Failure Investigation Report – Kiantone Tank Line Leak, West Seneca New York

- DOTUS Department of TransportationPHMSAPipeline and Hazardous Materials Safety Administration
- OPS Office of Pipeline Safety Eastern Region

| Principal Investigator | Terry Wasielewski, NYSDPS |
|------------------------------|---|
| Senior Accident Investigator | Michael Yazemboski, PHMSA |
| Region Director | Byron Coy |
| Date of Report | 3/28/2016 |
| Subject | Failure Investigation Report – Kiantone Pipeline Company – Cracked 2 inch NPS Drain - Crude Oil Leak, West Seneca Terminal, NY |

Operator, Location, & Consequences

| Date of Failure | 08/25/2015 |
|---------------------------------|--|
| Commodity Released | Heavy Crude Oil |
| City/County & State | West Seneca, New York |
| OpID & Operator Name | 10250, Kiantone Pipeline Company |
| Unit # & Unit Name | #761, West Seneca Terminal |
| SMART Activity # | 151195 |
| Milepost / Location | 550 Meyers Road, West Seneca, NY 14224 |
| Type of Failure | Leak |
| Fatalities | 0 |
| Injuries | 0 |
| Description of area impacted | Leak at base of Tank 703 inside a diked area which is inside the fenced in West Seneca Pipeline terminal |
| Total Costs | \$42,430 |

Executive Summary

On August 25, 2015, the New York State Department of Public Service (NYSDPS) received notification of a product release at the Kiantone Pipeline Tank Facility located in West Seneca, NY. The leak was identified by a Kiantone employee at approximately 10:00 during a routine patrol. The leak was located near the base of Tank 703 within a diked area. Approximately 5 gallons of heavy crude oil was released. The cause of the incident was a cracked Weldolet branch connection fitting on a 2-inch NPS pump line. A bolted repair sleeve was installed, and the line was pressurized and monitored for 24 hours before being backfilled and returned to service. There were no evacuations, injuries, deaths, or property damage associated with this incident.



System Details

Kiantone Pipeline Corporation is owned and operated

by the United Refining Company (URC) of Warren, PA. Its purpose is to receive, store, blend and transport crude oil for the URC refinery located in Warren.

The Kiantone pipeline is 78 miles long, connecting West Seneca Terminal, near Buffalo NY, to the refinery at Warren, PA, through a tank farm 3.4 miles from the refinery.

West Seneca Terminal is the custody transfer point for ownership of the crude entering Kiantone. This terminal contains crude oil meters, pumps and tanks, and serves as the originating station for Kiantone Pipeline. Terminal operations are coordinated by Kiantone Pipeline staff, along with personnel from the Warren Lab Control Center.

Oil enters the terminal and flows into the incoming meter manifold, where the oil volume is measured by positive displacement meters. Two of the four meters are in use during normal operations.

Oil flows to one of the three aboveground storage tanks (701, 702, or 703). Tank 701 contains sweet crude, 702 contains asphaltic crude, and 703 contains sour crude.

Each tank has an incoming and outgoing line, with a motor-operated valve on each. The tanks have hardware and software level alarms, and a Varec automatic tank gauge. The tanks are surrounded by dikes, which are designed to contain oil in the event of a spill. Each dike has a drain valve to release any accumulated water.

The failure was on a 2-inch drain line on the bottom of a 12-inch NPS line which travels from the sample building to Tank 703.

Events Leading up to the Failure

Tank 703 was out of service for an internal inspection. The input line to the tank had a blind flange on it, and was closed in with crude in it at a pressure of approximately 15 psig. The leak located at the ground interface was discovered by an inspector.

Emergency Response

Approximately 5 gallons of heavy crude oil was spilled on the ground. Kiantone implemented their OPA plan for a liquid spill. Kiantone shut down the West Seneca facility, and immediately notified PHMSA through NRC 1126637. They also contacted the New York State Department of Public Service (NYSDPS), along with all other State and Federal agencies outlined in their emergency plan.

Summary of Return-to-Service

Kiantone conducted an investigation to determine the root cause of the crude oil release. Kiantone contracted a local excavation company and an environmental contractor to assist in the cleanup of the area. A 20 foot by 10 foot area around the 12-inch pipeline was excavated to a depth of approximately 7 feet.

Kiantone removed the surrounding soil, applied absorbents and removed any excess oil with a vacuum truck. The soil was stored in a plastic lined container and removed per New York Department of Environmental Conversation (NYSDEC) regulations.

The leak was identified on a 2-inch Weldolet on the bottom of the 12-inch NPS pumpout line. The Weldolet was cracked and the crude oil was leaking from the crack. Kiantone installed a modified 12-inch Plidco clamp over the cracked section that included the 2 inch weldolet. Kiantone pressurized the line to 20 psig and then monitored the repair for 24 hours. The clamp was coated per Kiantone's cathodic protection procedures. The area was then backfilled with fly ash to within 18 inches of grade and left to settle for 24 hours. Once settled, the line was covered with fill.

Investigation Details

Kiantone conducted an internal investigation of this event, as documented in their Form 2.2.1 (Appendix F). This form documents their review of a number of different factors involved including:



Control Room Factors – Kiantone reviewed controller actions and activities and found no evidence of them being



a causative factor to this event. This review included CR procedures, fatigue issues and CR equipment.

HCA Impacts – Kiantone's Integrity Management plan (IMP) identifies this pipeline facility as a "could affect" segment for both high population and drinking water HCAs. The release was contained within the diked area around the tank and no impacts were noted.

Physical Analysis – Kiantone's in-house subject matter experts conducted a physical examination of the cracked piping before the repair clamp was installed. They attributed the pipe failure to natural force damage resulting from years of freeze/thaw cycles. The cracked piping was not removed from the system or sent out for metallurgical analysis.

Findings and Contributing Factors

Failure Investigation Report – Kiantone Tank Line Leak, West Seneca New York

The apparent cause of this failure was natural force damage. The distorted shape of the piping is consistent with long term force actions. There were no indications of a pressure exceedance, corrosion or mechanical damage. Control room records and procedures were reviewed and ruled out as a causative factor. No metallurgical analysis was conducted.

