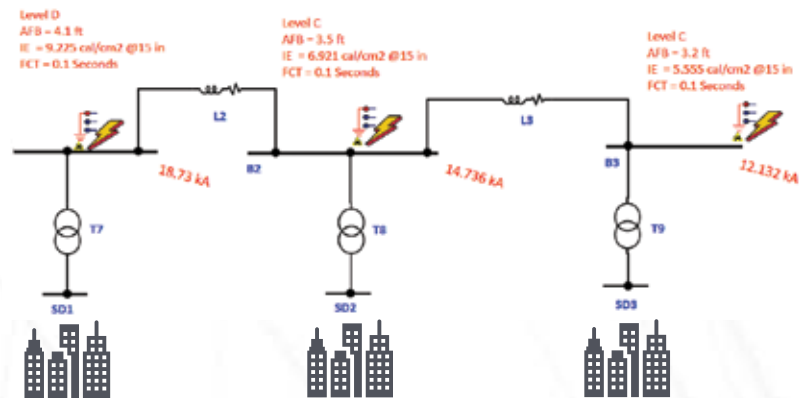


ETAP ArcFault™ analysis software is used for performing Arc Flash Analysis on electric transmission and distribution utilities and renewable power systems operating at 1 kV and above.

Key Features

- Thousands of protective device libraries
- Protective device sequence-of-operation
- Arc Flash Result Analyzer
- Automatically find worst-case incident energy
- Personal protective equipment editor
- Auto-update worst-case results to datablocks
- Verified & validated against industry standards



Open-Air Arcing Fault



- OSHA 1910.269
- National Electrical Safety Code - NESC
- Model LG, LL, 3-phase arc faults
- Altitude & transient overvoltage correction factors
- Minimum approach clearances
- Customizable equations & user-definable coefficients

Arc Flash in a Box



- Extended arc flash model for Arc-in-a-Box
- Enhanced analysis data for equipment > 15kV
- Typical & user-defined gaps between conductors
- Incident energy reflectivity factors for box size
- Auto-gap, working distance & auto-selection of minimum approach distance
- For renewable collector systems application



Low, Medium & High Voltage Arc Flash Analysis

Fully integrated with Star™ protective device coordination module utilizing time-current characteristic (TCC) curves and short circuit calculations for arcing fault hazard evaluation.

Automatic Arc Fault Duration

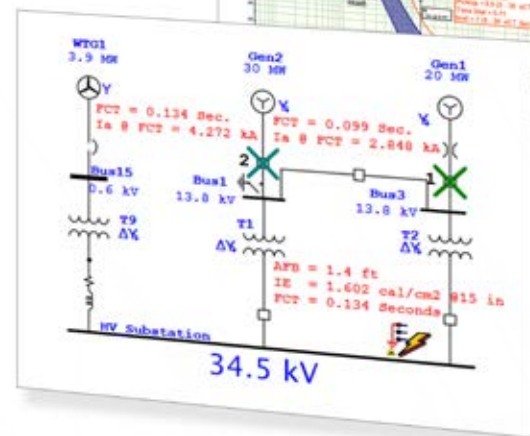
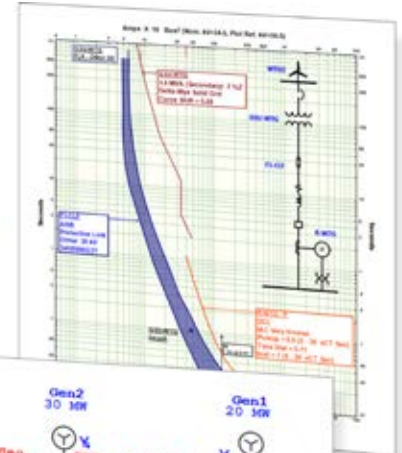
- Power distribution & current-limiting fuses
- Differential & distance relays
- Directional & voltage-restrain relays
- Phase, ground & sequence protective devices
- Plot arc current on TCCs

Arc Fault Current

- LG, LL, 3-phase faults
- Phase, ground & sequence fault currents
- Short circuit for renewable energy systems
- Auto-trip using LVRT in WTG & PV Inverters
- Fault impedance & high-resistance path to ground

Model-Driven Arc Fault Simulations

- Unlimited scenarios to evaluate worst-case results
- Graphical simulation of arc faults
- Model utility, transmission & distribution systems
- Reporting, labeling & data sheets
- Alerting for special arc fault conditions



The screenshot displays the ETAP software interface with several key components:

- Minimum Approach Distances Data:** A table showing voltage ranges and corresponding minimum approach distances for different equipment types.
- Results:** A color-coded heatmap showing simulation results for various buses and equipment.
- Warning Label:** A prominent red and black warning label that reads "WARNING Arc Flash and Shock Hazard Present". It includes details such as Incident Energy (1.46 cal/cm²), Working Distance (15 in), Arc Flash Boundary (2 ft), and Equipment Bus (Collector Bus).



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