



# Construction Codes Advisory Council



An overview of the National Electrical Code  
(NEC) adoption process

# This is where it all begins....



- Minnesota Statute [Chapter 326B](#) establishes the State Building Code
- Minnesota Rules [Chapter 1300](#) contains the administrative rules that establishes the various chapters of the State Building Code, including Chapter 1315
- Minnesota Rules [Chapter 1315](#) contains the administrative rules that adopts the National Electrical Code, by reference
- The [Board of Electricity](#) is empowered in 326B to adopt the NEC (in effect, pass a motion and request DLI to facilitate the adoption of the NEC)

# The SONAR

## Develop Statement of Need and Reasonableness (SONAR)

Attachment A

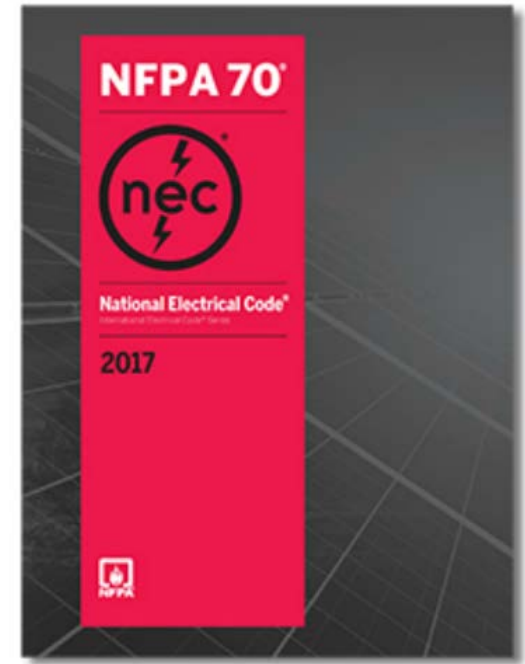
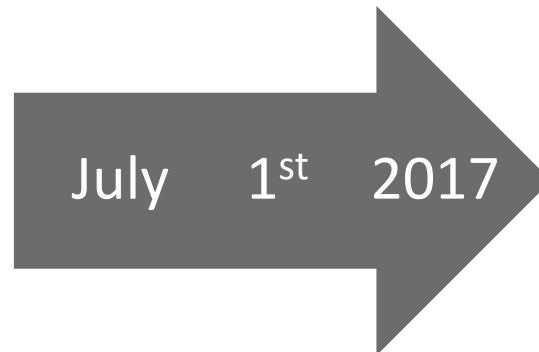
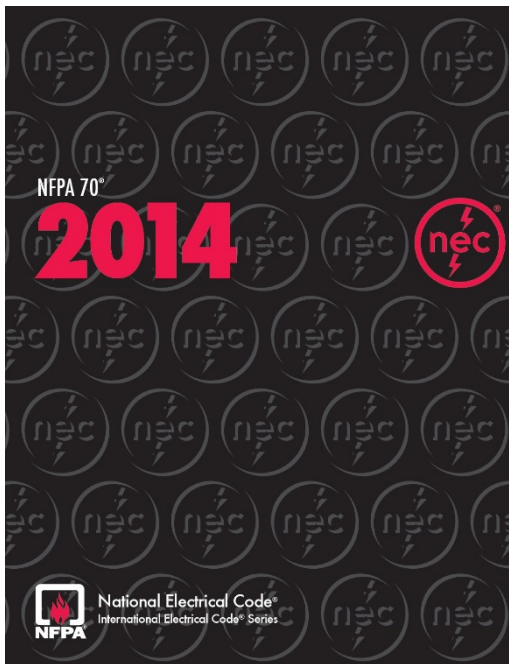


