



## DEPARTMENT OF ADMINISTRATIVE SERVICES

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May 6, 2020

Michael Musco, P.E.  
375 Morgan Lane, Unit 307  
West Haven, CT 06516

**I-20-05**

Re: Interpretation of 2017 National Electrical Code Article 110.16

Mr. Musco,

You requested a formal interpretation regarding the requirements of Article 110.16 of the 2017 National Electrical Code portion of the 2018 Connecticut State Building Code which states:

**110.16 Arc-Flash Hazard Warning.**

**(A) General.** Electrical equipment, such as switchboards, switchgear, panelboards, industrial control panels, meter socket enclosures, and motor control centers, that is in other than dwelling units, and is likely to require examination, adjustment, servicing, or maintenance while energized, shall be field or factory marked to warn qualified persons of potential electric arc flash hazards. The marking shall meet the requirements in 110.21(B) and shall be located so as to be clearly visible to qualified persons before examination, adjustment, servicing, or maintenance of the equipment.

**(B) Service Equipment.** In other than dwelling units, in addition to the requirements in (A), a permanent label shall be field or factory applied to service equipment rated 1200 amps or more. The label shall meet the requirements of 110.21(B) and contain the following information: (1) Nominal system voltage, (2) Available fault current at the service overcurrent protective Devices, (3) The clearing time of service overcurrent protective devices based on the available fault current at the service equipment, (4) The date the label was applied.

**Question 1:**

Does Article 110.16 require an arc flash study be performed when a new electrical service is installed?

**Answer 1:**

No, this section only requires that appropriate warning signage be installed. Part (B) contains additional information requirements for labeling services rated at 1200 amps or more, which would require determining the fault current at the service equipment in accordance with article 110.9. See the commentary for part B:

*The available short-circuit current must be known at the time of installation in order to comply with the interrupting requirements of 110.9 and 110.10. this information is necessary to determine the incident energy and working distance for compliance with NFPA 70E for future work on the service equipment.*

Sincerely,

A handwritten signature in blue ink, appearing to read "JCassidy".

Joseph V. Cassidy, P.E.  
State Building Inspector

Cc: Darren Hobbs, Deputy State Building Inspector