

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 1

Email to: ElectricalWAC@lni.wa.gov
as an attachment

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Specific Rule #: WAC 296-46B-210(8)

Date Received: 10/10/2019

Comment:

NOTES:

1. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
2. Limit each proposal to a single rule section. Use a separate copy for each proposal.
3. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:	October 10, 2019	Name:	Tim Hingtgen
Representing:	Washington Cities Electrical Code Committee	Telephone:	425-452-7911
Email Address:	thingtgen@bellevuewa.gov		

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

WAC 296-46B-210.052(C) Countertops. ~~(8) A receptacle in a wall countertop space shall be permitted to serve as the receptacle for a peninsular countertop space where the spaces are contiguous and the receptacle is located within 8 feet of the outside edge of the peninsular countertop.~~

2. Statement of Problem & Substantiation for Proposal: Note: State the problem that will be resolved by your proposal and substantiation for your proposal.

For peninsular countertop and work surfaces, the horizontal measurement was replaced with a square foot calculation to determine the number of receptacles required in the 2020 National Electrical Code. Historically, only one receptacle outlet has been required at a peninsular countertop regardless of the size of that peninsular. This change to this section in the NEC recognizes the need for and will require more than one receptacle outlet at larger kitchen peninsulas.

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 2

Email to: ElectricalWAC@lni.wa.gov
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Specific Rule #: WAC 296-46B-225(2)

Date Received: 10/10/2019

Comment:

NOTES:

- All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
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Date submitted:	October 10, 2019	Name:	Tim Hingtgen
Representing:	Washington Cities Electrical Code Committee	Telephone:	425-452-7911
Email Address:	thingtgen@bellevuewa.gov		

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

WAC 296-46B-225.030 Number of supplies. (2) For the purposes of NEC 225.30(A) and this section, a building/structure that is supplied from a remote service, may be supplied by no more than six feeders originating from the service equipment and with each feeder terminating in a single disconnecting means at the building/structure. The service equipment must contain overcurrent protection appropriate to each feeder. The building disconnecting means required by NEC 225.32 must be grouped, within sight and all be within 10' of each other.

2. Statement of Problem & Substantiation for Proposal: Note: State the problem that will be resolved by your proposal and substantiation for your proposal.

This language is no longer necessary since the National Electrical Code 2020 edition has added the following language: "225.30(B) **Common Supply Equipment.** Where feeder conductors originate in the same panelboard, switchboard, or other distribution equipment, and each feeder terminates in a single disconnecting means, not more than six feeders shall be permitted. Where more than one feeder is installed in accordance with this section, all feeder disconnects supplying the building or structure shall be grouped in the same location, and the requirements of 225.33 shall not apply. Each disconnect shall be marked to indicate the load served."

3. Check one: This proposal is original material This proposal is not original material
(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 3

Email to: ElectricalWAC@lni.wa.gov
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Specific Rule #: WAC 296-46B-334(1) through (4)

Date Received: 10/10/2019

Comment:

NOTES:

7. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
8. Limit each proposal to a single rule section. Use a separate copy for each proposal.
9. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:

October 10, 2019

Name:

Tim Hingtgen

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Washington Cities Electrical Code Committee

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1. Proposal: *Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).*

WAC 296-46B-334 Wiring methods and materials — Nonmetallic-sheathed cable.

010 Nonmetallic-sheathed cable.

(1) The building classification, for subsections (2), (3), and (4) of this section, will be as determined by the building official. For the purposes of this section, Type III, IV-HT and V may be as defined in the International Building Code adopted in the state of Washington. The installer must provide the inspector documentation substantiating the type of building construction and finish material rating(s) prior to any electrical inspection.

(2) This section replaces NEC 334.10(2). In multifamily dwellings, Type NM, Type NMC, and Type NMS cable(s) may be used in structures of Types III, IV-HT, and V construction except as prohibited in NEC 334.12.

(3) This section replaces NEC 334.10(3). In all other structures, Type NM, Type NMC, and Type NMS cable(s) may be used in structures of Types III, IV-HT, and V construction except as prohibited in NEC 334.12. All cable(s) must be concealed within walls, floors, or ceilings that provide a thermal barrier of material that has at least a 15-minute finish rating as identified in listings of fire-rated assemblies.

(4) This section replaces NEC 334.10(4). Cable trays in structures of Types III, IV-HT, and V construction, where the cable(s) is identified for the use, except as prohibited in NEC 334.12.

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

Washington State's early adoption of Type IV expansion of Mass Timber construction have caused unintended consequences. With the current wording in NEC 334-10, the change to the building code would allow Mass Timber buildings up to 18 floors to be wired with NM cable. The Code Panels for the NEC haven't addressed this yet because the International Building code doesn't go into effect until July 1, 2020. Unfortunately, Washington State decided to adopt this code 1 year early effective July 1, 2019. It was moved and seconded that a Tentative Interim Amendment to the WCEC (Washington Cities Electrical Code) be made that amends the code language in NEC 334.10(1)(2)(3)&(4) with "-HT" following each reference of Type IV construction. This language has been recommended by Lee Krantz, Building Plan Review Supervisor for the City of Bellevue and is also a WABO representative and State Building Code Council member. The added language would keep the status quo on the use of NM cables until the NEC code panels have had time to deal with the issue of expanding the use of NM cables to high-rise buildings.

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 4

Email to: ElectricalWAC@lni.wa.gov
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Specific Rule #: NEW SECTION – WAC 296-46B-334

Date Received: 11/6/2019

Comment:

NOTES:

10. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2018.**
11. Limit each proposal to a single rule section. Use a separate copy for each proposal.
12. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:

11-5-19

Name:

EVAN ACKERMANN

Representing:

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1. Proposal: *Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).*

012 Uses not permitted

(334.12(B)4 In wet or damp locations) except where enclosed in a weather resistant raceway, not exceeding 6 feet, and with the outer sheath of the cable continuous within the raceway to extend at least one half inch past the exit points of the raceway.

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

There are many installations that need an NM cable extended for a short distance on an outside wall in order to terminate in a panel, disconnect switch, outlet, or junction box. Outdoor panels, hot tub disconnects, HVAC unit disconnects, and general use outside switches and receptacles are typical of needing an NM cable extended from the crawl space to the end device. In the past this practice was accepted and, simply made common sense. In my 35 plus years in the trade I have never seen a problem with this type of installation. Since NEC 334.116 requires the outer sheath to be moisture resistant, there should be no reason to not allow the cable to be installed in a protected raceway within a damp or wet location provided the sheathing is intact the entire length of the raceway.

