

PG&E Metcalf Incident

April 16, 2013

Raymond G. Fugere
February 27, 2014

Agenda

- Overview of Event
- Damage to PG&E
- Post Event Actions
- Next Steps

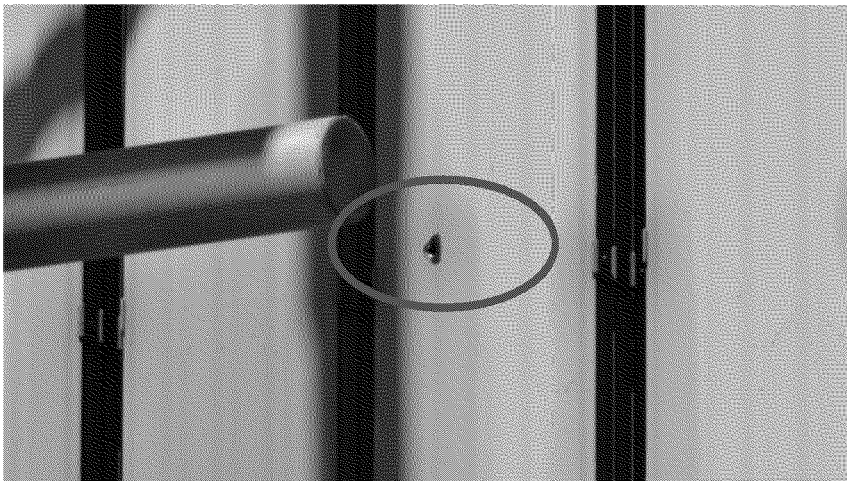
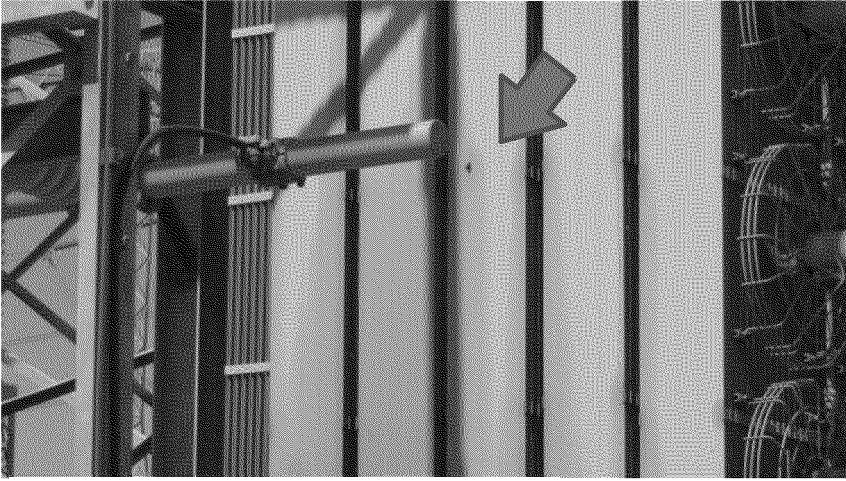
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Event summary

