



# Electrical Grid Problems Identified at Palo Verde

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# Purpose

- Proposed by Richard Barrett, Director, DE
- Information to understand grid vulnerabilities that could lead to loss of offsite power for long duration

# Success

- ET & LT understand the grid centered problems



# Agenda

- Description of the event
- Root cause
- Design Deficiency
- Impact on 500KV Grid
- Corrective Actions



# Event Description

- On June 14, 2004 at 7:44 a.m. all three Palo Verde Units tripped. One EDG for unit #2 failed to run
  - ◆ Unit #2 went into an Alert because of one EDG and all offsite power unavailability
  - ◆ All three units tripped from loss of load
  - ◆ Electrical fault remained for 39sec.,
  - ◆ Offsite power recovered by 8:18 a.m.
  - ◆ 9:51 a.m. safety buses energized from offsite power for unit#2