Appendices

- A Maps
- B Photos
- C Incident Report Form 7000.1
- D NRC Report 1126637
- E Kiantone Failure Investigation Report

151195 Appendix A - Maps



Map data ©2016 Google 2 mi

151195 Appendix A - Maps



Imagery ©2016 Google, Map data ©2016 Google 🛛 500 ft 🛏



Imagery ©2016 Google, Map data ©2016 Google 🛛 100 ft 느



PHOTO #1: Crack on the 2" pumpout line, connected to the 12" tank line at the 6 o'clock position

Photo by Terry Wasielewski, NYSDPS, 08/25/2015

Photo #2 – Installed repair clamp



Photo by Terry Wasielewski, NYSDPS, 08/25/2015



Photo #3 – Incident location in reference to Tank 703

Photo by Terry Wasielewski, NYSDPS, 08/25/2015

NOTICE: This report is required by 49 CFR Part 195. Failure to report can result in a civil penalty not to exceed \$100,000 for each violation for each day that such violation persists except that the maximum civil penalty shall not exceed \$1,000,000 as provided in 49 USC 60122.

OMB NO: 2137-0047 EXPIRATION DATE: 07/31/2015

| A | Original Report Date: | 09/17/2015 |
|--|--------------------------|------------------|
| U.S Department of Transportation | No. | 20150331 - 20746 |
| Pipeline and Hazardous Materials Safety Administration | | (DOT Lise Only) |

ACCIDENT REPORT - HAZARDOUS LIQUID PIPELINE SYSTEMS

A federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act unless that collection of information displays a current valid OMB Control Number. The OMB Control Number for this information collection is 2137-0047. All responses to the collection of information are mandatory. Send comments regarding this burden or any other aspect of this collection of information, including suggestions for reducing the burden to: Information Collection Clearance Officer, PHMSA, Office of Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, Washington, D.C. 20590.

INSTRUCTIONS

Important: Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the PHMSA Pipeline Safety Community Web Page at http://www.phmsa.dot.gov/pipeline/library/forms.

PART A - KEY REPORT INFORMATION

| Penort Type: (select all that apply) | Original: | Supplemental: | Final: |
|--|------------------|---------------|--------|
| | Yes | | L |
| Last Revision Date: | | | |
| 1. Operator's OPS-issued Operator Identification Number (OPID): | 10250 | | |
| 2. Name of Operator | KIANTONE PIPEL | INE CORP | |
| 3. Address of Operator: | | | |
| 3a. Street Address | PO BOX 780 | | |
| 3b. City | WARREN | | |
| 3c. State | Pennsylvania | | |
| 3d. Zip Code | 16365 | | |
| 4. Local time (24-hr clock) and date of the Accident: | 08/25/2015 10:15 | | |
| 5. Location of Accident: | | | |
| Latitude: | (D) (7)(F) | | |
| Longitude: | | | |
| 6. National Response Center Report Number (if applicable): | 1126637 | | |
| 7. Local time (24-hr clock) and date of initial telephonic report to the | 08/25/2015 11.57 | | |
| National Response Center (if applicable): | 00/23/2013 11.37 | | |
| 8. Commodity released: (select only one, based on predominant | Crude Oil | | |
| volume released) | | | |
| - Specify Commodity Subtype: | | | |
| - If "Other" Subtype, Descr be: | | | |
| If Biofuel/Alternative Fuel and Commodity Subtype is | | | |
| Ethanol Blend, then % Ethanol Blend: | | | |
| If Biofuel/Alternative Fuel and Commodity Subtype is | | | |
| Biodiesel, then Biodiesel Blend e.g. B2, B20, B100 | | | |
| O Fatimated values of commodity released unintentionally (Dorrele) | 70 | | |
| 9. Estimated volume of commodity released unintentionally (Barreis). | .70 | | |
| 10. Estimated volume of intentional and/or controlled release/blowdown | | | |
| (Daliels). | 70 | | |
| 11. Estimated volume of commodity recovered (barrels). | .70 | | |
| Iz. Were there ratalities? | INO | | |
| - II Yes, specily the humber in each category. | | | |
| 12a. Operator employees | | | |
| 12b. Contractor employees working for the Operator | | | |
| 12c. Non-Operator emergency responders | | | |
| 12d. Workers working on the right-of-way, but NOT | | | |
| associated with this Operator | | | |
| 12e. General public | | | |
| 121. Total fatalities (sum of above) | Na | | |
| 13. Were there injuries requiring inpatient hospitalization? | NO | | |
| - If Yes, specify the number in each category: | | | |
| 13a. Operator employees | | | |
| 13D. Contractor employees working for the Operator | | | |
| 130. Non-Operator emergency responders | | | |
| i su. workers working on the right-or-way, but NOT | | | |
| associated with this Operator | | | |
| I I JE. GENERAL PUDIC | | | |

