

STANDARD INSPECTION REPORT OF A LIQUID PIPELINE CARRIER

A completed **Standard Inspection Report** is to be submitted to the Director within 60 days from completion of the inspection. A **Post Inspection Memorandum (PIM)** is to be completed and submitted to the Director within 30 days from the completion of the inspection, or series of inspections, and is to be filed as part of the **Standard Inspection Report**.

| Inspection Report | Post Inspection Memorandum |
|--|---|
| Inspector/Submit Date: <u>Kuang Chu / 10/15/2009</u> | Sr Eng Review Date: <u>David Lykken / 11/2/2009</u> Peer Review/Date: _____ Director Approval/Date: _____ |

| POST INSPECTION MEMORANDUM (PIM) | |
|--|---|
| Name of Operator: <u>Kinder Morgan Canada, Inc.</u> | OPID #: <u>19585</u> |
| Name of Unit(s): <u>Trans Mountain Pipeline (Puget Sound) LLC</u> | Unit # (s): <u>285</u> |
| Records Location: <u>Laurel Station</u> | |
| Unit Type & Commodity: <u>Hazardous liquid pipeline for crude oil transportation</u> | |
| Inspection Type: <u>Standard</u> | Inspection Date(s): <u>9/21 – 25/2009</u> |
| PHMSA Representative(s): <u>Kuang Chu/UTC</u> | AFO Days: <u>5</u> |

Summary:

This inspection included a review of the records at the Laurel Station. The field facilities inspection included a visit to the Manley Road. This area historically has low pipe-to-soil potential readings due to high soil resistivity associated with rocky terrain. All the CP test stations at this location were inspected and pipe-to-soil potential readings were taken. All the rectifiers along the pipeline were inspected. Most of the mainline valves were inspected and several manual valves were partially operated. The Laurel Station, Ferndale Station, Burlington Scraper Trap, and the Anacortes Meter Station were inspected. The breakout tanks T-170 & T-180 at Laurel Station, T-130 at Ferndale Station, and T-7 inside Shell refinery in Anacortes were inspected.

Findings:

During the review of the operator's O&M manual, it was noticed that the following three items were not included in the manual:

- **§195.559 What coating material may I use for external corrosion control?**
 Coating material for external corrosion control under Sec. 195.557 must--
 - (a) Be designed to mitigate corrosion of the buried or submerged pipeline;
 - (b) Have sufficient adhesion to the metal surface to prevent under film migration of moisture;
 - (c) Be sufficiently ductile to resist cracking;
 - (d) Have enough strength to resist damage due to handling and soil stress;
 - (e) Support any supplemental cathodic protection; and
 - (f) If the coating is an insulating type, have low moisture absorption and provide high electrical resistance.

Post Inspection Notes: These requirements for coating material were added to the operator's "External Coating of Buried Piping" (TMPSR-MECH-430B, Revision B, Sept. 28, 2009) after the inspection.

- **§195.579 What must I do to mitigate internal corrosion?**
 - (d) Breakout tanks. After October 2, 2000, when you install a tank bottom lining in an aboveground breakout tank built to API Specification 12F, API Standard 620, or API Standard 650 (or its predecessor Standard 12C), you must install the lining in accordance with API Recommended Practice 652. However, installation of the lining need not comply with API Recommended Practice 652 on any tank for which you note in the corrosion control procedures established under Sec. 195.402(c)(3) why compliance with all or certain provisions of API Recommended Practice 652 is not necessary for the safety of the tank.

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Findings:

Post Inspection Notes: The reference to API 652 for tank bottom lining for breakout tanks was added to the operator's "Relief Tank" (TMPSR-MECH-010, Revision B, September 28, 2009) after the inspection.

- **§195.264 Aboveground breakout tanks.**

(b) After October 2, 2000, compliance with paragraph (a) of this section requires the following for the aboveground breakout tanks specified:

(1) For tanks built to API Specification 12F, API Standard 620, and others (such as API Standard 650 or its predecessor Standard 12C), the installation of impoundment must be in accordance with the following sections of NFPA 30:

(i) Impoundment around a breakout tank must be installed in accordance with section 4.3.2.3.2

Post Inspection Notes: The reference to NFPA 30 for the installation of impoundment was added to the operator's "Relief Tank" (TMPSR-MECH-010, Revision B, September 28, 2009) after the inspection.

| | | |
|--|---|------------------|
| Name of Operator: Kinder Morgan Canada Inc. | | |
| OP ID No. ⁽¹⁾ 19585 | Unit ID No. ⁽¹⁾ 285 | |
| H.Q. Address: | System/Unit Name & Address: ⁽¹⁾ | |
| Suite 2700, Stock Exchange Building 300 5 th Ave. SW Calgary, Alberta T2P5J2 Canada | Trans Mountain Pipeline (Puget Sound) LLC Laurel Station 1009 East Smith Road Bellingham, WA 98226 | |
| Co. Official: Hugh Harden, VP Operations & Engineering & EHS | Activity Record ID#: | |
| Phone No.: (403) 514-6400/(800) 535-7219 | Phone No.: (360) 398-1541 | |
| Fax No.: (403) 514-6441 | Fax No.: (360) 398-7432 | |
| Emergency Phone No.: 1-888-876-6711 | Emergency Phone No.: 1-888-876-6711 | |
| Persons Interviewed | Titles | Phone No. |
| Patrick Davis | Supervisor, Corporation | (360) 398-1541 |
| Terry DeLong | Manager, Integrity Program & Risk Engineering | (403) 514-6517 |
| Adam Lind | Operations Engineer/Technical Services | (604) 268-3056 |
| | | |
| | | |
| PHMSA Representative(s) ⁽¹⁾ Kuang Chu/UTC Inspection Date(s) ⁽¹⁾ 9/21/2009 – 9/25/2009 | | |
| Company System Maps (copies for Region Files): | | |
| Unit Description: | | |

¹ Information not required if included on page 1.

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The pipeline system from the Canada-United States border to supply crude oil to the Conoco-Phillips refinery at Ferndale was constructed in 1954. The pumping capacity is provided by Sumas Pump Station in Canada and by the two new pumps facility built at the Laurel Station in 2008. In 1955, the pipeline was extended to Anacortes to supply crude oil to Shell and Tesoro refineries. In 1971, the pipeline system was extended to Cherry Point to supply crude oil to BP Cherry Point refinery. In total, 63.2 miles of pipeline was constructed in the State of Washington. The pipeline system can be broken down as follows:

- 15.3 miles of 20" pipeline between the Canada – US border to Laurel.
- 11.6 miles of 16" pipeline between Laurel Station and Ferndale Scrapper Trap Station.
- 27.6 miles of 20" pipeline between Laurel Station and Burlington Scrapper Trap Station.
- 9.0 miles of 16" pipeline between Burlington Scrapper Trap Station and Anacortes Meter Station.

The 2008 system expansion added two 2,500 horsepower motor pumps along with reactivation of two 100,000 barrels breakout tanks at the Laurel Station. This system enhancement allows the flexibility to deliver crude oil to both Ferndale and Anacortes simultaneously. In addition to the Laurel Station expansion, a new meter station and a new 3,000 barrels relief tank were built at the Ferndale site in 2007.

Portion of Unit Inspected ⁽¹⁾

The field inspection included Laurel Station, Ferndale Station, Burlington Scrapper Trap Station, and Anacortes Meter Station. Portions of the pipeline right-of-way and several mainline valves were inspected and some manual valves were partially operated. All the cathodic protection test stations on Manley Road were inspected and pipe-to-soil potentials were taken. The breakout tanks T-170 and T-180 at Laurel Station, T-130 at Ferndale Station, and T-7 inside Shell refinery at Anacortes were inspected.

For hazardous liquid operator inspections, the attached evaluation form should be used in conjunction with 49 CFR 195 during PHMSA inspections. For those operators, procedures do not have to be evaluated for content unless: 1) new or amended regulations have been placed in force after the team inspection, or 2) procedures have changed since the team inspection. Items in the procedures sections of this form identified with "*" reflect applicable and more restrictive new or amended regulations that became effective between 03/07/03 and 03/07/08.

