Chapter 480-75 WAC

HAZARDOUS LIQUID, GAS, OIL AND PETROLEUM PIPELINE COMPANIES--SAFETY

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480-75-005 Compliance with federal standards. [Statutory Authority: RCW 80.01.040, 80.04.160, 81.04.160, and 34.05.310. 01-20-061 (Docket No. A-010827, General Order No. R-491), § 480-75-005, filed 9/28/01, effective 10/29/01. Statutory Authority: RCW 34.05.310, 34.05.356, 80.01.040, 80.04.160 and 80.04.160 [81.04.160]. 99-20-013 (Order R-465, Docket No. A-980247), § 480-75-005, filed 9/24/99, effective 10/25/99. Statutory Authority: RCW 80.01.040. 99-02-036 (Order R-456, Docket No. TO-980905), § 480-75-005, filed 12/30/98, effective 1/30/99. Statutory Authority: RCW 80.01.040 and 80.04.160. 97-07-042 (Order R-439, Docket No. TO-960810), § 480-75-005, filed 3/14/97, effective 4/14/97.] Repealed by 02-18-032 (Docket No. TO-000712, General Order No. R-500), filed 8/26/02, effective 9/26/02. Statutory Authority: RCW 80.01.040 and 80.04.160.

480-75-010 Annual reports. [Statutory Authority: RCW 80.01.040. 90-01-058 (Order R-313, Docket No. U-89-3099-R), § 480-75-010, filed 12/15/89, effective 1/15/90.] Repealed by 02-18-032 (Docket No. TO-000712, General Order No. R-500), filed 8/26/02, effective 9/26/02. Statutory Authority: RCW 80.01.040 and 80.04.160.

480-75-223 Civil penalty for violation of chapter 81.88 RCW or regulations issued thereunder--Maximum amount. [Statutory Authority: RCW 80.01.040. 99-02-036 (Order R-456, Docket No. TO-980905), § 480-75-223, filed 12/30/98, effective 1/30/99.] Repealed by 02-18-032 (Docket No. TO-000712, General Order No. R-500), filed 8/26/02, effective 9/26/02. Statutory Authority: RCW 80.01.040 and 80.04.160.

480-75-230 Modification/waivers. [Statutory Authority: RCW 80.01.040 and 80.04.010, 97-07-042 (Order R-439, Docket No. TO-960810), § 480-75-230, filed 3/14/97, effective 4/14/97.] Repealed by 02-18-032 (Docket No. TO-000712, General Order No. R-500), filed 8/26/02, effective 9/26/02. Statutory Authority: RCW 80.02.040 and 80.04.160.

GENERAL RULES

WAC 480-75-100 Definitions. "Backfill" means the material filled over the pipe after the pipe is lowered into a trench.
"Bedding" means the material placed in the bottom of a trench prior to laying a pipe.
"Breakout tank" means a tank that is used to relieve surges in a hazardous liquid pipeline system, or a tank used to receive and store hazardous liquid transported by a pipeline for reinjection and continued transportation by pipeline.
"Company," "pipeline company," or "hazardous liquid pipeline company" means a person or entity constructing, owning, or operating a pipeline for transporting hazardous liquid or carbon
dioxide. A "pipeline company" does not include: (a) Distribution systems owned and operated under franchise for the sale, delivery, or distribution of natural gas at retail; or (b) excavation contractors or other contractors that contract with a pipeline company.

"Hazardous liquid" means (a) petroleum, petroleum products, or anhydrous ammonia as those terms are defined in 49 CFR Part 195 and (b) carbon dioxide.

"Independent level alarm" means an alarm function actuated by a primary level sensing device that is separate and independent from any tank gauging equipment on the tank.

"Major construction" means any change in pipeline routing, either horizontally or depth, or replacement of existing pipe of one hundred feet or more in length.

"Maximum operating pressure (MOP)" means the maximum operating pressure at which a pipeline may be operated under 49 CFR Part 195.

"New pipeline" means a new pipeline that did not previously exist, or an extension of an existing pipeline for one hundred feet or longer.

"Operator" means a person who owns or operates pipeline facilities.

"Person" means an individual, partnership, franchise holder, association, corporation, a state, a city, a county, or any political subdivision or instrumentality of a state, and its employees, agents, or legal representatives.

