

## Draft Operating Exam Comments

Scenario 1: Review other bank scenarios to see if normal for rods control in normal.  
Will pressure instrument failure open PORV?  
Does loss of 345KV bus constitute a loss of off site power?  
What is rod height at start of downpower?  
What are required actions to restore function of rod control?  
Spelling consistency PZR or PRZR throughout the scenarios  
Are PORV's and block valves actuated during event 4? What actions on loss of all PORV's?  
How long to ID and isolate ruptured S/G?

Scenario 2: How long to trip RCP's once conditions met? Critical task.  
How long to manually isolate CIV's?  
Time limit to isolate faulted S/G?  
Consequences of not correcting PZR spray valve soon enough? How fast will pressure fall?  
What would cause 40% open failure and indication?  
Plausibility of Engineering knowing and informing Control room that quickly that alarm is erroneous? What does procedure require operators to do?  
Which Channel feeds indication?

Scenario 3: What is maximum RX power level allowed in event 1, hold at 2-3 %? (5%)  
How long to recognize RCP trip and trip RX?  
May have problem with who gets malfunction credit. Use as back up.

### Admin JPM's

A.1.a evaluation criteria are written for performing line up verification not checking completed, need to change.

A.1.b

A.2

A.3

A.4

### In Plant JPM's

For all in plant JPM's change evaluator cues to provide indication rather than tell condition.

- 1 note to evaluator ensure proper sized valve operator is obtained.  
Add RCA entry and exit evaluation
- 2 Change to have candidate actually go to 2EC5  
Need to add description of panel with proper indications for simulated condition for the evaluator. provided expected meter readings and light status throughout the evolution.
- 3 If junction boxes are to be opened, cue not required.

## Simulator JPM's

S-1: Is step 4 Critical?

Is step 5 Critical?

Is step 6 Critical?

Step 8 Leading or lagging

Step 11 What are termination criteria of Att. 10.7 section II?

Is 2-4 Rpm really the critical component of step?

Is 1-2 volts higher really the critical component of step?

What if applicant reduces diesel frequency to prevent overloading diesel?

What is max load that diesel can be loaded to and still have JPM sat?

What gives option of going to emergency stop vice opening CS-1EG1 per step 8.1.T of OPT-214A?

Don't have syn Sel switch handle in place.

S-2: Step 6 change to require candidate pull up trend on PCS rather than having it already on screen.

Step 9 under normal conditions, would RCP be accessible?

How long to pump damage if not secured with high amps? Is procedure non-compliance failure criteria?

Need to add place to record RCP start time and secure time.

S-3: May not be discriminating, need to see performed.

Need to add "of section 2.3" to initiating cue.

Change Control rod condition to manual vice auto or rods will be stepping in.

Add expected alarms that will be received for evaluator note.

At step 8 note to evaluator, handle mark does not align to indication on plate when switch is in loop 4 position.

S-4: no comments

S-5: Add key to required materials for evaluator to have at start of JPM.

Add note to evaluator to signal simulator operator when candidate is ready to start.

Check for overlap with scenario actions.

How to control this JPM needs careful timing for starting simulator.

Step 5 spelling error

Step 7 Failure criteria? Does simulator model cavitation? (Not at engineering determined level)

S-6: Delete cue to remind candidate to take action in step 1, step is considered critical.

Step 2 don't give cue until candidate takes action or states that he will control Tave by dilution.

Candidate should evaluate delta I and recommend action rather than being directed.

S-7: Need to see performed

Add key to required materials for evaluator to have at start of JPM.

S-8: Step 5 remove evaluator cue

Is time valves closed/release secured required to be logged?