

## Instructions on Accessing the Archived Revision Information for Correlation with the 2017 NEC Summary of Changes Document

1. Using the Summary of Changes document, identify whether a change was the result of a First or Second Revision. With that information view the background information for a change using the First or Second Draft Report as applicable. Changes made in the Second Draft Report will also include links to any related First Revisions and associated Public Inputs. Having the First Draft Report and Second Draft Report open simultaneously simply requires opening two separate windows.

2017 NEC® Summary of Changes		
NEC Section	First Revision/Second Revision	Synopsis of Change
<b>Article 90</b>		
90.2(A)	FR1	Revision to clarify some NEC rules apply to removals.
90.2(B)	FR2	Revision to include "Energy Storage" to the list of NEC scope exclusions.
90.3	FR3	Revision to permit Chapters 5, 6, and 7 to modify each other.
90.7	SR1	Revision to require suitability of product safety standards to be compatible with the Code.
90.8(B)	FR4	Editorial
<b>Article 100</b>		
Scope	FR-6	Revision to specify the Part I definitions apply for electrical systems operating at 1000 volts or less and Part II definitions apply for electrical systems operating over 1000 volts.
Accessible, Readily (Readily Accessible)	SCR35	Revision to clarify that ready access is not precluded by the use of keys. New Informational Note covering supervised or controlled conditions.
Associated Apparatus	FR 3010	Relocation to Article 100 because the term is used in more than one article.

2. Go to [www.nfpa.org/70](http://www.nfpa.org/70) . The NFPA codes and standards development system can be used with most of the recent versions of Google Chrome, Firefox and Internet Explorer.

The screenshot shows a web browser window displaying the NFPA website. The address bar shows the URL [www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=70](http://www.nfpa.org/codes-and-standards/all-codes-and-standards/list-of-codes-and-standards/detail?code=70). The website header includes the NFPA logo, navigation links (Catalog, NEC®, NFCSS, Xchange™, NFPA Journal®, Sparky®, Fire Sprinkler Initiative®, Firewise USA™), and user information (Jeffrey Sargent My Profile, Sign Out, Cart (1)). A search bar contains the text "NEC® TOOLKIT OFFER". A red navigation bar lists categories: CODES & STANDARDS, NEC®, NEWS & RESEARCH, TRAINING & EVENTS, PUBLIC EDUCATION, and MEMBERSHIP. Below this is a banner for "CODES & STANDARDS" with a background image of two men. The breadcrumb trail reads: Codes & Standards / All codes & standards / List of NFPA codes & standards / NFPA 70. The main content area features the title "NFPA 70" with options to "Choose another Code/Standard" and "Receive Email Alerts". Below the title is the heading "National Electrical Code®" and a paragraph: "Adopted in all 50 states, the NEC is the benchmark for safe electrical design, installation, and inspection to protect people and property from electrical hazards." The current edition is listed as "Current Edition: 2017" with a "View Document Scope" link. A "View this Document" section contains two buttons: "FREE ACCESS" and "SIGN IN TO NFCSS". At the bottom, a dark navigation bar contains seven buttons: "Current & Prior Editions" (highlighted in red), "Next Edition", "Technical Committee", "Ask a Technical Question", "News & Research", "Purchase Products & Training", and "Related Products".

3. Scroll down to “Archived Revision Information” for the 2017 NEC and click on “VIEW” for First Draft Report.

The screenshot shows the NFPA 70 website interface. At the top, there are navigation tabs: "Current & Prior Editions", "Next Edition", "Technical Committee", "Ask a Technical Question", "News & Research", "Purchase Products & Training", and "Related Products". The "Current & Prior Editions" tab is active. Below the navigation is the "Archived Revision Information" section. Under this section, the "First Draft" tab is highlighted with a red box. Below the tab is a table with the following data:

Type	Document	Format/Size	
First Draft	First Draft Report		<a href="#">VIEW</a>
First Draft	Navigating the First Draft Report and Public Comment Submission Instructions	7.81 MB	<a href="#">VIEW</a> <a href="#">DOWNLOAD</a>

Below the table, there is a horizontal red line. Underneath the line is the "Second Draft" section, which also has a table with one row:

Type	Document	Format/Size	
Second Draft	Second Draft Report		<a href="#">VIEW</a>

4. Sign in to your NFPA profile or if first time user, create your NFPA profile. NFPA membership is optional when using the Codes and Standards Development platform.

