



# CPSD Electric Substation Audit Program



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# Presentation Overview

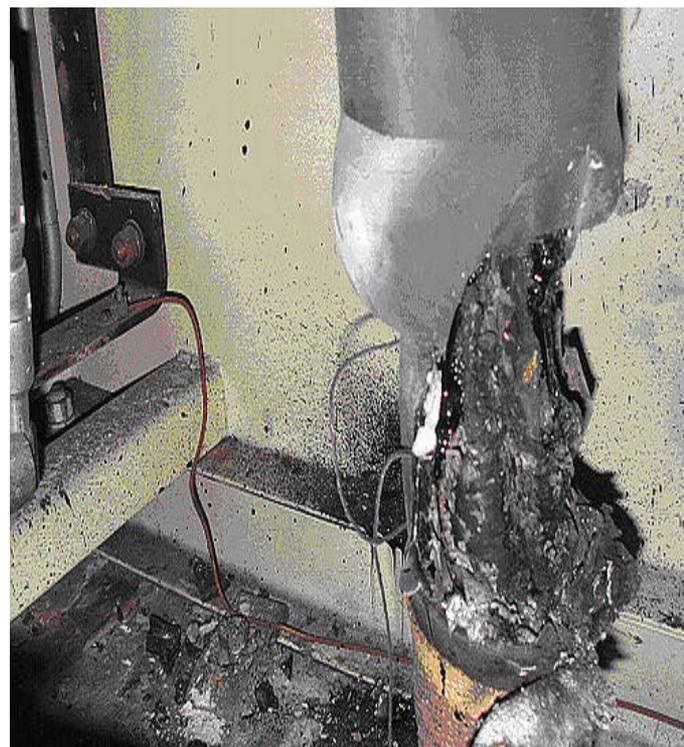
- Mission Fire and Substation Safety
- Risk Targeted Regulation and Enforcement
- Substation General Order (GO174)
- Substations –Not “One Size Fits All”
- CPSD and Substation Safety
- CPSD Audit Program





# Mission Fire and Substation Safety

- Mission Substation Fire (2003)
  - A failure of safety barriers
- Substation Rulemaking and Decision (D1210029)
  - General Order 174 and workshops
  - Decision Approved October 25, 2012





# Risk Targeted Regulation and Enforcement

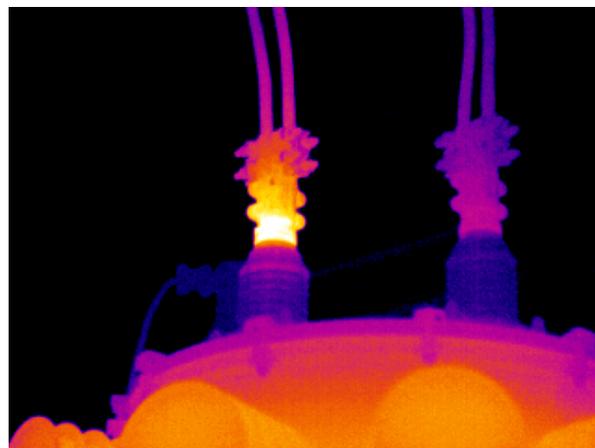
- Performance Directed Regulation
  - Beyond prescriptive “check-the-box”
- Risk Based Enforcement
  - Target issues, systems, equipment, processes based on safety impact
  - Identify all possible failure modes
  - Data and Information Driven





# Substation General Order (GO174)

- A mindful, resilient safety culture
  - Inspect critical substation equipment
  - Inspections as necessary for safety and reliability
    - Visual, auditory, testing
  - Use qualified inspectors
  - Keep adequate and accurate records





# Substations – No “One Size Fits All”





# CPSD and Substation Safety

- Participate in “best practice” workshops and report to Commission
  - Provide CPSD input
  - Build knowledge base
  - Identify critical safety issues (possible future rulemaking)
- Regular Program Evaluation and Audits
  - Audits focused on risk profile, impact on safety





# CPSD Audit Program

- Comprehensive Plan and Records review
  - Ensure plan addresses risk and GO requirements
  - Ensure inspections conducted according to plan
- Field Inspection
  - Verify utility's written inspection records
  - Speak with electrical staff at substations
  - Identify Critical or Immediate Safety Issues

