



# RULE-MAKING ORDER PERMANENT RULE ONLY

## CR-103P (December 2017) (Implements RCW 34.05.360)

CODE REVISER USE ONLY

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STATE OF WASHINGTON  
FILED

DATE: June 19, 2018

TIME: 3:03 PM

WSR 18-13-106

**Agency:** Washington Utilities and Transportation Commission

**Effective date of rule:**

**Permanent Rules**

31 days after filing.

Other (specify) \_\_\_\_\_ (If less than 31 days after filing, a specific finding under RCW 34.05.380(3) is required and should be stated below)

**Any other findings required by other provisions of law as precondition to adoption or effectiveness of rule?**

Yes  No If Yes, explain:

**Purpose:** To revise adoption-by-reference dates in Title 480 of the WAC to incorporate the most recent version of adopted federal rules and other adopted publications.

**Citation of rules affected by this order:**

New:

Repealed:

Amended: 480-14-999, 480-15-999, 480-30-999, 480-31-999, 480-70-201, 480-70-999, 480-73-999, 480-75-999, 480-90-999, 480-93-999, 480-100-999, 480-108-999, 480-109-999, and 480-120-999.

Suspended:

**Statutory authority for adoption:** RCW 80.10.040, RCW 80.04.160, RCW 81.04.160, and RCW 34.05.353

**Other authority:**

**PERMANENT RULE (Including Expedited Rule Making)**

Adopted under notice filed as WSR 18-09-061 on April 16, 2018 (date).

Describe any changes other than editing from proposed to adopted version:

If a preliminary cost-benefit analysis was prepared under RCW 34.05.328, a final cost-benefit analysis is available by contacting:

Name:

Address:

Phone:

Fax:

TTY:

Email:

Web site:

Other:

**Note: If any category is left blank, it will be calculated as zero.  
No descriptive text.**

**Count by whole WAC sections only, from the WAC number through the history note.  
A section may be counted in more than one category.**

**The number of sections adopted in order to comply with:**

|                                  |     |     |         |           |          |     |
|----------------------------------|-----|-----|---------|-----------|----------|-----|
| Federal statute:                 | New | ___ | Amended | ___       | Repealed | ___ |
| Federal rules or standards:      | New | ___ | Amended | <u>13</u> | Repealed | ___ |
| Recently enacted state statutes: | New | ___ | Amended | ___       | Repealed | ___ |

**The number of sections adopted at the request of a nongovernmental entity:**

|     |     |         |     |          |     |
|-----|-----|---------|-----|----------|-----|
| New | ___ | Amended | ___ | Repealed | ___ |
|-----|-----|---------|-----|----------|-----|

**The number of sections adopted on the agency's own initiative:**

|     |     |         |     |          |     |
|-----|-----|---------|-----|----------|-----|
| New | ___ | Amended | ___ | Repealed | ___ |
|-----|-----|---------|-----|----------|-----|

**The number of sections adopted in order to clarify, streamline, or reform agency procedures:**

|     |     |         |     |          |     |
|-----|-----|---------|-----|----------|-----|
| New | ___ | Amended | ___ | Repealed | ___ |
|-----|-----|---------|-----|----------|-----|

**The number of sections adopted using:**

|                                |     |     |         |     |          |     |
|--------------------------------|-----|-----|---------|-----|----------|-----|
| Negotiated rule making:        | New | ___ | Amended | ___ | Repealed | ___ |
| Pilot rule making:             | New | ___ | Amended | ___ | Repealed | ___ |
| Other alternative rule making: | New | ___ | Amended | ___ | Repealed | ___ |

**Date Adopted:** June 19, 2018

**Name:** Mark L. Johnson

**Title:** Executive Director and Secretary

**Signature:**



AMENDATORY SECTION (Amending WSR 17-15-054, filed 7/13/17, effective 8/13/17)

**WAC 480-14-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. They are available for inspection at the commission (~~(branch of the Washington state)~~) library. The publication, effective dates, references within this chapter, and availability of the resource is within Title 49 Code of Federal Regulations (C.F.R.), including all appendices and amendments is published by the United States Government Printing Office.

(1) The commission adopts the version in effect on December 31, (~~(2016)~~) 2017, for 49 C.F.R. Parts 171, 172 and 173.

(2) This publication is referenced in WAC 480-14-250 (Insurance requirements).

(3) Copies of Title 49 C.F.R. are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>, and from various third-party vendors.

**WAC 480-15-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. They are available for inspection at the commission (~~branch of the Washington state~~) library. The publications, effective dates, references within this chapter, and availability of the resources are as follows:

(1) **North American Standard Out-of-Service Criteria** (OOSC) is published by the Commercial Vehicle Safety Alliance (CVSA).

(a) The commission adopts the version in effect on April 1, (~~2016~~) 2018.

(b) This publication is referenced in WAC 480-15-560 (Equipment safety requirements).

(c) The *North American Out-of-Service Criteria* is a copyrighted document. Copies are available from CVSA.

(2) **Title 49 Code of Federal Regulations**, cited as 49 C.F.R., including all appendices and amendments is published by the United States Government Printing Office.

(a) The commission adopts the version in effect on December 31, (~~2016~~) 2017.

(b) This publication is referenced in WAC 480-15-560 (Equipment safety requirements) and WAC 480-15-570 (Driver safety requirements).

(c) Copies of Title 49 Code of Federal Regulations are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>, and from various third-party vendors.

**WAC 480-30-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. They are available for inspection at the commission (~~branch of the Washington state~~) library. The publications, effective dates, references within this chapter, and availability of the resources are as follows:

(1) **North American Standard Out-of-Service Criteria** (OOSC) is published by the Commercial Vehicle Safety Alliance (CVSA).

(a) The commission adopts the version in effect on April 1, (~~2016~~) 2018.

(b) This publication is referenced in WAC 480-30-221 (Vehicle and driver safety requirements).

(c) The *North American Out-of-Service Criteria* is a copyrighted document. Copies are available from CVSA.

(2) **Title 49 Code of Federal Regulations**, cited as 49 C.F.R., including all appendices and amendments is published by the United States Government Printing Office.

(a) The commission adopts the version in effect on (~~December 31, 2016~~) July 1, 2017.

(b) This publication is referenced in WAC 480-30-221 (Vehicle and driver safety requirements) and WAC 480-30-226 (Intrastate medical waivers).

(c) Copies of Title 49 Code of Federal Regulations are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>, and from various third-party vendors.

**WAC 480-31-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. They are available for inspection at the commission (~~branch of the Washington state~~) library. The publications, effective dates, references within this chapter, and availability of the resources are as follows:

(1) **North American Standard Out-of-Service Criteria** (OOSC) is published by the Commercial Vehicle Safety Alliance (CVSA).

(a) The commission adopts the version in effect on April 1, (~~2016~~) 2018.

(b) This publication is referenced in WAC 480-31-120 (Equipment—Inspection—Ordered for repairs).

(c) The *North American Out-of-Service Criteria* is a copyrighted document. Copies are available from CVSA.

(2) **Title 49 Code of Federal Regulations**, cited as 49 C.F.R., including all appendices and amendments is published by the United States Government Printing Office.

(a) The commission adopts the version in effect on (~~December 31, 2016~~) July 1, 2017.

(b) This publication is referenced in WAC 480-31-100 (Equipment—Safety), WAC 480-31-120 (Equipment—Inspection—Ordered for repairs), and WAC 480-31-130 (Operation of motor vehicles).

(c) Copies of Title 49 Code of Federal Regulations are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>, and from various third-party vendors.

