



Thomas & Betts

ANALYSIS OF NEC ®

2017 Code Changes: Article Section 620.51(E), 645.18, 670.6,
and 695.15 Surge Protection
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620.51(E) Surge Protection. Where any of the disconnecting means in 620.51 has been designated as supplying an emergency system load, surge protection shall be provided.

645.18 Surge Protection for Critical Operations Data Systems. Surge protection shall be provided for critical operations data systems.

670.6 Surge Protection. Industrial machinery with safety interlock circuits shall have surge protection installed.

695.15 Surge Protection. A listed surge protection device shall be installed in or on the fire pump controller.

Analysis of the Change

A new Section (E) was added to Section 620.51. The addition of surge protection for equipment designated as emergency equipment will add to reliability and safety.

A new Section 645.18 was added to Article 645. This change correlates with 708.20(D) for Critical Operations Power Systems. Critical Operations Data Systems serve critical operations that deal with public safety, emergency management, national security, and business continuity. It is critical that protection is provided to ensure reliable power.

A new Section 670.6 was added to Article 670. The surge protection device is necessary to provide protection for industrial machinery with safety interlock circuits. These devices are already required to be listed by 285.5.

A new Section 695.15 was added to Article 695. The surge protection device is necessary to provide protection for the fire pump controller. The location and type of surge protection device is a design issue and should remain with the designer and/or installer. These devices are already required to be listed by 285.5.

Products

Joslyn Surge Protective Devices



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Contact Us

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Disclaimer: This is not intended to be an iteration of all the changes, but a reference of a change that may affect the Thomas & Betts, ABB & Baldor product lines. For a more in-depth document, please contact the International Association of Electrical Inspectors at www.iaei.org.

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