Form for Proposals on NFPA National Electrical Code

NFPA Document and Reference: NFPA 70	210-12 (c) (new paragraph)
SUBMITTER INFORMATION:	
First Name: William	Last Name: King
Company: U.S. Consumer Product Safety	Telephone#: 301-504-0508, ext. 1296
Address 1: 4330 East West Highway	PO Box:
Address 2:	9
City: Bethesda	State: MD Zip: 20814-4408
Representing: U.S. Consumer Product Safety	Country: U.S.A.
Commission staff Please indicate organization represented	d (if any) Date: 09/07/1999
FOR EACH PROPOSAL, PLEASE COMPLETE EACH OF THE FOLLOWING:	
1.a)Document Title: National Electrical Code	NFPA No.: 70 Year: 1999
b) Article/Section: 210-12 (c) (new paragraph)	
2. Proposal recommends: (Check one):	☐ re vis ed text ☐ deleted tex
3. Proposal (include proposed new or revised wording, or identif	fication of wording to be deleted):
Add new paragraph to Section 210-12 as follows:	
(c) Lighting and Appliance Branch Circuits. Each existing 125-volt, single-phase, 15- and 20-ampere	
lighting and appliance branch circuit shall be individually protected by an arc-fault circuit interrupter	
when the service equipment is replaced.	
FPN: See Section 230-XX (Editorial note: Section 230-XX is a proposed new section, submitted	
separately to the CMP for Article 230, to complement this proposed new paragraph (c) to Section	
210-12. For information purposes, the proposed new Section 230-XX reads as follows: 230-XX. Replacement of Service Equipment in Dwelling Units. When service equipment in dwelling units is	
replaced, each existing 125-volt, single-phase, 15- and 20-ampere lighting and appliance branch circuit	
shall be individually protected by an arc-fault circuit int	
	
4. Statement of Problem and Substantiation for Proposal:	A Lord Control (apage)
According to a study conducted by the U.S. Consumer Product Safety Commission (CPSC),	
"Residential Electrical Distribution System Fires", Smith & McCoskrie, 1987, fires originating in branch circuit wiring predominately occurred in dwellings over 20 years old, with the highest rates of fires	
occurring in dwellings over 40 years old. Older dwellings are frequently upgraded with replacement	
service equipment to accommodate an increase in the service rating to supply additional appliance and	
equipment loads. However, often times, the existing lighting and appliance branch circuits in dwelling	
units are not replaced when the service is upgraded, due to the increased cost, and/or the inability to	
evaluate the remaining life expectancy of the branch circuit conductors. The branch circuit conductors are	
frequently located in concealed spaces surrounded with thermal insulation, and could be in a deteriorated	
condition at the time the service is upgraded. This proposal is intended to remedy this situation with the	
addition of arc-fault circuit interruption (AFCI) protection	on against fire hazard conditions for the existing
branch circuit conductors.	
5. This Proposal is original material.	
☐ Yhis Proposal is not original material; its source (if known) is as follows:	