

DRAFT OUTLINE COMMENTS

Rev 0

Facility: RB

First Exam Date: 11/21/2008

Written Exam Outline	
(Date)	
	Comment
	Resolution
1	Put revision number on all forms.
2	Add "RO" to title of written exam outline
3	Tier 3 – RO: K/A's 2.2.12 and 2.3.11 were on both the 2004 and 2007 NRC exams. Randomly select different K/A's.
4	For the K3's that were oversampled, add "in T2G1" for clarification. "K3's were oversampled in T2G1 while K5 ..."
5	The bottom entry of ES-401-4 has the E/APE designator of 295022. This should be 295002.
6	Reword the reason for rejection of T3 G.2.2.5. RBS surely considers knowledge of the process for making design or operating changes to the facility important – maybe not for RO's?

Administrative JPM Outline	
(9/3/08)	
	Comment
	Resolution
1	Use "A" designators (A1, A2, etc)
2	Is SRO Conduct of Ops "Determine Alt. DHR method" a repeat from 2004 NRC exam?
3	SRO – K/A 2.1.25 has been used on last two NRC exams. Select another K/A. This exam will be the second time it has been used on the RO exam (don't select it for the next NRC exam).

Control Room / In-Plant System JPM Outline		
(Date)		
Comment	Resolution	
1	Use "C" "S" and "P" designators (C for Control Room, S for Simulator, and P for In-Plant JPMs)	Done.
2	Reduce CR JPMs from 4 to 2	Done. Eliminated the following control room JPMs <ul style="list-style-type: none"> ◆ Shedding of DC Loads during a SBO ◆ Resetting APRM power supplies. Replaced with the following simulator JPMs: <ul style="list-style-type: none"> ◆ Aligning Fuel Bldg Ventilation into Fuel Handling Lineup ◆ Resetting a scram per AOP-0001.
3	Simplify JPM titles	Done.
4	Have a backup "N" and "A" control room system JPM (minimum is 2)	Disregarded per chief examiner.
5	Have a backup "RCA" JPM (minimum is 1)	Disregarded per chief examiner.
6	Have a backup "L" control room system JPM (minimum is 1) (SROU)	Disregarded per chief examiner.
7	What is HVK? (see JPM "d")	Control Room Ventilation & Chilled Water
8	What is "IAS" and "SVV" (see JPM "i")	Instrument Air System and Air supply to Safety Relief Valves

Simulator Scenario Outline Comments		
(Date)		
Comment	Resolution	
1	Was facility-specific or industry-generic operating experience used in development of the scenarios?	Not specifically during development, however many of the events have occurred in the industry and at RBS <ul style="list-style-type: none"> ◆ Single Rod scram (RBS) ◆ Turbine failure due to MSRs not balanced (Nine Mile Point) ◆ ATWS (Browns Ferry)
2	Was PRA used to identify risk-important operator actions?	Loss of offsite power (Scenario 2) is highest contributor to core damage frequency. Important Operator actions in PSA include: <ul style="list-style-type: none"> ◆ Recovery of Offsite Power (Scenario 2) ◆ Recovery of Feedwater (Scenario 1) ◆ Start of suppression pool cooling (Scenario 1) Also reviewed PRA prior to rejecting KAs with IR <2.5 to ensure those tasks were not considered important operator actions.

3	Simplify ES-301-5 form (we'll discuss)	Re-submitting Rev 1 to ES-301-5 forms. Candidate names are removed. A separate form is completed for each combination of candidates for a total of 3 forms.
4	Scenario 2 – what is major event? Also, convert to low power (<5%) scenario	Outline was not annotated correctly major event is the Loss of offsite power. The backup scenario outline has been changed to a low power scenario.
5	Scenario 3 – Event 2: APRM “F” upscale failure and Event 3: Single rod scram were a combined event on 2004 NRC exam and was a Tech Spec call. The APRM failure was also on the 2007 NRC exam – replace this event with another TS event.	Records indicate that the APRM F/Single rods scram failure was on the 2004 backup scenario which was not used. Per chief examiner, it is acceptable to use this malfunction on the 2008 exam.
6	Scenarios 1-3 – no Tech Specs identified	Done.
7	For each scenario, complete Target Quantitative Attributes from ES-301-4 (see D-1's from 2007 NRC exam)	Originally misunderstood the comment. TQA are included on Revision 1 submission of outline.
8	Scenario 2 – contains CRD pump trip. The SRO written exam contains a question dealing with EOP mitigation strategies for this event. Select a different event or different KA on the written exam.	Done. Selected a different KA 295034 G 2.4.6. “Knowledge of EOP mitigation strategies regarding Secondary Containment Ventilation High Radiation”.
9	Backup scenario – event 8 has “UO” in the Event Type column – what is “UO?”	Done. UO = BOP Outline adjusted for consistency.
10	Both scenarios 1 and the backup have steam leaks as the Major Transient. Explain the differences (operator actions, procedure usage, etc) to preclude repetitive scenarios.	Scenario 1 is a leak in the drywell resulting in elevated containment parameters (EOP-2). Backup scenario is a leak (failure to isolate) in the RCIC room which is in Secondary Containment (EOP-0003). Different strategies used to combat the events.
11	When preparing Draft Op Test, identify all Tech Specs and action statement(s) in the D-2 for each TS call	N/A
12	When preparing Draft Op Test, Critical Tasks must be carefully defined, including time limits where applicable.	N/A
13	When preparing Draft Op Test, identify all procedure transitions in the D-2's.	N/A

Exam Outline Revision 1 Summary of Changes

Written Exam Outlines

RO

- Updated Revision Number (Comment #1)
- Added “RO” to outline title (Comment #2)
- Re-selected KA 2.2.3 & 2.3.7 (Comment #3)
- Added “T2G1” for clarification on oversampled K3’s (Comment #4)
- Corrected E/APE designator from 295022 to 295002 (Comment #5)
- Reworded reason for rejection of KA T3 G 2.2.5 (Comment #6)

SRO

- Rejected 295022 G2.4.6 due to overlap with Operating Test. Re-selected 295034 G 2.4.6 (Comment #8 on Scenario Outline Comments)

Admin JPM Outlines

- Added “A” designators (Comment #1)
- SRO Exam - Selected alternate KA for 2.1.25 due to use on previous 2 exams. New KA is 2.1.20 (Comment #2 & #3)

Control Room / In-Plant Systems Outlines

- Added “C, S, and P” designators (Comment #1)
- Reduced Control Room JPMs from 4 to 2 (Comment #2)
- Simplified JPM titles (Comment #3)

Simulator Scenario Outlines

- Identified Tech Spec events on each scenario outline (Comment #6)
- Added Target Quantitative Attributes to each scenario (Comment #7)
- Backup scenario contain reference to “UO”. Changed to “BOP” for consistency (Comment #9)
- Scenario 2 did not have a Major event identified. Major event is Loss of Offsite Power. It is now annotated correctly. (Comment #4)
- Changed backup scenario to a low power scenario (Comment #4)
- Scenario 3 – Changed MSS-MOV111/112 failures. As originally submitted, these failures brought in no alarms and did not change plant conditions enough to be noticed by the crew. Remove these failures and replaced with Isophase Bus Duct Cooling Fan 1 & 2 failures. This change does not affect the Transient and Event Checklist.