



# DBS Electrical Program Newsletter

2/1/2019

## NFPA 70 Code Revision Training and Idaho Negotiated Rulemaking process

DBS will be hosting a class by NFPA's Tim McClintock in February. Tim will be discussing the procedures used to follow the NEC code making process. Learn how to submit code changes, give public input on proposed language change and how to follow what is happening with the next edition of the code. DBS will present instruction on the negotiated rulemaking process to adopt new codes in Idaho. You can sign up for the class [here. https://www.eventbrite.com/o/the-division-of-building-safety-14643729552](https://www.eventbrite.com/o/the-division-of-building-safety-14643729552)

## Idaho Statutes and Rules

There were several rule changes presented to the Idaho Legislature this year. Old language was removed to reflect new technology. Much of the language in the rules helped to align the rules with the statutes. There were also a lot of clean up items. When the new rules are published they should be easier to read and understand. Two pieces of legislation are currently being ran. One would create an electrical installer license the other deals with apprentice requirements. You can find the bills and language at the following links.

<https://legislature.idaho.gov/sessioninfo/2019/legislation/S1008/>

<https://legislature.idaho.gov/sessioninfo/2019/legislation/S1009/>

## Available Fault Current, 2017 NEC 110.24

I have been receiving questions concerning the requirements to field label available fault current on other

than dwelling units. One of the questions is do we require the field label on pumps, accessory

## Stay Informed?



This is your industry and we want you to be informed. I try to send out information through this newsletter several times a year. My goal is to do this on a monthly basis but it does not always happen. If you are not receiving this newsletter get in touch with DBS licensing staff and make sure we have an up to date email address. You may also want to make sure these aren't going to your spam.

There is also a webpage that is specifically for electrical license holders and registrants. You can find that by going to the following link

<https://dbs.idaho.gov/programs/electrical/>

You can find newsletter archives, Program Manager Announcements, electrical policies, procedures and interpretations along with other useful information.

We are constantly adding continued education classes. The link to these classes can be found in the electrical program page or by following this link

<https://www.eventbrite.com/o/the-division-of-building-safety-14643729552>

Electrical Board meetings are held every three months. You can find out when the boards meet and what they discuss by going to the following link.

<https://dbs.idaho.gov/boards/>

buildings and detached garages that are on residential property. I do not believe this was the intention of the code. Although it is still required that equipment meet the available fault current rating, DBS will not require electrical equipment to be labeled that is in connection with the dwelling unit. If the

equipment is not connected to the dwelling unit, ie... agricultural pumps, barns or other commercial, industrial or agricultural structures then the labeling will be required. I understand that it can be confusing because some jurisdictions allow non-dwelling type structures or businesses on residential

zoned property. We also see dwelling units on agricultural property. The inspector and contractor along with the owner of the property will need to discuss the use of the equipment being installed and if it is in connection with the dwelling unit.

## *GFCI Protection for Personnel, 2017 NEC 210.8(B)*

The next question that has been coming up is how to treat detached garages on residential property. Are they “other than dwelling units.” The NEC states that, “in other than dwelling units all single-phase receptacles rated 150 volts to ground or less, 50 amperes or less and three phase receptacles rated 150 volts to ground or less, 100 amps or less installed in other than dwelling unit garages are to be GFCI protected”. There has been some inconsistency in how this is being applied to “detached garages” on residential property. Here again we will need to look at the actual use of the structure. If the structure is in fact a “detached garage” that is connected for use with the dwelling unit this code will

not apply. If the “detached garage” is being used for or as a commercial building, garage or manufacturing facility then it is not a “detached garage”, but an “other than dwelling Unit” structure. If it is determined to be an “other than dwelling unit” structure the tamper-resistant receptacle requirement of 406.12 will not apply. The inspector will need to determine the use of the actual structure by discussing it with the contractor and or homeowner.

## *Recreational Vehicle Services*

Recreational Vehicle parks are discussed under Part VI of Section 551. Article 551.71(F) states that All 125 volt, single-phase, 15 and 20-ampere

receptacles shall have listed GFCI protection for personnel. I am interpreting this to modify the requirement for GFCI protection for all outside receptacles found in article 210.8. If an individual is installing a receptacle for a recreational vehicle in a residential setting then the receptacle would fall under 210.8 because it is not a recreational vehicle park.

## *Industrial Machinery Exemption from Approval and Certification (Listing)*

Idaho Statute Title 54, Chapter 10(5) states that the “Approval and certification requirements of product and equipment as

set forth in this chapter and in the adopted edition of the national electrical code do not apply to industrial machinery unless the board has made a determination that such product, machine or classes of products and machines present an undue hazard to life and property. The definition of “Industrial Machinery” can be found in article 670. The owner of Industrial Machinery may claim this exemption. It should be understood that, although the state of Idaho allows for this exemption, OSHA does not. The owner of such machinery is the only person that can claim the exemption, the installing contractor cannot. The owner is expected to understand that full responsibility for claiming this exemption is on the owner and not on the installing contractor. We have had situations where contractors have claimed the exemption and the owner of the machinery was not aware of the statutes regarding industrial machinery. OSHA was able to fine the owner for operating equipment that was not listed or approved. Inspectors, contractors and owners of such equipment need to understand the possible issues that may arise out of claiming this exemption.

## Manual S, J & D requirements for Primary heating and Cooling system.

Beginning January 1, 2019, the Division of Building Safety’s HVAC program started enforcing Manual S, J & D requirements on all **NEW RESIDENTIAL** permits within our jurisdiction.

How does this apply to you?

If you install the **PRIMARY HEATING and/or COOLING SYSTEM** under your Plumbing or Electrical Contractor permit (i.e. Hydronic systems, electrical baseboard or electric wall heaters etc.), you are required to adhere to the mechanical code requirements of Manual S, J & D stipulated under the International Residential Code.

All Manual S, J & D reports shall be submitted to the Division of Building Safety for review prior to scheduling an inspection for the **PRIMARY HEATING and/or COOLING SYSTEM** or the inspection request will not be conducted. A \$25 Plan Review fee shall be assessed to the Plumbing or Electrical permit for each Manual S, J & D review.

**THIS ONLY APPLIES IF YOU ARE INSTALLING THE PRIMARY HEATING and/or COOLING SYSTEM IN A NEW RESIDENTIAL DWELLING UNDER YOUR PLUMBING OR ELECTRICAL CONTRACTOR’S PERMIT WITHIN DBS’S JURISDICTION.**

For further information as to the Manual S, J & D review processes and field verification processes, please see visit our links at <https://dbs.idaho.gov/programs/hvac/> .

If you have any questions concerning Manual S,J, or D requirements, please feel free to contact...

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