"Pipeline," "pipeline system," or "hazardous liquid pipeline" means all parts of a pipeline facility through which hazardous liquid moves in transportation, including, but not limited to, line pipe, valves, and other appurtenances connected to line pipe, pumping units, fabricated assemblies associated with pumping units, metering and delivery stations and fabricated assemblies therein, and breakout tanks. Pipeline or pipeline system does not include process or transfer pipelines.

"Pipeline facility" means new and existing pipeline, rights of way and any equipment, facility, or building used in the transportation of hazardous liquids or carbon dioxide.

"Release" means when hazardous liquid escapes from the pipeline.

"Subsoiling" means the agricultural practice of breaking compact subsoil.

"Telephonic notification" means verbal notification by telephone to the Washington utilities and transportation commission, pipeline safety division.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-100, filed 8/26/02, effective 9/26/02.]

WAC 480-75-200 Application of rules. The rules in this chapter apply to hazardous liquid pipeline companies that are subject to
the jurisdiction of the commission under chapter 81.88 RCW. The purpose of the rules is to provide minimum safety standards and reporting requirements for the transportation of hazardous liquids by pipeline.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-200, filed 8/26/02, effective 9/26/02.]

WAC 480-75-210 Additional requirements. (1) These rules do not relieve any company from any of its duties and obligations under the laws of the state of Washington.
(2) The commission retains the authority to impose additional or different requirements on any company in appropriate circumstances, consistent with the requirements of law.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-210, filed 8/26/02, effective 9/26/02.]

WAC 480-75-220 Severability. If any provision of this chapter or its application to any person or circumstance is held invalid, the remainder of the chapter or the application of the provision to other persons or circumstances is not affected.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-220, filed 8/26/02, effective 9/26/02.]

WAC 480-75-240 Annual pipeline safety fee methodology. (1) Every hazardous liquid pipeline company subject to inspection or enforcement by the commission will pay an annual pipeline safety fee as established in the methodology set forth in section (2) below.
(2) The fee will be set by general order of the commission entered before July 1 of each year and will be collected in four equal installments payable on the first day of each calendar quarter, beginning July 1, 2001.
(a) The total of pipeline safety fees will be calculated to recover the costs of the legislatively authorized workload represented by current appropriations, less the amount received in federal funds through the Federal Department of Transportation's Hazardous Liquids Pipeline Safety Program base grant. Federal grants, other than the federal base grant, received by the commission for additional activities not included or anticipated in the legislatively directed workload will not be credited against company pipeline safety fees, nor will the work supported by such grants be considered a cost for purposes of
calculating such fees.
(b) Total pipeline fees as determined in (a) will be divided between intrastate hazardous liquid pipeline companies and interstate hazardous liquid pipeline companies based on two components:
   (i) The first component is direct assignment of average costs associated with a company's standard inspections, including the average number of inspection days per year which will be determined annually. Standard inspections are conducted to comply with the state's participation requirement under the "Guidelines for States Participating in the Pipeline Safety Program" of the Federal Department of Transportation, Office of Pipeline Safety. 
   (ii) The second component is an allocation of the remaining program costs that are not directly assigned in (i). Distribution of these costs between interstate and intrastate hazardous liquid pipeline companies will be based on miles of pipeline operated within Washington state.
(b) The commission general order setting fees pursuant to this rule will detail the allocation of program costs between interstate and intrastate hazardous liquid companies and the specific calculation of each company's pipeline fee.
(3) By April 1 of each year every hazardous liquids pipeline company subject to this section must file an annual report as prescribed by the commission that is necessary to establish the annual pipeline safety fee. By June 1 of each year the commission staff will mail to each company subject to this section an annual invoice showing an estimate of the quarterly amounts.
(4) All funds received by the commission for the pipeline safety program will be deposited to the pipeline safety account. For those companies subject to RCW 81.24.010 the portion of the company's total regulatory fee applicable to pipeline safety will be transferred from the public service revolving fund to the pipeline safety account.
(5) Any company wishing to contest the amount of the fee imposed under this section must pay the fee and, within 6 months of the due date of the fee, file a petition in writing with the commission requesting a refund. The petition shall state the name of the petitioner; the date and the amount paid, including a copy of any receipt, if available; the amount of the fee that is contested; and any reasons why the commission may not impose the fee. The commission may grant the petition administratively or may set the petition for adjudication or for brief adjudication.

[Statutory Authority: RCW 80.01.040, 80.04.160, 81.04.160 and 2001 c 238 § 2. 02-03-016 (Docket No. UG-010522, General Order No. R-497), § 480-75-240, filed 1/4/02, effective 2/4/02.]