| 13f Total injuries (sum of above) | |
|--|---|
| 14 Was the pipeline/facility shut down due to the Accident? | Yes |
| - If No. Explain: | 100 |
| - If Yes, complete Questions 14a and 14b; (use local time 24-br clock) | |
| 14a Local time and date of shutdown: | 08/25/2015 12:23 |
| 14b Local time nipeline/facility restarted: | 08/26/2015 20:50 |
| - Still shut down? (* Supplemental Report Required) | |
| 15. Did the commodity ignite? | No |
| 16. Did the commodity explode? | No |
| 17. Number of general public evacuated: | 0 |
| 18. Time sequence (use local time, 24-hour clock): | |
| 18a. Local time Operator identified Accident - effective 7- 2014 | |
| changed to "Local time Operator identified failure": | 08/25/2015 10:15 |
| 18b. Local time Operator resources arrived on site: | 08/25/2015 10:15 |
| PART B - ADDITIONAL LOCATION INFORMATION | |
| 1. Was the origin of the Accident onshore? | Yes |
| If Yes, Complete Quest | tions (2-12) |
| If No, Complete Questi | ons (13-15) |
| - If Onshore: | |
| 2. State: | New York |
| 3. Zip Code: | 14224 |
| 4. City | West Seneca |
| 5. County or Parish | Erie |
| 6. Operator-designated location: | Survey Station No. |
| Specify: | Facility |
| 7. Pipeline/Facility name: | West Seneca Terminal |
| 8. Segment name/ID: | West Seneca Terminal |
| 9. Was Accident on Federal land, other than the Outer Continental Shelf (OCS)? | No |
| 10. Location of Accident: | Totally contained on Operator-controlled property |
| 11. Area of Accident (as found): | Underground |
| Specify: | Under soil |
| - If Other, Descr be: | |
| Depth-of-Cover (in): | 36 |
| 12. Did Accident occur in a crossing? | No |
| - If Yes, specify type below: | |
| - If Bridge crossing – | |
| Cased/ Uncased: | |
| - If Railroad crossing – | |
| Cased/ Uncased/ Bored/drilled | |
| - If Road crossing – | |
| Cased/ Uncased/ Bored/drilled | |
| - If Water crossing – | |
| Cased/ Uncased | |
| - Name of body of water, if commonly known: | |
| - Approx. water depth (ft) at the point of the Accident: | |
| - Select: | |
| - If Offshore: | |
| 13. Approximate water depth (ft) at the point of the Accident: | |
| 14. Origin of Accident: | |
| - In State waters - Specify: | |
| - State: | |
| - Area: | |
| - Block/Tract #: | |
| - Nearest County/Parish: | |
| - On the Outer Continental Shelt (OCS) - Specify: | |
| - Area: | |
| - BIOCK #: | |
| | |
| PART C - ADDITIONAL FACILITY INFORMATION | |
| 1. Is the pipeline or facility: | Interstate |
| 2. Part of system involved in Accident: | Unshore Terminal/Tank Farm Equipment and Piping |
| - If Onshore Breakout Tank or Storage Vessel, Including Attached | |
| Appurtenances, specify: | |
| 3. Item involved in Accident: | Auxiliary Piping (e.g. drain lines) |
| - If Pipe, specify: | |
| 3a. Nominal diameter of pipe (in): | |

| 3b. Wall thickness (in): | |
|--|---|
| 3c. SMYS (Specified Minimum Yield Strength) of pipe (psi): | |
| 3d. Pipe specification: | |
| 3e. Pipe Seam , specify: | |
| - If Other, Descr be: | |
| 3f. Pipe manufacturer: | |
| 3g. Year of manufacture: | |
| 3h. Pipeline coating type at point of Accident, specify: | |
| - If Other, Descr be: | |
| - If Weld, including heat-affected zone, specify. If Pipe Girth Weld, | |
| 3a through 3h above are required: | |
| - If Other, Descr be: | |
| - If Valve, specify: | |
| - If Mainline, specify: | |
| - If Other, Descr be: | |
| 3i. Manufactured by: | |
| 3j. Year of manufacture: | |
| - If Tank/Vessel, specify: | |
| - If Other - Descr be: | |
| - If Other, descr be: | |
| 4. Year item involved in Accident was installed: | 1976 |
| 5. Material involved in Accident: | Carbon Steel |
| - If Material other than Carbon Steel, specify: | |
| 6. Type of Accident Involved: | Leak |
| - If Mechanical Puncture – Specify Approx. size: | · |
| in (axial) by | |
| in (circumferential) | |
| - If Leak - Select Type: | Other |
| - If Other Describe: | mechanical damage |
| - If Rupture - Select Orientation: | |
| - If Other Describe: | |
| Approx size: in (widest opening) by | |
| in (length circumferentially or axially) | |
| If Other Describe: | |
| - II Other – Describe. | |
| | |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION | |
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| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: | No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION Wildlife impact: 1a. If Yes, specify all that apply: | No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic | No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds | No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial | No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: | No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: | No Yes |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Antigipated remediation: | No Yes No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: | No Yes No No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: | No Yes No No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Croundwater | No Yes No No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater | No Yes No No No No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil | No Yes No No No No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation | No Yes No No No No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Widlife | No Yes No No No No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: | No Yes No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: | No Yes No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater | No Yes No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface | No Yes No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Surface - Groundwater | No Yes No No No No No No No No No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Drinking water: (Select one or both) | No Yes No No No No No No No No No |
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| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Drinking water: (Select one or both) - Private Well | No Yes No No No No No No No No |
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| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Drinking water: (Select one or both) - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: | No Yes No No No No No No No Image: Solution of the second sec |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Private Well - Drinking water: (Select one or both) - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility | No Yes No No No No No No No |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Drinking water: (Select one or both) - Private Well - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area | No Yes No No No No No No Yes Yes No Yes Yes Yes Yes Yes Yes |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Private Well - Drinking water: (Select one or both) - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program? | No Yes No No No No No No No Yes Yes Yes Yes |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Private Well - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program? 7. Did the released commodity reach or occur in one or more High | No Yes No No No No No No Yes Yes Yes Yes Yes Yes |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Surface - Surface - Surface - Private Well - Private Well - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program? 7. Did the released commodity reach or occur in one or more High Consequence Area (HCA)? | No Yes No No No No No No No Yes Yes Yes Yes Yes Yes Yes Yes |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Drinking water: (Select one or both) - Private Well - Drinking water: (Select one or both) - Private Well - Drinking water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA)? 7. Did the released commodity reach or occur in one or more High Consequence Area (HCA)? 7a. If Yes, specify HCA type(s): (Select all that apply) | No Yes No No No No No No No Yes Yes Yes Yes Yes Yes Yes |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Vegetation - Vegetation - Vegetation - Soil - Ocean/Seawater - Surface - Groundwater - Ocean/Seawater - Surface - Private Well - Drinking water: (Select one or both) - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA)? 7. Did the released commodity reach or occur in one or more High Consequence Area (HCA)? 7a. If Yes, specify HCA type(s): (Select all that apply) | No Yes No No No No No No No No Yes Yes Yes Yes Yes |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION 1. Wildlife impact: 1a. If Yes, specify all that apply: - Fish/aquatic - Birds - Terrestrial 2. Soil contamination: 3. Long term impact assessment performed or planned: 4. Anticipated remediation: 4a. If Yes, specify all that apply: - Surface water - Groundwater - Soil - Vegetation - Wildlife 5. Water contamination: 5a. If Yes, specify all that apply: - Ocean/Seawater - Surface - Groundwater - Surface - Drinking water: (Select one or both) - Private Well - Public Water Intake 5b. Estimated amount released in or reaching water (Barrels): 5c. Name of body of water, if commonly known: 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program? 7. Did the released commodity reach or occur in one or more High Consequence Area (HCA)? 7a. If Yes, specify HCA type(s): (Select all that apply) - Commercially Navigable Waterway: | No Yes No No No No No No No Yes Yes Yes Yes Yes Yes Yes |