AMENDATORY SECTION (Amending WSR 11-04-041, filed 1/25/11, effective 2/25/11)

**WAC 480-70-201 Vehicle and driver safety requirements.** (1) Companies must comply with all state and local laws and rules governing vehicle and driver safety. Companies must also comply with the parts of Title 49, Code of Federal Regulations (49 C.F.R.) shown in the following chart, that are adopted by reference. Information about 49 C.F.R. regarding the version adopted and where to obtain copies is set out in WAC 480-70-999.

| <b>49 C.F.R. Part Adopted:</b> |   | <b>Portions Not Adopted:</b>   |
|--------------------------------|---|--|
| Part 40 -                      | Procedures for Transportation Workplace Drug and Alcohol Testing Programs | n/a  |
| Part 379 -                     | Preservation of Records   | n/a  |
| Part 380 -                     | Special Training Requirements   | n/a  |
| Part 382 -                     | Controlled Substance and Alcohol Use and Testing                          | n/a  |
| Part 383 -                     | Commercial Driver's License Standards; Requirements and Penalties         | n/a  |
| Part 385 -                     | Safety Fitness Procedures   | n/a  |
| Part 390 -                     | Safety Regulations, General   | (1) The terms "motor vehicle," "commercial motor vehicle," and "private vehicle" are not adopted. Instead, where those terms are used in Title 49 C.F.R., they shall have the meanings assigned to them in WAC 480-70-041 (private vehicle) and WAC 480-70-196 (commercial motor vehicle).<br><br>(2) Whenever the term "director" is used in Title 49 C.F.R., it shall mean the commission. |
| Part 391 -                     | Qualification of Drivers  | (1) A driver who operates exclusively within the state of Washington is not subject to the provisions of Part 391.49 (waiver of certain physical defects), if that driver has obtained from the Washington department of licensing a driver's license with endorsements and restrictions allowing operation of the motor vehicle being driven.   |

| 49 C.F.R. Part Adopted:   | Portions Not Adopted:  |
|---|--|
|   | (2) A driver who operates exclusively ( <del>within the state of Washington</del> ) <u>in intrastate commerce</u> is not subject to the provisions of Part 391.11(b)(1) (general qualifications – age). A driver operating exclusively ( <del>within the state of Washington</del> ) <u>in intrastate commerce</u> may drive a motor vehicle if he or she is at least eighteen years of age. |
| Part 392 - Driving of Motor Vehicles  | n/a  |
| Part 393 - Parts and Accessories Necessary for Safe Operation               | n/a  |
| Part 395 - Hours of Service of Drivers                                      | n/a  |
| Part 396 - Inspection, Repair, and Maintenance                              | n/a  |
| Part 397 - Transportation of Hazardous Materials, Driving and Parking Rules | n/a  |

(2) Companies must:

- (a) Maintain all motor vehicles in a safe and sanitary condition;
- (b) Ensure that vehicles are free of defects likely to result in an accident or breakdown; and
- (c) Make vehicles available for inspection by commission representatives.

(3) The commission will place out-of-service any motor vehicle having safety defects identified in the *North American Uniform Out-Of-Service Criteria*. Information about the *North American Uniform Out-Of-Service Criteria* regarding the version adopted and where to obtain copies is set out in WAC 480-70-999. A company must not operate any vehicle placed out-of-service until after proper repairs have been completed.

(4) The commission will place out-of-service any driver meeting criteria identified in the *North American Uniform Out-Of-Service Criteria*. A company must not allow a driver who has been placed out-of-service to operate a motor vehicle until such time as the conditions causing the driver to be placed out-of-service have been corrected.



**WAC 480-70-999 Adoption by reference.** In this chapter, the commission adopts by reference all, or portions of, regulations and standards identified below. They are available for inspection at the commission (~~branch of the Washington state~~) library. The publications, effective dates, references within this chapter, and availability of the resources are as follows:

(1) **The North American Standard Out-of-Service Criteria** is published by the Commercial Vehicle Safety Alliance (CVSA).

(a) The commission adopts the version in effect on April 1, (~~2016~~) 2018.

(b) This publication is referenced in WAC 480-70-201 (Vehicle and driver safety requirements).

(c) The *North American Out-of-Service Criteria* is a copyrighted document. Copies are available from CVSA.

(2) **Title 40 Code of Federal Regulations**, cited as 40 C.F.R., including all appendices and amendments is published by the United States Government Printing Office.

(a) The commission adopts the version in effect on (~~December 31, 2016~~) July 1, 2017.

(b) This publication is referenced in WAC 480-70-041 (Definitions, general).

(c) Copies of Title 40 Code of Federal Regulations are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>, and from various third-party vendors.

(3) **Title 49 Code of Federal Regulations**, cited as 49 C.F.R., including all appendices and amendments is published by the United States Government Printing Office.

(a) The commission adopts the version in effect on (~~December 31, 2016~~) July 1, 2017.

(b) This publication is referenced in WAC 480-70-201 (Vehicle and driver safety requirements), WAC 480-70-431 (Biomedical waste, adoption of federal regulations), and WAC 480-70-486 (Hazardous waste, adoption of federal regulations).

(c) Copies of Title 49 Code of Federal Regulations are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>, and from various third-party vendors.

AMENDATORY SECTION (Amending WSR 14-05-001, filed 2/5/14, effective 3/8/14)

**WAC 480-73-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. They are available for inspection at the commission (~~branch of the Washington state~~) library. The publications, effective date, references within this chapter, and availability of the resources are as follows:

(1) **Title 18 Code of Federal Regulations**, cited as 18 C.F.R., is published by the United States Government Printing Office.

(2) The commission adopts the version in effect on (~~September 23, 2013~~) April 1, 2017.

(3) This publication is referenced in WAC 480-73-130 (Accounting system requirements), WAC 480-73-150 (Retaining and preserving records and reports), and WAC 480-73-160 (Annual reports).

(4) Copies of Title 18 Code of Federal Regulations are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>, and from various third-party vendors.

**WAC 480-75-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. They are available for inspection at the commission (~~branch of the Washington state~~) library. The publications, effective dates, references within this chapter, and availability of the resources are as follows:

(1) **Title 49 Code of Federal Regulations**, cited as 49 C.F.R., Parts 195, 198, and 199 including all appendices and amendments except for 49 C.F.R. Sections 195.0 and 195.1, and 49 C.F.R. Sections 199.1 and 199.2, published by the United States Government Printing Office.

(a) The commission adopts the version in effect on (~~March 6, 2015~~) January 23, 2017.

(b) This publication is referenced in WAC 480-75-370 (Design factor (*F*) for steel pipe) and WAC 480-75-660 (Procedural manual for operations, maintenance, and emergencies).

(c) Copies of Title 49 Code of Federal Regulations are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>.

(2) **The American Society of Mechanical Engineers (ASME) B31.4**, 2006 edition, October 20, 2006.

(a) This publication is referenced in WAC 480-75-350 (Design specifications for new pipeline projects), WAC 480-75-440 (Pipeline repairs), and WAC 480-75-450 (Construction specifications).

(b) Copies of ASME B31.4 are available from ASME, <http://www.asme.org/codes/>. It is also available for inspection at the commission.

(3) The 2007 edition, July 2007, of **Section IX of the ASME Boiler and Pressure Vessel Code**.

(a) This publication is referenced in WAC 480-75-430 (Welding procedures).

(b) Copies of the 2007 edition, of *Section IX of the ASME Boiler and Pressure Vessel Code* are available from ASME, <http://www.asme.org/codes/>. It is also available for inspection at the commission.

(4) The commission adopts **American Petroleum Institute (API) standard 1104** (20th edition 2005, including errata/addendum July 2007 and errata 2 (December 2008)).

(a) This publication is referenced in WAC 480-75-430 (Welding procedures) and WAC 480-75-460 (Welding inspection requirements).

(b) Copies of API standard 1104 (20th edition 2005, including errata/addendum July 2007 and errata December 2008) are available from the Office of API Publishing Services, <http://www.api.org/>. It is also available for inspection at the commission.

