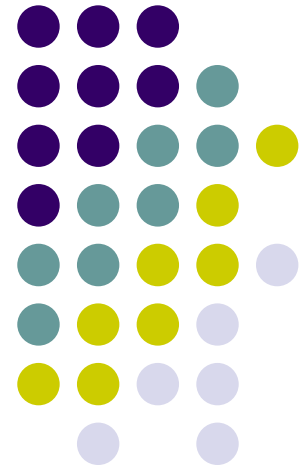


Welcome to Subcommittee D

Chairman
John E. Merando,
Bechtel Corp.

Vice Chairman
Albert H. Spear,
Duke Energy



Subcommittee D



Generating Station and Industrial Cables

Subcommittee D

Scope



- Develop standards and guidelines
- Selection, application, installation and testing of cable for plant applications
- Facilitates technical discussions
- Cable systems for:
 - power (medium and low voltage)
 - control
 - signaling
 - communication
 - data transmission

Subcommittee D

Scope (cont.)



- Power generation, industrial, shipboard, military, submarine, mining, and transportation
- Conduit, tray, plenum, or direct buried
- Fiber optic cable installation in power generating stations and industrial facilities.
- Excludes T&D cables

Subcommittee D

Working Group Meetings



Held on Monday

- D13W Ampacity Derating of Fire Protected Cables (IEEE P848)
- D10D Class 1E Cables for Nuclear Plants (IEEE 383)
- D11W Guide for Shielding Practice for Low Voltage Cables (IEEE P1143)
- D17W Circuit Integrity Cable Testing Using Hydrocarbon Pool Fire Test Protocol (P1717)

Subcommittee D WG Meetings (cont.)



Tuesday

- Sub D Meeting, 8:00 am – 12:00 pm
- D14D Revision of IEEE 422, 2:00 – 5:30 pm

Wednesday

- D5W Station Cable (IEEE P1185), 8:00 – 10:00
- D3W Guide for Selecting & Specifying Petro-Chem Plant Cables (IEEE 1242), 10:15 – 12:00

Subcommittee D

WG Meetings (cont.)



Notes:

- D16W Qualification of Fiber Optic Cable
 - Not meeting due to conflict with NPEC SC2 & NUGEG meetings
- Ballot Pool is forming for P1185 “Recommended Practices for Cable Installation at Generating Stations”

Subcommittee D

Chair & Vice Chair Changes



- New Chairman of D14D – Gary Engmann
Revision to IEEE 422 “Guide for Design of Cable Systems in Power Generating Stations”
- New Vice-Chairman of D3W – Art Maldonado
Guide for Selecting and Specifying Cables for Petrochemical Plants, IEEE 1242

Subcommittee D

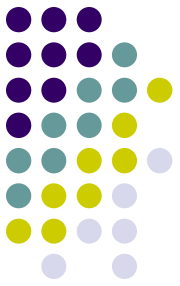
Existing Standard Work



- IEEE 383 – 2003, Issued & Published
- IEEE 634 – 2004, Issued & Published
- IEEE 848 – 1996, Reaffirmed in 2003. Revision in progress by WG.
- IEEE 1143 – 1994, Reaffirmed in 2004 with comments. WG is writing a PAR and discussing changes to standard.

Subcommittee D

Existing Standard Work (cont.)



- IEEE 1185 – 1994, Reaffirmed in 2000. PAR extension granted until Dec 2008. WG is currently on Draft 6. Ballot Pool forming now.
- IEEE 1202 – 2006, Issued & Published
- IEEE 1242 – 1994, Reaffirmed in 2005. Joint PCIC & ICC activity.
- IEEE 1428 – 2004, Issued & Published

Subcommittee D

Activities of Interest



Working Group D14D

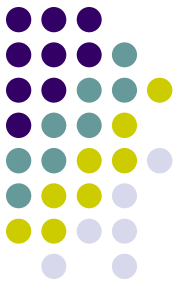
- Organizational meeting of WG D14D - to begin a revision to IEEE 422 (Guide for the Design of Cable Systems in Power Generating Stations) – Tuesday, 2:00 – 5:30

Working Group D10D

- Discussed potential changes to IEEE 383-2003 and effect of Draft RG 1132

Subcommittee D

New Resources



- **SEMIANNUAL UPDATE OF THE STATUS OF NEW REACTOR LICENSING ACTIVITIES AND FUTURE PLANNING FOR NEW REACTORS**

NRC Paper # SECY-07-0152 issued on August 31, 2007

Subcommittee D

Best Presentation Spring 2007



Overview of Cable Used for Variable Speed Drive Applications

Eric Bulington & Brandon Phillips,
Belden Wire & Cable

Global Fire Performance and Environmental Trends for Wire & Cable

Dave Kiddoo, AlphaGary Corp

Subcommittee D

Potential Presentations



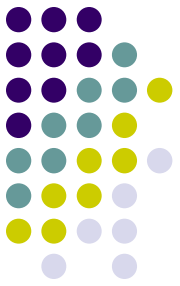
- Spring 2008
 - **Panel Discussion “What are Generating Station & Industrial Cables”**
 - **VOLUNTEERS NEEDED ?????**
 - **The Level System by Roland Watkins**
 - **Flame tests for small wire instrumentation, low voltage power and control cable by ??????**
- Contact any Sub D Officer or WG Chairman to be a part of this program

Subcommittee D Program



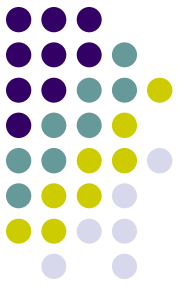
- *8:00 – 8:15 – **Subcommittee Business** – John Merando, Bechtel and Bert Spear, Duke-Energy*
- **8:15 - 8:45 – What is Instrument Cable** by Nader Moubed, Anixter Canada
- **8:45 - 9:15 – Wire and Cable Changes in the 2008 National Electrical Code** by Jim Daly, General Cable

Subcommittee D Program



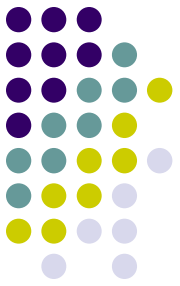
- **9:15 – 10:15 – Fire-Induced Spurious Actuation Testing of Armored-Cable Control Circuits** by Steve Graham of Duke Energy
- **10:15 - 10:30 Coffee/Soda Break by ICC**

Subcommittee D Program



- *10:30 - 11:00* – **Resurrecting A Withdrawn Standard, IEEE 422 “IEEE Guide for the Design and Installation of Cable Systems in Power Generating Stations”** by Gary Engmann of Burns & McDonnell
- *11:00 - 11:30* – **2007 Codes & Standards Activities at CSA and UL** by John Merando of Bechtel Corp.

Subcommittee D



**Please place cell phones,
blackberries, beepers,
pagers, etc. in vibrate mode
or turn them off.**

Thank you