WAC 480-75-250 Civil penalty for violation of chapter 81.88 RCW.
(1) Any company that violates any public safety provision of chapter 81.88 RCW or regulation issued thereunder, required for
compliance with the Federal Pipeline Safety Law, 49 U.S.C. Section 60101, is subject to a civil penalty not to exceed twenty-five thousand dollars for each violation for each day that the violation persists. The maximum civil penalty under this subsection for a related series of violations is five hundred thousand dollars. This subsection applies to violations of public safety requirements including any commission order or chapter 480-75 WAC.

(2) In determining the amount of the penalty, the commission will consider the appropriateness of the penalty in relation to the position of the person charged with the violation.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-250, filed 8/26/02, effective 9/26/02.]

WAC (1/28/04 12:18 PM) [ ]

WAC 480-75-260 Exemption for rules in chapter 480-75 WAC. (1) The commission may grant an exemption from the provisions of any rule in this chapter if consistent with the public interest, with the purposes underlying regulation, and with applicable statutes.

(2) To request a rule exemption, a person must file with the commission a written request identifying the rule for which an exemption is sought, giving a full explanation of the reason for the exemption.

(3) The commission will assign the request a docket number, if it does not arise in an existing docket, and will schedule the request for consideration at one of its regularly scheduled open meetings or, if appropriate under chapter 34.05 RCW, in an adjudication. The commission will notify the person requesting the exemption, and other interested persons, of the date of the hearing or open meeting when the commission will consider the request.

(4) In determining whether to grant the request, the commission may consider whether application of the rule would impose undue hardship on the petitioner, of a degree or a kind different from hardship imposed on other similarly situated persons, and whether the effect of applying the rule would be contrary to the purpose of the rule.

(5) The commission will enter an order granting or denying the request, or setting it for hearing pursuant to chapter 480-07 WAC.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 03-24-028 (General Order R-510, Docket No. A-010648), § 480-75-260, filed 11/24/03, effective 1/1/04; 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-260, filed 8/26/02, effective 9/26/02.]
WAC 480-75-300 Leak detection. (1) Companies must rapidly locate leaks from their pipeline. Companies must provide leak detection for under flow and no flow conditions. (2) Leak detection systems must be capable of detecting an eight percent of maximum flow leak within fifteen minutes or less. (3) Companies must have a leak detection procedure and a procedure for responding to alarms. The operator must maintain leak detection maintenance and alarm records.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-300, filed 8/26/02, effective 9/26/02.]

WAC 480-75-310 Geological considerations. New pipeline designs must consider potential impacts from seismic activity and earth movement.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-310, filed 8/26/02, effective 9/26/02.]

WAC 480-75-320 Overpressure protection. A company must conduct a surge analysis to ensure that the surge pressure does not exceed one hundred ten percent of the MOP. The pressure relief system must be designed and operated as determined in the surge analysis, at or below the MOP except under surge conditions.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-320, filed 8/26/02, effective 9/26/02.]

WAC 480-75-330 Overfill protection. Break out tanks must have an independent level alarm.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-330, filed 8/26/02, effective 9/26/02.]

WAC 480-75-340 Cathodic protection test station location. Each cathodically protected pipeline must have test stations and other electrical measurement contact points that are located at pipe casings and at locations sufficient to facilitate cathodic
WAC 480-75-340 Design specifications for new pipeline projects.
New pipeline projects must be designed in accordance with ASME B31.4 "Pipeline Transportation Systems for Liquid Hydrocarbon and Other Liquids." Information about the ASME edition adopted and where to obtain it are set out in WAC 480-75-999, Adoption by reference.

WAC 480-75-360 Class locations. (1) This section classifies pipeline locations for the design of new pipelines. The following criteria apply to classifications under this section.
(a) A "class location unit" is an onshore area that extends 220 yards (200 meters) on either side of the centerline of any continuous 1 mile (1.6 kilometers) of pipeline.
(b) Each separate dwelling unit in a multiple dwelling unit building is counted as a separate building intended for human occupancy.
(2) Except as provided in subsection (3) of this section, pipeline locations are classified as follows:
(a) A Class 1 location is:
(i) An offshore area; or
(ii) Any class location unit that has ten or fewer buildings intended for human occupancy.
(b) A Class 2 location is any class location unit that has more than ten but fewer than forty-six buildings intended for human occupancy.
(c) A Class 3 location is:
(i) Any class location unit that has forty-six or more buildings intended for human occupancy; or
(ii) An area where the pipeline lies within 100 yards (91 meters) of either a building or a small, well-defined outside area (such as a playground, recreation area, outdoor theater, or other place of public assembly) that is occupied by twenty or more persons on at least five days a week for ten weeks in any twelve-month period. (The days and weeks need not be consecutive.)
(d) A Class 4 location is any class location unit where buildings with four or more stories above ground are prevalent.
(3) The continuous one-mile of pipeline must be adjusted to include all buildings in the higher class location. The class location unit must encompass the highest classification of
buildings.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-360, filed 8/26/02, effective 9/26/02.]

