



NESC and OSHA Newsletter

Marne and Associates, Inc.

October 23, 2017

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This past year, our newsletter has focused on the significant changes to the 2017 NESC Code Rules. This month we are finishing our *Major Changes* discussion with our final topics, NESC Rules 410 (Arc Hazard Analysis), 420K (Fall Protection), and 441 (Minimum Approach Distance).

Part 4 of the NESC: Work Rules for the Operation of Electric Supply and Communication Lines and Equipment

The Part 4 Work Rules are similar to the requirements in OSHA Standard 1910.268 (for Communication Workers) and OSHA Standard 1910.269 (for Power Workers).

OSHA Standard 1910.269 (for Power Workers) was updated in 2014. This update occurred in the middle of the NESC 5-year cycle (2012 to 2017). Many of the Major Changes in Part 4 of the 2017 NESC are similar to the changes that occurred in OSHA 1910.269 in 2014.

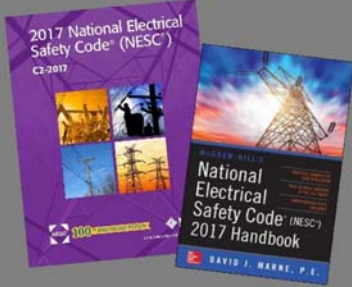
NESC Rule 410 Arc Hazard Analysis

NESC Rule 410 contains requirements for an arc hazard analysis. Rule 410A3b now requires covering the entire body with arc rated clothing with specific exceptions as noted in the Rule. These same requirements can be found in OSHA Standard 1910.269(l)(8)(v).



To learn more about this Rule and other changes, click the links to left.

NESC Rule 420K Fall Protection



Books

McGraw-Hill's NESC 2017 Handbook
by David J. Marne (\$99)
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2017 IEEE National Electrical Safety Code (NESC) (\$210)
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NESC Rule 420K contains requirements for fall protection. This Rule now basically prohibits free climbing a wood pole with some exceptions. This same requirement occurred in OSHA 1910.269.

One interesting note is that NESC Rule 420K applies to both power and communication workers. This is the first time that a communication worker has seen this change as OSHA Standard 1910.268 (for Communication Workers) has not yet been updated to add wording that fall protection is required while climbing. Many communication companies have recognized the change in the NESC and have provided the appropriate training to their employees that climb wood poles.



To learn more about this Rule and other changes, click the links to left.

2017 NESC Major Changes 90 Minute Webinar

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Only available until December 31, 2017!

NESC Rule 441 Minimum Approach Distances

NESC Rule 441 contains requirements for minimum approach distance (MAD). The Minimum Approach Distance tables in the NESC have been updated. Similar changes occurred to the Minimum Approach Distance tables in OSHA 1910.269. The NESC took an extra step and defined the terms "reach" and "extended reach" in Rule 441A1d, Note 4.

For more info, see Fig. 43-1 below which is from **McGraw Hill's NESC 2017 Handbook by David J. Marne:**

Last Chance to schedule a 2017 NESC Major Changes In-House Seminar!



Presented by David Marne

Our 2017 NESC Changes In-House Seminar will only be offered through 12/31/2017.

Schedule now!

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Marne and Associates provides expert witness services relating to the National Electrical Safety Code, OSHA, and GO 95.

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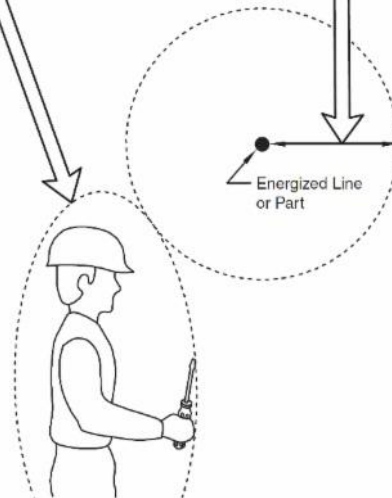


Minimum Approach Distance:

- Employees must not approach or bring any conductive object within the minimum approach distance.
- The minimum approach distance contains an electrical component and an inadvertent (i.e., unintentional or unexpected) movement component.
- Communications worker minimum approach distances are found in **NESC Table 431-1**. (A similar table is found in OSHA 1910.268.)
- Supply worker minimum approach distances are found in **NESC Tables 441-1 through 441-5**. (Similar tables are found in OSHA 1910.269.)
- Supply workers can work inside the minimum approach distance if additional live-line rules are followed.
- Communications workers may not approach closer than the minimum approach distance.

Reach or Extended Reach:

- Reach is defined as the range of anticipated motion of an employee while performing a task.
- Extended reach is defined as the range of anticipated motion of a conductive object being held by an employee while performing a task.
- Anticipated motions include:
 - ✓ Adjusting a hardhat
 - ✓ Maneuvering tools
 - ✓ Reaching for items being passed to the employee
 - ✓ Adjusting parts
 - ✓ Adjusting work positions, etc.



To learn more about this Rule and other changes, click the links to left.

Newsletter Archives

This past year, our newsletters focused on the Major Changes in the 2017 NESC. If you missed any of these newsletters, click below.

August 10, 2016 - Newsletter

* 2017 NESC Changes: Rule 096C Ground Resistance Requirements for Multi-Grounded Systems

September 7, 2016 - Newsletter

* 2017 NESC Changes: Rule 110A1 Types of Enclosures for Electric Supply Stations (Adjacent Fence Restrictions)

October 27, 2016 - Newsletter

* 2017 NESC Changes: Rule 215C2a Grounding or Insulating Anchor Guys

November 29, 2016 - Newsletter

* 2017 NESC Changes: Rule 231B1 Clearance of supporting structures from streets, roads, and highways where there are curbs

January 3, 2017 - Newsletter

* 2017 NESC Changes: Rule 238C and Table 238-2 Grounding street light brackets in the Communication Worker Safety Zone

February 14, 2017 - Newsletter

* 2017 NESC Changes: Rules 250B, 250C, and 250D Loading

Requirements (What didn't change)

May 9, 2017 - Newsletter

* 2017 NESC Changes: Rules 320B5 and 354A2 Separation from Gas Lines



Marne and Associates, Inc.
Experts in Electrical Code

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