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**LOG OF MEETING
DIRECTORATE FOR ENGINEERING SCIENCES**

SUBJECT: *National Electrical Code*, Code-Making Panel 2 Meetings to discuss proposals to revise Articles 210, 215, and 220.

DATE OF MEETING: January 19-24, 2003

PLACE OF MEETING: Crowne Plaza Hotel, Hilton Head, SC

LOG ENTRY SOURCE: Doug Lee, ESEE *DL*

DATE OF LOG ENTRY: February 11, 2003

COMMISSION ATTENDEES: Doug Lee, ESEE

NON-COMMISSION ATTENDEES:

Jeff Sargent, National Fire Protection Association (NFPA)
Ray Webber, Panel 2 Chair, International Association of Electrical Inspectors (IAEI)
Ernest Broome, IAEI
Richard Wagner, Underwriters Laboratories (UL)
Susan Porter, UL
Michael Toman, National Electrical Contractors Association (NECA)
Charlie Marshall, Int'l Brotherhood of Electrical Workers (IBEW)
Kevin Brooks (IBEW)
Jim Pauley, National Elec. Mfrs. Assoc. (NEMA)
Dan Kissane, NEMA
James Jones, Institute of Electrical & Electronics Engineers (IEEE)
Dick Becker, IEEE
Albert Sidhom, US Army
Robert Wilkinson, Independent Electrical Contractors (IEC)
Cliff Rediger, IEC
Thomas Harman, University of Houston
Pat Roche, American Chemistry Council
Bob Moore, Edison Electric Institute (EEI)
Joe Wiehagen, National Association of Home Builders (NAHB)
Matt Dobson, NAHB
Frank Coluccio, New York City Department of Buildings
And Guests

SUMMARY OF MEETING:

Mr. Lee participated in discussions of proposals received by the NFPA to revise the 2002 edition of the *National Electrical Code (NEC)*, Articles 210, 215, and 220. The NEC is revised in a 3-year cycle and the new edition will be known as the 2005 edition.

The topics covered included branch-circuits, feeders, and branch-circuit, feeder, and service calculations. Most of the proposals involved expansion or revision of the Arc-Fault Circuit-Interrupter (AFCI) and Ground-Fault Circuit-Interrupter (GFCI) requirements. Panel 2 acted to require the newly developed "combination" AFCI at the origin of the branch circuit or to be installed within 6 feet of the panel board using conduit. The CPSC technical staff submitted five proposals that were reviewed by Code-Making Panel 2 (Panel 2).

One of the CPSC staff's proposals (*NEC* proposal No. 2-124) that would require AFCIs for older homes when the electrical service is upgraded received some support but was below the 2/3 majority required for acceptance. At this time, Panel 2 was not willing to expand the scope of AFCI installations until receipt of performance data on the new combination AFCIs and on the 2002 *NEC* requirement for AFCIs on bedroom branch circuits. For the same reason, Panel 2 did not accept any proposals to add AFCIs for other branch circuits in the dwelling.

One of the CPSC staff's proposals (*NEC* proposal No. 2-70) that would require GFCI protection on receptacles in areas that are accessible to the general public received greater than the 2/3 majority required for acceptance when limited to outdoor locations.

The CPSC staff proposal (*NEC* proposal No. 2-47) to add GFCI protection to additional areas in dwellings was below the 2/3 required for acceptance. Panel 2 is seeking additional information on the incidents provided before they are willing to accept the proposal. They are also seeking additional information for shock and/or electrocution incidents near other sinks.

Code-Making Panel 2 discussed and acted upon 369 proposals. The proposals and initial actions will be included in the "National Electrical Code Committee Report on Proposals", published by the NFPA. Balloting during the meeting is provisional until the final balloting is conducted by mail. The proposals will be published for public comment and discussed and acted on in December 2003 for possible inclusion in the 2005 edition of the *NEC*. The CPSC staff is a non-voting member of the *NEC* Code-Making Panel 2.