3. Check one:

This proposal is original material

This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 5

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-920(2)(f)(iv)(A)

Date Received: 11/13/2019

Comment:

NOTES:

13. All proposals must be received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.
14. Limit each proposal to a single rule section. Use a separate copy for each proposal.
15. ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING

Date submitted:	11/13/2019	Name:	Randy Hastings
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1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

296-46b-920 (f)

(A) Install line voltage controllers or disconnect switches external to HVAC/refrigeration equipment. Exception: If HVAC/R equipment is being replaced, this specialty may remove and replace a disconnecting means enclosure mounted on the surface of the HVAC/R equipment ~~with a like-in-kind disconnecting means enclosure~~ rated not more than 20 amperes and 120 volts using the existing wiring method. When performing this work, this specialty may install up to ten feet of raceway to provide physical protection for non-metallic cables, but the raceway may not terminate in a panelboard.;

2. Statement of Problem & Substantiation for Proposal: Note: State the problem that will be resolved by your proposal and substantiation for your proposal.

Allowing an 06A and 06B to replace the 120volt rated not more the 20 amperes disconnecting means enclosure with a like - in - kind allows them to remove and replace the disconnecting means with the same type. Most current installations only have a switch type disconnecting means. With any gas furnaces exceeding 83% efficient, it will require a condensate pump and a standard 120 volt outlet. Most mechanical rooms do not have another outlet located close enough for the condensate pump supplied cord to plug in so extension cords are used to supply power from another source located outside of the mechanical room.

Our proposal would allow for the replacement of a switch to a switch outlet combination, to provide power for associated accessories needed for the safe operation of the gas furnace or appliance. Total amperage of all equipment using this circuit may not exceed 20 amps or the rating of the over current protection device for this circuit.

Associated background information: Gas furnaces require 7.5 min amperage to max of 14.7 amperage .Condensate pumps require 120 volts with .5 amperage

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 6

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-945 (new paragraph)

Date Received: 11/13/2019

Comment:

NOTES:

16. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
17. Limit each proposal to a single rule section. Use a separate copy for each proposal.
18. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:	11/13/2019	Name:	Tena Riskey
Representing:	Northwest HVAC/R Association & Training Center	Telephone:	509-747-8810
Email Address:	tena@inwhvac.org		

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

296-46B -945

Qualifying for the journey level/specialty electrician competency examination when work was performed in a state that does not require electrician certification for the work performed. (10) After review and approval by the department, an individual may be granted work experience credit to take the journey level/specialty electrician's competency examination when an original notarized letter of work experience accompanied by documentation, see (7) above, that can be used to verify the individual has worked the hours being requested is provided by:

(a) An appropriately licensed electrical contractor, (b) Registered apprenticeship training director, (c) Nationally recognized contractor/labor organization, or (d) The individual's lawful employer.

(New Section) For 06a and 06b examination applicants with out of state experience from states that do not require electrical certification for work performed; The department will grant all previous work experience hours after a review and approval of an original notarized letter of work experience from the out of state employer/s, and to include if the examination applicant and the out of state employer are the same. The letter/s must describe the type of specialty electrical work performed, dates work performed, and the employer must have been a legal business with a state identification number.

Should the exam applicant not be able to obtain a notarized letter from an out-of-state employer/s, the exam applicant can obtain the following information from an applicable state agency and submit to the department for review and approval; work hours, with dates work was performed with an employer/s, and the employer/s state identification number.

All out-of-state work experience submitted to the Department must have been acquired within last three years from date of examination application.

These approved hours may not be credited towards qualification for general journeyman electrician.

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

Currently any Washington State electrical trainee can qualify to take the 06a or 06b appropriate examination once they completed the required field hours, and while working under the legal conditions of Washington State. Currently there are few to no work experience being accepted by the Department and at the most may be 1,000 or 2,000 hours, even for applicants that have up to 25 years of HVAC/R experience.

The current interpretation on not accepting all verifiable out-of-state hours is solely an assumption that field experience accrued in Washington State was of greater quality than field experience accrued from out of state. Applicant hours should be qualified based on out-of-state hours worked if applicant worked in their specific trade as related to scopes of work outlined in WAC 296-46B-920, and under the state's legal conditions.

Current department policy mandates that out-of-state letters of experience also require that the letter state the employee was 75% supervised for the first 4,000. This is near impossible to get for semi-experienced to experienced employees to obtain as those supervised hours were obtained years past and not within the last three years. Many examination applicants have ten to twenty years of experience and cannot possibly be able to find their first employer and request such a letter, nor would it have any value. Many examination applicants were also business owners from another state and need to have their accrued work experience treated the same and be able to notarized their experience and hours.

Notarized letters from out-of-state employers should not be the only option for exam applicants to obtain and get approved their previous work hours. Many times, an out-of-state employer will not respond to the request for a notarized letter, in a timely manner, or it at all. Many other cases are the previous employer and exam applicant/employee may not have a separated on good terms, and the Department of Labor & Industries has no authority to require the employer to submit a notarized letter of experience. Therefore, the exam applicant is at the mercy of a previous employer/s which is not a fair process for any individual to be limited in their career and growth, and be denied hours to take the exam.

The 06b and 06a scopes of work are identical to work this type of performed under HVAC/R contractors throughout the nation, and most all of these states do not require electrical certification, making it near impossible to get all of their out of state hours approved. This is a hardship to the HVAC/R industry not being able to get these applicants with years of past experience approved to take the 06b or 06a examination so they can help supervise and train electrical trainees in Washington State.

If all other states required an electrical certification for the HVAC/R trade, the process would be easy to verify through and letters of experience would not be required but that is simply not the case. And these examination applicants should not be denied any hours or examination when they were working legally in another state.

Each applicant will still be required to obtain 48 hours of CEU's and still must study the WAC laws of the state to successfully pass the exam.

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 7

Email to: ElectricalWAC@lni.wa.gov
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Specific Rule #: WAC 296-46B-920(2)(f)(iii) (New sub-paragraph)

Date Received: 11/13/2019

Comment: This is similar to stakeholder proposals 11 and 16

NOTES:

19. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**

20. Limit each proposal to a single rule section. Use a separate copy for each proposal.

21. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:

11/13/2019

Name:

Randy Hastings

Representing:

R&R Heating

Telephone:

509-999-0933

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rhastings@randrheating.com

1. Proposal: *Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).*

Install Residential Minisplit Cable

296-46b-920 (new section for 06a and 06b)

(f) HVAC/refrigeration systems: (i) See WAC 296-46B-100 for specific HVAC/refrigeration definitions. (ii) For the purposes of this section when a component is replaced, the replacement must be like-inkind or made using the equipment manufacturer's authorized replacement component. (iii) The HVAC/refrigeration specialties described in (f)(v) and (vi) of this subsection may:

install, repair, replace, and maintain branch circuits from the outdoor unit supplying indoor unit(s) of a split ductless HVAC system under the following conditions:

- The indoor unit(s) are located in residential dwelling units;
- The wiring method is limited to cable type as specified by the manufacturer of the HVAC system and each cable is limited to 100 feet in length;
- The cable is protected by an overcurrent device located in the outdoor unit; and
- All HVAC system components are listed by a testing laboratory accredited by the department and includes manufacturer's instructions for cable installation and termination.

