



THREAT ANALYSIS ON THE BLACKPORT ELECTRICAL GRID

This report is the result of a 2005 study to determine the economic impact of potential failures in the Blackport area power grid.

| General Generation | Asset | Capital Loss | Economic Loss Calculation Based on # days | | |
|-----------------------|----------------------------|----------------|---|-------------|---------------|
| | | | Basis of Estimate | Repair Time | Economic Loss |
| | Dark Cloud Powerr Plant | \$50 million | \$1.5 million/day | 360 days | \$540 million |
| Transmission | Stepping Stone Transformer | \$2.5 million | \$1.5 million/day | 120 days | \$180 million |
| | Stepping Stone Station | \$3.5 million | \$1.5 million/day | | |
| | Skull Rock Transformer | \$2.0 million | \$1.5 million/day | 90 days | \$135 million |
| | Skull Rock Station | \$3.0 million | \$1.5 million/day | | |
| | Arnold Transformer | \$1.0 million | \$1.5 million/day | 120 days | \$180 million |
| | Arnold Station | \$2.0 million | \$1.5 million/day | | |
| | Avalanche Headend Station | \$250 thousand | \$1.5 million/day | 30 days | \$45 million |
| | North Point Transformer | \$400 thousand | \$1.5 million/day | 10 days | \$15 million |
| | North Point Station | \$500 thousand | \$1.5 million/day | | |
| | Mushroom Cloud Transformer | \$2.0 million | \$1.5 million/day | 10 days | \$15 million |
| | Mushroom Cloud Station | \$3.0 million | \$1.5 million/day | | |
| | Geranimo Transformer | \$1.0 million | \$1.5 million/day | 90 days | \$135 million |
| | Geranimo Station | \$3.0 million | \$1.5 million/day | | |
| | Stockton Transformer | \$500 thousand | \$1.5 million/day | 10 days | \$15 million |
| | Stockton Station | \$750 thousand | \$1.5 million/day | | |
| | Achtung Transformer | \$200 thousand | \$1.5 million/day | 10 days | \$15 million |
| | Achtung Station | \$350 thousand | \$1.5 million/day | | |

| General | Asset | Capital Loss | Basis of Estimate | Repair Time | Economic Loss |
|--------------|--|---------------------|--------------------------|--------------------|----------------------|
| Distribution | Stockton Airport | None | \$1.5 million/day | 1 day | \$1.5 million |
| | West End | None | \$1.5 million/day | 1 day | \$1.5 million |
| | Downtown | None | \$1.5 million/day | 1 day | \$1.5 million |
| | Geronimo Suburb | None | \$1.5 million/day | 1 day | \$1.5 million |
| | Lines (poles, towers, etc | | \$5 thousand/incident | 1 day | \$5 thousand |
| Assumptions | 1 kilowatt/user per day \$1/day of economic loss/consumer Repair times based on transformer replacement, mainly Threats: Bombings, Fire | | | | |