

TEP Extreme Contingency Analysis

Arizona Corporation Commission 2014 Biennial Transmission Assessment

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8th BTA Workshop No. 1

May 15, 2014



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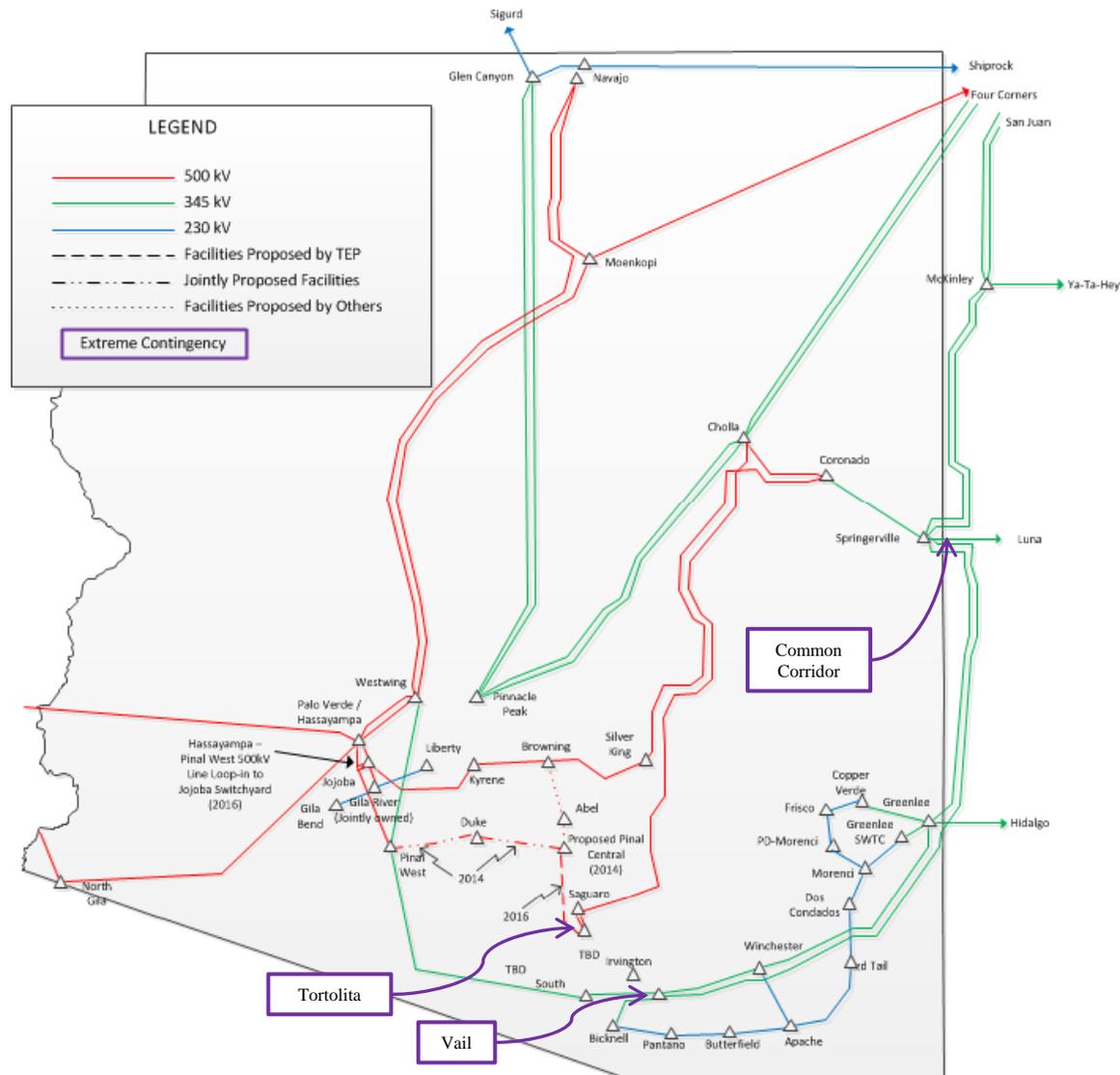
- Filed under a NDA with the ACC
- Contains Critical Electric Infrastructure Information
- Presentation is a high level summary of study results

Study Assumptions

- Evaluated using the 2014 and 2023 heavy summer power flow cases
- The integrated Arizona power system is represented
- Corridors selected must contain 3* or more lines
- Substations selected must contain 3* or more transformers with low side voltages of 138kV or above

* TEP's normal planning process accounts for loss of 2 transmission lines or transformers

Contingencies Selected for Evaluation



Extreme Contingency Study – Summary of Results

- **The transmission system can withstand these extreme outages with the response of TEP's Local Area Protection Scheme**
- **Post-contingency Operator responses**
 - Generator re-dispatching
 - Coordinate mitigation with SWTC