

# FORM FOR PROPOSALS FOR 2008 NATIONAL ELECTRICAL CODE®

## INSTRUCTIONS – PLEASE READ CAREFULLY

Type or print legibly in black ink. Use a separate copy for each proposal. Limit each proposal to a SINGLE section. All proposals must be received by NFPA by 5 p.m., EST, Friday, November 4, 2005, to be considered for the 2008 National Electrical Code. Proposals received after 5:00 p.m., EST, Friday, November 4, 2005, will be returned to the submitter. If supplementary material (photographs, diagrams, reports, etc.) is included, you may be required to submit sufficient copies for all members and alternates of the technical committee.

LOG #

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Company U.S. Consumer Product Safety Commission

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Please Indicate Organization Represented (if any) U.S. Consumer Product Safety Commission

1. Section/Paragraph 210.12(B)

2. Proposal recommends (check one):  new text  revised text  deleted text

3. Proposal (include proposed new wording, or identification of wording to be deleted):

(See attached Proposal)

4. Statement of Problem and Substantiation for Proposal:

(See attached Statement of Problem and Substantiation for Proposal)

5.  This Proposal is original material (Note: Original material is considered to be the submitter's own idea based on or as a result of his/her own experience, thought or research and, to the best of his/her knowledge, is not copied from another source.)

This Proposal is not original material, its source (if known) is as follows: \_\_\_\_\_

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Quincy, MA 02269 or FAX to 617-770-3500

## Proposal for 210.12 (B)

Add text in Section 210.12 (B) to read as follows:

(B) Dwelling Unit Bedrooms. All 120-volt, single phase, 15- and 20-ampere branch circuits supplying outlets installed in dwelling unit bedrooms shall be protected by a listed arc-fault circuit interrupter, combination type installed to provide protection of the branch circuit. An outlet on each AFCI-protected branch circuit that supplies a smoke alarm shall include a luminaire.

Branch/feeder AFCIs shall be permitted to be used to meet the requirements of 210.12(b) until January 1, 2008.

FPN: For information on types of arc-fault circuit interrupters, see UL 1699-1999, *Standard for Arc-Fault Circuit Interrupters*.

*Exception: The location of the arc-fault circuit interrupters shall be permitted to be at other than the origination of the branch circuit in compliance with (a) and (b):*

- (a) The arc-fault circuit interrupter installed within 1.8m (6ft) of the branch circuit overcurrent device as measured along the branch circuit conductors.*
- (b) The circuit conductors between the branch circuit overcurrent device and the arc-fault circuit interrupters shall be installed in a metal raceway or a cable with a metallic sheath.*

### Statement of Problem and Substantiation for Proposal:

Substantiation – The AFCI requirements for bedroom outlets, as detailed in 210.12, include smoke alarms that are installed in bedrooms. There has been much debate over speculation that a smoke alarm (even with battery backup) may not be operable because of a tripped AFCI that supplies power to the branch circuit from which the smoke alarm is supplied. A luminaire on a circuit supplied by an AFCI could serve as an indicator that the device has tripped. See CPSC report, *Considerations for Installation of Smoke Alarms on Residential Branch Circuits*, CPSC-ES-0504, Lee and Lee, September 2005.

Submitter: Doug Lee, U.S. Consumer Product Safety Commission Staff\*