The screenshot shows the NFPA website's login page. At the top, there is a navigation bar with links to various services: Catalog, NEC®, NFCSS, Xchange™, NFPA Journal®, Sparky®, Fire Sprinkler Initiative®, and Firewise USA™. Below this is a header with the NFPA logo and the text "NATIONAL FIRE PROTECTION ASSOCIATION" and "The leading information and knowledge resource on fire, electrical and related hazards". A search bar with a "NEC® TOOLKIT OFFER" button is also present. A red navigation bar contains links for CODES & STANDARDS, NEC®, NEWS & RESEARCH, TRAINING & EVENTS, PUBLIC EDUCATION, and MEMBERSHIP. The main content area is titled "Sign In Or Create Your Profile" and features a sign-in form. The form has two input fields: "\*E-mail Address or Member ID :" and "\*Password :". A "Sign in" button is located below the password field. To the right of the form are links for "Forgot your password?" and "Need help signing in?". A red box highlights the "Sign in" button and the "Not registered with NFPA? Create a Profile." link. The footer contains sections for "About Us", "Quick Links", and "Help", along with social media icons for Facebook, Twitter, LinkedIn, YouTube, Google+, Email, Pinterest, RSS, and Instagram.

5. Once signed in you will be directed to the NFPA Standards Development site. Use the Table of Contents to navigate.

NFPA 70 - National Electrical Code® 2014 Edition

**NFPA STANDARDS DEVELOPMENT SITE**  
**FIRST DRAFT REPORT**  
Released Version Closing Date: July 17, 2015

NOTE: All Public Comment must be received by 5:00 pm EST/EDST on the published Closing Date.  
Welcome jsargent@nfpa.org!

**IMPORTANT NOTE:** Changes to browser software sometimes results in unexpected behavior. This site has known issues with specific releases of Google Chrome (ver. 34) and Internet Explorer 8 (ver. 8.0.7601.17514). If you received XSLT Forms Exceptions errors when using Chrome, or if you are having difficulty submitting Public Comments using Internet Explorer 8, please try using Firefox or a different version of your chosen browser.

**Welcome to the NFPA Standards Development Site**

This is the entry point for anyone who wants to participate in the NFPA Standards development process. The first stage of the development process is called the Input stage, as described in the Regulations Governing the Development of NFPA Standards at Section 4.3. In this stage, you can propose changes to an NFPA Standard that the responsible Technical Committee (and, where applicable, Correlating Committee) will consider when developing the next edition of a standard. These proposed changes are called Public Inputs, which you can create and submit electronically in this section of the site.

In this section, you can submit a Public Input to:

- Add New Section(s)
- Revise Existing Section(s)
- Create a Global revision to add, modify, or delete a word or phrase throughout the entire document.

Click on the appropriate icon above to get instructions on how to begin submitting your Public Input.

When you are ready to begin the Public Input process, please utilize the Table of Contents on the left side of this screen to navigate to the portion of the Standard where you want to propose a change.

Once initiated all Public Inputs are auto saved throughout the completion process. You will be given an opportunity to submit each Public Input (proposed change) to NFPA once you have completed all the required sections. Additionally, you may delete your submitted Public Input up until the Public Input closing date, as displayed on the top of the screen.

You may also elect to leave a partially completed Public Input in the system until you are ready to complete and submit it to NFPA. However, any un-submitted Public Input will be automatically deleted from the system on the Public Input closing date.

**What's Next?**

Once the Public Input closing date has passed, your submitted Public Input will be forwarded to the responsible Technical Committee to be addressed at a Public Input meeting where the committee reviews all Public Inputs and develops the First Draft of the new or revised standard.

All Technical Committee meetings are open to the public. For more information on committee activities and other information related to the standard of interest to you, please visit the "Doc Info" pages at [www.nfpa.org/aboutthecodes](http://www.nfpa.org/aboutthecodes), and select the appropriate standard from the List of NFPA Codes & Standards.