| Integrity Management Program? | |
|--|------------------------------|
| - High Population Area: | Yes |
| Was this HCA identified in the "could affect" | |
| determination for this Accident site in the Operator's | Yes |
| Integrity Management Program? | |
| | |
| - Other Populated Area | |
| was this HCA identified in the Could affect determination | |
| for this Accident site in the Operator's integrity | |
| Management Program? | |
| - Unusually Sensitive Area (USA) - Drinking Water | Yes |
| Was this HCA identified in the "could affect" determination | |
| for this Accident site in the Operator's Integrity | Yes |
| Management Program? | |
| Unusually Sensitive Area (USA) - Ecological | |
| Was this HCA identified in the "could affect" determination | |
| for this Accident site in the Operator's Integrity | |
| Management Program? | |
| 8. Estimated cost to Operator – effective 12-2012, changed to "Estimated | Property Damage": |
| 8a Estimated cost of public and non-Operator private property | |
| damage meid/reight/reig | ¢ 0 |
| damage paid/reimbursed by the Operator – effective 12-2012, | Ф 0 |
| "paid/reimbursed by the Operator" removed | |
| 8b. Estimated cost of commodity lost | \$ 30 |
| 8c. Estimated cost of Operator's property damage & repairs | \$ 10,000 |
| 8d. Estimated cost of Operator's emergency response | \$ 16,400 |
| 8e. Estimated cost of Operator's environmental remediation | \$ 16,000 |
| 8f. Estimated other costs | \$ 0 |
| Describe: | · · · · |
| Pa Estimated total posts (sum of above) offective 12 2012 | |
| og. Estimated total costs (sum of above) – effective 12-2012, | \$ 42,430 |
| changed to "Total estimated property damage (sum of above) | |
| | |
| PARTE - ADDITIONAL OPERATING INFORMATION | |
| | |
| 1. Estimated pressure at the point and time of the Accident (psig): | 15.00 |
| 2. Maximum Operating Pressure (MOP) at the point and time of the | 150.00 |
| Accident (psig): | 100.00 |
| 3. Describe the pressure on the system or facility relating to the | Prossure did not exceed MOP |
| Accident (psig): | Fressure did flot exceed MOF |
| 4. Not including pressure reductions required by PHMSA regulations | |
| (such as for repairs and pipe movement), was the system or facility | |
| relating to the Accident operating under an established pressure | No |
| restriction with pressure limits below those normally allowed by the | |
| MOP? | |
| - If Yes Complete 4 a and 4 b below: | |
| 42 Did the proceure exceed this established proceure | |
| restriction? | |
| Ab. Mos this pressure restriction mendeted by DUMSA or the | |
| 4b. Was this pressure restriction mandated by PhiNSA of the | |
| | |
| 5. Was "Onshore Pipeline, Including Valve Sites" OR "Offshore | |
| Pipeline, Including Riser and Riser Bend" selected in PART C, Question | No |
| 2? | |
| - If Yes - (Complete 5a 5f below) effective 12-2012, changed to "(| Complete 5.a – 5.e below)" |
| 5a. Type of upstream valve used to initially isolate release | |
| source: | |
| 5b. Type of downstream valve used to initially isolate release | |
| source. | |
| 5c. Length of segment isolated between values (ft): | |
| 5d. Is the pipeline configured to accommodate internal | |
| inspection tools? | |
| If No. Which physical factures limit test accommentation of | (acleast all that apply) |
| - II INO, WHICH PHYSICAL TEATURES limit tool accommodation? | (select all that apply) |
| - Changes in line pipe diameter | |
| Presence of unsuitable mainline valves | |
| Tight or mitered pipe bends | |
| Other passage restrictions (i.e. unbarred tee's, | |
| projecting instrumentation, etc.) | |
| - Extra thick pipe wall (applicable only for magnetic | |
| flux leakage internal inspection tools) | |
| - Other - | • |
| | |
| - If Other Deserber | |
| - If Other, Descr be: | |
| - If Other, Descr be: 5e. For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tech | |
| - If Other, Descr be: 5e. For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool | |
| If Other, Descr be: 5e. For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run? | |