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

Most manufacturers of ductless splits type system combine the control and power in the same specific wire and is critical that these wires are terminated to the correct terminals. HVAC contractors attend a number of trainings for proper installation and some require certification by the manufacturer for mechanical and power installation including power/ control wire. It is vital that all wires are installed and connected to the proper terminal or significant damage could occur to the mechanical equipment. Should a sub-contracted electrical 01 or 02 company be used by the HVAC contractor for this “communication wire” and the installation is done improperly, the HVAC contractor holds the liability of the damaged equipment, not the electrical company in most cases.

The 06a and 06b specialties were created over 20 years ago and well before the market and efficiency popularity of minisplits. Today, changes within the 06a are desperately needed to allow the installation of this wire from HVAC contractors. This should not be seen as a request to increase scope of work but rather an opportunity to make revisions to keep up with changing technology. In addition, no increased hours or testing requirements should be required as this is not an increase of scope of work. NEC 800 Communication systems is not a required chapter within the 06a, 06b, or 02 test. There is one question from this chapter relevant to the 01 exam. There should be no changes to the 06a or 06b exam unless there is a need to add this question to the 02 exam solely on behalf of minisplit installations, as they are currently allowed to install this wire. It would not make sense to add to the 06a and 06b exams but not the 02 exam.

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 8

Email to: ElectricalWAC@lni.wa.gov
as an attachment

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Specific Rule #: WAC 296-46B-920(2)(f)(v)(C)

Date Received: 11/13/2019

Comment:

NOTES:

22. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**

23. Limit each proposal to a single rule section. Use a separate copy for each proposal.

24. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:

11/13/2019

Name:

Tena Risley

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1. Proposal: *Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).*

296-46B-920(v)

(v) HVAC/refrigeration (06A): (A) This specialty is not limited by voltage, phase, or amperage. (B) No unsupervised electrical trainee can install, repair, replace, or maintain any part of a HVAC/refrigeration system that contains any circuit rated over 600 volts whether the circuit is energized or deenergized.

(C) This specialty may:

- Install HVAC/refrigeration: Telecommunications, Class 2 low-voltage control circuit wiring/components in other than residential occupancies: That have no more than three stories on/above grade; or Regardless of the number of stories above grade if the installation:
 - ~~Does not pass between stories;~~
 - Is made in a previously occupied and wired space; and
 - Is restricted to the HVAC/refrigeration system;
- Repair, replace, and maintain HVAC/refrigeration: Telecommunications, Class 2 low-voltage control circuit wiring/components in all occupancies regardless of the number of stories on/above grade

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

During the development of the 06a specialty, proponents of establishing this Third Floor language was based upon establishing a demark for specialty to Journeyman electricians, most specifically on “tall” commercial building new construction sites. There are still are no safety concerns that have been discussed or agreed upon between proponents and opponents on the third floor issue. Due to previous concerns only based on commercial new construction, low voltage control circuit wiring/ components in previously occupied and wired spaces should be allowed to pass between stories. In most cases replacement equipment is being installed and new thermostat wires need to pass through floors. 06a testing requirements are already in place and do not need to be increased as the scope is the same as if it were being performed in a residential setting.

3. Check one:

This proposal is original material

This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 9

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-920(2)(f) (New title)

Date Received: 11/13/2019

Comment:

NOTES:

25. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
26. Limit each proposal to a single rule section. Use a separate copy for each proposal.
27. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:

11/13/2019

Name:

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1. Proposal: *Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).*

Add Commercial Kitchen Appliances to 06a Scope of Work

296-46B-920

(f) HVAC/refrigeration systems and [Commercial Kitchen Appliances:](#)

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

Since the inception of the specialties, servicing, maintaining, repairing, or replacing small commercial/industrial appliances such as fryers and ovens, has been allowable only in the 07 and 07d and not the 06a however other commercial kitchen appliance like ice machines are allowable in the 06a. The HVAC/R workforce is the primary workforce that install and maintains commercial kitchen appliances, therefore they must acquire both 06a and 07/07d certifications to legally be able to perform their daily tasks.

Allowing commercial kitchen appliances and their equipment definitions into the 06a scope of work, and keeping it in the 07 and 07d as an option, is only fair to all the specialty electrical contractors, specialty electricians, and electrical trainees. There is no valid reason, other than an oversight, for commercial kitchen appliances to not be included with the 06a scope of work.

These companies and their employees are subject to unnecessary costs for dual contactor licenses, certifications, and additional CEU's until both certifications are obtained as trainee CEU's cannot be applied twice; for example, if you obtain your 06a license after 4,000 hours and 48 hours of CEU's, then you must still keep your trainee card to work on 07 hours, which can take years given that not all jobs are 07 related but HVAC/R and 06a scope of work. Now that you have both a specialty license and still a trainee card, you must take 24 hours of classes for the license and then another 48 classes for the trainee card as they cannot be the same as the CEU's that get applied towards the license. Simple solution is to address this oversight and burden to the industry, and to allow commercial kitchen appliances and their equipment definitions into the 06a scope of work and leave in 07/ 07d as-is.

06A Scope of work vs. 07 Scope of Work Examples & Similarities:

Replacing a blower motor on a furnace, same as replacing blower motor in oven.

Replacing control board on RTU unit same as replacing control board on fryer

Replacing contactor on RTU unit is same as replacing contactor on electric oven

Replacing heating element on electric furnace same as replacing heating element on a warmer

Troubleshooting electric fryers motor lifts, contractors, elements, electronic temp controllers.

Troubleshooting electronic ignition controls Combi Ovens electronics components motors, contractors, electric valves, steam solenoids.

Electric steam Kettles troubleshooting contractors, level sensors, electronic safety controls.

Exhaust, make up air hood controls which includes motors, temp controls, gas valves.

Gas fired pizza ovens motors, electronic temp controls, gas fired ignition controls.

Cook and hold cabinets troubleshooting electronic temp controls, motors, electric elements, hi limit safety controllers and probes.

Combination refrigeration and heated reach-in units that include motors, elements, electronic temp controls, compressors, water solenoids, safety temperature limits.

Portable steamers and grills likes used in fast food elements and electronic temp controls, electric cords and plugs. Pop machine dispenser that includes no refrigeration troubleshooting motors, controls, solenoid valves.

Large heated cabinets like deli foods in grocery stores replacing heated elements and temp controls, lite bulb circuits and switches. Gas fired bakery ovens trouble shooting contractors, water injector solenoids, electronic temp controllers, motors.

All types of refrigeration cabinets that are plug and play with electronic temp controls.

Most equipment that I have listed could be single phase and 3 phase 240vac.

3. Check one:

This proposal is original material

This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 10

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-942(8)(d)

Date Received: 11/14/2019

Comment:

NOTES:

28. All proposals must be received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.

29. Limit each proposal to a single rule section. Use a separate copy for each proposal.

30. ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING

Date submitted:

11/11/19

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Email Address:

amys@boonenw.com

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

WAC 296-46B-942 Renewal of training certificates.

(6) An individual must apply for renewal of their training certificate on or before the expiration date of the certificate. The individual may not apply for renewal more than ninety days prior to the expiration date. Renewed certificates are valid for two years.

