

Facility: Prairie Island Nuclear Generating Plant				Date of Examination: 05/14-22/12		Operating Test Number: 2012301	
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).	MEB	RAS	DM			
b.	There is no day-to-day repetition between this and other operating tests to be administered during this examination.	MEB	RAS	DM			
c.	The operating test shall not duplicate items from the applicants' audit test(s). (see Section D.1.a.)	JZ	RAS	DM			
d.	Overlap with the written examination and between different parts of the operating test is within acceptable limits.	MEB	RAS	DM			
e.	It appears that the operating test will differentiate between competent and less-than-competent applicants at the designated license level.	MEB	RAS	DM			
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 	MEB	RAS	DM			
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.	MEB	RAS	DM			
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.			MEB	RAS	DM		
Printed Name / Signature	<u>D. Reeser</u>	Date	5/8/12				
a. Author	<u>M. Bielby</u>		4/10/2012				
b. NRC Reviewer	<u>R. Baker</u>		5-8-12/5/8/12				
c. NRC Chief Examiner (#)	<u>D. McNeil</u>		4/10/2012				
d. NRC Supervisor	<u>C. Phillips</u>		5/8/2012				
NOTE: *			The facility signature is not applicable for NRC-developed tests.				
#			Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required.				

Facility: PINGP U1/U2 Date of Exam: 05/14-22/2012 Scenario Numbers: 1 / 2 / 3 / s Operating Test No.: 2012301

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.	MSB	RAB	JM	
2.	The scenarios consist mostly of related events.	MSB	RAB	JM	
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) 	MSB	RAB	JM	
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.	MSB	RAB	JM	
5.	The events are valid with regard to physics and thermodynamics.	MSB	RAB	JM	
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	MSB	RAB	JM	
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.	N/A	N/A	N/A	
8.	The simulator modeling is not altered.	MSB	RAB	JM	
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.	JM	RAB	JM	
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.	MSB	RAB	JM	
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	MSB	RAB	JM	
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).	MSB	RAB	JM	
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	MSB	RAB	JM	
Target Quantitative Attributes (Per Scenario; See Section D.5.d)		Actual Attributes			
1.	Total malfunctions (5-8)	5/7/7/4	MSB	RAB	JM
2.	Malfunctions after EOP entry (1-2)	1/3/2/2	MSB	RAB	JM
3.	Abnormal events (2-4)	3/2/3/1	MSB	RAB	JM
4.	Major transients (1-2)	1/1/1/1	MSB	RAB	JM
5.	EOPs entered/requiring substantive actions (1-2)	1/2/1/1	MSB	RAB	JM
6.	EOP contingencies requiring substantive actions (0-2)	1/2/1/1	MSB	RAB	JM
7.	Critical tasks (2-3)	2/6/2/3	MSB	RAB	JM

Facility: Prairie Island Nuclear Generating Plant		Date of Exam: May 14, 2012		Exam Level: RO <input checked="" 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.	MEB	NO	SM			
2. a. NRC K/As are referenced for all questions. b. Facility learning objectives are referenced as available.	MEB	NO	SM			
3. SRO questions are appropriate in accordance with Section D.2.d of ES-401	MEB	NO	SM			
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).			SM			
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 checked="" 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)	MEB	NO	SM			
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	MEB	NO	SM
	17 / 2	4 / 2	54 / 21			
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		MEB	NO	SM
	29 / 3	45 / 22				
8. References/handouts provided do not give away answers or aid in the elimination of distractors.	MEB	NO	SM			
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.	MEB	NO	SM			
10. Question psychometric quality and format meet the guidelines in ES Appendix B.	MEB	NO	SM			
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.	MEB	NO	SM			
a. Author <u>M. Bielby / M. Bielby</u> b. NRC Reviewer (*) <u>R. Baker / R. Baker</u> c. NRC Chief Examiner (#) <u>D. McNeil / D. McNeil</u> d. NRC Regional Supervisor <u>C. Phillips / C. Phillips</u>				Printed Name / Signature Date 04/10/2012 5-8-2012 04/11/2012 5/8/2012 4/11/12		

Facility: <u>PINGP Units 1 and 2</u>		Date of Examination: <u>May 14 - 25, 2012</u>		
Item	Task Description	Initials		
		a	b*	c#
1. W R I T E N	a. Verify that the outline(s) fit(s) the appropriate model, in accordance with ES-401.	MCS	DM	DM
	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.	MCS	DM	DM
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	MCS	DM	DM
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	MCS	DM	DM
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.	MCS	DM	DM
	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.	MCS	DM	DM
	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.	MCS	DM	DM
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.	MCS	DM	DM
	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	MCS	DM	DM
	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.	MCS	DM	DM
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.	MCS	DM	DM
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	MCS	DM	DM
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	MCS	DM	DM
	d. Check for duplication and overlap among exam sections.	MCS	DM	DM
	e. Check the entire exam for balance of coverage.	MCS	DM	DM
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	MCS	DM	DM
a. Author: <u>M. Bielby/R. Baker/D. Oliver / <i>Michael E. Bullock</i></u> b. Facility Reviewer (*): <u>Ronald D. Baker / <i>R.D. Baker</i> / David J. Oliver / <i>David J. Oliver</i></u> c. NRC Chief Examiner (#): <u>Deil McNeil / <i>Deil McNeil</i></u> d. NRC Supervisor: <u>Raymond Keith Walton / <i>Raymond Keith Walton</i> (for H Peterson)</u>		Date: <u>9/13/11</u> <u>9/13/11</u> <u>9/13/11</u> <u>9/13/2011</u>		
Note: # Independent NRC reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines				