# Bell & TayMac Hour

## Topic: NEC Extra Duty

April 22, 2020

***NOTE:*** For those who are unable to attend we will be recording this training session for future reference and review….

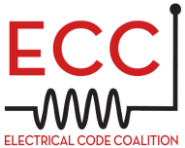
HUBBELL COMMERCIAL CONSTRUCTION

TayMac BELL OUTDOOR

# Topics







# Brand Overview


Founded 1989

In Phoenix, AZ

By Michael Shotey

30 Years

Over 180+ Patents

#1 Brand in Weatherproof While-In-Use Covers

Invented the 1st While-In-Use Weatherproof Cover

Founded 1946

In Chicago, IL

By Frank Belleck

73 Years

Invented the 1st W.P Box & Cover

#1 Brand in Weatherproof Boxes & Covers

"Bell Box"= "Kleenex"

# NEC – National Electric Code

**What is the NEC?**

- *The NEC is the National Electrical Code. The NEC's mission is to provide practical safeguards from the hazards that arise from using electricity. It is the most widely adopted safety code United States and the world, and it is the benchmark for safe electrical installations. The NEC is an evolving document, developed through an open consensus process.*

- *A new edition is issued every three years.*

**Notable:**

- In the United States and around the world, NFPA 70®, National Electrical Code® (NEC®), published by the National Fire Protection Association (NFPA), sets the foundation for electrical safety in residential, commercial, and industrial occupancies.
- Enforcement efforts, status, and the support of the Electrical Code Coalition, which works to increase focus and emphasis on electrical safety for persons and property through direct and full adoption, application and uniform enforcement of the latest edition of the *NEC*.

# 2020 Major Code Changes


**1. Surge Protection is Required for Dwelling Units**

New and replaced service equipment supplying dwellings are now required to be protected by listed Type 1 or Type 2 Surge Protective Devices. These protect electrical devices and appliances that may not be protected by point-of-use SPDs.

**2. NEW Ground Fault Circuit Requirements**

GFCI protection is now required in all 125-volt through 250-volt receptacles supplied by a single-phase branch circuits rated 150-volts or less to ground in eleven* locations of a dwelling. Dryer and range receptacles, common 250-volt receptacles in homes, require GFCI protection

New GFCI requirements include protection in non-dwelling locations and marinas.

**3. Outdoor Emergency Disconnects for Dwelling Units**

Outdoor emergency disconnects are now required for new construction, homes undergoing renovations, and homes having their service replaced. This allows first responders to respond to emergencies, such as a house fire, without potential electrical hazards. Emergency disconnects may be a service disconnect, a meter disconnect, or listed disconnect switches or circuit breakers on the supply side of each device disconnect suitable for use as service equipment.

# 2020 NEC Extra Duty Standard

**2014/2017 NATIONAL ELECTRIC CODE**

**(Adoption by State)**

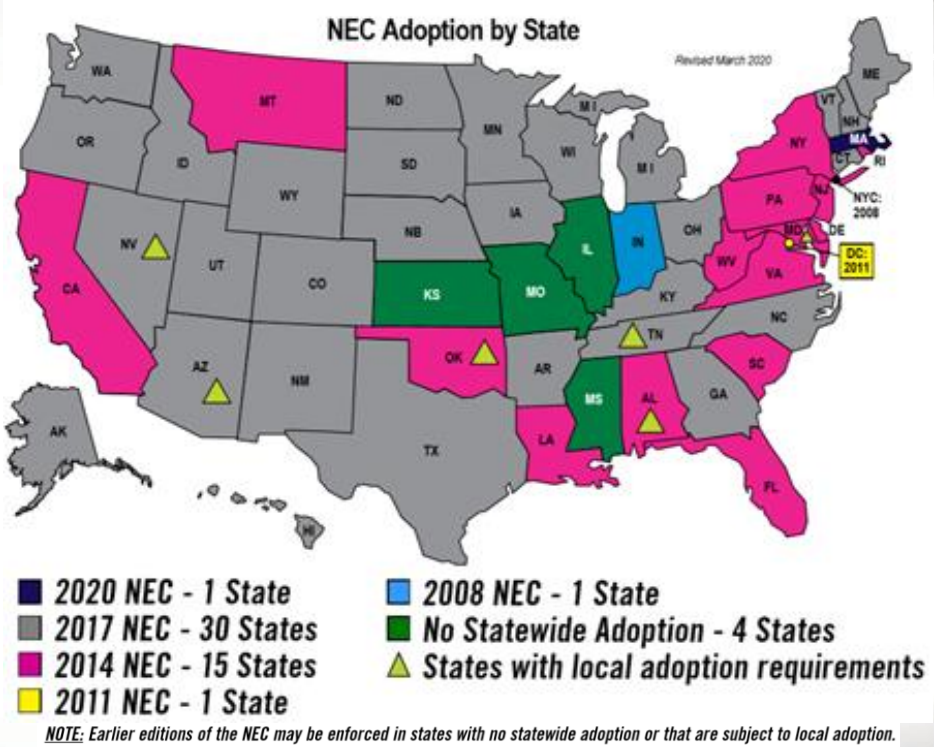
**406.9 Receptacles in Damp or Wet Locations**