WAC (10/2/02 2:29 PM) [ ]

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<th>WAC 480-75-370</th>
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<td>Design factor (F)</td>
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<td>Except as otherwise provided in subsections (1), (2) and (3) of this section, the design factor to be used in the design formula in 49 CFR 195.106 for new pipelines is determined in accordance with the following table. Information about the Code of Federal Regulation regarding the version adopted and where to obtain it is set out in WAC 480-75-999, Adoption by reference. Class location</td>
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WAC (10/2/02 2:29 PM) [ ]

(1) For Class 1 locations a design factor of 0.60 or less must be used in the design formula in 49 CFR 195.106 for steel pipe in Class 1 locations that:
(a) Crosses the right of way of an unimproved public road, without a casing;
(b) Crosses without a casing, or makes a parallel encroachment on
the right of way of either a hard-surfaced road, a highway, a public street, or a railroad;
(c) Is supported by a vehicular, pedestrian, railroad, or pipeline bridge; or
(d) Is used in a fabricated assembly (including mainline valve assemblies, cross-connections, and river crossing headers).
(2) For Class 2 locations, a design factor of 0.50, or less, must be used in the design formula in 49 CFR 195.106 for uncased steel pipe that crosses the right of way of a hard-surfaced road, a highway, a public street, or a railroad.
(3) For Class 1 and Class 2 locations, a design factor of 0.50, or less, must be used in the design formula in 49 CFR 195.106 for:
(a) Steel pipe in a pump station; and
(b) Steel pipe (including a pipe riser, on a platform located offshore or in inland navigable waters).

WAC 480-75-380 Location of pump stations and breakout tanks for hazardous liquid pipelines. No new pump station will be located on any hazardous liquid pipeline or be constructed in any zoned area without prior approval of the appropriate zoning authority and acquisition of required permits. In areas not zoned, the distance between any pump station and any existing building intended for human occupancy and not under the control of the company will not be less than five hundred feet. When locating new pump stations and breakout tanks, the operator must consider such hazards as overhead power lines, geologic faults, areas prone to flooding, landslides, and rock fall. This requirement only applies prior to facility construction.

WAC 480-75-390 Valve spacing and rapid shutdown. (1) Each company must have procedures to rapidly locate and isolate reportable releases from a pipeline.
(2) When determining the type of valve to be used, its location, and its shut-off time, a company must consider the following:
(a) Terrain;
(b) Geohazards;
(c) Drainage; and
(d) Type and condition of the pipe.
(3) Whenever a new rapid shutdown valve is to be installed, the company must conduct a surge analysis to ensure that the surge pressure in the pipeline will not exceed one hundred ten percent of the maximum operating pressure as a result of a rapid valve closure.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 03-01-064 (Docket No. TO-000712, General Order No. R-508), § 480-75-390, filed 12/12/02, effective 1/12/03.]

CONSTRUCTION AND REPAIRS

WAC (10/2/02 2:29 PM) [ ]

WAC 480-75-400 Backfill and bedding requirements. (1) For new pipelines or when conducting maintenance activity for existing pipelines backfilling and bedding must be provided in a manner that will provide firm support for the pipeline and in a manner that neither the pipe nor the pipe coating is damaged by the backfill material or by subsequent surface activities.
(2) Where the backfill material contains rocks or hard lumps that could damage the coating, care must be taken to protect the pipe and the pipe coating from damage by such means as the use of mechanical shield material.
(3) Backfilling procedures must not cause distortion of the pipe cross-section that would be detrimental to the operation of the piping, passage of cleaning, or internal inspection devices.
(4) Backfilling must be performed in such a manner as to prevent excessive subsidence or erosion of the backfill and support material. Where a ditch is flooded, care must be exercised so that the pipe is not floated from the bottom of the ditch prior to backfill completion.
(5) For open trench installations that cross paved areas subject to vehicular loading, the backfill must be compacted in layers to a minimum of ninety-five percent relative density.
(6) Bedding material must be clean sand or soil and must not contain stones having a maximum dimension larger than one-half inch. Material must be placed to a minimum depth of six inches under the pipe and six inches over the top of the pipe. The remaining backfill must not contain rock larger than six inches. Organic material and wood is not permitted for bedding and backfill.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-400, filed 8/26/02, effective 9/26/02.]

