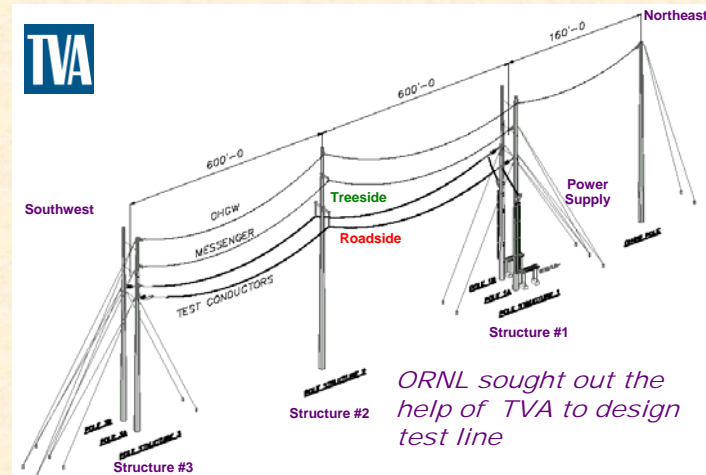


# Overhead Bare Conductor Testing at Oak Ridge National Laboratory

Outdoor Test Line at ORNL

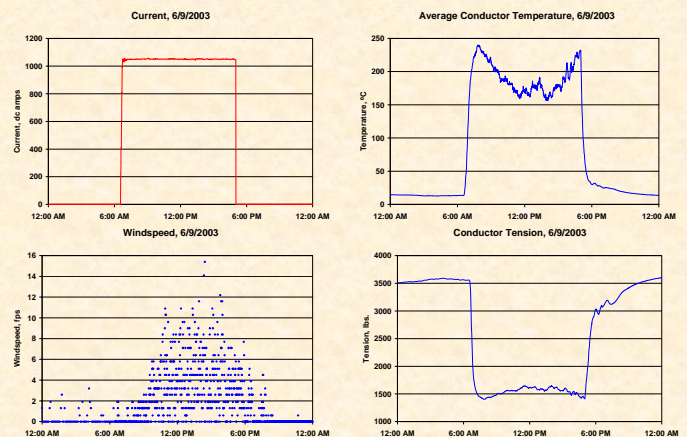
Test Line at ORNL



## PCAT Capabilities

- **Testing Capabilities**
  - Controlled current or temperature testing
  - Conductor and accessories
  - Up to 300°C
- **Example tests**
  - Constant Current or Constant Temperature
  - Thermal / Mechanical Cycling
  - Current / Temperature Ramp
  - Current / Temperature Steps and Hold
- **Capabilities**
  - 2400 feet of conductor
  - 4 - 600 foot spans
  - Low Voltage, 0 to 400 Vdc
  - High Current, up to 5,000 Adc
- **National Transmission Grid Study, U.S. DOE, May 2002 ([www.ntgs.doe.gov](http://www.ntgs.doe.gov))**
  - One of the 51 Recommendations
  - "DOE will develop national transmission-technology testing facilities ... at DOE 's Oak Ridge National Laboratory."

Example run shows how wind cools the conductor



### Contact Information

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