| Excessive debris or scale, wax, or other wall buildup | |
|--|--|
| Low operating pressure(s) | |
| Low flow or absence of flow | |
| Incompatible commodity | |
| - Other - | |
| - If Other, Descr be: | |
| 5f. Function of pipeline system: | > 20% SMYS Regulated Trunkline/Transmission |
| 6. Was a Supervisory Control and Data Acquisition (SCADA)-based | Voc |
| system in place on the pipeline or facility involved in the Accident? | 163 |
| If Yes - | |
| 6a. Was it operating at the time of the Accident? | Yes |
| 6b. Was it fully functional at the time of the Accident? | Yes |
| 6c. Did SCADA-based information (such as alarm(s), | |
| alert(s), event(s), and/or volume calculations) assist with | No |
| the detection of the Accident? | |
| 6d. Did SCADA-based information (such as alarm(s), | |
| alert(s), event(s), and/or volume calculations) assist with | No |
| the confirmation of the Accident? | |
| 7. Was a CPM leak detection system in place on the pipeline or facility | No |
| | |
| - If Yes: | |
| 7a. Was it operating at the time of the Accident? | |
| 70. Was it fully functional at the time of the Accident? | |
| alarm(s) alert(s) event(s) and/or volume calculations) assist | |
| with the detection of the Accident? | |
| 7d Did CPM leak detection system information (such as | |
| alarm(s), alert(s), event(s), and/or volume calculations) assist | |
| with the confirmation of the Accident? | |
| 8. How was the Accident initially identified for the Operator? | Local Operating Personnel, including contractors |
| - If Other, Specify: | |
| 8a. If "Controller", "Local Operating Personnel", including | |
| contractors", "Air Patrol", or "Ground Patrol by Operator or its | Contractor working for the Operator |
| contractor" is selected in Question 8, specify: | 5 1 |
| Q Was an investigation initiated into whather or not the controller(a) or | No, the Operator did not find that an investigation of the |
| 9. Was an investigation initiated into whether of hot the controller(s) of control room issues were the cause of or a contributing factor to the | controller(s) actions or control room issues was necessary |
| Accident? | due to: (provide an explanation for why the Operator did not |
| | investigate) |
| - If No, the Operator did not find that an investigation of the | Cause of leak was unrelated to pipeline operations or |
| controller(s) actions or control room issues was necessary due to: | controller actions |
| (provide an explanation for why the operator did not investigate) | |
| - If res, specify investigation reviewed work schedule retations | |
| continuous hours of service (while working for the | |
| Operator) and other factors associated with fatigue | |
| Investigation did NOT review work schedule rotations | |
| continuous hours of service (while working for the | |
| Operator), and other factors associated with fatigue | |
| Provide an explanation for why not: | |
| Investigation identified no control room issues | |
| Investigation identified no controller issues | |
| Investigation identified incorrect controller action or | |
| controller error | |
| - Investigation identified that fatigue may have affected the | |
| controller(s) involved or impacted the involved controller(s) | |
| response | |
| Investigation identified incorrect procedures | |
| Investigation identified incorrect control room equipment | |
| operation | |
| - Investigation identified maintenance activities that affected | |
| control room operations, procedures, and/or controller | |
| response | |
| - investigation identified areas other than those above: | |
| Desci be. | |
| PART F - DRUG & ALCOHOL TESTING INFORMATION | |
| 1. As a result of this Accident, were any Operator employees tested | |
| under the post-accident drug and alcohol testing requirements of DOT's | No |
| Drug & Alcohol Testing regulations? | |
| - If Yes: | |
| | |

| 151195 Appendix C - Incident Report 7000.1 |
|--|
|--|

| 1b. Specify how many failed: | |
|---|---|
| 2. As a result of this Accident, were any Operator contractor employees | |
| tested under the post-accident drug and alcohol testing requirements of | No |
| DOT's Drug & Alcohol Testing regulations? | |
| - If Yes: | • |
| 2a. Specify how many were tested: | |
| 2b Specify how many failed | |
| | |
| PART G – APPARENT CAUSE | |
| Select only one box from PART G in shaded column on left represen | ting the APPARENT Cause of the Accident, and answer |
| the questions on the right. Describe secondary, contributing or root | causes of the Accident in the narrative (PART H). |
| Annerent Courses | 62 Natural Force Domono |
| Apparent Cause: | G2 - Natural Force Damage |
| G1 - Corrosion Failure - only one sub-cause can be picked from share | ded left-hand column |
| Corrosion Failure – Sub-Cause: | |
| - If External Corrosion: | |
| 1. Results of visual examination: | |
| - If Other, Describe: | |
| 2. Type of corrosion: (select all that apply) | 1 |
| - Galvanic | |
| - Atmospheric | |
| - Strav Current | |
| - Microbiological | |
| - Selective Seam | |
| - Other: | |
| - If Other Describe | |
| 3 The type(s) of corrosion selected in Question 2 is based on the following | ng: (select all that apply) |
| - Field examination | |
| - Determined by metallurgical analysis | |
| - Other | |
| - If Other Decorbe | |
| 4 Was the failed item buried under the ground? | |
| - If Yes · | |
| 11 100. | |
| □4a. was railed item considered to be under cathodic | |
| If Voc. Vocr protection started: | |
| Ab Was shielding tenting or disbanding of eacting avident at | |
| 40. was smeaning, tenting, or aisbonding of coating evident at the point of the Accident? | |
| Ac Has one or more Cathodia Protection Survey been | |
| 40. Has one of more Californic Protection Survey been | |
| | |
| IT "Yes, CP Annual Survey" – Most recent year conducted: | |
| If "Yes, Close Interval Survey" – Most recent year conducted: | |
| If "Yes, Other CP Survey" – Most recent year conducted: | |
| - If No: | |
| 4d. Was the failed item externally coated or painted? | |
| 5. Was there observable damage to the coating or paint in the vicinity of | |
| the corrosion? | |
| - If Internal Corrosion: | |
| 6. Results of visual examination: | |
| - Other: | |
| 7. Type of corrosion (select all that apply): - | |
| - Corrosive Commodity | |
| - Water drop-out/Acid | |
| - Microbiological | |
| - Erosion | |
| - Other: | |
| - If Other. Descr be: | |
| 8. The cause(s) of corrosion selected in Question 7 is based on the follow | ving (select all that apply): - |
| - Field examination | |
| - Determined by metallurgical analysis | |
| - Other: | |
| - If Other Describe: | |
| 9. Location of corrosion (select all that apply) - | |
| - Low point in pipe | |
| - Flbow | |
| - Other | |
| outor. | |