**WAC 480-90-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. They are available for inspection at the commission (~~branch of the Washington state~~) library. The publications, effective date, references within this chapter, and availability of the resources are as follows:

(1) **Title 18 Code of Federal Regulations**, cited as 18 C.F.R., including all appendices and amendments is published by the United States Government Publishing Office.

(a) The commission adopts the version in effect on April 1, 2015.

(b) The accounting and reporting for the types of transactions and events covered by the amendment should not be construed as indicative of their treatment by this commission for ratemaking purposes.

(c) This publication is referenced in WAC 480-90-203 (Accounting system requirements), WAC 480-90-244 (Transferring cash or assuming obligations), WAC 480-90-252 (Federal Energy Regulatory Commission (FERC) Form No. 2), and WAC 480-90-268 (Essential utilities services contracts report).

(d) Copies of Title 18 Code of Federal Regulations are available from the U.S. Government Publishing Office in Washington, D.C., or online at <http://www.gpo.gov/>, and from various third-party vendors. It is also available for inspection at the commission branch of the state library.

(2) The **Regulations to Govern the Preservation of Records of Electric, Gas, and Water Utilities** is published by the National Association of Regulatory Utility Commissioners (NARUC).

(a) The commission adopts the version in effect in 2007.

(b) This publication is referenced in WAC 480-90-228 (Retention and preservation of records and reports).

(c) The *Regulations to Govern the Preservation of Records of Electric, Gas, and Water Companies* is a copyrighted document. Copies are available from NARUC, in Washington, D.C. or at NARUC publications store online: <http://www.naruc.org/store>. It is also available for inspection at the commission branch of the state library.

**WAC 480-93-999 Adoption by reference.** In this chapter, the commission adopts by reference each of the regulations and/or standards identified below. Each regulation or standard is listed by publication, publisher, scope of what the commission is adopting, effective date of the regulation or standard, the place within the commission's rules the regulation or standard is referenced, and where to obtain the regulation or standard.

(1) Parts 191, 192, 193, 198, and 199 of Title 49 Code of Federal Regulations, including all appendices and amendments thereto as published by the United States Government Printing Office.

(a) The commission adopts the version of the above regulations that were in effect on (~~March 6, 2016~~) January 23, 2017, except the following sections are not adopted by reference: 191.1, 192.1(a), 193.2001(a), 199.1. In addition, please note that in WAC 480-93-013, the commission includes "new construction" in the definition of "covered task," as defined in 49 C.F.R. § 192.801 (b)(2).

(b) This publication is referenced in WAC 480-93-005 (Definitions), WAC 480-93-080 (Welder and plastic joiner identification and qualification), WAC 480-93-100 (Valves), WAC 480-93-110 (Corrosion control), WAC 480-93-124 (Pipeline markers), WAC 480-93-170 (Tests and reports for gas pipelines), WAC 480-93-180 (Plans and procedures), and WAC 480-93-18601 (Leak classification and action criteria—Grade—Definition—Priority of leak repair).

(c) Copies of Title 49 Code of Federal Regulations are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>. It is also available for inspection at the commission.

(2) Section IX of the American Society of Mechanical Engineers (ASME) Boiler and Pressure Vessel Code.

(a) The commission adopts the 2007 edition, July 1, 2007, of Section IX of the ASME Boiler and Pressure Vessel Code.

(b) This publication is referenced in WAC 480-93-080.

(c) Copies of Section IX of the ASME Boiler and Pressure Vessel Code (2007 edition, including addenda through July 1, 2005) are available from ASME, <http://www.asme.org/codes/>. It is also available for inspection at the commission.

(3) The American Petroleum Institute (API) standard 1104 (20th edition October 2005, including errata/addendum July 2007 and errata 2 (2008)).

(a) The commission adopts the 20th edition 2005, including errata/addendum July 2007 and errata 2 (2008) of this standard.

