

Consistent with UL/ANSI rule 3.2, i.e., “Initiation of a New Standards Activity,” the National Association of State Fire Marshals (NASFM) respectfully references four documents as justification for this proposal. Because of their length and different formats, full text of all four have been submitted directly to the management of the STP 60065 Audio, Video and Similar Electronic Apparatus - Safety Requirements and to the STP 60950 Information Technology and Telecommunication Equipment.

- NASFM Science Advisory Committee, “Recommendations Regarding an External Candle Ignition Standard for Information Technology Equipment and Consumer Electronics.” http://www.firemarshals.org/issues/home/computer_fires.html
- “Study on the ignition of ICT and Audio/Video equipment by external ignition sources” report of the International Electrotechnical Commission’s Technical Committee 108 Special Fire Research Group document TC 108/AGS/SFRG (Report/chairman)1, dated 2003-09-20.
- The NIST Technical Note 1461, “Full-Scale Flammability Measures for Electronic Equipment” by Matthew Bundy and Thomas Ohlemiller, National Institute of Standards and Technology (NIST), dated August 2004.
- “Television and Electronic Device Burn Demonstrations Product Aftermarket Evaluation,” prepared by Safety Engineering Laboratories, Inc., for the Consumer Electronics Association, dated June 2000. Available by request.

The proposal described below incorporates the best available requirements for both internal and external ignitions. The internal requirement already exists in UL 60065, but NASFM is pleased to submit it in this context as recognition of its effectiveness, and to ensure that it remains in effect with the addition of external ignition standards.

- I. International Electrotechnical Commission Candle Flame Ignition Standard 108/109A/DC dated 2004-06-25**
Technical Committee No. 108: Safety of Electronic Equipment within the Field of Audio/Video, Information Technology and Communication Technology
- II. Internal Ignition Standard contained within:
UL 60065, 7th Edition, “Audio, Video and Similar Electronic Apparatus—Safety Requirements,” dated June 30, 2003, ISBN 0-7629-0849-1, Section 20.2, Fire Enclosure, with the exclusion of section 20.2.3. In applying the interior ignition standard, the exterior enclosure shall be considered to be the fire enclosure.**
 1. Circuits and available components where available power exceeds 15 W
 2. Inductors and windings conductively connected to the mains
 3. Open circuit voltage of potential ignition source is limited to < 4 kV by an electronic protective circuit
 4. Open circuit voltage of potential ignition source does not exceed 4 kV at the moment the faulty connection or interruption occurs
 5. Open circuit voltage exceeds 4 kV