**(b) Web Locations. (1) Receptacles of 15 and 20 Amperes in Wet Locations.**

**(1) Receptacles of 15 and 20 Amperes in a Wet Location**

Receptacles of 15 and 20 amperes, 125 and 250 volts installed in a wet location shall have an enclosure that is weatherproof whether or not the attachment plug cap is inserted. An outlet box hood installed for this purpose shall be listed and shall be identified as “extra duty”. Other listed products, enclosures, or assemblies providing weatherproof protection that do not utilize an outlet box hood need not be marked “extra duty”

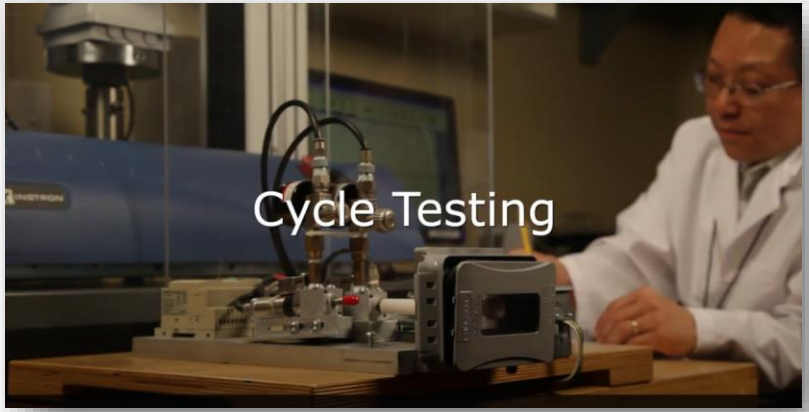
**Informational Note:** “extra duty” identification and requirements are not applicable to listed receptacles, faceplates, outlet boxes, enclosures or assemblies that are identified as either being suitable for wet locations or rated as one of the outdoor enclosure-type numbers of NEC

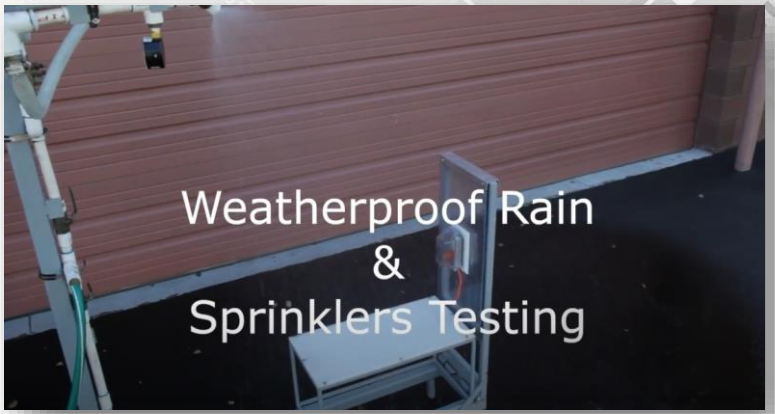


# YouTube Extra Duty Overview


URL Extra Duty YouTube Link: https://www.youtube.com/watch?v=ITye--sB55w

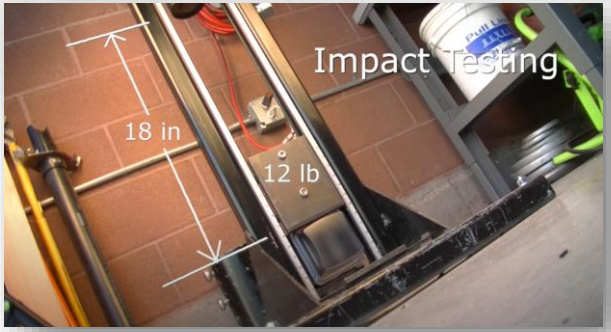
# Extra Duty Testing Methods Summary



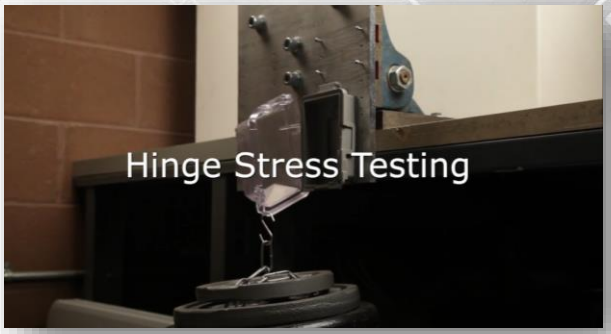





# Extra Duty Testing Methods Summary




Cover/Hinge must pass a 12 LB weight dropped at a height of 18 IN




Hinge must withstand a 40 LB weight suspended from one of the hinges and is held for a period of 5 seconds

Cover is then rotated 90 degrees and the test is repeated (side impact)


Test is repeated on the secondary hinge

# Resources/Colleterial Available

*TayMac "Get Tough With Extra Duty Weatherproof Covers!" Brochure*



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# *Q & A Session*

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