54.	Hearing – either held or cancelled (if held, add hearing steps: e.g., prepare hearing record, presentation, meet with staff, submit documents into record, post-hearing comment prep, post-hearing rebuttal prep, hearing record closed, ALJ report, etc.)	<b>3.7-9.17 (assuming no hearing)</b>
55.	Draft order adopting rule	3.15.17
56.	Draft and finalize Governor's Final Rule Form	3.16.17
57.	Send Governor's Final Rule Form – if no changes, ETA 7 days.	3.17.17
58.	Receive Governor's approval of Final Rule Form	3.27.17
59.	Assemble binder to go to OAH	3.28-4.10
60.	Submit binder to OAH (with draft Order Adopting) (ALJ has 14 days to review)	4.11.17
61.	ALJ approves rule (14 days = DATE DUE)	4.26.17
62.	Update rulemaking docket	
63.	Contingent – any recommended changes from ALJ? Disapproval? Decide how to proceed / get approvals, etc.	
64.	Department reviews any modifications to the rule	
65.	Send Governor's Final rule	5.10.17
66.	Receive Gov's office approval before submitting to OAH for filing with SOS	5.17.17
67.	Commissioner/Chair signs Order Adopting Rules	5.23.17
68.	Submit signed Order Adopting to OAH	5.25.17
69.	Send rule to OAH for filing with SOS	5.25.17
70.	Mail notice of filing with SOS to all who requested such notice	
71.	Update rulemaking docket – add date filed with SOS	
72.	Receive copy of notice of adoption from Revisor	6/16/2017
73.	Submit notice of adoption to SR (Tuesday before publication) (for 6/26)	6/20/2017
74.	Notice of Adoption published in SR on <b>6/26/2017</b> ; rule effective <b>7/1/17</b>	6/26/2017
75.	Update rulemaking docket	
76.	Receive stripped copy of final, adopted rule	