After the completion of the Public Input meeting and the balloting of the resulting First Draft by the Technical Committee (and, where applicable, the Correlating Committee), a report on the committee work is published (the First Draft Report), and you will receive notice

Table of Contents: NFPA 70

- Article 90 Introduction
- Chapter 1 General
- Chapter 2 Wiring and Protection
- Chapter 3 Wiring Methods and Materials
- Chapter 4 Equipment for General Use
- Chapter 5 Special Occupancies
- Chapter 6 Special Equipment
- Chapter 7 Special Conditions
- Chapter 8 Communications Systems
- Chapter 9 Tables
- Informative Annex A Product Safety Standards

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- Expand Chapters, Articles, Sections and First Subdivisions to locate sections that have had Public Inputs and First Revisions. Click on any link to get to beginning of Chapter, Article, Section or First Subdivision.

The screenshot displays the NFPA Standards Development Site for the First Draft Report. The browser address bar shows the URL: [submittalsarchive.nfpa.org/TerraViewWeb/ViewerPage.jsp?id=70-2014.ditamap&pubStatus=FDR](http://submittalsarchive.nfpa.org/TerraViewWeb/ViewerPage.jsp?id=70-2014.ditamap&pubStatus=FDR). The page title is "NFPA 70 - National Electrical Code® 2014 Edition".

**Table of Contents: NFPA 70**

- + [Article 90 Introduction](#)
- + [Chapter 1 General](#)
- [Chapter 2 Wiring and Protection](#)
  - + [200 Use and Identification of Grounded Conductors](#)
  - [210 Branch Circuits](#)
    - [Part I. General Provisions](#)
    - [210.1 Scope.](#)
    - [210.3 Other Articles for Specific-Purpose Branch Circuits.](#)
    - [210.3 Rating.](#)
    - [210.4 Multiwire Branch Circuits.](#)
      - [210.4\(A\) General.](#)
      - [210.4\(B\) Disconnecting Means.](#)
      - [210.4\(C\) Line-to-Neutral Loads.](#)
      - [210.4\(D\) Grouping.](#)
    - + [210.5 Identification for Branch Circuits.](#)
    - + [210.6 Branch-Circuit Voltage Limitations.](#)

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- By clicking on 1<sup>st</sup> subdivision “210.4 (D)” it opens up that requirement and shows the First Revision (FR) in legislative text. The link identified as FR 322 takes you to the committee action. The link identified as “PIs” takes you to the (3) Public Inputs that were received to make changes to this section. Both of these links will open up a new page.

The screenshot shows a web browser window with the URL `submittalsarchive.nfpa.org/TerraViewWeb/ViewerPage.jsp?id=70-2014.ditamap&pubStatus=FDR`. The page title is "NFPA 70 - National Electrical Code®, 2014 Edition". The main heading is "NFPA STANDARDS DEVELOPMENT SITE FIRST DRAFT REPORT" with a closing date of July 17, 2015. A navigation bar includes links for "Revise Existing Section(s)", "Add New Section(s)", "Create a Global Revision", and "Complete Instructions". A note states: "NOTE: All Public Comment must be received by 5:00 pm EST/EDST on the published Closing Date. Welcome jsargent@nfpa.org!".

The left sidebar shows a "Table of Contents: NFPA 70" with a tree view. Under "210 Branch Circuits", "210.4 Multiwire Branch Circuits" is expanded, and "210.4(D) Grouping" is selected. The main content area displays the text for "210.4(D) Grouping":

**(D) Grouping.**  
 The ungrounded and grounded circuit conductors of each multiwire branch circuit shall be grouped by cable ties or similar means in at least one location within the panelboard or other point of origination, in accordance with 200.4(B).

*Exception:* The requirement for grouping shall not apply if the circuit enters from a cable or raceway unique to the circuit that makes the grouping obvious or if the conductors are identified at their terminations with numbered wire markers corresponding to the appropriate circuit number.

At the top of the text area, there are two links: "PIs (D)" and "FR-322 Hide Legislative". Both links are highlighted with red boxes in the original image.

The footer of the page reads: "Hello Jeffrey Sargent NFPA Document Information Pages" and "About".

8. Scroll down on this page to view all of the proposed changes suggested by the PIs.

Public Input No. 1685-NFPA 70-2014 [ New Section after 210.4(D) ]

**(E) Identification of Ungrounded and Associated Grounded Conductors.**

At the location indicated in 210.4(D), and at all other locations where it is possible to interrupt the integrity of the grounded (neutral) conductor of a multiwire branch circuit, all the ungrounded (phase or line) and grounded circuit conductors of each multiwire branch circuit shall be individually grouped by cable ties or similar means and identified as such. At all locations where more than one multiwire branch circuit is present, each separate multiwire branch circuit shall be uniquely identified whereby each grounded conductor is readily identified with the corresponding ungrounded conductors of that particular multiwire branch circuit. The means of identification shall be permanent by tagging or similar methods.

