



Proposed Code Change

State Form 41186R

RETURN TO:
INDIANA DEPARTMENT OF HOMELAND SECURITY
CODE SERVICES SECTION
302 W. Washington Street Room W246
Indianapolis, IN 46204

FOR OFFICE USE ONLY
Received 9/8/09
Code 62.5.1-09R

INSTRUCTIONS: Only TYPED copy accepted.
(KEY - Dashed line through material to be deleted, underline material to be added)
Use second sheet for any material requiring more space.

Code Title: Indiana Residential Code, Edition: 2009
Section number and title: E3902.11, Page: 683
Proponent: David Kish, Title: Homeowner
Address: 210 Floyd Ct., West Lafayette, IN 47906, Phone: (765) 491-4902

PROPOSED CODE CHANGE (Check One)

[X] Change to read as follows [] Add to read as follows [] Delete and substitute as follows [] Delete without substitution

E3902.11 Arc-fault circuit-interrupter protection. All branch circuits that supply 120-volt, single-phase, 15- and 20-ampere outlets installed in family rooms, dining rooms, living rooms, parlors, libraries, dens, bedrooms, sunrooms, recreations rooms, closets, hallways and similar rooms or areas shall be protected by a combination type arc-fault circuit interrupter installed to provide protection of the branch circuit.

Exception:

- 1. Where RMC, IMC, EMT or steel armored cable, Type AC meeting the requirements of Section E3908.8 using metal outlet and junction boxes is installed for the portion of the branch circuit between the branch circuit overcurrent device and the first outlet, it shall be permitted to install a combination AFCI at the first outlet to provide protection for the remaining portion of the branch circuit.
2. Where a branch circuit is wired with metal outlet and junction boxes and RMC, IMC, EMT or steel armored cable Type AC meeting the requirements of Section E3908.8, AFCI protection is not required for a branch circuit supplying only a fire alarm system.

REASON AND FISCAL IMPACT

This section will introduce AFCI protection for dwelling unit bedrooms. Data presented at the public hearing for LSA #09-139 show the marginal cost increase of \$250 associated with AFCIs will result in approximately 30 fewer home sales in a housing market of 20,000 units. Home suppliers can reduce profits by \$250 to sell these 30 homes; cost impact to suppliers is 30 homes x \$250 = \$7,500.

The ultimate \$250 cost of AFCIs is paid by the homeowner; assuming a 30 year mortgage at 6% interest, the cost of this change to the individual homeowner is ≈ \$1.50 per month.

REVIEW RECOMMENDATION

Approve
Disapprove
Approve as amended
Further Study