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| CONVERSION TO SERVICE | | S | U | N/A | N/C |
|-----------------------|---|---|---|-----|-----|
| * | Has a written procedure been developed addressing all applicable requirements and followed? | X | | | |
| .5 | Amt. 195-86 Pub. 06/09/06 eff. 07/10/06. | | | | |

| REGULATED RURAL GATHERING LINES | | S | U | N/A | N/C |
|---------------------------------|--|---|---|-----|-----|
| * | Regulated Rural Gathering Lines as defined in 195.11(a) must comply with the safety requirement outlined in 195.11(b). Amt. Pub. 06/03/08 eff. 07/03/08. | | | | |
| .11 | | | | | |

| LOW-STRESS PIPELINES IN RURAL AREA | | S | U | N/A | N/C |
|------------------------------------|---|---|---|-----|-----|
| * | Regulated Low-stress Pipelines in Rural Area as defined in 195.12(a) must comply with the safety requirement outlined in 195.12(b). Amt. Pub. 06/03/08 eff. 07/03/08. | | | | |
| .12 | | | | | |

Comments:

| SUBPART B - REPORTING PROCEDURES | | S | U | N/A | N/C |
|----------------------------------|--|---|---|-----|-----|
| .402(a) .402(c) (2) | .50 Accident report criteria, as detailed under 195.50. In general, 5 gallons or more, death or personal injury necessitating hospitalization , or total estimated property damage including clean-up and product lost equaling \$50,000 or more. Note: A release of less than 5 gals may still require reporting. See (195.50(b) and 195.52(a)(4)). | X | | | |
| | .52 Telephonically reporting accidents to NRC (800) 424-8802 | X | | | |
| | .54(a) Accident Report - file as soon as practicable, but no later than 30 days after discovery | X | | | |
| | .54(b) Supplemental report - required within 30 days of information change/addition | X | | | |
| | .55 Safety-related conditions (SRC) - criteria | X | | | |
| | .56(a) SRC Report is required to be filed within five (5) working days of the determination and within ten (10) working days after discovery | X | | | |
| | .56(b) SCR Report requirements, including corrective actions (taken and planned) | X | | | |

Comments:

| SUBPART C - PASSAGE OF INTERNAL INSPECTION DEVICE PROCEDURES | | S | U | N/A | N/C |
|--|--|---|---|-----|-----|
| .402(c)/ .422 | .120(a) Each new pipeline or each section of a pipeline which pipe or components has been replaced must be designed and constructed to accommodate the passage of instrumented internal inspection devices that are applicable to this section | X | | | |

Comments:

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| SUBPART D – WELDING, NDT, and REPAIR /REMOVAL PROCEDURES | | S | U | N/A | N/C | |
|---|---|---|---|-----|-----|--|
| Compliance with welding requirements for pipe replaced or repaired in the course of pipeline maintenance is required by §195.422 and §195.200. | | | | | | |
| * .402(c)/ .422 | .214(a) | Welding must be performed by qualified welders using qualified welding procedures. | X | | | |
| | | Are welding procedures qualified in accordance with Sec. 5 of API 1104 or Section IX of ASME Boiler & Pressure Code? Amdt. 195-81 Pub. 6/14/04, eff. 7/14/04. | X | | | |
| | | Welding procedures must be qualified by destructive testing. | X | | | |
| .214(b) | Each welding procedure must be recorded in detail including results of qualifying tests. | X | | | | |
| * | .222(a) | Welders must be qualified in accordance with Section 6 of API Standard 1104 (19th Ed., 1999) or Section IX of the ASME Boiler and Pressure Vessel Code (2004 Ed. Including addenda through July 1, 2005), except that a welder qualified under an earlier edition than listed in §195.3 may weld, but may not requalify under that earlier edition. Amdt 195-81 pub. 6/14/04, eff. 7/14/04.; Amdt 195-81 corr. Pub. 9/09/04; Amt 195-86 Pub. 06/09/06 eff. 07/10/06. | X | | | |
| | .222(b) | Welders may not weld with a particular welding process unless, within the preceding 6 calendar months, the welder has--(1) Engaged in welding with that process; and (2) Had one weld tested and found acceptable under Section 9 of API 1104. | X | | | |
| Alert Notice 3/13/87 | In the welding of repair sleeves and fittings, do the operator's procedures give consideration to the use of low hydrogen welding rods, cooling rate of the weld, metallurgy of the materials being welded (weldability carbon equivalent) and proper support of the pipe in the ditch? | | | | | |
| * .402(c)/ .422 | .226(a) | Arc burns must be repaired. | X | | | |
| | .226(b) | If a notch is not repairable by grinding, a cylinder of the pipe containing the entire notch must be removed. Do arc burn repair procedures require verification of the removal of the metallurgical notch by nondestructive testing? (Ammonium Persulfate). | X | | | |
| | .226(c) | The ground wire may not be welded to the pipe/fitting being welded. | X | | | |
| Nondestructive Testing Procedures | | | | | | |
| * | .228 /.234 | Do procedures require welds to be nondestructively tested to ensure their acceptability according to Section 9 of API 1104 (19th) and as per 195.228(b) and per the requirements of 195.234 in regard to the number of welds to be tested? Amdt. 195-81 Pub. 6/14/04, eff. 7/14/04. | X | | | |
| | .234(b) | Nondestructive testing of welds must be performed: | | | | |
| | | 1. In accordance with written procedures for NDT | X | | | |
| | | 2. By qualified personnel | X | | | |
| | | 3. By a process that will indicate any defects that may affect the integrity of the weld | X | | | |
| | .266 | Records of the total number of girth welds and the number nondestructively tested, including the number rejected and the disposition of each rejected weld, must be maintained. | X | | | |
| Repair or Removal of Weld Defect Procedures | | | | | | |
| .230 | Welds that are unacceptable (Section 9 API 1104) must be removed and/or repaired. See .228 and .230 for exceptions. | X | | | | |

Comments:

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| SUBPART E - PRESSURE TESTING PROCEDURES | | S | U | N/A | N/C | | | | |
|---|---------------------|---|---|-----|-----|---|--|---|--|
| .402(c)/ .422 | .302(a) | Pipelines, and each pipeline segment that has been relocated, replaced, or otherwise changed, must be pressure tested without leakage (see .302(b), .303, and .305(b) for exceptions). | | | | X | | | |
| | .302(b)/ .302(c) | Except for lines converted under §195.5, the following pipelines may be operated without having been pressure tested per Subpart E and without having established MOP under 195.406(a)(5) [80% of the 4 hour documented test pressure, or 80% of the 4 hour documented operating pressure]. - .302(b)(2)(ii): Any carbon dioxide pipeline constructed before July 12, 1991, that is located in a rural area as part of a production field distribution system. - .302(b)(3): Any low-stress pipeline constructed before August 11, 1994, that does not transport HVL. - .302(b)(4)/.303: Those portions of older hazardous liquid and carbon dioxide pipelines for which an operator has elected the risk-based alternative under §195.303 and which are not required to be tested based on the risk-based criteria. | | | | | | | |
| | | Have pipelines <u>other than those described above</u> been pressure tested per Subpart E? | | | | X | | | |
| | | If pipelines <u>other than those described above</u> have not been pressure tested per Subpart E, has MOP been established under 195.406(a)(5), in accordance with .302(c)? Note: Establishing MOP under 195.406(a)(5) only applies to specified "older" pipelines constructed prior to the dates in .302(b). (<i>Notes: The MOP was established by pressure testing.</i>) | | | | | | X | |
| | .304 | Test pressure must be maintained for at least 4 continuous hours at a pressure equal to 125 percent, or more, of the MOP. If not visually inspected during the test, at least an additional 4 hours at 110 percent of MOP is required. | | | | X | | | |
| | .305(a) | All pipe, all attached fittings, including components must be pressure tested in accordance with §195.302. | | | | X | | | |
| | .305(b) | A component, other than pipe, that is the only item being replaced or added to the pipeline system need not be hydrostatically tested under paragraph (a) of this section if the manufacturer certifies that either: (1) The component was hydrostatically tested at the factory; or (2) The component was manufactured under a quality control system that ensures each component is at least equal in strength to a prototype that was hydrostatically tested at the factory. | | | | X | | | |
| | .306 | Appropriate test medium | | | | X | | | |
| | .308 | Pipe associated with tie-ins must be pressure tested. | | | | X | | | |
| | .310(a) | Test records must be retained for useful life of the facility. | | | | X | | | |
| | .310(b) | Does the record required by paragraph (a) of this section include: | | | | | | | |
| | .310(b)(1) | Pressure recording charts. | | | | X | | | |
| | .310(b)(2) | Test instrument calibration data. | | | | X | | | |
| | .310(b)(3) | Name of the operator, person responsible, test company used, if any. | | | | X | | | |
| | .310(b)(4) | Date and time of the test. | | | | X | | | |
| | .310(b)(5) | Minimum test pressure. | | | | X | | | |
| | .310(b)(6) | Test medium. | | | | X | | | |
| | .310(b)(7) | Description of the facility tested and the test apparatus. | | | | X | | | |
| | .310(b)(8) | Explanation of any pressure discontinuities, including test failures, that appear on the pressure recording charts. | | | | X | | | |
| | .310(b)(9) | Where elevation differences in the test section exceed 100 feet , a profile of the elevation over entire length of the test section must be included | | | | X | | | |
| | .310(b)(10) | Temperature of the test medium or pipe during the test period. | | | | X | | | |

