

PDC 2011 COURSE SUMMARY

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All courses are taught by instructors with more than 40 years practical and analytical experience

Power Cable Ratings and Soil Considerations

October 17 – 19 \$1550

This course focuses the procedures for calculating ratings of underground cables and the factors that affect those ratings, and provides numerous practical examples for both extruded-dielectric and pipe-type cables. The course has special sections on soil and thermal backfill considerations.

Extruded-dielectric Cables Design and Installation

October 20 - 21 \$1250

Extruded-dielectric cables – principally XLPE-insulated, are now in service through 500 kV worldwide, and more than 50 miles of 345-kV XLPE-insulated cables have been installed in the U.S. This course provides design details, including design of sheath bonding systems, and describes installation approaches as well as O&M requirements.

Reconductoring and Voltage Upgrading of Transmission Lines

November 7-9 \$1550

The transmission upgrading course discusses some of the basic design issues relating to transmission line design and ratings and then focuses on techniques and technologies that may be applied to increase capacity of overhead transmission circuits, first considering approaches that minimize capital investment by line owners/operators.

Application of High-temperature Low-sag Conductors

November 10 \$950

The range of materials and commercially available high-temperature, low-sag (HTLS) conductors is studied in depth. Installation procedures and problems are discussed and field results examined. Deterioration of HTLS conductors at temperatures above their design limits is explained. The peculiar but important issues involving the use of annealed aluminum wires in combination with steel and carbon fiber composite cores are explored. Limitations of HTLS use in corrosive and extreme ice loading regions are explained.

Transmission Line Monitoring & Rating

November 11 \$950

The seminar explores the process of converting line monitor data into accurate estimates of both static and dynamic line thermal capacity. Line temperature limits concerning loss of conductor tensile strength, deterioration of connectors, or electrical clearance are considered.

Underground Cable Systems: Principles and Practices

November 14 - 16 \$1550

This course provides information for all transmission cable types, on system considerations and analytical techniques, cable and accessory design, manufacturing, QC, system integration, specifications, installation, operation, maintenance, and failure analysis.

Design, Installation, and Operation of Pipe-Type Cable Systems

November 17 - 18 \$1250

Many utilities no longer have personnel with expertise in pipe-type cable systems. This two-day course provides necessary details on planning, design, specification, installation, and O&M of HPFF and HPGF cables. *For a broad introduction to power cable systems, students are encouraged to also sign-up for the Principles & Practices course earlier in the week.*

Further Information: All courses will be held in St. Pete Beach, Florida (site location & directions provided on website). Visit our website for more information or to register for our courses today: www.pdc-engineering.com. E-mail us with any questions at: courses@pdc-cables.com. Telephone Contact Information: Jay Williams 518 384-1300 or Dale Douglass 518 346-8086.