





## Public Input No. 69-NFPA 70B-2017 [ Section No. 9.1 [Excluding any Sub-Sections] ]

Electrical studies are an integral part of system design, operations, and maintenance. These engineering studies generally cover the following areas:

- (1) Short-circuit studies
- (2) Coordination studies
- (3) Load-flow studies
- (4) Reliability studies
- (5) Risk Assessment- ~~study~~
- (6) System grounding studies

### Statement of Problem and Substantiation for Public Input

A system grounding study should be undertaken to determine if the (usually solidly grounded) system is suitable for impedance grounding. There are methods for migrating solidly grounded power systems to impedance (resistance and/or reactive) systems. While there are exceptions, impedance grounded systems generally reduce incident energy for most power systems -- the top most goal for electrical professionals and facility managers in the education, healthcare and other industries. A committee under the IEEE Industrial Applications Society - the Education & Healthcare Facilities Committee -- has been advocating for recognition of this concept across the NFPA 70-suite. Background information is available at the link below:

<http://sites.ieee.org/icps-ehe/2016/10/12/resistance-grounding-in-campus-power-systems-to-reduce-flash-hazard-breakout-teleconference-october/>

<http://sites.ieee.org/icps-ehe/2016/09/25/university-of-california-berkeley-lawrence-national-lab-power-system-teleconference/>

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