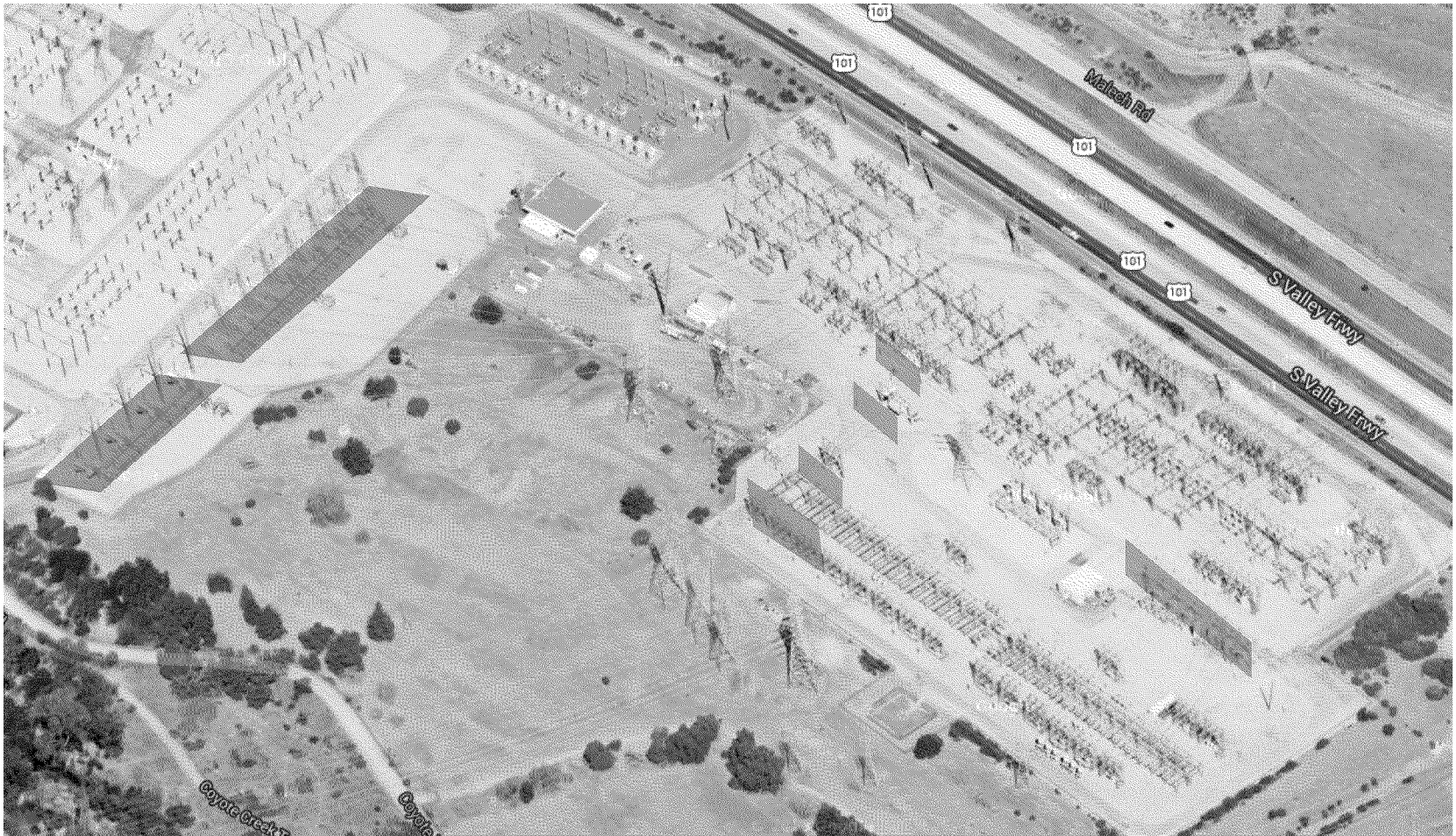
- 0058 Hours
 - AT&T Fiber Cut
- 0107 Hours
 - Level 3 Line Cut
- ~~0130~~ 0141 Hours
 - 911 Call - Shooting
- 0137 Hours
 - Fence Alarm Activated
- 0138 Hours
 - Initial Transformer System Alarm
- ~~0145~~ Hours
 - ~~Bank 4~~ Relayed
- 0151 Hours
 - Police Arrive On Scene



Damage at Scene



Damage to Substation



Damage to Facilities

- 500kV Yard
 - 10 transformers
- 230kV Yard
 - ~~3~~ 7 transformers
 - ~~4~~ circuit breakers
- 115kV Yard
 - 6 circuit breakers
- Total of 52,000 gallons of oil
- \$15.4 Million in restoration costs
- No outages

SED & Substations

- 2013 launched Substation Audit Program
 - Focused on Non-FERC Substation
 - Audit utility versus current programs
 - Have found some security issues
- Prior Incidents
 - Copper Theft
 - Trespassing
 - Equipment Failures

Post Event

- Immediate:
 - Restoration
 - Investigation
 - ~~Armed Security at critical substations, Vegetation~~
- Long Term:
 - Evaluation of current internal security measures
 - Cameras, Lighting, Fences
 - ~~Vegetation, Motion Sensors~~ Enhanced Intrusion Detection
 - Evaluation of external security measures
 - Coordination with Law Enforcement
 - Coordination with Communication Companies