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| Comments: |
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| SUBPART F - OPERATIONS & MAINTENANCE PROCEDURES | | | S | U | N/A | N/C |
|---|------|--|---|---|-----|-----|
| .402(a) | .402 | a. Has the operator prepared a manual for normal operations & maintenance activities & handling abnormal operations & emergencies? | X | | | |
| | | b. Procedures for reviewing the manual at intervals not exceeding 15 months, but at least each calendar year? | X | | | |
| | | c. Appropriate parts must be kept at locations where O&M activities are conducted. | X | | | |

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| Comments: |
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| MAINTENANCE & NORMAL OPERATION PROCEDURES | | | S | U | N/A | N/C |
|---|-------------|--|---|---|-----|-----|
| .402(a) | .402(c) | Written procedures must be followed to provide safety during maintenance and normal operations. Does the operator have procedures for: | | | | |
| | .402(c)(4) | Has the operator determined which pipeline facilities are located in areas that would require an immediate response by the operator to prevent hazards to the public if the facilities failed or malfunctioned? | X | | | |
| | .402(c)(5) | Analyzing pipeline accidents to determine their causes? | X | | | |
| | .402(c)(6) | Minimizing the potential for hazards identified under paragraph (c)(4) and minimizing the possibility of recurrence of accidents analyzed under paragraph (c)(5)? | X | | | |
| | .402(c)(7) | Starting up and shutting down any part of the pipeline system in a manner designed to assure operation within limits prescribed by §195.406, considering the hazardous liquid or carbon dioxide in transportation, variations in the altitude along the pipeline, and pressure monitoring and control devices? | X | | | |
| | .402(c)(8) | In the case of a pipeline that is not equipped to fail safe monitoring from an attended location pipeline pressure during startup until steady state pressure and flow conditions are reached and during shut-in to assure operation within limits prescribed by §195.406? <i>(Notes: The operator's pipeline is equipped to fail safe.)</i> | | | X | |
| | .402(c)(9) | In the case of facilities not equipped to fail safe that are identified under §195.402(c)(4) or that control receipt and delivery of hazardous liquid, detecting abnormal operating conditions by monitoring pressure, temperature, flow or other appropriate operational data and transmitting this data to an attended location? <i>(Notes: The operator's pipeline is equipped to fail safe.)</i> | | | X | |
| | .402(c)(10) | Abandoning pipeline facilities, including safe disconnection from an operating pipeline system, purging of combustibles, and sealing abandoned environmental hazards | X | | | |
| | | Reporting abandoned pipeline facilities offshore, or onshore crossing commercially navigable waterways per §195.59. | X | | | |
| | .402(c)(11) | Minimizing the likelihood of accidental ignition of vapors in areas near facilities identified under paragraph (c)(4) of this section where the potential exists for the presence of flammable liquids or gases? | X | | | |
| | .402(c)(12) | Establishing and maintaining liaison with fire, police, and other appropriate public officials to learn the responsibility and resources of each hazardous liquid pipeline emergency. | X | | | |
| | .402(c)(13) | Periodically reviewing the work done by operator's personnel to determine the effectiveness of the procedures used in normal operation and maintenance and taking corrective action where deficiencies are found? | X | | | |

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| MAINTENANCE & NORMAL OPERATION PROCEDURES | | S | U | N/A | N/C | | |
|---|-------------|---|---|-----|-----|--|--|
| | .402(c)(14) | Taking adequate precautions in excavated trenches to protect personnel from hazards of unsafe accumulations of vapor or gas, making available when needed at the excavation site, emergency rescue equipment, including a breathing apparatus and, a rescue harness and line. | | X | | | |

Comments:

| ABNORMAL OPERATION PROCEDURES (CONTROL CENTER FUNCTION) | | | S | U | N/A | N/C | |
|---|--|---|---|---|-----|-----|--|
| .402(a) | .402(d) | The O&M manual must contain written procedures to provide safety when operating design limits have been exceeded. Does the operator have procedures for: | | | | | |
| | .402(d)(1) | Responding to, investigating, and correcting the cause of: | | | | | |
| | | i. Unintended closure of valves or shutdowns? | | X | | | |
| | | ii. An increase or decrease in pressure or flow rate outside normal operating limits? | | X | | | |
| | | iii. Loss of communications? | | X | | | |
| | | iv. The operation of any safety device? | | X | | | |
| | | v. Any other malfunction of a component, deviation from normal operation, or personnel error which could cause a hazard to persons or property? | | X | | | |
| | .402(d)(2) | Checking variations from normal operation after abnormal operations have ended at sufficient critical locations in the system to determine continued integrity and safe operations? | | X | | | |
| | .402(d)(3) | Correcting variations from normal operation of pressure and flow equipment controls? | | X | | | |
| .402(d)(4) | Does operating personnel notify responsible operator personnel where notice of an abnormal operation is received? | | X | | | | |
| .402(d)(5) | Periodically reviewing the response of operating personnel to determine the effectiveness of the procedures and taking corrective action where deficiencies are found? | | X | | | | |

Comments:

| EMERGENCY PROCEDURES | | | S | U | N/A | N/C | |
|----------------------|------------|---|---|---|-----|-----|--|
| .402(a) | .402(e) | The O&M manual must include written procedures to provide safety when an emergency condition occurs. Does the operator have procedures for: | | | | | |
| | .402(e)(1) | Receiving, identifying, and classifying notices of events which need immediate response by the operator or fire, police, or other, and notifying appropriate operator's personnel for corrective action? | | X | | | |
| | | .402(e)(2) Making a prompt and effective response to a notice of each type of emergency, fire, explosion, accidental release of hazardous liquid, operational failure, natural disaster affecting the pipeline? | | X | | | |
| | | .402(e)(3) Making personnel, equipment, instruments, tools, and materials available at the scene of an emergency? | | X | | | |
| | | .402(e)(4) Taking action; such as emergency shutdown or pressure reduction, to minimize release of liquid at a failure site? | | X | | | |
| | | .402(e)(5) Controlling the release of liquid at the failure site? | | X | | | |
| | | .402(e)(6) Minimizing the public exposure and accidental ignition, evacuation, and halting traffic on roads, railroads, etc.? | | X | | | |

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| EMERGENCY PROCEDURES | | | S | U | N/A | N/C |
|----------------------|------------|---|---|---|-----|-----|
| | .402(e)(7) | Notifying fire, police, and others of hazardous liquid emergencies and preplanned responses including HVLs? | X | | | |
| | .402(e)(8) | Determining extent and coverage of vapor cloud and hazardous areas of HVLs by using appropriate instruments? <i>(Notes: This operator does not have HVL lines.)</i> | | | X | |
| | .402(e)(9) | Post accident review of employees activities to determine if procedures were effective and corrective action was taken? | X | | | |

Comments:

| EMERGENCY RESPONSE TRAINING PROCEDURES (CONTROL CENTER & FIELD) | | | S | U | N/A | N/C |
|---|------------|--|---|---|-----|-----|
| .402(a) | .403(a) | Each operator shall establish and conduct a written continuing training program to instruct emergency response personnel to: | | | | |
| | .403(a)(1) | Carry out the emergency response procedures established under 195.402. | X | | | |
| | .403(a)(2) | Know the characteristics and hazards of liquids or carbon dioxide transported, including in the case of HVL, flammability, of mixtures with air, odorless vapors, and water reactions. | X | | | |
| | .403(a)(3) | Recognize conditions that are likely to cause emergencies; predict the consequences of malfunction or failures and take appropriate actions. | X | | | |
| | .403(a)(4) | Take steps necessary to control any accidental release of hazardous liquid or carbon dioxide and to minimize the potential for fire, explosion, toxicity, or environmental damage. | X | | | |
| | .403(a)(5) | Learn the potential causes, types, sizes, and consequences of fire and the appropriate use of portable fire extinguishers and other on-site fire control equipment, involving, where feasible, a simulated pipeline emergency condition. | X | | | |
| | .402(f) | Instructions to enable O&M personnel to recognize and report potential safety related conditions. | X | | | |
| | .403(b) | At intervals not exceeding 15 months, but at least once each calendar year: | | | | |
| | .403(b)(1) | Review with personnel their performance in meeting the objectives of the emergency response training program | X | | | |
| | .403(b)(2) | Make appropriate changes to the emergency response training program | X | | | |
| | .403(c) | Require and verify that supervisors maintain a thorough knowledge of the emergency response procedures for which they are responsible. | X | | | |

Comments:

| MAPS and RECORDS PROCEDURES | | | S | U | N/A | N/C |
|-----------------------------|------------|---|---|---|-----|-----|
| .402(a) | .402(c)(1) | Making construction records, maps, and operating history available as necessary for safe operation and maintenance. | X | | | |
| | .404(a) | Each operator shall maintain current maps and records of its pipeline system that include at least the following information: | | | | |
| | .404(a)(1) | Location and identification of the following facilities: | | | | |
| | | i. Breakout tanks | X | | | |
| | | ii. Pump stations | X | | | |
| | | iii. Scraper and sphere facilities | X | | | |