WAC 480-75-410 Coatings. All new coated pipe used to transport hazardous liquids must be electrically inspected prior to backfilling, using a holiday detector to check for faults not
observable by visual examination. The holiday detector must be operated in accordance with the manufacturer's instructions and at the voltage level appropriate for the electrical characteristics of the pipeline system being tested.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-410, filed 8/26/02, effective 9/26/02.]

WAC 480-75-420 Hydrostatic test requirements. New or existing hazardous liquid pipelines while being hydrostatically tested must have, at a minimum, the following:
(1) When a manifold is used for hydrostatic testing, then an isolation valve must be provided between the pressure testing manifold and the pipeline being tested. The isolation valve must be rated for the manifold test pressure when in the closed position. The pressure testing manifold in the actual pressure test must be separately pressure tested to at least 1.2 times the pipeline test pressure but not less than the discharge pressure of the pump used for the pressure testing.
(2) When a pressure relief valve is used to protect the pipe, then the pressure relief valve(s) must be of adequate capacity and set to relieve at ten percent above the hydrostatic test pressure. The relief valves must be calibrated within one month prior to the hydrotest.
(3) A bleed valve may be provided to protect the pipeline from overpressure. When a bleed valve is used, it must be readily accessible in case immediate depressurization is required.
(4) A test chart or other recording method that shows that the pressure was maintained at the minimum test pressure throughout the entire test must be documented for all hydrostatic tests. A company representative must sign and date the test to certify the validity of the test. All equipment such as hoses, piping, and other equipment used to hydrostatically test the pipe must be rated for at least the target pressure. Each hydrostatic test of a pipeline must be documented to show:
   (a) Test date;
   (b) Signature of the certifying agent;
   (c) Beginning and ending times of the test;
   (d) Beginning and ending temperatures; and
   (e) Highest and lowest pressure achieved.
(5) Precautions such as warning signs must be posted indicating a pipeline is under test conditions.
(6) Companies must notify public officials who have jurisdiction encompassing the area affected by the pipeline test.
(7) No additional water is allowed to be added to the pipeline once the hydrostatic test has started. As pressure varies significantly with changing test water temperatures, each operator must take into consideration temperature variation in the test water before accepting the test.
(8) Before conducting a hydrostatic test, a company needs to consider Washington state department of ecology regulations for disposal of testing water.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-420, filed 8/26/02, effective 9/26/02.]

WAC 480-75-430 Welding procedures. (1) For new and existing pipelines, all welding procedures and welders must be qualified to the API Standard 1104 or Section IX of the ASME Boiler and Pressure Vessel Code. Information about the API standards and the ASME edition adopted, and where to obtain them, are set out in WAC 480-75-999, Adoption by reference. Each welder qualification test result must be recorded and kept for a period of five years, and:
(a) Operators must use testing equipment necessary to measure the essential variables during welder qualification or requalification, and also for procedure qualification or requalification. All essential variables must be recorded as performed during the welding qualification.
(b) Qualified welding procedures must be on-site where welding is being performed.
(2) Welders must carry appropriate identification and qualification cards showing the name of welder, their qualifications, date of qualification expiration, and the company whose procedures were followed for the qualification. Welders' qualification cards will be subject to commission inspection at all times when personnel are working on facilities subject to commission jurisdiction.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 and 02-20-015 (Docket No. TO-000712, General Order No. R-500), § 480-75-430, filed 8/26/02 and 9/20/02, effective 9/26/02 and 10/21/02.]

WAC 480-75-440 Pipeline repairs. Pipeline repairs must be made in accordance with ASME B31.4 "Pipeline Transportation Systems for Liquid Hydrocarbons and Other Liquids." Information about the ASME edition adopted and where to obtain it are set out in WAC 480-75-999, Adoption by reference.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-440, filed 8/26/02, effective 9/26/02.]