(7) An individual may renew their training certificate after the expiration date if the individual pays the late renewal fee listed in WAC 296-46B-909.

(8) All applicants for training certificate renewal must:

(a) Submit a complete renewal application;

(b) Pay all appropriate fees; and

(c) Complete the approved basic trainee classes required by WAC 296-46B-970.

Basic trainee classes are only valid when all the requirements of WAC 296-46B-970 are completed.

~~(d) Within one hundred eighty days after the expiration date of an electrical training certificate, t~~ The individual, if not enrolled in a department approved apprenticeship program, must submit a completed, signed, and notarized affidavit(s) of experience for all hours of experience gained since the individual's last training certificate was effective.

Employers are required to provide the necessary documentation and signed affidavit of experience to the trainee within twenty days after the trainee requests the affidavit for any hours worked in the previous three payroll years. See WAC 296-46B-942(12). See WAC 296-46B-985(4) for the penalty for providing a false or inaccurate affidavit of experience. If the individual is enrolled in a department approved apprenticeship program, the program may submit the required affidavit(s) of experience upon the individual's completion of the required experience hours without cost to the individual. The affidavit of experience must accurately attest to:

(i) The electrical installation work performed for each employer the individual worked for in the electrical trade during the previous period;

(ii) The correct electrical category the individual worked in; and

(iii) The actual number of hours worked in each category under the proper supervision of a Washington certified, master journey level electrician, journey level electrician or appropriate master specialty electrician or specialty electrician under that specific training certificate. If a trainee possesses multiple training certificates, an affidavit

must be submitted for each training certificate for the hours worked under that specific training certificate.

If the individual is enrolled in a department approved apprenticeship program, the program may submit the required affidavit(s) of experience upon the individual's completion of the required experience hours without cost to the individual.

(9) Until July 1, 2020, an individual who has not completed the required hours of basic trainee class education can renew a training certificate if the individual applies for renewal before the training certificate expires and pays the appropriate renewal fee. However, the training certificate will be placed in an inactive status. The inactive training certificate will be returned to current status upon validation, by the department, of the required basic trainee class education. Effective July 1, 2020, an individual may not renew a training certificate until the required hours of basic classroom education have been completed.

(10) An individual may renew a suspended training certificate by submitting a complete renewal application including obtaining and submitting the basic trainee class education required for renewal. However, the certificate will remain in a suspended status for the duration of the suspension period.

(11) An individual will not be issued a renewed or reinstated training certificate if the individual owes the department money as a result of an outstanding final judgment under chapter [19.28](#) RCW.

(12) The individual should ask each employer and/or apprenticeship training director for an accurately completed, signed, and notarized affidavit of experience for the previous certification period. The employer(s) or apprenticeship training director(s) must provide the previous period's affidavit of experience to the individual within twenty days of the request. If an individual is enrolled in an approved electrical construction trade apprenticeship program under chapter [49.04](#) RCW when the individual renews an electrical training certificate, the individual and their apprenticeship training director and/or each employer must give the department an accurately completed, signed, and notarized affidavit of experience accurately attesting to:

(a) The electrical installation work the individual performed in the electrical trade during the previous certification period;

(b) The correct electrical category the individual worked in; and

(c) The actual number of hours worked in each category under the proper supervision of a Washington certified master journey level electrician, journey level electrician or appropriate master specialty or specialty electrician for each employer. For apprentices enrolled in a registered apprenticeship program, the applicant and the training director are the only authorized signatures the department will accept on affidavits of experience.

(13) The individual and their employer(s) and/or apprenticeship training director(s) must sign and have notarized the affidavit of experience attesting to the accuracy of all information contained in the affidavit.

(14) The trainee, supervising electrician, contractor, and assigned administrator or master electrician are responsible for ensuring compliance with subsection (13) of this section. See WAC [296-46B-985](#) and [296-46B-990](#) (3)(c) and (f) for information about failing to submit or submitting false/fraudulent documents. Falsifying documents may be considered perjury and might result in criminal prosecution, civil penalty, or certificate revocation or suspension.

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

The current ‘untimely affidavit rule’ WAC negatively impacts trainees, employers, and our Washington State economy. Trainees typically fail to turn in affidavits within the allotted timeframe due to clerical error on the part of the trainee.

The impact of this is that it sets back a trainee’s exam for journey level status; they wait two years longer to obtain their license. This is a significant career and financial setback for the individuals. It also impacts the employer’s ability to take on additional work and grow their crews. Our trade loses the opportunity to grow and take on work to meet building demand.

This licensing delay impacts the state in lost revenue; journey level electricians make significantly more than a trainee when they can independently run a job or crew. The trainee’s loss of earnings has a negative impact on the general economy and sales tax revenue for our state. As an example, based on current prevailing wage data in Pierce County for an Inside Wireman on Step 5 versus Journey level, the delta is \$31,532.80 annually ($\$69.96 - \$54.80 \times 2,080 \text{ hours/year.}$) If a trainee is held back two years, that correlates to more than \$60,000 in lost earning potential.

Trainees tend to be early in their careers and unfamiliar with licensure expectations. Many have poor life administration and paperwork skills. The LNI analysis of the WAC concluded that there was no financial impact to the state, but the individuals would argue it’s a significant impact to them and the state to delay their licensing and accompanying wages by years for hours and experience they legitimately worked due to clerical error. Employers are already required by law to maintain payroll records for at least three years. Allowing trainees to submit obtained but not turned in affidavits and new affidavits from employers covering time within the payroll recordkeeping time period shouldn’t pose an undue hardship on employers.

The RCW 19.28.161 states that trainees must provide an accurate list of employers at their renewal; it doesn’t specify affidavits, so there appears to be room to provide trainees grace in proving their hours.

3. Check one: This proposal is original material This proposal is not original material
(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 11

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-920(2)(f)(iii) (New sub-paragraph)

Date Received: 11/15/2019

Comment: This is similar to stakeholder proposals 7 and 16.

NOTES:

31. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**

32. Limit each proposal to a single rule section. Use a separate copy for each proposal.

33. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:

11/14/19

Name:

Carolyn Logue

Representing:

WA Air Conditioning Contractors Association

Telephone:

360-789-3491

Emil Address:

Carolyn.logue@comcast.net

1. Proposal: *Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).*

The following is a proposal to update the scope of work under an 06A Electrical license in WAC 296-46B-920 to allow the following FOR RESIDENTIAL CONSTRUCTION ONLY under certain conditions:

- Installing, connecting, repairing and replacing the branch circuit from the outdoor unit of a split ductless HVAC system to the indoor heads powered from that unit under the following conditions:
 - The branch circuit supplying the outdoor unit has been installed by an 01 or 02 electrical contractor
 - The outdoor unit includes the final over current protection device for the conductors between the outdoor unit and the indoor unit.
 - The units are standard units, listed by a department approved electrical product testing laboratory with standard specifications (not custom built).
 - The unit includes installation instructions for use of cable and connections as specified by the unit's manufacturer. Installation of conduit is not permitted.
 - Require installer to have training related to installation of armored cable, non-metallic sheathed cable, and type TC cables
 - The entity performing the installation of the circuit must have an electrical permit for new circuits.

