DRAFT OUTLINE COMMENTS

Facility: SONGS First Exam Date: 31 Oct 2011

Written Exam Outline (8/9/2011)		
	Comment	**Resolution**
1	No rejected KAs?	Resubmitted ES-401-4 with rejected K/A's identified.
2	ES-201-2, Exam Outline Quality Checklist, is missing initials for the Author and Facility Reviewer on Item 1.d (Assess whether the justifications for deselected or rejected K/A statements are appropriate.	Resubmitted ES-201-2 with all initials.

Administrative JPM Outline (8/9/2011)		
	Comment	**Resolution**
1	RA4 – What is the LOD on this? Will it be discriminatory for a licensing decision? Do only ROs perform these tasks?	This is a task normally assigned to an on-shift RO after SM initiates the Emergency Plan. Will evaluate LOD following submission of draft op test and, if necessary, during validation week.

Control Room / In-Plant System JPM Outline (8/9/2011)		
	Comment	**Resolution**
1	S-4: This should include a "P" Type Code since it appears it was on the 2009 NRC exam.	The JPM has been modified. The JxxxFS designator on both the 2009 version and the 2011 version is the SONGS numbering nomenclature. The 2011 will have a different nomenclature when it is added to the JPM bank, but that will not happen until after the exam for security reasons.
2	If S-4 is a "P," was it randomly selected?	N/A

Simulator Scenario Outline Comments (8/9/2011)		
	Comment	**Resolution**
1	Scenario 1: aren't the second and third Critical Tasks essentially the same?	The second critical task is recognizing the need and taking the action to trip the reactor due to two dropped CEAs. When the operator attempts the manual trip he/she should recognize that a reactor trip is required and should attempt to trip the reactor using the manual trip pushbuttons. If the operator fails to identify the requirement for a reactor trip, there would be a significant negative affect by continuing to remain at power with two dropped CEAs. The third critical task of securing power to the CEAs upstream of the reactor trip circuit breakers is distinct from the second CT as it would be accomplished once the SPTA's were entered after a reactor trip. Will add clarifying information in parentheses following each of the Critical Tasks.
2	Scenario 2: second critical task – will feedwater be restored prior to exiting SPTAs?	Yes. AFW Pump P-140 is a turbine driven AFW pump which fails to auto start on the EFAS signal but can (and should) be started by a board operator during SPTAs.
3	All – Target Quantitative Attributes, EOPs entered. Per Appendix D of NUREG 1021, page 10, the primary scram response procedure that serves as the entry point for the EOPs (SPTA) is not counted.	The reason 2 EOIs were listed is that in scenarios 1-6 there are substantive actions taken from SO23-12-11, EOI Supporting Attachments. 12-11 was considered the second EOI on the Target Quantitative Attributes. Scenario 6 Target Quantitative Attributes will be changed to reflect 2 EOPs entered.
4	Scenario 2 – consider failing P-140 after transition to SBO procedure.	The entry into the Functional Recovery procedure is due to the fact that emergency boration is required but not achievable due to the loss of both 1E 4kV buses. This is an entry condition to the functional. The station blackout concurrent with the loss of feedwater would require entry into the functional, however AFW Pump P-140 will be started before transitioning to the optimal EOI.
5	Scenario 4: Explain event 7. Reference?	On a unit trip, Non-1E 4kV buses auto transfer from the unit aux transformers to the reserve aux transformers. Event 7 is a failure of one of the Non-1E 4kV buses to auto transfer which results in the bus being deenergized. SO23-12-1, SPTAs, step 4c RNO says to reenergize the bus as time and resources permit. After event diagnosis and

		transition to the optimal EOI, a board operator is directed to complete the follow-up actions of SPTAs which directs reenergizing the Non-1E 4kV bus (step 13c of SPTAs). This is when the operator would take action to manually transfer the bus to the reserve aux transformer.
6	Scenario 5: 1st Critical Task – What is the basis for manual reactor trip within 1 minute of entry into SPTAs?	This comes from our Crew Critical Task Summary. SO23-12-1, SPTAs, is entered upon a reactor trip OR an RPS trip setpoint being exceeded without the occurrence of a reactor trip. Step 1 RNO action is to manually trip the reactor and our critical task list criteria states that it shall be done within one minute. Revisit after revision of Scenario 5.
7	Scenario 6: 3 abnormal events? (3, 5, 6)	The Target Quantitative Attributes will be updated to reflect 3 abnormal events.
8	Scenario 6: Event 8 – what are required operator actions? (not described in Summary)	Train B 1E 480V bus supplies support system power for the Train B EDG. Per step 4.b RNO action in SPTAs, the Train B EDG must be placed in Maintenance Lockout.
9	Need 2 of the 6 scenarios to require entry into the Functional Recovery procedure.	Proposal is to modify scenario 5 to replace the RCP sheared shaft with an inadvertent turbine trip, delete event 6 (auto turbine trip failure), and add an ESDE on S/G E-089 inside containment which would require entry into the Functional Recovery procedure.
10	ES-201-2, Exam Outline Quality Checklist, is missing initials for the Author and Facility Reviewer on Item 2.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).	Not sure if it should be initialed since ES-301-4 form not submitted. After discussion with Chief Examiner, will initial and resubmit form.