WAC 480-75-450 Construction specifications. New pipeline
construction must conform to the requirements of ASME B31.4. Information about the ASME edition adopted and where to obtain it are set out in WAC 480-75-999, Adoption by reference. The longitudinal seams of connecting pipe joints must be offset by at least two inches. In addition, the longitudinal seams must be located on the upper half of the pipe when laid in the trench. Seamless pipe is exempted from the requirements of the longitudinal seam orientation.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-450, filed 8/26/02, effective 9/26/02.]

**WAC 480-75-460 Welding inspection requirements.** All new girth welds on new or repaired sections of pipe must be one hundred percent inspected by radiography or automatic ultrasonic testing in accordance with API 1104. Information about the API standards adopted and where to obtain it are set out in WAC 480-75-999, Adoption by reference. Companies must keep a log of each weld inspected and keep all inspection records for the life of the pipeline.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-460, filed 8/26/02, effective 9/26/02.]

**OPERATION AND MAINTENANCE**

**WAC 480-75-500 Moving and lowering hazardous liquid pipelines.** Prior to moving or lowering any hazardous liquid pipeline, hazardous liquid pipeline companies must prepare a study, to determine whether the proposed action will cause an unsafe condition. This study must be reviewed and approved by a person designated by the company who is qualified to review the study, and retained in the company's files for the life of the pipeline. The study must include pipe stress calculations based on API RP 1117 "Movement of In-Service Pipelines." Information about the API standards adopted and where to obtain it are set out in WAC 480-75-999, Adoption by reference.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-500, filed 8/26/02, effective 9/26/02.]

**WAC 480-75-510 Remedial action for corrosion deficiencies.** Companies must initiate remedial action as necessary to correct
deficiencies observed during corrosion monitoring, but no later than ninety days after acknowledging the deficiencies.

WAC 480-75-520 Inspections during excavation. Whenever a pipe is exposed for any reason, the operator must examine the pipe for evidence of mechanical damage or external corrosion, including inspecting the coating for evidence of damage. Mechanical damage must be evaluated and repaired as necessary, in accordance with company repair procedures. Coating damage must be repaired prior to reburying the pipeline. If the operator finds active corrosion, general corrosion, or corrosion that has caused a leak, the operator must investigate further to determine the extent of corrosion. The pipeline must be inspected prior to and during backfilling of the exposed section. The results of this inspection must be documented and maintained for the life of the pipeline.

WAC 480-75-530 Right of way inspections. Right of way inspections must be scheduled at least once each calendar week. If weather impedes the ability to conduct a fly-over inspection for a consecutive two week period, the weather condition must be noted and the pipeline right of way inspection must be driven or walked within the two week period.

WAC 480-75-540 Pipeline markers and above ground facilities. Proper pipeline markers must be placed where hazardous liquid pipelines and any associated facilities are exposed. All hazardous liquid pipelines attached to bridges or otherwise spanning an area must have pipeline markers that are visible and readable at both ends of the suspended pipeline. Each operator must inspect all markers annually. Pipeline markers that are found damaged or missing must be replaced within thirty days.
**WAC 480-75-550 Change in class location.** Companies complying with WAC 480-75-360 and 480-75-370 must reevaluate their maximum operating pressure when there is a change in class location. The class location must be reevaluated periodically but not less often than once every five years.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-550, filed 8/26/02, effective 9/26/02.]

**WAC 480-75-600 Maps, drawings, and records of hazardous liquid facilities.** (1) All companies must prepare, maintain, and provide to the commission, upon request, copies of maps, drawings, and records that pertain to hazardous liquid pipeline facilities. The maps, drawings, and records must be of sufficient scale and detail as is necessary to show the size and type of material of all facilities.

(2) Each company must make books, records, reports, and other information available to the commission, so the commission or its authorized representatives can determine whether the company is in compliance with state and federal regulations.

(3) When pipeline facilities are modified, all construction records, revision to maps, and operating history made available to appropriate operations personnel must be updated within six months.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-600, filed 8/26/02, effective 9/26/02.]