STANDARD INSPECTION REPORT OF A LIQUID PIPELINE CARRIER

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| MAPS and RECORDS PROCEDURES | | | S | U | N/A | N/C |
|-----------------------------|------|---|---|---|-----|-----|
| | iv. | Pipeline valves | X | | | |
| | v. | Facilities to which §195.402(c)(9) applies | X | | | |
| | vi. | Rights-of-way | X | | | |
| | vii. | Safety devices to which §195.428 applies | X | | | |
| .404(a)(2) | | All crossings of public roads, railroads, rivers, buried utilities and foreign pipelines. | X | | | |
| .404(a)(3) | | The maximum operating pressure of each pipeline. | X | | | |
| .404(a)(4) | | The diameter, grade, type, and nominal wall thickness of all pipe. | X | | | |
| .404(b) | | Each operator shall maintain for at least 3 years daily operating records for the following: | | | | |
| .404(b)(1) | | The discharge pressure at each pump station. | X | | | |
| .404(b)(2) | | Any emergency or abnormal operation to which the procedures under §195.402 apply. | X | | | |
| .404(c) | | Each operator shall maintain the following records for the periods specified: | | | | |
| .404(c)(1) | | The date, location, and description of each repair made on the pipe and maintain it for the life of the pipe . | X | | | |
| .404(c)(2) | | The date, location, and description of each repair made to parts of the pipeline system other than the pipe and maintain it for at least 1 year . | X | | | |
| .404(c)(3) | | Each inspection and test required by Subpart F shall be maintained for at least 2 years, or until the next inspection or test is performed, whichever is longer . | X | | | |

Comments:

| MAXIMUM OPERATING PRESSURE PROCEDURES (MOP) - ALL SYSTEMS | | | S | U | N/A | N/C |
|---|------------|--|---|---|-----|-----|
| .402(a) | .406(a) | Except for surge pressures and other variations from normal operations, the MOP may not exceed any of the following: | | | | |
| * | .406(a)(1) | The internal design pressure of the pipe determined by 195.106. Amt. 195-86 Pub. 06/09/06 eff. 07/10/06. | X | | | |
| | .406(a)(2) | The design pressure of any other component on the pipeline. | X | | | |
| | .406(a)(3) | 80% of the test pressure (Subpart E). | X | | | |
| | .406(a)(4) | 80% of the factory test pressure or of the prototype test pressure for any individual component. | X | | | |
| | .406(a)(5) | 80% of the test pressure or the highest operating pressure for a minimum of 4 hours for a pipeline that has not been tested under Subpart E . | X | | | |
| | .406(b) | The pipeline may not be operated at a pressure that exceeds 110% of the MOP during surges or other variations from normal operations: | X | | | |
| | | Adequate controls and protective equipment must be installed to prevent the pressure from exceeding 110% of the MOP . | X | | | |

Comments:

STANDARD INSPECTION REPORT OF A LIQUID PIPELINE CARRIER

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| COMMUNICATION PROCEDURES (CONTROL CENTER) | | | S | U | N/A | N/C |
|--|------------|--|---|---|-----|-----|
| .402(a) | .408(a) | Operator must have a communication system to provide for the transmission of information needed for the safe operation of its pipeline system. | X | | | |
| | .408(b) | Does the communication system required by paragraph (a) include means for: | | | | |
| | .408(b)(1) | Monitoring operational data as required by 195.402(c)(9). | X | | | |
| | .408(b)(2) | Receiving notices from operator personnel, the public, and others about abnormal or emergency conditions and initiating corrective actions. | X | | | |
| | .408(b)(3) | Conducting two-way vocal communication between a control center and the scene of abnormal operations and emergencies. | X | | | |
| | .408(b)(4) | Providing communication with fire, police, and other appropriate public officials during emergency conditions, including a natural disaster. | X | | | |

Comments:

| LINE MARKER PROCEDURES | | | S | U | N/A | N/C |
|-------------------------------|------------|---|---|---|-----|-----|
| .402(a) | .410(a) | Line markers must be placed over each buried pipeline in accordance with the following: | | | | |
| | .410(a)(1) | Located at each public road crossing, railroad crossing, and sufficient number along the remainder of each buried line so that its location is accurately known | X | | | |
| | .410(a)(2) | Must have the correct characteristics and information | X | | | |
| | .410(c) | Must be placed where pipelines are aboveground in areas that are accessible to the public | X | | | |

Comments:

| INSPECTION RIGHTS-OF-WAY & CROSSINGS UNDER NAVIGABLE WATER PROCEDURES | | | S | U | N/A | N/C |
|--|---------|--|---|---|-----|-----|
| .402(a) | .412(a) | Operator must inspect the right-of-way at intervals not exceeding 3 weeks, but at least 26 times each calendar year | X | | | |
| | .412(b) | Operator must inspect each crossing under a navigable waterway to determine the crossing condition at intervals not exceeding 5 years. | X | | | |

Comments:

| UNDERWATER INSPECTION PROCEDURES of OFFSHORE PIPELINES | | | S | U | N/A | N/C |
|---|---------|--|---|---|-----|-----|
| *.402(a) | .413(a) | Procedure to identify its pipelines in the Gulf of Mexico and its inlets in waters less than 15 feet (4.6 meters) that are at risk of being an exposed underwater pipeline or a hazard to navigation. Gathering lines of 4 1/2 inches (114mm) nominal outside diameter or smaller are exempt. (Procedures must be in effect August 10, 2005.) Amdt. 195-82 Pub. 8/10/04, eff. 9/09/04. | | | X | |

STANDARD INSPECTION REPORT OF A LIQUID PIPELINE CARRIER

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| UNDERWATER INSPECTION PROCEDURES of OFFSHORE PIPELINES | | S | U | N/A | N/C |
|---|---|---|---|-----|-----|
| * | .413(b) Each operator shall conduct appropriate periodic underwater inspections of its pipelines in the Gulf of Mexico and its inlets in waters less than 15 feet (4.6 meters) deep as measured from mean low water based on the identified risk. Amdt. 195-82 Pub. 8/10/04, eff. 9/09/04. | | | X | |
| * | .413(c) When the operator discovers that a pipeline it operates is exposed on the seabed or constitutes a hazard to navigation, does the operator: Amdt. 195-82 Pub. 8/10/04, eff. 9/09/04. | | | | |
| * | .413(c)(1) Promptly, but no later than 24 hours after discovery, notify the NRC by phone. Amdt. 195-82 Pub. 8/10/04, eff. 9/09/04. | | | X | |
| * | .413(c)(2) Promptly, but not later than 7 days after discovery, mark the location of the pipeline in accordance with 33 CFR Part 64 at each end of the pipeline segment and at intervals of not over 500 yards long , except that a pipeline segment less than 200 yards long need only be marked at the center. Amdt. 195-82 Pub. 8/10/04, eff. 9/09/04. | | | X | |
| * | .413(c)(3) Within 6 months after discovery, or not later than November 1 of the following year if the 6 month period is after November 1 of that year the discovery is made, place the pipeline so that the top of the pipe is 36 inches below the seabed for normal excavation or 18 inches for rock excavation. Amdt. 195-82 Pub. 8/10/04, eff. 9/09/04. | | | X | |
| | .57 Offshore pipeline condition reports - must be filed within 60 days after the inspections | | | X | |

Comments:
 There are no offshore pipelines in this inspection unit.

| VALVE MAINTENANCE PROCEDURES | | | S | U | N/A | N/C |
|-------------------------------------|---------|--|---|---|-----|-----|
| .402(a) | .420(a) | Operator must maintain each valve that is necessary for the safe operation of its pipeline system in good working order at all times. | X | | | |
| | .420(b) | Operator must inspect each mainline valve to determine that it is functioning properly at intervals not exceeding 7½ months , but at least twice each calendar year. | X | | | |
| | .420(c) | Operator must provide protection for each valve from unauthorized operation and from vandalism. | X | | | |

Comments:

| PIPELINE REPAIR PROCEDURES | | | S | U | N/A | N/C |
|-----------------------------------|---------|--|---|---|-----|-----|
| .402(a) | .422(a) | Operator must, in repairing its pipeline systems, insure that the repairs are made in a safe manner and are made so as to prevent damage to persons and property. | X | | | |
| | .422(b) | No operator may use any pipe, valve, or fitting, for replacement in repairing pipeline facilities, unless it is designed and constructed as required by this part. | X | | | |

Comments:

STANDARD INSPECTION REPORT OF A LIQUID PIPELINE CARRIER

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| PIPE MOVEMENT PROCEDURES | | | S | U | N/A | N/C |
|--------------------------|------------|---|---|---|-----|-----|
| .402(a) | .424(a) | When moving any pipeline, the operator must reduce the pressure for the line segment involved to 50% of the MOP . | X | | | |
| | .424(b) | For HVL lines joined by welding, the operator must: <i>(Notes: The operator does not have HVL lines in this inspection unit.)</i> | | | | |
| | .424(b)(1) | Move the line when it does not contain HVL, unless impractical. | | | X | |
| | .424(b)(2) | Have procedures under 195.402 containing precautions to protect the public. | | | X | |
| | .424(b)(3) | Reduce the pressure for the line segment involved to the lower of 50% of the MOP or the lowest practical level that will maintain the HVL in a liquid state. (Minimum = V.P. + 50 psig) | | | X | |
| | .424(c) | For HVL lines not joined by welding, the operator must: | | | | |
| | .424(c)(1) | Move the line when it does not contain HVL, unless impractical. | | | X | |
| | .424(c)(2) | Have procedures under 195.402 containing precautions to protect the public. | | | X | |
| | .424(c)(3) | Isolate the line to prevent flow of the HVL. | | | X | |

Comments:
There are no HVL lines in this inspection unit.

| SCRAPER and SPHERE FACILITY PROCEDURES | | | S | U | N/A | N/C |
|--|------|---|---|---|-----|-----|
| .402(a) | .426 | Operator must have a relief device capable of safely relieving the pressure in the barrel before insertion or removal of scrapers or spheres. | X | | | |
| | | Operator must have a suitable device to indicate that pressure has been relieved, or a means to prevent insertion. | X | | | |

Comments:

| OVERPRESSURE SAFETY DEVICE PROCEDURES | | | S | U | N/A | N/C |
|---------------------------------------|--|--|---|---|-----|-----|
| .402(a) | .428(a) | Operator must inspect and test each pressure limiting device, relief valve, pressure regulator, or other items of pressure control equipment to determine that it is functioning properly, in good mechanical condition, has adequate capacity, and is reliable. | X | | | |
| | | Operator must inspect and test overpressure safety devices at the following intervals: | | | | |
| | | 1. Non-HVL pipelines at intervals not to exceed 15 months , but at least once each calendar year. | X | | | |
| | 2. HVL pipelines at intervals not to exceed 7½ months , but at least twice each calendar year. <i>(Notes: The operator does not have HVL lines in this inspection unit.)</i> | | | X | | |
| | * .428(b) | Operator must inspect and test relief valves on HVL breakout tanks at intervals not exceeding 5 years . <i>(Notes: The operator does not have HVL breakout tanks in this inspection unit.)</i> | | | X | |
| .428(c) | Aboveground breakout tanks that are constructed or significantly altered according to API Standard 2510 after October 2, 2000, must have an overfill protection system installed according to section 5.1.2 of API Standard 2510. Amt. 195-86 Pub. 06/09/06 eff. 07/10/06. Tanks over 600 gallons (2271 liters) constructed or significantly altered after October 2, 2000, must have overfill protection according to API Recommended Practice 2350 unless operator noted in procedures manual (195.402) why compliance with API RP 2350 is not necessary for the safety of a particular breakout tank. | X | | | | |

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| OVERPRESSURE SAFETY DEVICE PROCEDURES | | | S | U | N/A | N/C |
|---------------------------------------|---------|--|---|---|-----|-----|
| | .428(d) | After October 2, 2000, the requirements of paragraphs (a) and (b) of this section for inspection and testing of pressure control equipment apply to the inspection and testing of overfill protection systems. | X | | | |

Comments:

| FIREFIGHTING EQUIPMENT PROCEDURES | | | S | U | N/A | N/C |
|-----------------------------------|------|--|---|---|-----|-----|
| .402(a) | .430 | Operator must maintain adequate firefighting equipment at each pump station and breakout tank areas. | X | | | |
| | | The equipment must be: | | | | |
| | | a. In proper operating condition at all times. | X | | | |
| | | b. Plainly marked so that its identity as firefighting equipment is clear. | X | | | |
| | | c. Located so that it is easily accessible during a fire. | X | | | |

Comments:

| BREAKOUT TANK PROCEDURES | | | S | U | N/A | N/C |
|--------------------------|-----------|---|---|---|-----|-----|
| .402(a) | .432(a) | Inspection of in-service breakout tanks. (annually/ 15mo) includes anhydrous ammonia and any other breakout tank that is not inspected per 432 (b) & (c); | X | | | |
| | .432(b) | Each operator shall inspect the physical integrity of in-service atmospheric and low-pressure steel aboveground breakout tanks according to section 6 of API Standard 653 . However, if structural conditions prevent access to the tank bottom, the bottom integrity may be assessed according to a plan included in the operations and maintenance manual under §195.402(c)(3) . -Owner/operator visual, external condition inspection interval n.t.e. one month. (more frequent inspections may be needed based on conditions at particular sites) -External inspection, visual, by an Authorized Inspector at least every five years or at the quarter corrosion rate life of the shell, whichever is less. -External ultrasonic thickness measurement of the shell based on the corrosion rate. If the corrosion rate is not known, the maximum interval shall be five years. | X | | | |
| | * .432(c) | Each operator shall inspect the physical integrity of in-service steel aboveground breakout tanks built to API Standard 2510 according to section 6 of API 510 . Amt. 195-86 Pub. 06/09/06 eff 07/10/06. (<i>Notes: The operator does not have tanks built to API 2510 in this inspection unit.</i>) | | | X | |
| | .432(d) | The intervals of inspection specified by documents referenced in paragraphs (b) and (c) of this section begin on May 3, 1999 , or on the operator's last recorded date of the inspection, whichever is earlier. -Based on thickness of the tank bottom and the corrosion rate but n.t.e. 20 years. | X | | | |
| | | Note: For Break-out tank unit inspection, refer to Breakout Tank Form | | | | |

Comments:

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| SIGN PROCEDURES | | | S | U | N/A | N/C |
|------------------------|-------------|--|----------|----------|------------|------------|
| .402(a) | .434 | Operator must maintain signs visible to the public around each pumping station and breakout tank area. | X | | | |
| | | Signs must contain the name of the operator and a telephone number (including area code) where the operator can be reached at all times. | X | | | |

Comments:

| SECURITY of FACILITY PROCEDURES | | | S | U | N/A | N/C |
|--|-------------|--|----------|----------|------------|------------|
| .402(a) | .436 | Operator must provide protection for each pumping station and breakout tank area and other exposed facilities from vandalism and unauthorized entry. | X | | | |

Comments:

| SMOKING OR OPEN FLAME PROCEDURES | | | S | U | N/A | N/C |
|---|-------------|---|----------|----------|------------|------------|
| .402(a) | .438 | Operator must prohibit smoking and open flames in each pump station and breakout tank area where there is the possibility of the presence of hazardous liquids or flammable vapors. | X | | | |

Comments:

| PUBLIC AWARENESS PROGRAM PROCEDURES | | | S | U | N/A | N/C |
|--|----------------|---|----------|----------|------------|------------|
| (In accordance with API RP 1162) | | | | | | |
| .402(a) | .440 | Public Awareness Program also in accordance with API RP 1162 (Amdt. 192-83 Pub. 5/19/05 eff. 06/20/05) | | | | |
| * | .440(d) | The operator's program must specifically include provisions to educate the public, appropriate government organizations, and persons engaged in excavation related activities on: Amdt. 195-83 Pub. 5/19/05, eff. 06/20/05. | | | | |
| | | (1) Use of a one-call notification system prior to excavation and other damage prevention activities; | X | | | |
| | | (2) Possible hazards associated with unintended releases from a hazardous liquids or carbon dioxide pipeline facility; | X | | | |
| | | (3) Physical indications of a possible release; | X | | | |
| | | (4) Steps to be taken for public safety in the event of a hazardous liquid or carbon dioxide pipeline release; and | X | | | |
| | | (5) Procedures to report such an event (to the operator). | X | | | |
| * | .440(e) | The operator's program must include activities to advise affected municipalities, school districts, businesses, and residents of pipeline facility locations. Amdt. 195-83 Pub. 5/19/05, eff. 06/20/05. | X | | | |

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| PUBLIC AWARENESS PROGRAM PROCEDURES (In accordance with API RP 1162) | | | S | U | N/A | N/C |
|--|---------|--|---|---|-----|-----|
| * | .440(f) | The operator's program and the media used must be comprehensive enough to reach all areas in which the operator transports hazardous liquid or carbon dioxide. Amdt. 195-83 Pub. 5/19/05, eff. 06/20/05. | X | | | |
| * | .440(g) | The program must be conducted in English and any other languages commonly understood by a significant number of the population in the operator's area. Amdt. 195-83 Pub. 5/19/05, eff. 06/20/05. | X | | | |