ACTUAL LANGUAGE:

f) HVAC/refrigeration systems:

- (i) See WAC [296-46B-100](#) for specific HVAC/refrigeration definitions.
- (ii) For the purposes of this section when a component is replaced, the replacement must be like-in-kind or made using the equipment manufacturer's authorized replacement component.
- (iii) The HVAC/refrigeration specialties described in (f)(v) and (vi) of this subsection may:
 - (A) Install HVAC/refrigeration: Telecommunications, Class 2 low-voltage control circuit wiring/components in all residential occupancies;
 - (B) Install, repair, replace, and maintain line voltage components within HVAC/refrigeration equipment. Such line voltage components include product illumination luminaires installed within and powered from the HVAC/refrigeration system (e.g., reach-in beverage coolers, frozen food cases, produce cases, etc.) and new or replaced factory authorized accessories such as internally mounted outlets;
 - (C) Repair, replace, or maintain the internal components of the HVAC/refrigeration equipment disconnecting means or controller so long as the disconnecting means or controller is not located within a motor control center or panelboard;
 - (D) Install, repair, replace, and maintain short sections of raceway to provide physical protection for low-voltage cables. For the purposes of this section a short section

cannot mechanically interconnect two devices, junction boxes, or other equipment or components; and

- (E) Repair, replace, or maintain line voltage flexible supply whips not over six feet in length, provided there are no modifications to the characteristics of the branch circuit/feeder load being supplied by the whip. There is no limitation on the whip raceway method (e.g., metallic replaced by nonmetallic).

(F) Install, repair, replace, and maintain branch circuits from the outdoor unit supplying indoor unit(s) of a split ductless HVAC system under the following conditions:

- The indoor unit(s) are located in dwelling units;
- The wiring method is limited to cable type as specified by the manufacturer of the HVAC system and each cable is limited to 100 feet in length;
- The cable is protected by an overcurrent device located in the outdoor unit; and
- All HVAC system components are listed by a testing laboratory accredited by the department and includes manufacturer's instructions for cable installation and termination.

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

- With the passing of laws and local ordinances moving more housing towards electrification, the installation of ductless mini split systems has increased across the state as more customers look toward these systems for heating and cooling in their houses. This move toward has put pressure on the availability of 01 and 02 electricians overall.
- The current 06A electrical license allows for the running of low voltage wires.
- The control circuits between components of a ductless system include up to 240 volts; however, the conductors for these circuits are specified by the manufacturer. The type of cable is standardized. The terminations on both ends are coded.
- No calculations are needed for these conductor sizes.
- These circuits need to be run in very close coordination with the HVAC professional both in time and space. Under current codes this requires an 01 or 02 electrician and HVAC professional who is likely to be a 06A electrician to be working in the same space at the same time – creating inefficiencies and challenges with coordination of time and work space.
- If an 06A electrician were allowed to run these circuit conductor cables, coordination would be easier, labor efficiency would increase which would create more cost effectiveness for the consumer. There would be no sacrificing safety due to the fact that an 01 or 02 electrician will be on site to install the new circuit, conductors, and OCP to the outdoor unit. Therefore, they would be able to review the installation practices of the indoor unit conductor circuit(s) by the 06A or 06B.
- Inspections of the installation would remain the same. The entity performing the installation of the cable between the outdoor and indoor unit must have an electrical work permit for new circuit(s).

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 12

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-908(10)(d)

Date Received: 11/15/2019

Comment:

NOTES:

34. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
35. Limit each proposal to a single rule section. Use a separate copy for each proposal.
36. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:

11/15/2019

Name:

Tom Baker

Representing:

Self

Telephone:

360-689-4472

Email Address:

Tom@psetraining.com

1. Proposal: *Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).*

908 class B permits, (10) (d) The replacement of not more than ten standard receptacles with GFCI, ~~or~~ AFCI or dual function AFCI/GFCI receptacles;

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

NEC section 406.4 (D) requires receptacle replacements to be GFCI or AFCI where required elsewhere in code. Some locations, such as kitchens and laundry areas require both GFCI and AFCI protection. Dual function AFCI/GFCI receptacles are available for this application, and should be added to clarify usage on Class B permits.

3. Check one:

This proposal is original material

This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 13

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-100 "Like-in-kind"

Date Received: 11/15/2019

Comment:

NOTES:

37. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
38. Limit each proposal to a single rule section. Use a separate copy for each proposal.
39. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:

11/15/19

Name:

Edwin L Andrews II

Representing:

Andrews Mechanical Inc

Telephone:

509-435-7830

Email Address:

larryandrewsmechanicalinc@hotmail.com

1. Proposal: *Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).*

WAC 296-46B-100

Like-in-kind also includes equipment that is the same in work done but with less amperage draw. It is less than existing equipment due to better improvements in energy usage. This will allow 06A electricians to install new load centers that have single breakers at the equipment in the same room within 12' of the equipment, reduce fuse size at the disconnect or heater overloads to match the new lower max amperage requirement of the new equipment.

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

We were told by the department that the properly licensed 06A HVAC people in the Trade would be able to replace equipment that was installed. But now with the new mandated standards coming we will not be able to this. Most of the equipment now being made has new more efficiency motors that use less energy. This reduce the max amp rating to the unit like furnaces from 20 amps down to 15 amps. Thus with the 20 amp rating of the existing breaker has to be reduced to 15 amps to install the equipment. 06A are not allowed to go into a breaker panel to do this and this would still not allow them to that. But this is a way to do at the equipment. This is happening with A/C and Heat pumps and other HVAC equipment too. This way by being able to reduce fuse size at the equipment disconnect we could still do the job that we have been doing.

3. Check one:

This proposal is original material

This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 14

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-11(1)

Date Received: 11/15/2019

Comment:

NOTES:

40. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
41. Limit each proposal to a single rule section. Use a separate copy for each proposal.
42. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:

11/15/19

Name:

Edwin L Andrews II

Representing:

Andrews Mechanical Inc

Telephone:

509-435-7830

Email Address:

larryandrewsmechanicalinc@hotmail.com

1. Proposal: *Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).*

WAC 296-46B-110

003 Examination, Identification, Installation and use of equipment.

Exception; electrical PVC fittings may be used for conduits for water lines with trace wire for location. No other electrical wires may pass in such conduits. Conduits must have pipe color other than gray. Such fittings must be painted with a color other than gray on the outside of the fittings.

2. Statement of Problem & Substantiation for Proposal: *Note: State the problem that will be resolved by your proposal and substantiation for your proposal.*

Here is the problem to have these fitting made in other materials cost more than 3 times the price and the lead time is weeks from Spokane. We need a material that we also work with that fits the plumbing industry. So we can put a rubber boot as it comes through the concrete to make a water tight connection. This is for underground work.

