Dear Ms. Bellis and Mr. Earley,

We understand there is currently an appeal pending before the Standards Council requesting the issue of TIA 1301. Please accept this as a letter of support for TIA 1301.

IEEE 802.3 has previously sent liaisons and comments expressing our concerns with the 2017 National Electrical Code® revision as it relates to Power over Ethernet (PoE).

We are aware and concerned that the wattage value alone listed in 840.160 is not sufficient to limit temperature rise on communications cabling. Ampacity, and not...

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1 This document solely represents the views of the IEEE 802.3 Working Group, and does not necessarily represent a position of the IEEE, the IEEE Standards Association, or IEEE 802.
wattage, is directly related to the temperature rise of the cable and is not specified in
the code text.

The NEC PoE Task Group was appointed by the NEC Correlating Committee as a
result of the July 2016 Standards Council Decision from a previous appeal. Three
proposed TIAs (1299, 1300 and 1301) relevant to power and data circuits, such as
PoE, were created, along with an additional nine public inputs. Significant effort was
put forth from the committee members along with, at times, a healthy debate. The
task group met by phone many times over several months.

TIA 1299 and 1300 balloted in CMP-3 were accepted on both technical merit and
emergency nature. TIA 1301 balloted in CMP-16 was accepted on technical merit,
but not on emergency nature. IEEE 802.3 supports both the technical merit and
emergency nature of TIA 1301

Issuing TIA 1301 resolves our request that an ampacity value be added to limit the
temperature rise of the cable. To provide a complete solution for power delivery over
communications cabling, such as Power over Ethernet, all three TIAs developed by
the task group should be issued.

The issues addressed by TIA 1301 have been fully discussed in IEEE 802.3 and
there is very strong consensus support.

Sincerely,

David Law
Chair, IEEE 802.3 Ethernet Working Group