**WAC 480-75-610 Reporting requirements for proposed construction.**

(1) At least forty-five days prior to any major construction of any hazardous liquid pipeline intended to be operated at twenty percent or more of the specified minimum yield strength of the pipe used, a report must be filed with the commission setting forth the proposed route and the specifications for such pipeline. The forty-five-day reporting requirement may be waived in the event of an emergency. In the event of an emergency, the company must notify the commission as soon as practical. The report must include, but is not limited to, the following items:

(a) Description and purpose of the proposed pipeline;
(b) Pipe specifications and route map;
(c) Maximum operating pressure for which the pipeline is being
(d) Location and construction details of all river crossings or other unusual construction requirements encountered en route; i.e., places where pipe will be exposed or it is impractical to provide required cover, bridge crossings, lines to be laid parallel to railroads or state highways and encroachments, and other areas requiring special or unusual design and construction considerations;

(e) Corrosion control plan that includes the specifications for coating and for wrapping;

(f) Welding specifications and welding inspection methods and procedures required during construction of the pipeline;

(g) Required bending procedures; and

(h) Location and specification of all mainline block valves indicating whether the valves will be operated by manual or remote control. Indicate other auxiliary equipment to be installed as a part of the pipeline system to be constructed.

(2) For pipelines operating under twenty percent specified minimum yield strength, companies must submit to the commission a written notice at least forty-five days prior to the proposed construction. The notice must include a project description and timeline.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-610, filed 8/26/02, effective 9/26/02.]

WAC 480-75-620 Pressure testing reporting requirements. If pressure testing is to be used to increase the maximum operating pressure of a pipeline, companies must file a report with the commission at least forty-five days prior to pressure testing. The report must include the change in the maximum operating pressure and include the information required to qualify the pipeline for higher operating pressure.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-620, filed 8/26/02, effective 9/26/02.]

WAC 480-75-630 Incident reporting. (1) Every company must give prompt telephonic notice to the commission within two hours of discovery of an incident such as a release of a hazardous liquid resulting in:

(a) A fatality;

(b) Personal injury requiring hospitalization;

(c) Spills of five gallons or more of product (the commission request voluntary compliance with 49 CFR, Part 195.50 (b). If the Washington state legislature adopts this change, then notice of the five-gallon spill will be mandatory);
(d) Damage to the property of the company and others of a combined total cost exceeding twenty-five thousand dollars (automobile collisions and other equipment accidents not involving hazardous liquid or hazardous-liquid-handling equipment need not be reported under this rule);
(e) A significant occurrence in the judgment of the company, even though it does not meet the criteria of (a) through (d) of this subsection;
(f) The news media reports the occurrence, even though it does not meet the criteria of (a) through (e) of this subsection.

(2) A written report must be sent to the commission within one month of the incident. The report must include the following:
(a) Name(s) and address(es) of any person or persons injured or killed or whose property was damaged;
(b) The extent of injuries and damage;
(c) A description of the incident including date, time, and place;
(d) A description and maximum operating pressure of the hazardous liquid facilities implicated in the incident and the system operating pressure at the time of the incident;
(e) The date and time the hazardous liquid facility returns to safe operations; and
(f) The date, time, and type of any temporary or permanent repair.

(3) An operator must give the commission telephonic notification within twenty-four hours of emergency situations including emergency shutdowns, material defects, or physical damage that impairs the serviceability of the pipeline.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-630, filed 8/26/02, effective 9/26/02.]

WAC 480-75-640 Depth-of-cover survey. For pipelines constructed after April 1, 1970. Every five years depth-of-cover surveys must be conducted in rights of way to ensure the minimum depth-of-cover as required by subsections (1) and (2) of this section has been maintained for the entire pipeline. In areas subject to erosion and subsoiling, the survey period is every three years.

WAC (10/2/02 2:29 PM) [ ]

(1) Unless specifically exempted in this section, all pipe must be buried so that it is below the level of cultivation. Except as provided in subsection (2) of this section, the pipe must be installed so that the cover between the top of the pipe and the ground level, road bed, river bottom, or sea bottom, as applicable, complies with the following table:

<table>
<thead>
<tr>
<th>Location</th>
<th>Cover (inches) For normal excavation</th>
<th>Cover (inches) For rock excavation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Industrial, commercial, and residential areas | 36 | 30
---|---|---
Crossings of inland bodies of water with a width of at least 100 ft. from high water mark to high water mark | 48 | 18
Drainage ditches at public roads and railroads | 36 | 36
Deepwater port safety zone | 48 | 24
Any other area | 30 | 18

Note: Rock excavation is any excavation that requires blasting or removal by equivalent means.

(2) Less cover than the minimum required by subsection (1) of this section may be used if:
(a) It is impracticable to comply with the minimum cover requirements; and
(b) Additional protection is provided that is equivalent to the minimum required cover.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-640, filed 8/26/02, effective 9/26/02.]