| - If Other, Descr be: | | | |
|--|---|--|--|
| 10. Was the commodity treated with corrosion inhibitors or biocides? | | | |
| 11. Was the interior coated or lined with protective coating? | | | |
| 12. Were cleaning/dewatering pigs (or other operations) routinely | | | |
| Utilized? | | | |
| Complete the following if any Corresion Failure sub-cause is selected / | AND the "Item Involved in Accident" (from BART C | | |
| Complete the following it any corrosion ranure sub-cause is selected / | and the item involved in Accident (noin PARTC, | | |
| 14 List the year of the most recent inspections: | | | |
| 14a. API Std 653 Out-of-Service Inspection | | | |
| - No Out-of-Service Inspection completed | | | |
| 14b. API Std 653 In-Service Inspection | | | |
| - No In-Service Inspection completed | | | |
| Complete the following if any Corrosion Failure sub-cause is selected AND the "Item Involved in Accident" (from PART C, Question 3) is Pipe or Weld. | | | |
| 15. Has one or more internal inspection tool collected data at the point of Accident? | the | | |
| 15a. If Yes, for each tool used, select type of internal inspection tool - Magnetic Flux Leakage Tool | and indicate most recent year run: - | | |
| Most recent ye | ear: | | |
| - Ultrasonic | | | |
| Most recent ye | ear: | | |
| - Geometry | | | |
| Most recent ye | ear: | | |
| - Caliper | | | |
| Most recent ye | 5al. | | |
| - Clack Most recent ve | aar: | | |
| - Hard Spot | | | |
| Most recent ve | ar: | | |
| - Combination Tool | | | |
| Most recent ye | ear: | | |
| - Transverse Field/Triaxial | | | |
| Most recent ye | ear: | | |
| - Other | | | |
| Most recent ye | ear: | | |
| Descr | be: | | |
| 16. Has one or more hydrotest or other pressure test been conducted since | ce l | | |
| original construction at the point of the Accident? | | | |
| II TES - Most recent year test | ed: | | |
| Test pressur | e. | | |
| 17. Has one or more Direct Assessment been conducted on this segment | 2 | | |
| - If Yes, and an investigative dig was conducted at the point of the Acciden | t:: | | |
| Most recent year conducted: | | | |
| - If Yes, but the point of the Accident was not identified as a dig site: | | | |
| Most recent year conducted: | | | |
| 18. Has one or more non-destructive examination been conducted at the point of the Accident since January 1, 2002? | | | |
| 18a. If Yes, for each examination conducted since January 1, 2002, selec recent year the examination was conducted: | t type of non-destructive examination and indicate most | | |
| - Radiography | | | |
| Most recent year conducted: | | | |
| - Guided Wave Ultrasonic | | | |
| Most recent year conducted: | | | |
| - manuneio Uillasonic 1001 Moet recent voor conducted: | | | |
| - Wet Magnetic Particle Test | | | |
| Most recent vear conducted. | | | |
| - Dry Magnetic Particle Test | | | |
| Most recent year conducted: | | | |
| - Other | | | |
| Most recent year conducted: | | | |
| Descr | be: | | |
| G2 - Natural Force Damage - only one sub-cause can be picked from shaded left-handed column | | | |
| Natural Force Damage – Sub-Cause: | Temperature | | |
| - If Earth Movement, NOT due to Heavy Rains/Floods: | | | |
| 1. Specify: | | | |

| - If Other Describe | |
|--|--|
| - If Heavy Rains/Floods: | |
| 2 Specify: | |
| - If Other Describe: | |
| - If Lightning: | |
| 3 Specify: | |
| - If Temperature | |
| 4 Specify | Frost Heave |
| - If Other Describe: | |
| - If Other Natural Force Damage: | " |
| 5. Describe: | |
| Complete the following if any Natural Force Demogra out acuse is cale | eted |
| Complete the following it any Natural Force Damage sub-cause is sele | |
| Were the natural forces causing the Accident generated in conjunction with an extreme weather event? | No |
| 62. If Ves, specify: (soloct all that apply) | |
| | |
| - Tropical Storm | |
| - Torpado | |
| - Other | |
| - If Other Describe: | |
| | |
| G3 - Excavation Damage - only one sub-cause can be picked from s | haded left-hand column |
| | |
| Excavation Damage – Sub-Cause: | |
| If Provious Damage due to Excavation Activity: Complete Questions | 1-5 ONLY IF the "Item Involved in Accident" (from DAPT |
| C Question 3) is Pine or Weld | |
| 1 Has one or more internal inspection tool collected data at the point of | |
| the Accident? | |
| 1a. If Yes, for each tool used, select type of internal inspection tool a | nd indicate most recent vear run: - |
| - Magnetic Flux Leakage | · · · · · · · · · · · · · · · · · · · |
| Most recent year conducted: | |
| - Ultrasonic | |
| Most recent year conducted: | |
| - Geometry | |
| Most recent year conducted: | |
| - Caliper | |
| Most recent year conducted: | |
| - Crack | |
| Most recent year conducted: | |
| - Hard Spot | |
| Most recent year conducted: | |
| - Combination Tool | |
| Most recent year conducted: | |
| - Transverse Field/Triaxial | |
| Most recent year conducted: | |
| - Other | |
| Most recent year conducted: | |
| Descr be: | |
| 2. Do you have reason to believe that the internal inspection was | |
| completed BEFORE the damage was sustained? | |
| 3. Has one or more hydrotest or other pressure test been conducted since | |
| original construction at the point of the Accident? | |
| - II TES. | |
| | |
| A Has one or more Direct Assessment been conducted on the pipeling. | |
| segment? | |
| If Yes, and an investigative dig was conducted at the point of the Acci | dent: |
| Most recent year conducted: | |
| - If Yes, but the point of the Accident was not identified as a dig site: | |
| Most recent year conducted: | |
| 5. Has one or more non-destructive examination been conducted at the | |
| point of the Accident since January 1, 2002? | |
| 5a. If Yes, for each examination, conducted since January 1, 2002, | select type of non-destructive examination and indicate most |
| recent year the examination was conducted: | |
| - Radiography | |
| Most recent year conducted: | |
| - Guided Wave Ultrasonic | |
| Most recent year conducted: | |