# The Adoption

Attachment A

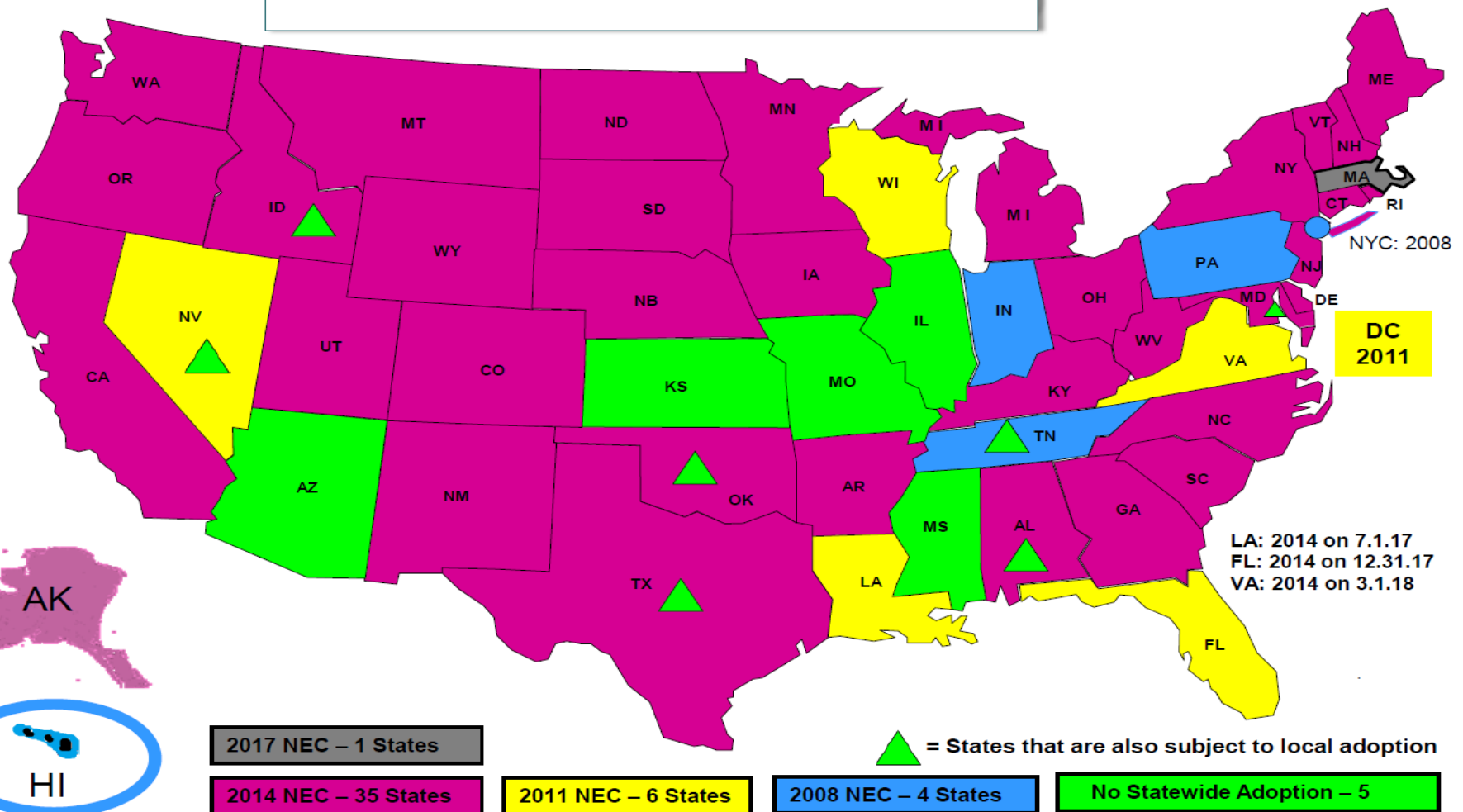


# NEC Adoption by State



## NEC Adoption by State

Revised – January 2017



# 2017 NEC “Big Changes”

Attachment A



- Expansion of the GFCI requirements in 210.8
- Requirements for floor receptacles in meeting rooms NEC 210.71
- Residential Docks have been added to the requirements of Article 555

# 210.8(B)



## GFCI Protection at Other Than Dwelling Units

- ▶ GFCI requirements for receptacles at commercial/industrial applications have been expanded to recognize ground faults other than 15 and 20 ampere, 125 volt applications only
- ▶ Expansion includes “Other Than Dwelling Unit” receptacles for:
  - All **single-phase** receptacles rated **150 volts to ground** or less, **50 amperes** or less
  - All **three-phase** receptacles rated **150 volts to ground** or less, **100 amperes** or less
- ▶ These GFCI requirements still include coverage of 125-volt, single-phase, 15- and 20-ampere receptacles



# 210.71 Receptacles for Meeting Rooms

Attachment A

- ▶ New provisions added for **receptacle outlets placement** and **wall spacing requirements** in **non-dwelling unit meeting rooms** such as found at hotels and convention centers
  - *Examples of rooms that are **not** meeting rooms include auditoriums, schoolrooms, and coffee shops*
- ▶ No previous *Code* requirement to provide receptacle outlets in meeting rooms of commercial or non-dwelling occupancies
- ▶ 125-volt, 15- or 20-ampere receptacle outlets installed in meeting rooms were due in part to building owners and designers recognize the need for access to electrical power for a multitude of different types of portable equipment





Attachment A



# Article 555 Marinas, Boatyards, and Commercial and Noncommercial Docking Facilities

Attachment A



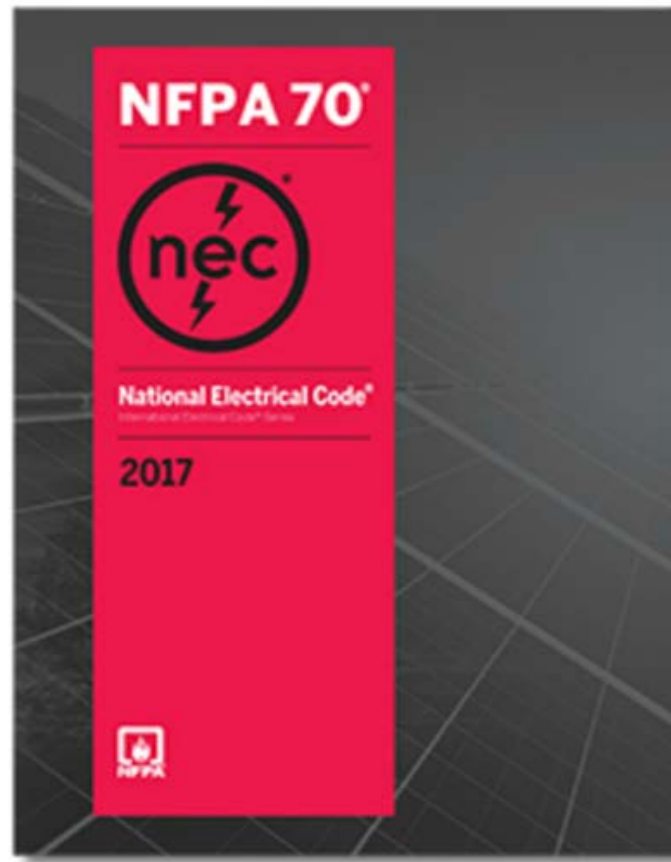
- ▶ Title of Article 555 was changed from “Marinas and Boatyards” to “**Marinas, Boatyards, and Commercial and Noncommercial Docking Facilities**”
- ▶ Revisions to 555.1 make Article 555 relevant to **dwelling unit docking facilities** as well as commercial docking facilities
- ▶ As previously written, the *NEC* rules in Article 555 would not apply to residential boat docking facilities, yet the majority of the rules in Article 555 would be necessary for implication at residential boat docks associated with single-family and multi-family dwelling occupancies
- ▶ Article 555 will now apply to all wiring, equipment, and electrical systems installed at boat docking facilities regardless of its location