WAC 480-75-650 Annual reports. (1) The annual report form No. 6 promulgated by the Federal Energy Regulatory Commission (FERC) is hereby adopted for hazardous liquid pipeline companies. At the close of each calendar year, hazardous liquid pipeline companies must secure from the FERC two copies of the annual report forms. The annual report must be completed for the calendar year's operations. One completed copy of the annual report must be submitted to the commission no later than April 1 of the succeeding year. The second completed copy must be retained by the company.
(2) For those companies not required to file form No. 6 the commission requires those companies to file annual report form 224-225 prescribed by the commission. The annual report will be mailed to each company by February 15 of each year. Companies must submit an annual report to the commission no later than April 1 of the succeeding year.

[Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-650,]
WAC 480-75-660 Operations safety plan requirements. (1) Each company must prepare an operations safety plan (plan) that demonstrates the pipeline system is designed, constructed, operated, and periodically modified to provide for protection of the public and the environment. Facility operations must follow the plan. The plan must be thorough and contain enough information, analysis, and supporting documentation to demonstrate the company's ability to meet the requirements of this chapter. The plan may be incorporated into a company's existing operation, maintenance, or emergency plan as required by 49 CFR 195.402.

(2) A log sheet must be included in the plan to record amendments. The log sheet must include the date the old section was eliminated, any new sections that were added, the date, the initials of the individual making the change, and the signature of the person responsible for reviewing the amendment. A description of the amendment(s) and its purpose must be included.

(a) At a minimum, the plan must include the following:
(i) The requirements in chapter 480-75 WAC;
(ii) A schedule of inspection and testing of all the mechanical components and electronic components within the pipeline system;
(iii) Structural integrity of all pipelines determined through pressure testing, in-line inspection surveys, or other appropriate techniques;
(iv) Failsafe systems including emergency shutdown and isolation procedures;
(v) Emergency management training for operators;
(vi) Procedures for responding to earthquakes that must include a threshold for line shutoff, and procedures for integrity monitoring prior to restart; and
(vii) Procedure for assessing the potential for impacts on the pipeline system due to landslides. Operators with facilities located within potential landslide areas must develop monitoring and remediation procedures for ensuring that pipeline integrity is maintained in these areas.

(3) Companies must submit a plan to the commission within twelve months after the adoption of this rule. New companies must submit a plan to the commission no later than sixty days prior to startup.

The plan must be submitted to:
Washington Utilities and Transportation Commission
Pipeline Safety Division
P.O. Box 47250
1300 S. Evergreen Park Dr. SW
Olympia, WA 98504-7250

(4) Amendments to the plan must be submitted to the commission within thirty days of the change.

(5) Companies must ensure that appropriate personnel are trained and familiar with the plan's content.
WAC (2/12/04 2:03 PM) [ ]

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 CFR, Parts 195 and 199 including all appendices and amendments except for 195.0, 195.1, 199.1 and 199.2 published by the United States Government Printing Office.
   (a) The commission adopts the version in effect on June 1, 2002.
   (b) This publication is referenced in WAC 480-75-370 (Design factor (F) for steel pipe), WAC 480-75-630 (Incident reporting), and WAC 480-75-660 (Operations safety plan requirements).
   (c) Copies of Title 49 Code of Federal Regulations are available from the Seattle office of the Government Printing Office and from various third-party vendors.

   (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 The American Society of Mechanical Engineers, Park Avenue New York, New York.

   (a) This publication is referenced in WAC 480-75-430 (Welding procedures).
   (b) Copies of Section IX of the ASME Boiler and Pressure Vessel Code are available from The American Society of Mechanical Engineers, Park Avenue, New York, New York.

   (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 18th edition are available from the Office of API Publishing Services in Washington DC.

   (a) This publication is referenced in WAC 480-75-500 (Moving and lowering hazardous liquid pipelines).
   (b) Copies of API standard 1117 Second Edition are available from the Office of API Publishing Services in Washington DC.

[Statutory Authority: RCW 80.01.040, 80.04.160, 81.04.160 and
34.05.353. 04-01-152 (General Order No. R-511, Docket No. A-030852), § 480-75-999, filed 12/22/03, effective 1/22/04. Statutory Authority: RCW 80.01.040 and 80.04.160. 02-18-032 (Docket No. TO-000712, General Order No. R-500), § 480-75-999, filed 8/26/02, 9/26/02. Statutory Authority: RCW 80.01.040, 80.04.160, 81.04.160, and 34.05.310. 01-20-061 (Docket No. A-010827, General Order No. R-491), § 480-75-999, filed 9/28/01, effective 10/29/01.]