

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

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| Event-Related Facts | Assumptions | Model Changes | Questions/Notes/Sensitivity |
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| 1 EDG "A" failed to start | Not recoverable due to circuitry failure in the exciter circuit | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | <ul style="list-style-type: none"> • 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 | <p>Q. Can power to vital bus be recovered within 60 min?</p> <p>Q. What are the steps/actions needed for recovery?</p> <p>S. Do sensitivity analysis for offsite power recovery within 30 minutes for all three basic event below</p> |
| | <p>Recovery of power during a postulated SBO and AFW failure:</p> <ul style="list-style-type: none"> • Time available = time required (time to core uncover is 1 hr) • Stress = extreme (core uncover imminent if operator fails) • Complexity = moderate (communications and coordination required outside control room) • All other performance shaping factors are nominal | <p>OEP-XHE-NOREC-ST = 0.1</p> <p>(10 x 5 x 2 x 1e-3 = 0.1)</p> | S. Do sensitivity analysis for offsite power recovery within 30 minutes (P = 0.01 with Time Available = nominal or x1) |

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| 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 |