(b) This standard is referenced in WAC 480-93-080.

(c) Copies of API standard 1104 (20th edition 2005, including errata/addendum July 2007 and errata December 2008) are available from the Office of API Publishing Services, <http://www.api.org/>. It is also available for inspection at the commission.

**WAC 480-100-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. The publications, effective date, references within this chapter, and availability of the resources are as follows:

(1) **Title 18 Code of Federal Regulations**, cited as 18 C.F.R., including all appendices and amendments is published by the United States Government Publishing Office.

(a) The commission adopts the version in effect on April 1, 2015.

(b) The accounting and reporting for the types of transactions and events covered by the amendment should not be construed as indicative of their treatment by this commission for ratemaking purposes.

(c) This publication is referenced in WAC 480-100-203 (Accounting system requirements), WAC 480-100-244 (Transferring cash or assuming obligations), WAC 480-100-252 (Federal Energy Regulatory Commission (FERC) Form No. 1), and WAC 480-100-268 (Essential utilities services contracts report).

(d) Copies of Title 18 Code of Federal Regulations are available from the U.S. Government Publishing Office in Washington D.C., or online at <http://www.gpo.gov/>, and from various third-party vendors. It is also available for inspection at the commission (~~branch of the state~~) library.

(2) The **Regulations to Govern the Preservation of Records of Electric, Gas, and Water Utilities** is published by the National Association of Regulatory Utility Commissioners (NARUC).

(a) The commission adopts the version in effect in 2007.

(b) This publication is referenced in WAC 480-100-228 (Retention and preservation of records and reports).

(c) The *Regulations to Govern the Preservation of Records of Electric, Gas, and Water Companies* is a copyrighted document. Copies are available from NARUC in Washington, D.C. or at NARUC publications store online: <http://www.naruc.org/store>. It is also available for inspection at the commission branch of the state library.

(3) The **National Electrical Code** is published by the National Fire Protection Association (NFPA).

(a) The commission adopts the edition effective in 2017, including errata 70-17-1 published September 29, 2016, errata 70-17-2 published December 16, 2016, ~~(and)~~ 70-17-3 published January 11, 2017, and 70-17-4 published March 13, 2017.

(b) This publication is referenced in WAC 480-100-163 (Service entrance facilities).

(c) The National Electrical Code is a copyrighted document. Copies are available from the NFPA at 1 Batterymarch Park, Quincy, Massachusetts 02169, or at internet address <http://www.nfpa.org/>.

(4) The **American National Standard for Electric Meters: Code for Electricity Metering**, ANSI C12.1 is published by the American National Standards Institute.

(a) The commission adopts the version published in 2016.

(b) This publication is referenced in WAC 480-100-318 (Meter readings, multipliers, and test constants), WAC 480-100-338 (Accuracy requirements for electric meters), and WAC 480-100-343 (Statement of meter test procedures).

(c) The ANSI C12.1 is a copyrighted document. ANSI C12.1 - 2016 is available at American National Standards Institute web site <http://webstore.ansi.org/> (PDF) or at IHS Standards Store web site <https://global.ihs.com/> (PDF and print).

**WAC 480-108-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. The publications, effective date, references within this chapter, and availability of the resources are as follows:

(1) The National Electrical Code is published by the National Fire Protection Association (NFPA).

(a) The commission adopts the edition effective 2017, including errata 70-17-1 published September 29, 2016, errata 70-17-2 published December 16, 2016, ~~((and))~~ 70-17-3 published January 11, 2017, and 70-17-4 published March 13, 2017.

(b) This publication is referenced in WAC 480-108-040 (General terms and conditions of interconnection).

(c) The National Electrical Code is a copyrighted document. Copies are available from the NFPA at 1 Batterymarch Park, Quincy, Massachusetts, 02169 or at internet address <http://www.nfpa.org/>.

(2) National Electrical Safety Code (NESC).

(a) The commission adopts the 2017 edition.

