

# Tentative Interim Amendment (TIA) Request Form

## Submitter's Information

Name: Click here to enter text.

Affiliation: (Technical Committee, company, organization): Click here to enter text.

Address: Click here to enter text.

City: Enter City.

State: Enter State

Zip: Enter Zip

Email Address: Click here to enter text.

Date: Click here to enter a date.

## Proposed TIA Information

NFPA Standard No.: 70

Editions affected (Current and/or Proposed): 2017

**Proposed text of the TIA (wording to be added, revised, how to be revised, or deleted):** [Note: Proposed text should be in legislative format; i.e., use underscore to denote wording to be inserted (inserted wording) and strike-through to denote wording to be deleted (~~deleted wording~~).]

**Proposed text of the TIA (wording to be added, revised, how to be revised, or deleted):**

### Section 725.144(B)

**(B) Use of Class 2-LP or Class 3-LP Cables to Transmit Power and Data.** Types CL3P-LP, CL2P-LP, CL3R-LP, CL2R-LP, CL3-LP, or CL2-LP shall be permitted to supply power to equipment at a current level up to the marked ampere limit located immediately following the suffix LP and shall be permitted to transmit data to the equipment. For ambient temperatures above 30°C (86°F), the correction factors of 310.15(B)(2) shall apply. The Class 2-LP and Class 3-LP cables shall comply with the following, as applicable:

### Statement of the problem and substantiation for the TIA

725.144(B) inadvertently omitted that the temperature correction factors of 310.15(B)(2) applies to the ampacity of LP cabling. The change inserts that text in the first paragraph of 725.144(B) as mandatory text.

The NEC Correlating Committee, at the direction of the NFPA Standards Council, formed the Power over Ethernet Task Group (PoE Task Group) to address issues regarding the provision of power over Ethernet and communications conductors. Members of the PoE Task Group, including members of NEC Panel 3, NEC Panel 16, and the NEC Correlating Committee, are as follows: E. Gallo – Chair, M. A. Cardona, W. J. McCoy, R. Kusuma, R. Emplit, R. Foster, S. Kaufman, M. Shariff, A. Tassone, G. Straniero, J. Kacperski, R. Ivans, T. Pope, T. C. Coleman, J. Brunssen, J. Goergen, G. A. Zimmerman, L. Ayer, P. Vanderlaan, R. Anderson, C. Bullock, S. Stene, C. Jones, M. Ode, and T. Olechna. The PoE Task Group prepared this TIA. In accordance with the Standards Council's instructions, the task group was broad based and specifically included representation of those with knowledge and experience in telecommunications and Ethernet communications.

This TIA is separate from the other TIAs on Article 725 and Article 840 which were put together by the PoE Task Group.

## Emergency Nature of the Proposed TIA\*

Select one or all that apply as to why you believe the TIA is of an Emergency Nature:

- The standard contains an error or an omission that was overlooked during the regular revision process.
- The NFPA Standard contains a conflict within the NFPA Standard or within another NFPA Standard.
- The proposed TIA intends to correct a previously unknown existing hazard.
- The proposed TIA intends to offer to the public a benefit that would lessen a recognized (known) hazard or ameliorate a continuing dangerous condition or situation.
- The proposed TIA intends to accomplish a recognition of an advance in the art of safeguarding property or life where an alternative method is not in current use or is unavailable to the public.
- The proposed TIA intends to correct a circumstance in which the revised NFPA Standard has resulted in an adverse impact on a product or method that was inadvertently overlooked in the total revision process or was without adequate technical (safety) justification for the action.

**\*NOTE: a TIA cannot be processed without identification of Emergency Nature above.**

### Detailed basis supporting that the TIA is of an Emergency Nature requiring prompt action:

By omitting the temperature correction factors of 310.15(B)(2) in 725.144(B), the code has created a new safety concern where LP cabling may present a previously unknown overheating hazard when LP cabling is used in ambient temperatures above 30C to its marked ampere limit. Such conditions would commonly occur in warm climates or high-temperature installations. This was previously unknown because the LP rating is new in NEC 2017.

## Additional Requirements

Please provide the written agreement of at least two members of the involved Technical Committee or Correlating Committee to the processing of the TIA. The agreement to the processing of the TIA is for the sole purpose to allow the TIA to be processed and does not imply support for the proposed text or emergency nature of the TIA.

**Mail to: Secretary, Standards Council • National Fire Protection Association  
1 Batterymarch Park • Quincy, MA 02169  
Fax No. 617-770-3500 or email to [TIAs\\_Errata\\_FIs@nfpa.org](mailto:TIAs_Errata_FIs@nfpa.org)**