**Statement of Problem and Substantiation for Public Input**

Multiwire branch circuits are unique in that when the integrity of the grounded (neutral) conductor is compromised, a serious voltage imbalance can occur. The effect of such imbalance can place the safety of the individual(s) performing work on said multiwire branch circuit at risk. The possibility exists also for detrimental consequences to equipment connected to the multiwire branch circuit. Similarly, when an ungrounded (phase or line) conductor of a multiwire branch circuit is disconnected and reconnected to a different phase (line), there exists the potential for the grounded conductor of that multiwire branch circuit to operate at a current value that exceeds its ampacity. Where all the grounded and ungrounded conductors of a multiwire branch circuit are contained within a cable assembly, it could be readily indicated which are the associated conductors; however, when the conductors of a multiwire branch circuit are not part of a cable assembly—such identification is not readily apparent. The concern for the integrity of the grounded conductor is apparent in 300.13(B). Similar concern should be addressed at all points of a multiwire branch circuit, not just where device connections are present. To stipulate that only qualified personnel would perform work on multiwire branch circuits, and, therefore be cognizant of the associated hazards (i.e. voltage imbalance and grounded conductor ampacity) is to rely on a false premise. When an electrical professional encounters a multitude of conductors of varying colors, along with the need to perform the task in a timely manner, safety is not always paramount. This proposal will increase the level of safety by making the worker immediately aware of the multiwire branch circuit characteristics.

**Submitter Information Verification**

**Submitter Full Name:** MIKE LAST  
**Organization:** [ Not Specified ]  
**Street Address:**  
**City:**  
**State:**  
**Zip:**  
**Submission Date:** Wed Oct 08 10:00:35 EDT 2014

Close



9. The First Revision window shows the change, the committee statement, a link(s) to all of the related Public Inputs and the ballot results. They are shown at the bottom of the page.

https://inside.nfpa.org x NFPA 70: National Electri x TerraView™ x

submittalsarchive.nfpa.org/TerraViewWeb/ViewerPage.jsp?id=70-2014.ditamap&pubStatus=FDR

NFPA 70 - National Elec...

Print Save as Word Reload Page X Close

**NFPA** First Revision No. 322-NFPA 70-2015 [ Section No. 210.4(D) ]

Original Committee Hide Deleted

**(D) Grouping:**  
The ungrounded and grounded circuit conductors of each multiwire branch circuit shall be grouped by cable ties or similar means in at least one location within the panelboard or other point of origination, in accordance with 200.4(B) .  
*Exception- The requirement for grouping shall not apply if the circuit enters from a cable or raceway unique to the circuit that makes the grouping obvious or if the conductors are identified at their terminations with numbered wire markers corresponding to the appropriate circuit number.*

**Submitter Information Verification**

Submitter Full Name: CMP 2  
Organization: [ Not Specified ]  
Street Address:  
City:  
State:  
Zip:  
Submittal Date: Tue Jan 20 20:49:21 EST 2015

**Committee Statement**

**Committee Statement:** The panel has made this revision to Sec. 210.4(D) to simply now reference Sec. 200.4(B) for both ungrounded and grounded conductors.

**Response Message:**  
[Public Input No. 1684-NFPA 70-2014 \[Section No. 210.4\(D\)\]](#)

**Ballot Results**

✔ This item has passed ballot

13 Eligible Voters

Close

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10. The two significant code development steps in the NFPA codes and standards revision process are the First and Second Draft meetings with the resultant First and Second Draft Reports (FDR and SDR). Actions taken on Public Comments during the Second Draft meetings are documented in the Second Draft Report. Access to this report is from the NEC Document Information Page at the same location as the First Draft Report link. Access to and navigating through the Second Draft Report is done in the same manner as in the First Draft Report. The primary acronyms used in the SDR are PC (public comment) and SR (second revision). A SCR is a correlation revision made by the NEC Correlating Committee. A “Global” FR, SR or SCR is a change that occurs in multiple sections of the NEC.

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Type	Document	Format/Size	
Second Draft	Second Draft Report		<a href="#">VIEW</a>

The 'VIEW' button in the 'Second Draft' section is also highlighted with a red box.