

2007 NESC® CHANGES

NEWSLETTER

Issue 4 of 8

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McGraw-Hill's NESC® 2007 Handbook

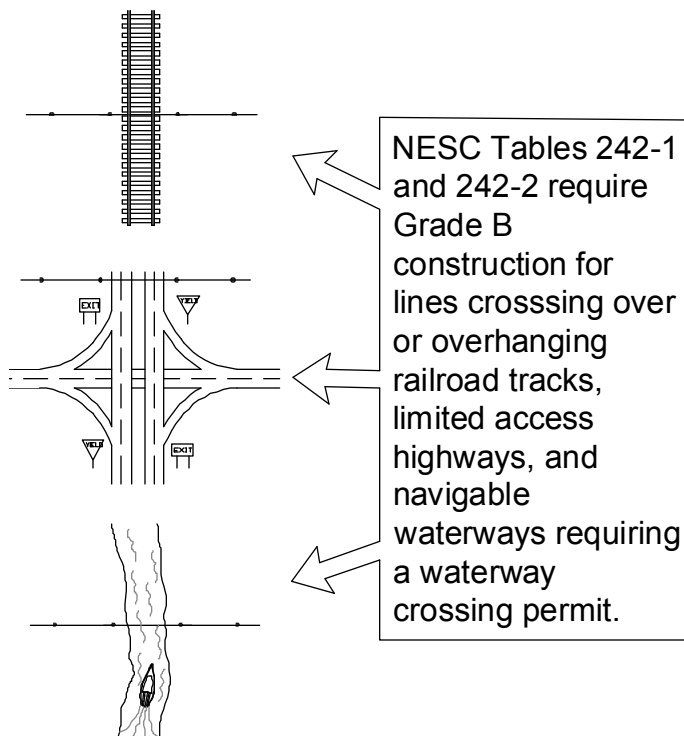
A welcomed companion to the NESC®, *McGraw-Hill's National Electrical Safety Code® (NESC®) 2007 Handbook*, authored by David J. Marne, PE, has been published and is available for purchase at www.codehandbook.com.

Focus on Changes

This month we are focusing on modified Rule 241C titled "[Application of grades] At crossings" and new Rule 250D titled "Extreme ice with concurrent wind loading."

Modified Rule 241C, Application of grades at crossings

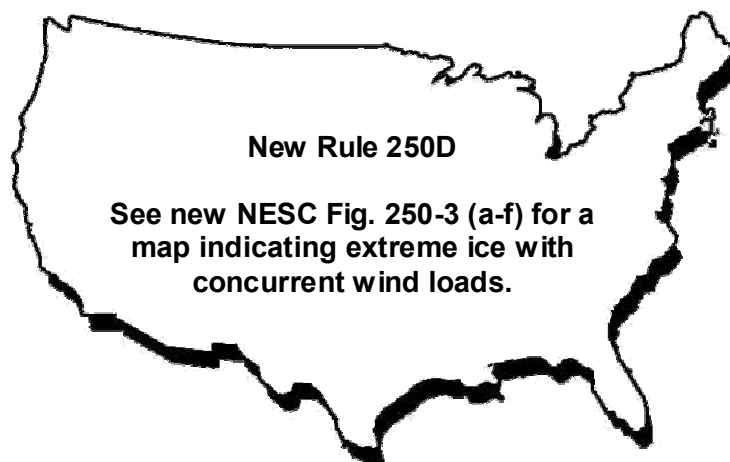
Modified Rule 241C now includes navigable waterways requiring a waterway crossing permit in the list of items considered to be at crossings. NESC Tables 242-1 and 242-2 were modified to add navigable waterways to the Grade B construction requirements. It has been a long standing requirement to provide Grade B construction for lines crossing over railroad tracks and limited access highways. A third item has been added to this list, navigable waterways requiring a waterway crossing permit. See the figure below.



New Rule 250D, Extreme ice with concurrent wind loading

New Rule 250D, Extreme ice with concurrent wind loading, is presumably the biggest change in the 2007 NESC. The addition of Rule 250D necessitated changes to rules throughout the strength and loading sections in overhead lines. Rule 250D applies to structures and their supported facilities greater

than 60 feet above ground. Extreme ice with concurrent wind maps are now provided in new NESC Figure 250-3(a-f). This change primarily affects transmission line designers due to the 60 foot height requirement; however, distribution line designers are also affected if the 60' height requirement applies. Rule 250A1 was modified due to new Rule 250D. Rule 250A1 requires that three weather loadings be applied to overhead line designs if applicable. The three weather loadings are Rule 250B (Heavy, Medium, and Light Loading), Rule 250C (Extreme Wind Loading), and new Rule 250D (Extreme Ice with Concurrent Wind Loading). Where all three rules apply, the loading must be based on the worst case of the three rules.



Training Options

Public Seminars Across the USA

During the months of January and February, Marne and Associates will be presenting a one-day seminar entitled *Major Changes and General Overview of the 2007 NESC®* at the following locations:

January Schedule

Omaha on January 9, 2007

Kansas City on January 11, 2007

Phoenix on January 30, 2007

February Schedule

Sacramento on February 1, 2007

Salt Lake City on February 13, 2007

Newark on February 27, 2007

On-Demand NESC® Seminar Now Available!

Flaming Hot 2007 NESC® Changes is a 60 minute recorded presentation that is available to view at any time, in any location.

Please visit www.marneassociates.com to register for any of our training sessions.

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