(b) This publication is referenced in WAC 480-108-040 (General terms and conditions of interconnection).

(c) Copies of the National Electrical Safety Code are available from the Institute of Electrical and Electronics Engineers at <http://standards.ieee.org/nesc>.

(3) Institute of Electrical and Electronics Engineers (IEEE) Standard 1547, Standard for Interconnecting Distributed Resources with Electric Power Systems.

(a) The commission adopts the version published in 2003 and reaffirmed in 2008, including amendment 1547a-2014, published May 21, 2014.

(b) This publication is referenced in WAC 480-108-040 (General terms and conditions of interconnection).

(c) Copies of IEEE Standard 1547 are available from the Institute of Electrical and Electronics Engineers at <http://www.ieee.org>.

(4) American National Standards Institute (ANSI) Standard C37.90, IEEE Standard for Relays and Relay Systems Associated with Electric Power Apparatus.

(a) The commission adopts the version published in 2005 and reaffirmed in 2011.

(b) This publication is referenced in WAC 480-108-040 (General terms and conditions of interconnection).

(c) Copies of IEEE Standard C37.90 are available from the Institute of Electrical and Electronics Engineers at <http://www.ieee.org>.

(5) Institute of Electrical and Electronics Engineers (IEEE) Standard 519, Recommended Practices and Requirements for Harmonic Control in Electrical Power Systems.

(a) The commission adopts the version published June 11, 2014.

(b) This publication is referenced in WAC 480-108-040 (General terms and conditions of interconnection).

(c) Copies of IEEE Standard 519 are available from the Institute of Electrical and Electronics Engineers at <http://www.ieee.org>.

(6) Institute of Electrical and Electronics Engineers (IEEE) Standard 141, Recommended Practice for Electric Power Distribution for Industrial Plants.



(a) The commission adopts the version published in 1993 and reaffirmed in 1999.

(b) This publication is referenced in WAC 480-108-040 (General terms and conditions of interconnection).

(c) Copies of IEEE Standard 141 are available from the Institute of Electrical and Electronics Engineers at <http://www.ieee.org>.

(7) Institute of Electrical and Electronics Engineers (IEEE) Standard 142, Recommended Practice for Grounding of Industrial and Commercial Power Systems.

(a) The commission adopts the version published in 2007.

(b) This publication is referenced in WAC 480-108-040 (General terms and conditions of interconnection).

(c) Copies of IEEE Standard 142 are available from the Institute of Electrical and Electronics Engineers at <http://www.ieee.org>.

(8) Underwriters Laboratories (UL), including UL Standard 1741, Inverters, Converters, Controllers and Interconnection Systems Equipment for Use with Distributed Energy Resources.

(a) The commission adopts the version published January 28, 2010.

(b) This publication is referenced in WAC 480-108-040 (General terms and conditions of interconnection).

(c) UL Standard 1741 is available from Underwriters Laboratory at <http://www.ul.com>.

(9) Occupational Safety and Health Administration (OSHA) Standard at 29 C.F.R. 1910.269.

(a) The commission adopts the version published on November 18, 2016, effective January 17, 2017.

(b) This publication is referenced in WAC 480-108-040 (General terms and conditions of interconnection).

(c) Copies of Title 29 Code of Federal Regulations are available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>, and from various third-party vendors.

**WAC 480-109-999 Adoption by reference.** In this chapter, the commission adopts by reference all, or portions of, the publications identified below. They are available for inspection at the commission ((branch of the Washington state)) library. The publications, publication dates, references within this chapter, and availability of the resources are as follows:

(1) *Northwest Conservation and Electric Power Plan* as published by the Northwest Power and Conservation Council.

(a) The commission adopts the seventh version published in 2016.

(b) This publication is referenced in WAC 480-109-100 Energy efficiency resource standard.

(c) Copies of *Seventh Northwest Conservation and Electric Power Plan* are available from the Northwest Power and Conservation Council at <https://www.nwcouncil.org/energy/powerplan/7/plan/>.