3. Check one:

This proposal is original material

This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 15

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-100 "Like-in-kind"

Date Received: 11/15/2019

Comment:

NOTES:

43. All proposals must be received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.
44. Limit each proposal to a single rule section. Use a separate copy for each proposal.
45. ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING

Date submitted:

11/15/19

Name:

Edwin L Andrews II

Representing:

Andrews Mechanical Inc

Telephone:

509-435-7830

Email Address:

larryandrewsmechanicalinc@hotmail.com

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

WAC 296-46B-100

Like-in-kind also includes equipment that is the same in work done but with less amperage draw. It is less amps than existing equipment due to better improvements in energy usage. This will allow 07 electricians to install new load centers with breakers, or fuse disconnects, for the equipment to only reduce amperage when required, reduce breaker size, reduce fuses or heater overloads for reduced load to match the new lower max amperage requirements of the new equipment.

2. Statement of Problem & Substantiation for Proposal: Note: State the problem that will be resolved by your proposal and substantiation for your proposal.

Now with the new mandated standards coming we will not be able to this electrical replacement work. Most of the equipment now being made has new more efficiency motors that use less energy. This reduce the max amp rating to the unit like furnaces from 20 amps down to 15 amps. Thus with the 20 amp rating of the existing breaker has to be reduced to 15 amps to install the equipment. This is happening with A/C and Heat pumps and other HVAC , motors equipment too. This way by being able to reduce fuse/ heat overloads size at the equipment disconnect we could still do the job that we have been doing or replace the breaker at the panel with a smaller size.

3. Check one:

This proposal is original material

This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 16

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE ONLY

Specific Rule #: WAC 296-46B-920(2)(f)(v)

Date Received: 11/15/2019

Comment: This is similar to stakeholder proposals 7 and 11.

NOTES:

- All proposals must be received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.
- Limit each proposal to a single rule section. Use a separate copy for each proposal.
- ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING

Date submitted:	11/15/19	Name:	Edwin L Andrews II
Representing:	Andrews Mechanical Inc	Telephone:	509-435-7830
Email Address:	larryandrewsmechanicalinc@hotmail.com		

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

WAC 296-46B-920
(V) HVAC/Refrigeration (06A)

(E) This specialty may install listed Mini spilt wire for installation of wiring for the mini-split outdoor unit to the indoor unit in an existing home, duplex or 3 story (or less) apartments. No new construction unless this an addition to an existing home, duplex or 3 story (or less) apartments. Power to outdoor unit must be installed from the panel to the outdoor unit by an 01 or 02 electrician.

2. Statement of Problem & Substantiation for Proposal: Note: State the problem that will be resolved by your proposal and substantiation for your proposal.

This task has become a scheduling nightmare with the 01 and 02 electricians having to be there at the same time, the electricians are running the wiring at the same time we are trying to run the refrigerant lines in the same work area. The electricians have to bring their ladders out then we have to bring our ladders out. We have to pull a deep vacuum and hold this vacuum of 500 microns on the refrigerant line and during that vacuum time we could be running the wiring for the indoor unit. We are just standing around while the electrician is doing his work from the indoor unit to outdoor unit. What this does is increase the cost to the owners for lack of being productive. The amperage wiring of these units is fuse down to 2 amps or less with a fuse in the outdoor unit for the **control wiring** to the indoor unit. When these units 1st came out in the US this was done with 24 volts. Then globally this was done with 240 volts and became the standard in the USA too. The 06A person is more than qualified to this work. The mini split uses listed wire just for this equipment. This should work should be able to be done under a B permit since the inspector will be there anyway for the 01 and 02 work.

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 17

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE

Specific Rule #: **ONLY**
WAC 296-46B-920(2)(f)(vi)
Date Received:
11/15/2019
Comment: Companion
with 18, 19, and 20

NOTES:

1. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
2. Limit each proposal to a single rule section. Use a separate copy for each proposal.
3. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted: 11/15/19 Name: Kevin J. Rapacz
Representing: Gas Operational Training, Puget Sound Energy Telephone: 360-786-5960
Email Address: kevin.rapacz@pse.com

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

WAC 296-46B -920(2)(f)(vi)

HVAC \ refrigeration restricted, Gas appliances and equipment (O6B):

(A) This specialty may not perform any electrical work where the primary electrical power connection to the HVAC \ refrigeration system exceeds: 250 volts, single phase, or 120 amps.

(B) This specialty may install, repair, replace, or maintain HVAC /refrigeration: Telecommunications, Class 2 low-voltage control Certified on 10/25/2019 WAC 296-46B-920 Page 4 circuit wiring components in other than residential occupancies that have no more than three stories above grade.

Add new sub-section (C) for additional scope of work and add (D) for existing content.

(C) This specialty may also maintain, repair or replace (like-in-kind) electrical components on Gas appliances and Gas Equipment rated 250 volts or less, single phase and less than 60 amps. (e.g., on-demand tankless water heaters, commercial and residential water heaters, kitchen and process equipment. See 296-46B-920 (2) (k) Appliance repair (07D) for complete scope of work.

(D) New section , original text.

This section may not install, repair, replace, or maintain:

- The allowed telecommunications\low voltage HVAC / refrigeration wiring in a conduit/raceway system; or
- Any electrical work governed under article(s) 500,501,502,503,504,505,510,511,513,514,515,or 516 NEC (i.e., classifiedlocations).

2. Statement of Problem & Substantiation for Proposal: Note: State the problem that will be resolved by your proposal and substantiation for your proposal.

The current problem, Specialty Journeyman electrical licenses need to be updated. We can and need to start the process. O6B and 07D Specialties need minor updating. HVAC (06B) restricted and (07D) Appliance licenses require similar training and field experience. Equipment normally requires maintenance, minor repairs or disconnection. Residential and small to medium commercial properties have HVAC equipment and Gas Fired appliances. We propose HVAC (06B) Specialty regulations be amended to increase scope of work. An (07D) specialty electrician will not be allowed to move up, as they do not have the required 1000 hours of Supervised Electrical experience. HVAC work requires a higher level of understanding of the customers building systems, site and utilities. Current restrictions regarding Voltage, Amperage and access to electrical services and panels is appropriate. It shall remain as written for both specialties. Increasing the scope of 06B work makes sense. The customer's needs and industry has changed in the last 16 years. Licensing requirements do not account for these changes. 20 to 30 years ago everyone had electric hot water equipment, strip heat and larger HVAC loads. Today we have Gas HVAC equipment, on-demand water heaters, gas kitchen equipment and gas processing tools and equipment. The industry has a shortage of Specialty Journeyman Electricians who can do these repairs. Combining gas equipment \ appliances with the 06B license supports growth in this field. A total of 4000 hours and (2) specialty licenses is unreasonable. It creates duplicate requirements and redundancy for electrical trainees, contractors and educational organizations. Labor and Industries, Contractors, Employee's and our Customers will all benefit from this change.

Submission 1 of 4, submitted to address and update scope of work for 06B Specialty electricians.

