

Subject 521

October 27, 2017

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Safety for Heat Detectors for Fire Protective Signaling Systems, UL 521, are being proposed:

1. Graph Modification for Fire Test Temperature Profile

STP BALLOTS AND ALL COMMENTS DUE: November 27, 2017

UL's goal is to have no interest category comprise more than one-third of the STP membership balance. To improve the current balance for STP 521, UL is looking for participants in the AHJ, Commercial / Industrial Users, Supply Chain, Testing & Standards Org. interest categories. Definitions for these interest categories are available on the Standards STP Internet site:

<http://ulstandards.ul.com/develop-standards/participation/interest-categories/>

If you are interested in applying for STP 521 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, paul.e.lloret@ul.com.

For your convenience in review, proposed additions to existing requirements are shown under "Proposed" and proposed deletions are shown under "Current".

1. Graph Modification for Fire Test Temperature Profile

RATIONALE

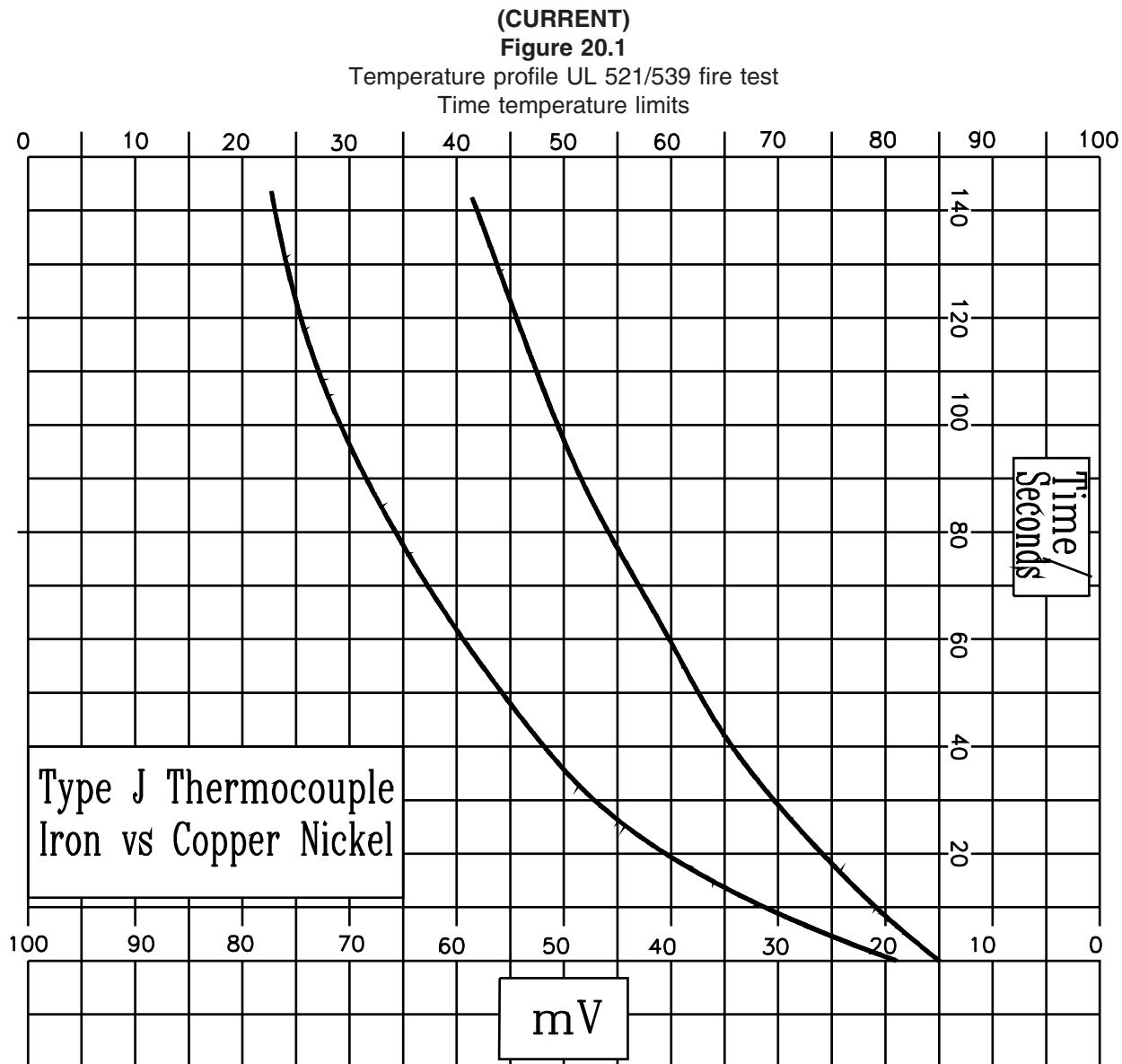
Proposal submitted by: Greg Radion, Apollo America Inc.

There is an issue with the temperature profile limit graphs in Figure 20.1. The scale of the bottom axis appears to read from 100 to 0 mV; however, it should be 10 to 0 mV (or the label should say mV x10), as if it were 60mV the temperature would be over 1000°C and type J thermocouples are only rated to 1200°C/70mV. Also, there is no mention of the thermocouple cold junction temperature that this profile is obtained with, which means there is an unknown offset to this graph if converting to temperature. Additionally, there is a scale from 0 to 100 at the top of this graph, which is undefined. Ideally the graph would be redefined with time on the x axis (like fig 19.1 in UL 521) and min/max temperature (not thermocouple mV) on the y axis. Upon further review, a new graph is being proposed as illustrated below.

PROPOSAL

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