Comments:

| DAMAGE PREVENTION PROGRAM PROCEDURES (Also in accordance with API RP 1162) | | | S | U | N/A | N/C |
|--|------------|--|---|---|-----|-----|
| .402(a) | .442(a) | Is there a written program in place to prevent damage by excavation activities applicable to the operator's pipelines? | X | | | |
| | .442(b) | Does the operator participate in a qualified One-Call program? | X | | | |
| | .442(c)(1) | Include the identity, on a current basis, of persons who normally engage in excavation activities in the area in which the pipeline is located. | X | | | |
| | .442(c)(2) | Provide for notification to the public in the vicinity of the pipeline and actual notification to the persons identified in paragraph (c)(1) of this section of the following, as often as needed to make them aware of the damage prevention program: | | | | |
| | | i. The program's existence and purpose. | X | | | |
| | | ii. How to learn the location of underground pipelines before excavation activities are begun. | X | | | |
| | .442(c)(3) | Provide a means of receiving and recording notification of planned excavation activities. | X | | | |
| | .442(c)(4) | If the operator has buried pipelines in the area of excavation activity, provide for actual notification of persons who give notice of their intent to excavate of the type of temporary marking to be provided and how to identify the markings. | X | | | |
| | .442(c)(5) | Provide for temporary marking of buried pipelines in the area of excavation activity before, as far as practical, the activity begins. | X | | | |
| | .442(c)(6) | Provide as follows for inspection of pipelines that an operator has reason to believe could be damaged by excavation activities: | | | | |
| | | i. The inspection must be done as frequently as necessary during and after the activities to verify the integrity of the pipeline. | X | | | |
| | | ii. In the case of blasting, any inspection must include leakage surveys. | X | | | |

Comments:

| CPM/LEAK DETECTION PROCEDURES | | | S | U | N/A | N/C |
|--------------------------------------|------|--|---|---|-----|-----|
| .402(a) * | .444 | If a CPM system is installed, does the operator's procedures for the Computational Pipeline Monitoring (CPM) leak detection system comply with API 1130 in operating, maintaining, testing, record keeping, and dispatching training? Amt. 195-86 Pub. 06/09/06 eff. 07/10/06. | X | | | |

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| |
|-----------|
| Comments: |
|-----------|

| PIPELINE INTEGRITY MANAGEMENT IN HIGH CONSEQUENCE AREAS PROCEDURES | | S | U | N/A | N/C |
|--|--|---|---|-----|-----|
| .452 | This form does not cover Liquid Pipeline Integrity Management Programs | | | | |

| SUBPART G - OPERATOR QUALIFICATION PROCEDURES | | S | U | N/A | N/C |
|---|---|---|---|-----|-----|
| .501 -.509 | Refer to Operator Qualification Inspection Forms and Protocols (OPS web page) | | | | |

| SUBPART H - CORROSION CONTROL PROCEDURES | | S | U | N/A | N/C | | | | |
|--|---|--|---|-----|-----|---|--|---|--|
| .402(a) | .555 | Do procedures require that supervisors maintain a thorough knowledge of that portion of the corrosion control procedures for which they are responsible for insuring compliance? | | | | X | | | |
| | .557 | Except bottoms of aboveground breakout tanks, each buried or submerged pipeline must have an external coating for external corrosion control if the pipeline is : | | | | | | | |
| | | a) Constructed, relocated, replaced, or otherwise changed after the applicable dates : | | | | | | | |
| | | 3/31/70 - interstate pipelines excluding low stress | | | | | | | |
| | | 7/31/77 -interstate offshore gathering excluding low stress | | | | | | | |
| | | 10/20/85-intrastate pipeline excluding low stress | | | | X | | | |
| | | 7/11/91- carbon dioxide pipelines | | | | | | | |
| | | 8/10/94 - low stress pipelines | | | | | | | |
| | | NOTE: This does not include the movement of pipe under 195.424. | | | | | | | |
| | | b) Converted under 195.5 and | | | | | | | |
| | | 1) Has an external coating that substantially meets 195.559 before the pipeline is placed in service or; <i>(Notes: There is no conversion in this inspection unit.)</i> | | | | | | X | |
| | | 2) Is a segment that is relocated, replaced, or substantially altered? <i>(Notes: There is no conversion in this inspection unit.)</i> | | | | | | X | |
| | .559 | Coating Materials; Coating material for external corrosion control must: | | | | | | | |
| | | a. Be designed to mitigate corrosion of the buried or submerged pipeline; | | | | | | | |
| | | b. Have sufficient adhesion to the metal surface to prevent under film migration of moisture; | | | | | | | |
| | | c. Be sufficiently ductile to resist cracking; | | | | | | | |
| | | d. Have enough strength to resist damage due to handling and soil stress; | | | | X | | | |
| | | e. Support any supplemental cathodic protection; and | | | | | | | |
| | | f. If the coating is an insulating type, have low moisture absorption and provide high electrical resistance. | | | | | | | |
| | <i>(Notes: The operator's manual was revised to include these requirements after the inspection.)</i> | | | | | | | | |
| | .561 | a. All external pipe coatings required under 195.557 must be inspected just prior to lowering the pipe in the ditch or submerging the pipe. | | | | X | | | |
| | | b. All coating damage discovered must be repaired. | | | | X | | | |
| | .563 | a. Is cathodic protection applied to pipelines that have been subjected to the conditions listed in 195.557(a) within one (1) year? | | | | X | | | |
| | | b. Each buried or submerged pipeline converted under 195.5 must have cathodic protection if the pipeline- <i>(Notes: There is no conversion in this inspection unit.)</i> | | | | | | | |
| | | 1) Has cathodic protection that substantially meets 195.571 before the pipeline is placed in service, or | | | | | | X | |
| | | 2) Is a segment that is relocated, replaced, or substantially altered? | | | | | | X | |
| | | c. All other buried or submerged pipelines that have an effective external coating must have cathodic protection. | | | | X | | | |

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| SUBPART H - CORROSION CONTROL PROCEDURES | | S | U | N/A | N/C |
|--|---|---|---|-----|-----|
| | d. Bare pipelines, breakout tank areas, and buried pumping station piping must have cathodic protection in places where previous editions of this part required cathodic protection as a result of electrical inspections. | X | | | |
| | e. Unprotected pipe must have cathodic protection if required by 195.573(b). <i>(Notes: There is no unprotected pipe in this inspection unit.)</i> | | | X | |
| * | .567 Test leads installation and maintenance. | X | | | |
| | .569 Examination of Exposed Portions of Buried Pipelines. | X | | | |
| | .571 Cathodic protection must comply with one or more of the applicable criteria and other considerations for cathodic protection contained in paragraphs 6.2 and 6.3 of NACE Standard RP0169-2002 (incorporated by reference). Amt. 195-86 Pub. 06/09/06 eff. 07/10/06. | X | | | |
| * | .573 a. (1) Pipe to soil monitoring (annually / 15months). Separately protected short sections of bare ineffectively coated pipelines (every 3 years not to exceed 39 months). <i>(Notes: There is no separately protected short sections of bare ineffectively coated pipelines in this inspection unit.)</i> | X | | X | |
| | (2) Before 12/29/2003 or not more than 2 years after cathodic protection installed, whichever comes later, identify the circumstances in which a close-interval survey or comparable technology is practicable and necessary to accomplish the objectives of paragraph 10.1.1.3 of NACE RP0169-2002. Amt. 195-86 Pub. 06/09/06 eff. 07/10/06. | X | | | |
| | b. Unprotected buried or submerged pipe must be evaluated and cathodically protected in areas in which active corrosion is found as follows; <i>(Notes: There is no unprotected buried or submerged pipe in this inspection unit.)</i> | | | | |
| | 1) Determine areas of active corrosion by electrical survey (closely spaced pipe-to-soil survey), or where electrical survey is impractical, by other means that include review of analysis of leak repair and inspection records, corrosion monitoring records, exposed pipe inspection records, and the pipe environment | | | X | |
| | 2) Before 12/29/2003 - at least once every 5 years not to exceed 63 months. Beginning 12/29/2003 - at least once every 3 years not to exceed 39 months. | | | X | |
| | c. Rectifiers, Reverse Current Switches, Diodes, Interference Bonds whose failure would jeopardize structural protection - at least 6 times each year, intervals not to exceed 2½ mos. | X | | | |
| | d. Inspect each cathodic protection system used to control corrosion on the bottom of an aboveground breakout tank to ensure that operation and maintenance of the system are in accordance with API Recommended Practice 651. (Not required if it is noted in the corrosion control procedures why compliance with all or certain operation and maintenance provisions of API Recommended Practice 651 is not necessary for the safety of the tank.) | X | | | |
| | e. Any deficiencies identified in corrosion control must be corrected as required by 195.401(b). | X | | | |
| | .575 Are there adequate provisions for electrical isolations? | X | | | |
| | .577 a. For pipelines exposed to stray currents, is there a program to minimize the detrimental effects. | X | | | |
| | b. Design & install CP systems to minimize effects on adjacent metallic structures. | | | | |
| | .579 a. For pipelines that transport any hazardous liquid or carbon dioxide that would corrode the pipe, are corrosive effects investigated and adequate steps taken. | X | | | |
| | b. Internal Corrosion - Inhibitors - do procedures show that they are to be used in conjunction with coupons or other monitoring equipment to determine the effectiveness of the inhibitors in mitigating internal corrosion. <i>(Notes: No inhibitors are used in this inspection unit.)</i> | | | X | |
| | Coupons or other monitoring equipment must be examined at least 2 times each year, not to exceed 7½ months. <i>(Notes: No coupons are used in this pipeline system.)</i> | | | X | |
| | c. Whenever pipe is removed from a pipeline, the internal surface of the pipe must be inspected for evidence of corrosion as well as the adjacent pipe. | X | | | |
| | .581 Are pipelines protected against Atmospheric Corrosion using required coating material? (See exception to this statement). | X | | | |
| | .583 Atmospheric corrosion monitoring - | | | | |

