

Facility: Clinton		Date of Examination: 3/16/15		
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.	✓	✓	BP
	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.	✓	✓	BP
	c. Assess whether the outline over-emphasizes any systems, evolutions, or generic topics.	✓	✓	BP
	d. Assess whether the justifications for deselected or rejected K/A statements are appropriate.	✓	✓	BP
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.	✓	✓	BP
	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 scenarios will not be repeated on subsequent days.	✓	✓	BP
	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.	✓	✓	BP
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	✓	✓	BP
	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	✓	✓	BP
	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.	✓	✓	BP
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 section.	✓	✓	BP
	b. Assess whether the 10 CFR 55.41/43 and 55.45 sampling is appropriate.	✓	✓	BP
	c. Ensure that K/A importance ratings (except for plant-specific priorities) are at least 2.5.	✓	✓	BP
	d. Check for duplication and overlap among exam sections.	✓	✓	BP
	e. Check the entire exam for balance of coverage.	✓	✓	BP
	f. Assess whether the exam fits the appropriate job level (RO or SRO).	✓	✓	BP
a. Author	T. Jennings	Date		11/26/14
b. Facility Reviewer (*)	Craig Probst			12/11/14
c. NRC Chief Examiner (#)	Bruce Palagi / Bruce Palagi			12/24/14
d. NRC Supervisor	Michael Bielby / Michael Bielby			12/30/14
NOTE: # Independent NRC Reviewer initial items in Column "c"; chief examiner concurrence required. * Not applicable for NRC-prepared examination outlines.				

Note 1: The IR for RO Q32 (T262) is 2.3; KA was retained due to a site-specific priority documented in the question prod. ques table as permitted by ES-401 D.1.b.

Facility: Clinton		Date of Exam: 3/16/15		Scenario Numbers: 01 / 02 / 03		Operating Test Number: 2015-301		
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.	✓	✓	BP				
2.	The scenarios consist mostly of related events.	✓	✓	BP				
3.	Each event description consists of <ul style="list-style-type: none"> <li>the point in the scenario when it is to be initiated</li> <li>the malfunction(s) that are entered to initiate the event</li> <li>the symptoms/cues that will be visible to the crew</li> <li>the expected operator actions (by shift position)</li> <li>the event termination point (if applicable)</li> </ul>	✓	✓	BP				
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.	✓	✓	BP				
5.	The events are valid with regard to physics and thermodynamics.	✓	✓	BP				
6.	Sequencing and timing of events is reasonable, and allows the examination team to obtain complete evaluation results commensurate with the scenario objectives.	✓	✓	BP				
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.	NA	NA	NA				
8.	The simulator modeling is not altered.	✓	✓	BP				
9.	The scenarios have been validated. Pursuant to 10CFR55.46(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.	✓	✓	BP				
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.	✓	✓	BP				
11.	All individual operator competencies can be evaluated, as verified using Form ES-301-6 (submit the form along with the simulator scenarios).	✓	✓	BP				
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).	✓	✓	BP				
13.	The level of difficulty is appropriate to support licensing decisions for each crew position.	✓	✓	BP				
<b>Target Quantitative Attributes (Per Scenario; See Section D.5.d)</b>		<b>Actual Attributes</b>		--	--	--		
1.	Total malfunctions (5-8)	5	5	6	✓	✓	BP	
2.	Malfunctions after EOP entry (1-2)	1	1	1	✓	✓	BP	
3.	Abnormal events (2-4)	3	4	4	✓	✓	BP	
4.	Major transients (1-2)	1	1	1	✓	✓	BP	
5.	EOPs entered/requiring substantive actions (1-2)	2	2	2	✓	✓	BP	
6.	EOP contingencies requiring substantive actions (0-2)	1	1	1	✓	✓	BP	
7.	Critical tasks (2-3)	2	2	2	✓	✓	BP	