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 18

Email to: ElectricalWAC@lni.wa.gov
as an attachment

Specific Rule #: WAC 296-46B- 920(2)(f)(v)	FOR L&I USE ONLY
Date Received: 11/15/2019	
Comment: Companion with 17, 19, and 20	

NOTES:

1. All proposals must be received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.
2. Limit each proposal to a single rule section. Use a separate copy for each proposal.
3. ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING

Date submitted:	11/15/19	Name:	Kevin J. Rapacz
Representing:	Gas Operational Training, Puget Sound Energy	Telephone:	360-786-5960
Email Address:	kevin.rapacz@pse.com		

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

WAC 296-46B-920(2)(f)(v)

(A) This specialty is not limited by voltage, phase, or amperage.

(B) No change

(C) No change

(D) ~~This specialty may not install, repair, replace, or maintain: Any electrical wiring governed under article(s) 500, 501, 502, 503, 504, 505, 510, 511, 513, 514, 515, or 516 NEC (i.e., classified locations) located outside the HVAC equipment.~~

(D) This specialty may perform work defined in WAC 296-46B(2)(f)(vi)

(E) This specialty may not install, repair, replace, or maintain: Any electrical wiring governed under article(s) 500, 501, 502, 503, 504, 505, 510, 511, 513, 514, 515, or 516 NEC (i.e., classified locations) located outside the HVAC equipment.

2. Statement of Problem & Substantiation for Proposal: Note: State the problem that will be resolved by your proposal and substantiation for your proposal.

I have submitted a separate proposal to change WAC rule 296-46B(2)(F)(vi). When (F)(vi) is changed (F)(v) will need to be updated. Added rule (D) will clarify (06A) Journeyman Electrician will be allowed to perform work governed by (F)(vi) and work on Gas appliances and gas equipment.

Submission 2 of 4, submitted to address and update scope of work for 06B Specialty electricians.

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 19

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FCR L&I USE

Specific Rule #: WAC 296-46B-920(2)(f) ONLY

Date Received:
11/15/2019

Comment: Companion
with 17, 18, and 20

NOTES:

1. All proposals must be **received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.**
2. Limit each proposal to a single rule section. Use a separate copy for each proposal.
3. **ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING**

Date submitted:	11/15/19	Name:	Kevin J. Rapacz
Representing:	Gas Operational Training, Puget Sound Energy	Telephone:	360-786-5960
Email Address:	kevin.rapacz@pse.com		

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

WAC rule 296-46B-920

(f)(i) See WAC 296-46B-100 for specific HVAC/refrigeration definitions.

(f)(i) See WAC 296-46B-100 for specific HVAC/refrigeration and Gas Appliance and Gas Equipment definitions.

(f)(ii) For the purposes of this subsection when a component is replaced, the replacement must be like-in-kind or made using the equipment manufacturer's authorized replacement component.

(f)(iii) The HVAC/refrigeration specialties described in (f)(v) and (F)(vi) of this section may:

(A) Install HVAC/ refrigeration: Telecommunications, class 2 low voltage control circuit wiring/components in all residential occupancies.

(B) Install, repair, replace, and maintain line voltage components with HVAC/refrigeration equipment. Such line voltage components include product illumination luminaires installed within and powered from the HVAC/refrigeration system (e.g., reach beverage coolers, frozen food cases, product cases, etc.) and new or replaced factory authorized accessories such as internally mounted outlets;

(C) Repair, replace, or maintain the internal components of the HVAC/refrigeration equipment disconnecting means or controller so long as the disconnecting means or controller is not located within a motor control center or panelboard. (D) & (E) - No changes.

(F) Repair, replace, or maintain gas fired appliances or gas fired equipment. See WAC rule 296-46B-100 for Gas appliance/equipment definition. See 296-46B-920(k) Appliance repair (07D) for additional rules and restrictions.

2. Statement of Problem & Substantiation for Proposal: Note: State the problem that will be resolved by your proposal and substantiation for your proposal.

Within the context of existing scope of work for 06A, 06B, 07, 07A, 07B, 07C, 07D and 07E Specialties; Servicing, maintaining, repair or replacement of gas fired appliances and gas fired equipment needs to be addressed and added for clarity.

This proposal is submitted as a supplement, to address additional changes required, allowing 06B Specialty Electricians to work on gas appliances and equipment.

Submission 3 of 4 to address and update scope of work for 06B Specialty electricians.

3. Check one: This proposal is original material This proposal is not original material

(END OF PROPOSAL)

PROPOSAL FORM for 2020 WAC 296-46B Rule Changes

Stakeholder Proposal 20

Email to: ElectricalWAC@lni.wa.gov
as an attachment

FOR L&I USE

Specific Rule #:WAC 296-46B-100
ONLY

Date Received:
11/15/2019

Comment: Companion
with 17, 18, and 19

NOTES:

1. All proposals must be received from 12:00 a.m. October 10 through 11:59 p.m. November 15, 2019.
2. Limit each proposal to a single rule section. Use a separate copy for each proposal.
3. ENTER TEXT ONLY IN THE UN-SHADED SPACES ON THIS DOCUMENT – SAVE AS A NEW FILENAME BEFORE RETURNING

Date submitted:

11/15/19

Name:

Kevin J. Rapacz

Representing:

Gas Operational Training, Puget Sound Energy

Telephone: 360-786-5960

Email Address:

kevin.rapacz@pse.com

1. Proposal: Include new or revised wording, or identification of wording to be deleted. Proposed text should be in legislative format. Use underscore to denote wording to be inserted (e.g. inserted wording) and strike-through to denote wording to be deleted (e.g. ~~deleted wording~~).

See WAC 299-46B-100 General Definitions. Partial section included to show placement of new definition.

"Fished wiring" is when cable or conduit is installed within the finished surfaces of an existing building or building structure (e.g., wall, floor or ceiling cavity).

"Gas fired appliance \ equipment" means equipment connected to a single source limited to a maximum of 250 volts, 60 amperes, single phase. Examples include (e.g., residential and commercial ranges, cook tops and dryers, hot water systems, barbecues, fryers, pizza ovens, etc) Does not included (e.g., incinerators, commercial or residential boilers, gas fired turbines and equipment used in power generation).

2. Statement of Problem & Substantiation for Proposal: Note: State the problem that will be resolved by your proposal and substantiation for your proposal.

This proposal is made to provide new definition in WAC 296-46B-100, General definitions. Gas fired appliances and equipment needs to be defined to support changes to 06B Specialty Electricians scope of work.

Submission 4 of 4, submitted to address and update scope of work for 06B Specialty electricians.

3. Check one:

This proposal is original material

This proposal is not original material

(END OF PROPOSAL)



November 15, 2019

VIA ELECTRONIC SUBMISSION

Specific Rule: WAC 296-46B-920(2)

New Section

Received: 11/15/2019

Alicia Curry
Department of Labor and Industries
Field Services & Public Safety Division
PO Box 44400
Olympia, WA 98504-4400
Alicia.Curry@Lni.wa.gov

Re: Preproposal Statement of Inquiry to consider changes to Ch. 296-46B WAC

Dear Ms. Curry,

The Pool & Hot Tub Alliance (PHTA) appreciates the opportunity to submit comments with regard to the Department of Labor and Industries (Department) preproposal statement of inquiry to consider input on possible revisions to chapter 296-46B WAC, Electrical safety standards, administration and installation. We respectfully submit the following.

