**Question of the Month** – Calculation of loads in accordance with the National Electrical Code (NEC) requires knowledge of the amount of power consumed by the circuits, feeders, and service. Power is expressed in volt-amperes or watts. How many volt-amperes are drawn by the following (assume 100 percent power factor). *See correct answer on Page 2.*

1. A 4.5 kilowatt (kw), 240-volt single-phase water heater.
3. A 5 horsepower, 460-volt three-phase air compressor.

**Legislative Update**

If you are part of the electrical or telecommunications industries regulated by L&I, lawmakers are considering bills that may affect you. Bills must be introduced and passed out of committee by February 22 to remain available for consideration.

So far, only one bill has been introduced that may affect the electrical laws of RCW 19.28. This bill is not sponsored by L&I. You can get information about this bill by clicking on the hyperlinked bill number below. Review the bills and comment if you desire. A comment button is located to the right of the bill number on each webpage. You may also contact your legislator to share your opinion about any legislation by visiting the legislative website at: http://www.leg.wa.gov/LIC/Pages/hotline.aspx.

House Bill 1594 – Provides an allowance for line workers to work on anything in the communications worker safety zone and supply space on utility poles supporting electric utility transmission or distribution lines without licensing, certification, or permits and inspections. Currently, according to L&I Division of Occupational Safety and Health (DOSH) rules, all work in these spaces must be done by qualified electrical workers (i.e., line workers). The bill also allows the installation of electric utility-owned equipment between meter bases and meters.

**Rule Update – WAC 296-46B Revisions**

Based on advice provided by the TAC, and Electrical Board during their meeting in Tacoma on January 31, we will produce a Second Draft of the proposed rules and post them on the Rule Development page of our website shortly.

Soon, there will be a public comment period and hearing where everyone will be able to give advice about the rules.

For more details about the process, to view or download rulemaking documents including the Second Draft, visit the Rule Development page of our website or see the August 2018 Special Edition Electrical Currents newsletter.

If you have any questions, please contact Alicia Curry, at 360-902-6244 or Alicia.Curry@Lni.wa.gov.

**Invitation to a Stakeholder Meeting Near You**

We are holding 19 electrical stakeholder meetings in various locations across the state between January and May 2019. These meetings are an opportunity to talk in an informal setting. Check the schedule below and attend a meeting near you. We want to hear how we can better serve you, our customers and help you stay informed of any changes that might affect you and/or your business. Meetings are scheduled from 6 to 8 p.m. at the locations listed below. Meeting dates and addresses are posted on our Electrical Calendar webpage and distributed on the program email list. If you are not on the email list, you may join at our Electrical Email List webpage.
Exceptions Offered for Untimely Affidavits of Experience

Affidavits of experience must be submitted at the time of renewal of a training certificate. We have seen too many affidavits of experience denied because they were turned in later than allowed. We are improving our communication about requirements and offering a one-time exception as follows:

- Affidavits for legally obtained hours worked on or after June 30, 2014 are eligible for consideration if received before July 1, 2019. Hours worked before June 30, 2014, are not eligible.

  This exception applies to all affidavits received through June 30, 2019. We are reviewing untimely affidavits and crediting hours accordingly.

- Beginning July 1, 2019, trainees must turn in affidavits of experience for the prior 2 years within 180 days from the date when their certificate expires. Untimely affidavits will be denied.

The requirements above do not apply to hours worked by apprentices while registered in a recognized electrical construction trade apprenticeship.

For questions about this opportunity, please email us at ElectricalProgram@lni.wa.gov, or give us a call 360-902-5269.

Ugly Picture: If viewing this document online, click on the picture to open a larger image. How many electrical hazards can you spot with this property-owner installed service for an RV? Washington allows any property owner to perform electrical work regardless of qualifications. An inspector caught this unsafe installation before it killed someone. For bonus points, if this were energized, would it blow the overcurrent device supplying it? What would the voltage be across the 120-volt receptacles?

Answer to Question of the Month:

1) 4500 volt-amperes
   (4.5 kW X 1000 W/kW ÷ 1.0 power factor);

2) 1200 volt-amperes
   (10 amperes X 120 volts);

3) 6,311 volt-amperes
   (7.6 amperes X 480V X V3) See NEC Table 430.250 for 3-phase motor full-load current. V (square root) of 3 = 1.73 (3-phase power formula).