# A little history of the NEC

Attachment A





# The Beginning of the NEC

Attachment A



## “National Electrical Code”

Special Edition

Of The

## Rules And Requirements

For The Installation Of

Apparatus and Wiring

For

Electric Light, Heat and Power.

Issued By

The National Conference  
On Standard Electrical Rules

No. 12 West 31<sup>st</sup> Street

Headquarters American Society of Mechanical Engineers

New York

1897

## The first National Electrical Code was drawn in 1897

At their 1894 meeting, the **National Board of Fire Underwriters** accepted full sponsorship and undertook the printing of the “Rules and Requirements of the National Board of Fire Underwriters”

March 24, 1911, the Underwriters’ National Electric Association relinquished control over the Electrical Committee to the National Fire Protection Association.

# NFPA Process for the 2017 NEC

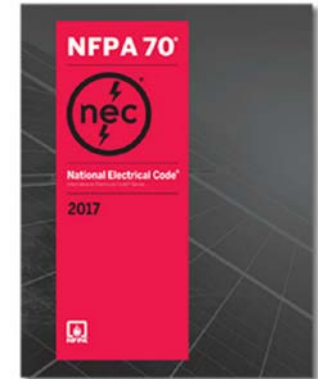
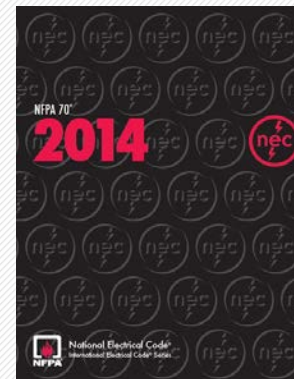
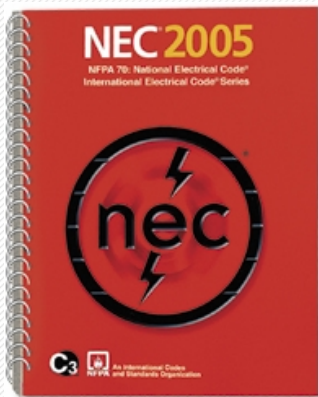


- Public Input
  - No membership or fee required
  - Deadline Oct 3, 2014 for paper / November 7 for e-PI
- PI Review
  - January 12 – 24, 2015
- First Draft Published July 17, 2015
- Public Comment
  - No membership or fee required
  - Deadline Aug 21, 2015 for paper / September 25, 2015 for e-PC
- Second Draft Published April 8, 2016
  - Annual Meeting and Appeals
- Standards Council Issuance August 11, 2016

# Looking ahead to the 2020 NEC



- September 7<sup>th</sup> , 2017- Public Input Closing Date
- July 6<sup>th</sup>, 2018- First Draft Posting Date
- August 30<sup>th</sup>, 2018- Public Comment Closing Date
- May 5<sup>th</sup>, 2019- Second Draft Report Posting
- June, 2019- Annual Meeting
- September, 2019- Printed 2020 NEC Available



# DLI- Electrical Division Licensing and Inspection Facts



- Over 6,000 Licensed Master Electricians
- Over 10,000 Licensed Journey Workers
- Over 2,600 Licensed Electrical Contractors
- Annually the department processes over 100,000 electrical permits
- Perform over 150,000 electrical inspections



# Questions?