1. About the Submitting Organization

PHTA, formerly the Association of Pool and Spa Professionals (APSP) and the National Swimming Pool Foundation (NSPF), facilitates the expansion of swimming, water safety, and related research and outreach activities aimed at introducing more people to swimming, making swimming environments safer and keeping pools open to serve communities. PHTA is the world's oldest and largest association representing over 3,200 member companies including swimming pool, hot tub, and spa manufacturers, distributors, designers, builders, installers, suppliers, retailers, and service professionals.

PHTA is the only American National Standards Institute (ANSI) recognized association to develop and promote national standards for pools, hot tubs, and spas. PHTA has developed 16 ANSI certified standards and is also the co-developer, along with ICC, of the International Swimming Pool and Spa Code (ISPSC). The ISPSC has been adopted internationally and in over 300 local jurisdictions within the United States, including 13 mandatory state adoptions, and 19 states with optional local adoptions. Washington is one of the 13 that has adopted the ISPSC on a statewide level. Additionally, PHTA offers certifications and education for every level and specialty within the industry; including pool and hot tub repairs.

2. Request for a pool/spa specialty electrical license

In addition to code and standards development, and a robust education and certification program, PHTA also provides local grassroots efforts, which include efforts to establish appropriate licensing or certification for the industry. Licensing requirements are different in every state and vary on the type of license. However, the fundamental core to all licensing requirements is to ensure that an individual is adequately trained and has enough experience to practice their profession. By granting a professional license, tailored to one's profession, the state is working in the best interest of the public and the

worker. Taxpayers deserve the right to acquire a licensed professional who will do the project or job that they require. The taxpayers also deserve the right to have the job done safely and correctly.

However, there is often a grey area with licensing. Different professions require different licensing. Sometimes, specific code requirements or certain professions require additional licensing to best suit consumer and worker needs. In other words, it is not always a cookie-cutter approach when evaluating who gets what type of license. For example, rather than an overall “contracting license” that would encompass multiple sub-contracting fields, there are instead professional licenses for those individual professions like electricians, plumbers, construction contractors and many more. PHTA has worked with various states in the past to establish specific pool and spa license categories that include robust education and training.

PHTA understands when working with a state you also must work within the confines of that state’s existing licensure program. Therefore, PHTA is formally requesting that the Department, in conjunction with their review of chapter 296-46B WAC, considers creating a specialty license for pool and hot tub electrical repair and servicing within the existing electrical licensure program.

3. Background and Reasoning

Throughout the years, pool and hot tub industry professionals have raised concerns regarding how the electrical licensing program applies to them. Frequently, pool and spa professionals encounter electrical problems or needs that require immediate attention, but are unable to service, install, repair, or replace due to restrictions like amperage limits, commercial v. residential definitions, and minor production installations. Rather, certain restrictions and implications require a pool and spa professional to contract or hire a 07, 07B, or other category electrician to work on things such as pool and spa heating, wiring, pumps, or lighting. Due to the current licensing structure, pool and spa professionals are often times unable to service, install, and maintain the products they specialize in.

A. Testing

Currently, the scope of the work for pool and hot tub repair electricians is largely to “repair and replace”. However, as repair electricians, many pool and spa industry members are not allowed to install anything new, yet they are tested on installation aspects. Further, upwards of 80-85% of the state exam material that 07 and 07B electricians are currently required to know, is material that pool and spa license holders will never use. At most, 15-20% of an 07B test is relevant material a pool and hot tub electrician needs for their profession. When someone who only wants to do pool or hot tub work proceeds with trying to obtain a 07 or 07B license, they may have difficulty passing due to the large amount of the material outside of their scope.

Further, the 07 and 07B license holders who own or are employed by pool and/or hot tub companies do not work on installing ceiling fans, lighting fixtures, and other non-pool and hot tub related jobs. Someone who is trained and educated on pool and hot tub work should not be doing indoor residential work in a home or skyrise. These jobs are within the scope of residential or commercial electrician.



A specialty license would take the material pool and hot tub professionals are responsible to know and emphasize that for the testing. This would enhance the pool and hot tub servicing profession because the test would focus on the work that they should be skilled and knowledgeable on. Current pool and hot tub electricians have licensing that gives them rights to things they will never use or service, and by way of creating a specialty license specific to them, they are in essence giving that residential or commercial work back to general electricians. Our request would provide a license, tailored to one's profession, which increases public safety, worker safety, and ultimately benefits the consumer.

B. Residential vs. Commercial

Implications regarding definitions of residential vs. commercial under the current framework also create barriers for pool and hot tub electricians. The definitions largely have to do with the size of the building and not the equipment being serviced. This means that an 07B pool and hot tub electrician can service a pump, filter, and heater of a residential pool or hot tub, but are restricted to work on the exact same pump, filter, and heater in an apartment building with 10 stories. This discrepancy of not being able to do the exact same job because of definitions and number of floor stories is only causing implications for tax paying consumers, general electricians, and pool/spa professionals.

C. Amperage limits

Amperage limits on pool and spa heaters also cause implications for the industry. Pool and spa professionals are the most familiar with these heaters and should be allowed to work on them regardless of amp limits. Consumers and taxpayers are perhaps at a disadvantage more than anyone else because they will spend anywhere around \$5000 for a new heater, and an additional several hundred dollars to find and pay for a licensed electrician to wire it. The electrician who is doing the wiring, is usually not a pool/spa professional and likely does not deal with pool or hot tub electrical matters. This process needs to be safer, more efficient, and more consistent.

4. Summary

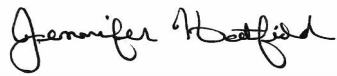
It is important to recognize that the work pool and hot tub professionals are doing is a contained process, limited to only pools and hot tubs. The scope of the servicing work for the pool and spa industry simply does not fit within any other current licenses that the Department offers. An 07D, might seem like a viable option but is not due to its narrow scope. The 07D license is oriented to commercial appliances and repair rather than to pools and hot tubs. The industry needs a license and appropriate testing for the scope of their pool/spa related electrical work.

Therefore, PHTA strongly believes that creating a specialty electrical license for pools and hot tubs would provide consistency, transparency, efficiency, and safety among the entire industry, electricians, and the public at large. Pool and spa electricians would then be required to obtain a license relevant to their profession. Further, by creating such a specialty license they would be relinquishing the ability to do unrelated work they would otherwise be able to do when obtaining a 07 or 07B license.



On behalf of our Washington members and our entire association we ask for your positive consideration of this request. Additionally, we ask the Department to convene a meeting of stakeholders to openly discuss these implications and a path forward. We thank the Department for its time and consideration.

Respectfully submitted,



Jennifer Hatfield
Government Affairs Director
jhatfield@phta.org