NFPA Technical Committee Document Proposal Form

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Date Oct. 1, 2002 **Name** William King **Telephone** 301-504-0508, ext. 1296
Company U.S. Consumer Product Safety Commission
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Please indicate organization represented (if any) U.S. Consumer Product Safety Commission

1. a) **NFPA Document Title** National Electrical Code
   b) **NFPA No. & Edition** 70-2002 c) **Section/Paragraph** 210.12
2. **Proposal Recommends** *(check one)*: ☑ **new text** ☐ **revised text** ☐ **deleted text**
3. **Proposal.** *(Include proposed new or revised wording, or identification of wording to be deleted.)* Note: Proposed text should be in legislative format, that is, use underscore to denote wording to be inserted (inserted wording) and strike-through to denote wording to be deleted (~~deleted wording~~).
   (See attachment for Proposal)
4. **Statement of Problem and Substantiation for Proposal.** Note: State the problem that will be resolved by your recommendation. Give the specific reason for your proposal including copies of tests, research papers, fire experience, etc. If more than 200 words, it may be abstracted for publication.
   (See attachment for 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.
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Signature ***(Required)*** William H King

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PROPOSAL.

Section/Paragraph: Art. 210, Part I. General, para. 210.12

Revise the section of the paragraph covering dwelling unit bedrooms as follows:

( ) Dwelling Unit Bedrooms. All branch circuits that supply 125-volt, single-phase, 15- and 20-ampere outlets installed in dwelling unit bedrooms shall be protected by ~~an arc-fault circuit interrupter listed to provide protection to the entire branch circuit~~ a listed arc-fault circuit interrupter, branch/feeder type, or a listed arc-fault circuit interrupter, outlet branch circuit type. The arc-fault circuit interrupter, outlet branch circuit type, shall be the outlet closest to, and within 3.0 m (10 ft) of the overcurrent device as measured along the branch circuit conductors.

STATEMENT OF PROBLEM AND SUBSTANTIATION FOR PROPOSAL.

The existing requirement at 210.12 covering dwelling unit bedrooms has been modified to include both types of arc-fault circuit interrupters (i.e., branch/feeder type and outlet branch circuit type) that are to be covered by expanded definitions.

Although AFCI devices currently available are incorporated within circuit breakers, AFCI devices have been listed that are incorporated into outlet devices. While only AFCI/circuit breakers can de-energize the entire branch circuit, listed AFCI/outlet devices can be applied in applications where fuses are provided as the branch circuit overcurrent protection devices. In addition, listed AFCI/outlet devices have been investigated and listed as an outlet branch circuit type with expanded arc detection capabilities, including sensing certain arcing conditions upstream of the AFCI/outlet device location, and sensing broader arcing conditions downstream of the AFCI/device location. These safety devices that provide the broadest range of fire protection to the occupants of dwellings.