STANDARD INSPECTION REPORT OF A LIQUID PIPELINE CARRIER

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| SUBPART H - CORROSION CONTROL PROCEDURES | | S | U | N/A | N/C |
|--|--|---|---|-----|-----|
| | ONSHORE - At least once every 3 years but at intervals not exceeding 39 months. | X | | | |
| | OFFSHORE - At least once each year, but at intervals not exceeding 15 months. <i>(Notes: There are no offshore pipelines in this unit.)</i> | | | X | |
| .585 | a. Are procedures in place to either reduce the MOP, or repair/replace pipe if general corrosion has reduced the wall thickness? | X | | | |
| | b. Are procedures in place to either reduce the MOP, or repair/replace if localized corrosion has reduced the wall thickness? | X | | | |
| .587 | Are applicable methods used in determining the strength of corroded pipe (ASME B-31G, RSTRENG)? | X | | | |
| .589 | Corrosion Control Records Retention (Some are required for 5 yrs; Some are for the service life). | X | | | |

Comments:

| PART 199 – DRUG and ALCOHOL TESTING REGULATIONS and PROCEDURES | | S | U | N/A | N/C |
|--|--|---|---|-----|-----|
| Subparts A - C | Drug & Alcohol Testing & Alcohol Misuse Prevention Program – Use PHMSA Form # 13, PHMSA 2008 Drug and Alcohol Program Check. | | | | |

| PART 195 - FIELD REVIEW | | S | U | N/A | N/C |
|-------------------------|--|---|---|-----|-----|
| .262 | Pumping Stations | X | | | |
| .262 | Station Safety Devices | X | | | |
| .308 | Pre-pressure Testing Pipe - Marking and Inventory | X | | | |
| .403 | Supervisor Knowledge of Emergency Response Procedures | X | | | |
| .410 | Right-of-Way Markers | X | | | |
| .412 | ROW/Crossing Under Navigable Waters | X | | | |
| .420 | Valve Maintenance | X | | | |
| .420 | Valve Protection from Unauthorized Operation and Vandalism | X | | | |
| .426 | Scraper and Sphere Facilities and Launchers | X | | | |
| .428 | Pressure Limiting Devices | X | | | |
| .428 | Relief Valves - Location - Pressure Settings - Maintenance | X | | | |
| .428 | Pressure Controllers | X | | | |
| .430 | Fire Fighting Equipment | X | | | |
| .432 | Breakout Tanks | X | | | |
| .434 | Signs - Pumping Stations - Breakout Tanks | X | | | |
| .436 | Security - Pumping Stations - Breakout Tanks | X | | | |
| .438 | No Smoking Signs | X | | | |
| .501-.509 | Operator Qualification - Use PHMSA Form 15 Operator Qualification Field Inspection Protocol Form | X | | | |

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| PART 195 - FIELD REVIEW | | S | U | N/A | N/C |
|-------------------------|---|---|---|-----|-----|
| .571 | Cathodic Protection (test station readings, other locations to ensure adequate CP levels) | X | | | |
| .573 | Rectifiers, Reverse Current Switches, Diodes, Interference Bonds | X | | | |
| .575 | Electrical Isolation; shorted casings | X | | | |
| .583 | Atmospheric corrosion - Exposed pipeline components (splash zones, water spans, soil/air interface, under thermal insulation, disbanded coatings, pipe supports, deck penetrations, etc.) | X | | | |

| PART 195 - PERFORMANCE AND RECORDS REVIEW | | S | U | N/A | N/C |
|---|--|---|---|-----|-----|
| CONVERSION TO SERVICE | | | | | |
| .5(a)(2) | All aboveground segments of the pipeline, and appropriately selected underground segments must be visually inspected for physical defects and operating conditions which reasonably could be expected to impair the strength or tightness of the pipeline. <i>(Notes: There was no conversion to service in this unit.)</i> | | | X | |
| .5(c) | Pipeline Records (Life of System) | | | X | |
| | Pipeline Investigations | | | X | |
| | Pipeline Testing | | | X | |
| | Pipeline Repairs | | | X | |
| | Pipeline Replacements | | | X | |
| | Pipeline Alterations | | | X | |
| REPORTING | | | | | |
| .48 / .49 | Annual Report (DOT form PHMSA F7000-1.1 Beginning no later than June 15, 2005) (As of January 5, 2009, an operator of a rural low-stress hazardous liquid pipeline is not required to complete Parts J and K of the hazardous liquid annual report form (PHMSA F 7000-1.1) required by § 195.49 or to provide the estimate of total miles that could affect high consequence areas in Part B of that form.) | X | | | |
| .52 | Telephonic Reports to NRC (800-424-8802) <i>(Notes: There were no telephonic reports to NRC during this inspection period.)</i> | | | X | |
| .54(a) | Written Accident Reports (DOT Form 7000-1) <i>(Notes: There were no written accident reports during this inspection period.)</i> | | | X | |
| .54 (b) | Supplemental Accident Reports (DOT Form 7000-1). <i>(Notes: There were no supplemental accident reports during this inspection period.)</i> | | | X | |
| .56 | Safety Related Conditions <i>(Notes: There were no safety related conditions during this inspection period.)</i> | | | X | |
| .57 | Offshore Pipeline Condition Reports <i>(Notes: There were no offshore pipelines in this unit.)</i> | | | X | |
| .59 | Abandoned Underwater Facility Reports <i>(Notes: There were no abandoned underwater facility in this unit.)</i> | | | X | |
| CONSTRUCTION | | | | | |
| .204 | Construction Inspector Training/Qualification | X | | | |
| .214(b) | Test Results to Qualify Welding Procedures | X | | | |
| .222 | Welder Qualification | X | | | |
| .234(b) | Nondestructive Technician Qualification | X | | | |
| .589 | Cathodic Protection | X | | | |
| .266 | Construction Records | X | | | |
| .266(a) | Total Number of Girth Welds | X | | | |

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| PART 195 - PERFORMANCE AND RECORDS REVIEW | | S | U | N/A | N/C |
|---|---|---|---|-----|-----|
| | Number of Welds Inspected by NDT | X | | | |
| | Number of Welds Rejected | X | | | |
| | Disposition of each Weld Rejected | X | | | |
| .266(b) | Amount, Location, Cover of each Size of Pipe Installed | X | | | |
| .266(c) | Location of each Crossing with another Pipeline <i>(Notes: The newly installed pipeline does not cross with another pipeline.)</i> | | | X | |
| .266(d) | Location of each buried Utility Crossing <i>(Notes: The newly installed pipeline does not cross with buried utility.)</i> | | | X | |
| .266(e) | Location of Overhead Crossings <i>(Notes: The newly installed pipeline does not have overhead crossings.)</i> | | | X | |
| .266(f) | Location of each Valve and Test Station | X | | | |
| PRESSURE TESTING | | | | | |
| .310 | Pipeline Test Record | X | | | |
| .305(b) | Manufacturer Testing of Components | X | | | |
| .308 | Records of Pre-tested Pipe | X | | | |
| OPERATION & MAINTENANCE | | | | | |
| .402(a) | Annual Review of O&M Manual (1 per yr/15 months) | X | | | |
| .402(c)(4) | Determination of Areas requiring immediate response for Failures or Malfunctions | X | | | |
| .402(c)(10) | Abandonment of Facilities | X | | | |
| .402(c)(12) | Establishment/Maintaining liaison with Fire, Police, and other Public Officials | X | | | |
| .402(c)(13) | Periodic review of personnel work – effectiveness of normal O&M procedures | X | | | |
| .402(d)(1) | Response to Abnormal Pipeline Operations | X | | | |
| .402(d)(5) | Periodic review of personnel work – effectiveness of abnormal operation procedures | X | | | |
| .402(e)(1) | Notices which require immediate response | X | | | |
| .402(e)(7) | Notifications to Fire, Police, and other Public Officials of an Emergency <i>(Notes: There were no such occasions during this inspection period.)</i> | | | X | |
| .402(e)(9) | Post Accident Reviews | X | | | |
| .403(a) | Emergency Response Personnel Training Program | X | | | |
| .403(b) | Review of Personnel Perform., Emergency Response Program Changes (1 per yr/15 months) | X | | | |
| .403(c) | Verification of Supervisor Knowledge - Emergency Response Procedures | X | | | |
| .404(a)(1) | Maps or Records of Pipeline System | X | | | |
| .404(a)(2) | Maps/Records of Crossings of Roads, Railroads, Rivers, Utilities and Pipelines | X | | | |
| .404(a)(3) | MOP of each Pipeline | X | | | |
| .404(a)(4) | Pipeline Specifications | X | | | |
| .404(b)(1) | Pump Station Daily Discharge Pressure (maintain for at least 3yrs) | X | | | |
| .404(b)(2) | Abnormal Operations (§195.402) (maintain for at least 3yrs) | X | | | |
| .404(c)(1) | Pipe Repairs (maintain for useful pipe life) <i>(Notes: There were no pipe repairs during this inspection period.)</i> | | | X | |
| .404(c)(2) | Repairs to Parts of the System other than pipe (maintain for at least 1 yr) <i>(Notes: There were no repairs to parts during this inspection period.)</i> | | | X | |

