Palo Verde Unit 2 - June 14, 2004 Loss of Offsite Power Event - June 25, 2004 (9:49AM)

Event-Related Facts	Assumptions	Model Changes	Questions/Notes/Sensitivity
1 EDG "A" failed to start	Not recoverable due to circuitry failure in the exciter circuit	• EPS-DGN-FS-DGA = True • EPS-DGN-FS-DGA = True	N. Must set FTR event to true to calculate CCF
2 Charging pump "E" failed to start	Not recoverable due to air binding - operator have to bleed pump	• CVC-MDP-FS-CHE = True • CVC-MDP-FR-CHE = True	
3 Power restored to Unit 2 in 2 hrs 15 mins	Mission times for EDG and TDAFW pump = 2.5 hrs	• EPS-DGN-FR-FTRM mission time = 2.0 • AFW-TDP-FR-A mission time = 2.5 hrs	N. EDG FTR-medium basic event applies to the time range of 0.5 to 14 hrs
4 Offsite power available from Dever line shortly after event initiation	Recovery of power to first vital bus possible within one hour following a postulated SBO	See below	Q. Can power to vital bus be recovered within 60 min? Q. What are the steps/actions needed for recovery? **S. Do sensitivity analysis for offsite power recovery within 30 minutes for all three basic event below**
	Recovery of power during a postulated SBO and AFW failure: • Time available = time required (time to core uncovery is 1 hr) • Stress = extreme (core uncovery imminent if operator fails) • Complexity = moderate (communications and coordination required outside control room) • All other performance shaping factors are nominal	OEP-XHE-NOREC-ST = 0.1 (10 x 5 x 2 x 1e-3 = 0.1)	**S. Do sensitivity analysis for offsite power recovery within 30 minutes (P = 0.01 with Time Available = nominal or x1)**

5 RCP seals are the KSB type where the licensee claims not to fail during loss of seal cooling/injection (about 17 gpm leak)	SPAR uses the CE RCP seal LOCA model, which is under review by NRC	None	S. Do sensitivity analysis using conservative seal LOCA model
6 No EDG recovery credited	SPAR does not credit nominal EDG recovery	None	S. Does not affect dominate sequences