| - Handheld Ultrasonic Tool | | |
|--|--|--|
| Most recent year conducted: | | |
| - Wet Magnetic Particle Test | | |
| Most recent year conducted: | | |
| - Dry Magnetic Particle Test | | |
| Othor | | |
| - Other Most recent year conducted: | | |
| Niosi Tecenii year conducted. Describe: | | |
| | | |
| Complete the following if Excavation Damage by Third Party is selected | d as the sub-cause. | |
| 6. Did the operator get prior notification of the excavation activity? | | |
| 6a. If Yes, Notification received from: (select all that apply) - | | |
| - One-Call System | | |
| - Excavator | | |
| | | |
| - Landowner | | |
| Complete the following mandatory CGA-DIRT Program questions if any | r Excavation Damage sub-cause is selected. | |
| 7 Do you want PHMSA to upload the following information to CGA- | | |
| DIRT (www.cga-dirt.com)? | | |
| 8. Right-of-Way where event occurred: (select all that apply) - | | |
| - Public | | |
| - If "Public", Specify: | | |
| - Private | | |
| - If "Private", Specify: | | |
| - Pipeline Property/Easement | | |
| - Power/ I ransmission Line | | |
| - Railf0a0 Dedicated Dublic Litility Economent | | |
| - Dedicated Fublic Officy Easement | | |
| - Data not collected | | |
| - Unknown/Other | | |
| 9. Type of excavator: | | |
| 10. Type of excavation equipment: | | |
| 11. Type of work performed: | | |
| 12. Was the One-Call Center notified? | | |
| 12a. If Yes, specify ticket number: | | |
| 12b. If this is a State where more than a single One-Call Center | | |
| 13 Type of Locator: | | |
| 14. Were facility locate marks visible in the area of excavation? | | |
| 15. Were facilities marked correctly? | | |
| 16. Did the damage cause an interruption in service? | | |
| 16a. If Yes, specify duration of the interruption (hours) | | |
| 17. Description of the CGA-DIRT Root Cause (select only the one predon | ninant first level CGA-DIRT Root Cause and then, where | |
| available as a choice, the one predominant second level CGA-DIRT Root | Cause as well): | |
| Root Cause: | | |
| If One-Call Notification Practices Not Sufficient, specify: | | |
| - If Locating Practices Not Sufficient, specify: | | |
| If Excavation Practices Not Sufficient, specify: | | |
| - If Other/None of the Above, explain: | | |
| G4 - Other Outside Force Damage - only one sub-cause can be se | elected from the shaded left-hand column | |
| | | |
| Other Outside Force Damage – Sub-Cause: | | |
| If Demore by Car Truck or Other Materized Vehicle/Equipment NO | F Engaged in Everyotion. | |
| In Damage by Car, Truck, or Other Motorized Venicle/Equipment NO Vehicle/Equipment operated by: | Engaged in Excavation: | |
| I. Vehicle/Equipment operated by. | ant or Vessels Set Adrift or Which Have Otherwise Lost | |
| Their Mooring: | | |
| 2. Select one or more of the following IF an extreme weather event was a | factor: | |
| - Hurricane | | |
| - Tropical Storm | | |
| - Tornado | | |
| - Heavy Rains/Flood | | |
| - Other | | |
| - If Other, Describe: | te Ouestiens 2.7 ONLVIE the "Item Invelved in- | |
| - IT Previous Mechanical Damage NUT Related to Excavation: Complete Questions 3-7 UNLY IF the "Item Involved in Accident" (from PART C. Question 3) is Pipe or Weld | | |
| 3. Has one or more internal inspection tool collected data at the point of | | |

| the Accident? | |
|--|---|
| 3a. If Yes, for each tool used, select type of internal inspection tool and ir | ndicate most recent year run: |
| - Magnetic Flux Leakage | |
| Most recent year conducted: | |
| - Ultrasonic | |
| Most recent year conducted: | |
| - Geometry | |
| Most recent year conducted: | |
| - Caliper | |
| Most recent year conducted: | |
| - Crack | |
| Most recent year conducted: | |
| - Hard Spot | |
| Most report year conducted: | |
| Combination Teal | |
| | |
| Most recent year conducted: | |
| - Transverse Field/Triaxial | |
| Most recent year conducted: | |
| - Other | |
| Most recent year conducted: | |
| Descr be: | |
| 4. Do you have reason to believe that the internal inspection was | |
| completed BEFORE the damage was sustained? | |
| 5. Has one or more hydrotest or other pressure test been conducted | |
| since original construction at the point of the Accident? | |
| - If Yes: | |
| Most recent year tested: | |
| Test pressure (psig) | |
| 6 Has one or more Direct Assessment been conducted on the pipeline | |
| segment? | |
| - If Yes, and an investigative dig was conducted at the point of the Accident | |
| Most recent year conducted: | |
| - If Yes, but the point of the Accident was not identified as a dig site: | |
| Most recent year conducted: | |
| 7 Has one or more non-destructive examination been conducted at the | |
| noint of the Accident since January 1, 20022 | |
| Zo If Voc. for each examination conducted since lanuary 1, 2002 : | l The state of the state of the structure of the first state of the st |
| | CLACT TUDA AT DAD ACCTILICITUA AVAMIDATIAN ANA INALATA MACT |
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| recent year the examination was conducted: Radiography Guided Wave Ultrasonic Guided Wave Ultrasonic Tool Handheld Ultrasonic Tool Wet Magnetic Particle Test Ory Magnetic Particle Test Other Other Most recent year conducted: Other If Intentional Damage: | elect type of non-destructive examination and indicate most |
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| recent year the examination was conducted in the darker year the examination was conducted in the examination we examination was conducted in the examination wa | elect type of non-destructive examination and indicate most |
| recent year the examination was conducted: Radiography Most recent year conducted: Guided Wave Ultrasonic Most recent year conducted: Handheld Ultrasonic Tool Wet Magnetic Particle Test Wet Magnetic Particle Test Other Other Most recent year conducted: Other Most recent year conducted: Other Specify: If Other, Descr be: If Other Outside Force Damage: Describe: G5 - Material Failure of Pipe or Weld - only one sub-cause can be Use this section to report material failures ONLY IF the "Item Involve "Weld." Material Failure of Pipe or Weld – Sub-Cause: The sub-cause shown above is based on the following: (select all that - Field Examination Other Analysis Other Analysis | elect type of non-destructive examination and indicate most |
| If Intentional Damage: Specify: If Other Outside Force Damage: Section to report material failures ONLY IF the "Item Involve "Weld." Most recents is based on the following: (select all that - Field Examination - Other Analysis | elect type of non-destructive examination and indicate most |
| recent year the examination was conducted: Radiography Most recent year conducted: Guided Wave Ultrasonic Most recent year conducted: Handheld Ultrasonic Tool Most recent year conducted: Wet Magnetic Particle Test Most recent year conducted: Other Other Most recent year conducted: Other Most recent year conducted: Other Most recent year conducted: Other Other Most recent year conducted: Other Most recent year conducted: Other Other Most recent year conducted: Other, Descr be: If Other Outside Force Damage: Describe: G5 - Material Failure of Pipe or Weld - only one sub-cause can be weld." Material Failure of Pipe or Weld - Sub-Cause: The sub-cause shown above is based on the following: (select all that - Field Examination Determined by Metallurgical Analysis Other Analysis", Descr be: | elect type of non-destructive examination and indicate most |

