-I <input checked="" type="checkbox"/> SRO-U <input type="checkbox"/>	RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>	RO <input type="checkbox"/> SRO-I <input type="checkbox"/> SRO-U <input type="checkbox"/>												
	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	2,6	3			1,2	1,3										
Comply With and Use Procedures (1)	2,6	1,4,5			all	4,5										
Operate Control Boards (2)	2,5,6					1,4,5										
Communicate and Interact	2,4,5	all			all	1,3,4										
Demonstrate Supervisory Ability (3)		1,3,4			1,4,5											
Comply With and Use Tech. Specs. (3)		2,3			1,3											
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: Point Beach Nuclear Plant		Date of Exam: Week of May 11 th 2009		Exam Level: RO X	SRO X	
Item Description	Initial					
	a	b*	c#			
1. Questions and answers are technically accurate and applicable to the facility.		T	new			
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.		T	new			
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401		T	new			
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).		T	new			
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; or <input type="checkbox"/> the audit exam was completed before the license exam was started; or <input type="checkbox"/> the examinations were developed independently; or <input checked="" type="checkbox"/> the licensee certifies that there is no duplication; or <input type="checkbox"/> other (explain)		T	MSB			
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 42/12 MCS 47/13	Modified 2/2	New 31/11 MCS 26/10		T	new
	Memory 35/9 MCS 34/10	C/A 40/16 MCS 41/15			T	new
8. References/handouts provided do not give away answers or aid in the elimination of distractors.		T	new			
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.		T	new			
10. Question psychometric quality and format meet the guidelines in ES Appendix B.		T	new			
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.		T	new			
a. Author	Printed Name / Signature			Date		
b. Facility Reviewer (*)	Andrew Zimmers			3/15/09		
c. NRC Chief Examiner (#)	Tom Larson			3/15/09		
d. NRC Regional Supervisor				3/26/09		
				5/5/09		
				7/24/09		
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.					