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| PART 195 - PERFORMANCE AND RECORDS REVIEW | | S | U | N/A | N/C |
|---|--|---|---|-----|-----|
| .404(c)(3) | Required inspection and test records (maintain 2 yrs or next test/inspection) | X | | | |
| .406(a) | Establishing the MOP | X | | | |
| .408(b)(2) | Receiving notices of abnormal or emergency conditions and sending it to appropriate personnel and government agencies. | X | | | |
| .412(a) | Inspection of the ROW | X | | | |
| .412(b) | Inspection of Underwater Crossings of Navigable Waterways | X | | | |
| .413(b) | Gulf of Mexico/inlets: Periodic underwater inspections based on the identified risk <i>(Notes: This unit is not in the Gulf of Mexico.)</i> | | | X | |
| .420(b) | Inspection of Mainline Valves | X | | | |
| .428(a) | Insp. of Overpress. Safety Devices (1 per yr/15 months non-HVL; 2 per yr/7½ months HVL) | X | | | |
| .428(b) | Inspection of Relief Devices on HVL Tanks (intervals NTE 5 yrs). <i>(Notes: There are no HVL tanks in this unit.)</i> | | | X | |
| .428(d) | Inspection of Overfill Systems (1 per yr/15 months non-HVL; 2 per yr/7½ months HVL) | X | | | |
| .430 | Inspection of Fire Fighting Equipment | X | | | |
| .432 | Inspection of Breakout Tanks (1 per yr/15 months or per API 510 or 653). | X | | | |
| PUBLIC AWARENESS PROGRAM | | | | | |
| .440(e & f) | Documentation properly and adequately reflects implementation of operator's Public Awareness Program requirements - Stakeholder Audience identification, message type and content, delivery method and frequency, supplemental enhancements, program evaluations, etc. (i.e. contact or mailing rosters, postage receipts, return receipts, audience contact documentation, etc. for emergency responder, public officials, school superintendents, program evaluations, etc.). See table below. | X | | | |
| | API RP 1162 Baseline* Recommended Message Delivery Frequencies | | | | |
| | Stakeholder Audience (Hazardous Liquid Operators) | | | | |
| | Baseline Message Frequency (starting from elective date of Plan) | | | | |
| | Residents Along Right-of-Way and Places of Congregation | | | | |
| | Emergency Officials | | | | |
| | Public Officials | | | | |
| | Excavator and Contractors | | | | |
| | One-Call Centers | | | | |
| | * Refer to API RP 1162 for additional requirements, including general program recommendations, supplemental requirements, recordkeeping, program evaluation, etc. | | | | |
| .440(g) | The program conducted in English and any other languages commonly understood by a significant number of the population in the operator's area. | X | | | |
| DAMAGE PREVENTION PROGRAM | | | | | |
| .442(c)(1) | List of Current Excavators | X | | | |
| .442(c)(2) | Notification of Public/Excavators | X | | | |
| .442(c)(3) | Notifications of planned excavations. (One -Call Records) | X | | | |
| CORROSION CONTROL | | | | | |
| .555 | Supervisors maintain thorough knowledge of corrosion procedures. | X | | | |
| .589(c)/.567 | Test Lead Maintenance, frequent enough intervals | X | | | |
| .589(c)/.569 | Inspection of Exposed Buried Pipelines (External Corrosion) | X | | | |
| .589(c)/.573(a) (1) | External Corrosion Control, Protected Pipelines Annual CP tests (1 per yr/15 months) | X | | | |

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| PART 195 - PERFORMANCE AND RECORDS REVIEW | | S | U | N/A | N/C |
|---|--|---|---|-----|-----|
| .589(c)/.573(a) (2) | Close Interval surveys (meeting the circumstances determined by the operator) | X | | | |
| .589(c)/.573(b) | External Corrosion Control, Unprotected Pipeline Surveys, CP active corrosion areas (1 per 3 cal yr/39 months) | X | | | |
| .589(c)/.573(c) | Interference Bonds, reverse current switches, diodes, rectifiers | X | | | |
| .589(c)/.573(d) | External Corrosion Control - Bottom of Breakout Tanks | X | | | |
| .589(c)/.573(e) | Corrective actions as required by .401(b) and, if IMP pipeline, 195.452(h). | X | | | |
| .589(c)/.575 | Electrical isolation inspection and testing | X | | | |
| .589(c)/.577 | Testing for Interference Currents | X | | | |
| .589(c)/.579(a) | Corrosive effect investigation | X | | | |
| .589(c)/.579(b) | Examination of Coupons/Other Types of Internal Corrosion Monitoring Equipment (2 per yr/7½ months) <i>(Notes: There were no coupons installed in the pipeline system.)</i> | | | X | |
| .589(c)/.579(c) | Inspection of Removed Pipe for Internal Corrosion | X | | | |
| .589(c)/.583(a) | Atmos. Corr. Monitoring (1 per 3 cal yr/39 months onshore; 1 per yr/15 months offshore) | X | | | |
| .589(c)/.585(a) | General Corrosion – Reduce MOP or repair ; ASME B31G or RSTRENG <i>(Notes: There was no general corrosion occurred during this inspection period.)</i> | | | X | |
| .589(c)/.585(b) | Localized Corrosion Pitting – replace, repair, reduce MOP <i>(Notes: There was no localized corrosion pitting occurred during this inspection period.)</i> | | | X | |
| .589(a)&(b) | Cathodic Protection (Maps showing anode location, test stations, CP systems, protected pipelines, etc.) | X | | | |

Comments:

Recent PHMSA Advisory Bulletins (Last 2 years)

Leave this list with the operator.

| <u>Number</u> | <u>Date</u> | <u>Subject</u> |
|---------------|-------------------|---|
| ADB-07-01 | April 27, 2007 | Pipeline Safety: Senior Executive Signature and Certification of Integrity Management Program Performance Reports |
| ADB-07-02 | September 6, 2007 | Pipeline Safety: Updated Notification of the Susceptibility to Premature Brittle-Like Cracking of Older Plastic Pipe |
| ADB-07-02 | February 29, 2008 | Correction - Pipeline Safety: Updated Notification of the Susceptibility to Premature Brittle-Like Cracking of Older Plastic Pipe |
| ADB-08-01 | May 13, 2008 | Pipeline Safety - Notice to Operators of Gas Transmission Pipelines on the Regulatory Status of Direct Sales Pipelines |
| ADB-08-02 | March 4, 2008 | Pipeline Safety - Issues Related to Mechanical Couplings Used in Natural Gas Distribution Systems |
| ADB-08-03 | March 10, 2008 | Pipeline Safety - Dangers of Abnormal Snow and Ice Build-Up on Gas Distribution Systems |
| ADB-08-04 | June 5, 2008 | Pipeline Safety - Installation of Excess Flow Valves into Gas Service Lines |
| ADB-08-05 | June 25, 2008 | Pipeline Safety - Notice to Hazardous Liquid Pipeline Operators of Request for Voluntary Adv Notification of Intent To Transport Biofuels |
| ADB-08-06 | July 2, 2008 | Pipeline Safety - Dynamic Riser Inspection, Maintenance, and Monitoring Records on Offshore Floating Facilities |

For more PHMSA Advisory Bulletins, go to <http://ops.dot.gov/regs/advise.htm>