

NESC and OSHA Newsletter May 9, 2017

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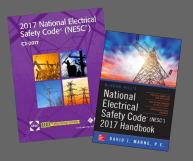
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<u>Books</u>

McGraw-Hill's NESC 2017 Handbook by David J. Marne (\$99) <u>Order Now! In Stock!</u>

2017 IEEE National Electrical Safety Code (NESC) (\$210) <u>Order Now: In Stock!</u>

2017 NESC In-House Seminars For the next several newsletters, we will discuss significant changes to the 2017 NESC Code Rules. The topics for this newsletter are:

NESC Rule 320B5 Separation from Underground Installations, Gas and Other Lines that Transport Flammable Material

Rule 320B5, which appears in Section 32, applies to conduit systems. A conduit system is now defined in Rule 302. A conduit system is the combination of duct, conduit, conduits, manholes, handholes, and/or vaults joined to form an integrated whole. This type of system is typically found under a big city, not in a residential subdivision. Rule 320B5 address radial separation of conduit from gas or other lines that transport flammable material. Changes to this Rule include making the measurement to the nearest duct in the conduit, and added exceptions for communication cables and supply cables operating at not more than 600 V between conductors.

Fig. 320-10 from McGraw-Hill's NESC 2017 Handbook is shown below for more information.

Underground conduit (supply or communications) Gas or flammable material line. Radial separation measured from the nearest duct in the conduit not less than 12" AND sufficient separation for pipe maintenance equipment. · Conduit shall not enter the same manhole, handhole, or vault with gas or flammable material lines. Exceptions apply to communication cables and supply cables operating at not more than 600V between conductors. Supplemental mechanical protection must be evaluated and the utilities involved must agree. See Rule 095B2 for separation between supply system grounds and high pressure das lines. Fig. 320-10. Radial separation from gas or other line that transports flammable material

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



Presented by David Marne

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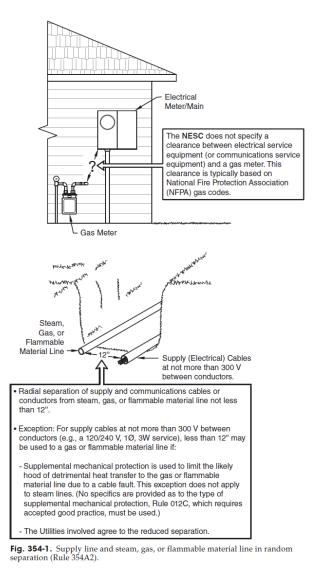


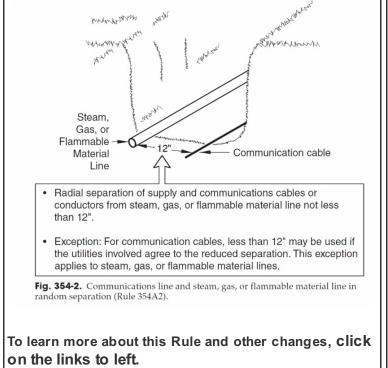
NESC Rule 354A2 Random Separation (less than 12 inches) of Supply and Communication Cables or Conductors from Steam Lines, Gas, and Other Lines Transporting Flammable Material

Rule 354A2, appears in Section 35 which applies to directburied cable and cable in duct not part of a conduit system. The terms duct, conduit, and conduit system are now defined in Rule 302. Direct-buried cable and cable in duct not part of a conduit system are typically found in a residential subdivision.

Rule 354A2 addresses radial separation (less than 12 inches) of supply and communication cables or conductors from steam lines, gas, and other lines transporting flammable material. This rule already contained an exception for supply cables operating at not more than 300 V between conductors. The change is adding communication cables to the exception.

Figs. 354-1 and 354-2 from McGraw-Hill's NESC 2017 Handbook are shown below for more information.







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