(2) *Weatherization Manual* as published by the Washington state department of commerce.

(a) The commission adopts the version published in July 2015 (with 2016 revisions).

(b) This publication is referenced in WAC 480-109-100 Energy efficiency resource standard.

(c) Copies of *Weatherization Manual* are available from the Washington state department of commerce at ((~~<http://www.commerce.wa.gov/wp-content/uploads/2016/07/ws-manual-2016.pdf>~~)) <http://www.commerce.wa.gov/wp-content/uploads/2016/07/wx-manual-2016.pdf>.

(3) The unit energy savings values as published by the Northwest Power and Conservation Council's Regional Technical Forum.

(a) The commission adopts the unit energy savings with status of "Active" or "Under Review" on January 10, 2016.

(b) This information is referenced in WAC 480-109-100 Energy efficiency resource standard.

(c) The spreadsheets containing the unit energy savings values are available for download at <https://rtf.nwcouncil.org/measures/Default.asp>.

(4) The standard protocols as published by the Northwest Power and Conservation Council's Regional Technical Forum.

(a) The commission adopts the standard protocols with status of "Active" or "Under Review" on January 10, 2016.

(b) This information is referenced in WAC 480-109-100 Energy efficiency resource standard.

(c) The spreadsheets containing the standard protocols are available for download at <https://rtf.nwcouncil.org/standard-protocols>.

**WAC 480-120-999 Adoption by reference.** In this chapter, the commission adopts by reference all or portions of regulations and standards identified below. They are available for inspection at the commission (~~branch of the Washington state~~) library. The publications, effective dates, references within this chapter, and availability of the resources are as follows:

(1) **American National Standards for Telecommunications** - "*Network Performance Parameters for Dedicated Digital Services for Rates Up To and Including DS3 - Specifications*" (ATIS 0100510) is published by the American National Standards Institute (ANSI).

(a) The commission adopts the version in effect on December 29, 1999, and reaffirmed 2013.

(b) This publication is referenced in WAC 480-120-401 (Network performance standards).

(c) The American National Standards for Telecommunications "*Network Performance Parameters for Dedicated Digital Services for Rates Up To and Including DS3 - Specifications*" is a copyrighted document. Copies are available from ANSI in Washington, D.C. and from various third-party vendors.

(2) **The Institute of Electrical And Electronic Engineers (IEEE) Standard Telephone Loop Performance Characteristics** (ANSI/IEEE Std 820-2005) is published by the ANSI and the IEEE.

(a) The commission adopts the version in effect as published in 2005.

(b) This publication is referenced in WAC 480-120-401 (Network performance standards).

(c) *The IEEE Standard Telephone Loop Performance Characteristics* is a copyrighted document. Copies are available from ANSI and IEEE in Washington, D.C. and from various third-party vendors.

(3) **The National Electrical Safety Code** is published by the IEEE.

(a) The commission adopts the ((2012)) 2017 edition.

(b) This publication is referenced in WAC 480-120-402 (Safety).

(c) *The National Electrical Safety Code* is a copyrighted document. Copies are available from IEEE in Washington, D.C. and from various third-party vendors.

(4) **Title 47 Code of Federal Regulations**, cited as 47 C.F.R., is published by the United States Government Printing Office.

(a) For this publication as referenced in WAC 480-120-359 (Accounting requirements for companies not classified as competitive) and WAC 480-120-349 (Retaining and preserving records and reports), the commission adopts the version of the relevant sections in effect on October 1, 2016.

(b) For this publication as referenced in WAC 480-120-202 (Customer proprietary network information), WAC 480-120-146 (Changing service providers from one local exchange company to another), and any other reference in chapter 480-120 WAC, the commission adopts the version of the relevant sections in effect on October 1, 2016.

(c) The 2016 version of C.F.R. Title 47 is available from the U.S. Government Online Bookstore, <http://bookstore.gpo.gov/>, and from various third-party vendors.