| - If Construction, Installation, or Fabrication-related: | |
|--|---|
| 2. List contr buting factors: (select all that apply) | |
| - Fatigue or Vibration-related | |
| Specify: | |
| - If Other, Descr be: | |
| - Mechanical Stress: | |
| - Other | |
| - If Other, Descr be: | |
| - If Environmental Cracking-related: | |
| 3. Specify: | |
| - If Other - Describe: | |
| Complete the following if any Meterial Failure of Pine or Weld sub as | in allocted |
| | ise is selected. |
| 4. Additional factors: (select all that apply): | |
| - Dent | |
| - Gouge | |
| - Pipe Bend | |
| - Arc Burn | |
| - Crack | |
| - Lack of Fusion | |
| - Lamination | |
| - Buckle | |
| - Wrinkle | |
| - Misalignment | |
| - Burnt Steel | |
| - Other: | |
| - If Other, Descr be: | |
| 5. Has one or more internal inspection tool collected data at the point of | |
| the Accident? | |
| 5a. If Yes, for each tool used, select type of internal inspection tool a | and indicate most recent year run: |
| - Magnetic Flux Leakage | |
| Most recent year run: | |
| - Ultrasonic | |
| Most recent year run: | |
| - Geometry | |
| Most recent year run: | |
| - Caliper | |
| Most recent year run: | |
| - Crack | |
| Most recent year run: | |
| - Hard Spot | |
| Most recent year run: | |
| - Combination Tool | |
| Most recent year run: | |
| - Transverse Field/Triaxial | |
| Most recent year run: | |
| - Other | |
| Most recent year run: | |
| Describe: | |
| 6 Has one or more hydrotest or other pressure test been conducted since | |
| original construction at the point of the Accident? | |
| - If Yes: | |
| Most recent year tested: | |
| Test pressure (psig): | |
| 7. Has one or more Direct Assessment been conducted on the pipeline | |
| segment? | |
| - If Yes, and an investigative dig was conducted at the point of the Acc | ident - |
| Most recent vear conducted: | |
| - If Yes, but the point of the Accident was not identified as a dig site - | |
| Most recent year conducted: | |
| 8. Has one or more non-destructive examination(s) been conducted at the | |
| point of the Accident since January 1, 2002? | |
| 8a. If Yes, for each examination conducted since January 1, 2002, s | elect type of non-destructive examination and indicate most |
| recent year the examination was conducted: - | |
| - Radiography | |
| Most recent year conducted: | |
| - Guided Wave Ultrasonic | |
| Most recent year conducted: | |
| - Handheld Ultrasonic Tool | |
| Most recent year conducted: | |

| - Wet Magnetic Particle Test | |
|--|-----------------------------|
| Most recent year conducted: | |
| - Dry Magnetic Particle Test | |
| Most recent year conducted: | |
| - Other | |
| Most recent year conducted: | |
| Descr be: | |
| G6 – Equipment Failure - only one sub-cause can be selected from t | he shaded left-hand column |
| Equipment Failure – Sub-Cause: | |
| - If Malfunction of Control/Relief Equipment: | • |
| 1. Specify: (select all that apply) - | |
| - Control Valve | |
| - Instrumentation | |
| - SCADA | |
| - Communications | |
| - Block Valve | |
| - Check Valve | |
| - Relief Valve | |
| - Power Failure | |
| - Stopple/Control Fitting | |
| - ESD System Failure | |
| - Other | |
| - If Other – Descr be: | |
| - If Pump or Pump-related Equipment: | 1 |
| 2. Specify: | |
| - If Other – Descr be: | |
| - If Threaded Connection/Coupling Failure: | |
| 3. Specify: | |
| - If Other – Descr be: | |
| - If Non-threaded Connection Failure: | |
| 4. Specify: | |
| - If Other – Descr be: | |
| - If Other Equipment Failure: | · |
| 5. Describe: | |
| Complete the following if any Equipment Follows out course is calendar | |
| Complete the following if any Equipment Failure sub-cause is selected | l. |
| 6. Additional factors that contributed to the equipment failure: (select all the | nat apply) |
| - Excessive vibration | |
| - Overpressurization | |
| - No support or loss of support | |
| Monufacturing defect | |
| | |
| | |
| - Loss of electricity | |
| - Loss of electricity - Improper installation | |
| - Loss of electricity - Improper installation - Mismatched items (different manufacturer for tubing and tubing | |
| - Loss of electricity - Improper installation - Mismatched items (different manufacturer for tubing and tubing fittings) | |
| - Loss of electricity - Improper installation - Mismatched items (different manufacturer for tubing and tubing fittings) - Dissimilar metals | |
| - Loss of electricity - Improper installation - Mismatched items (different manufacturer for tubing and tubing fittings) - Dissimilar metals - Breakdown of soft goods due to compatibility issues with | |
| - Loss of electricity - Improper installation - Mismatched items (different manufacturer for tubing and tubing fittings) - Dissimilar metals - Breakdown of soft goods due to compatibility issues with transported commodity | |
| - Loss of electricity - Improper installation - Mismatched items (different manufacturer for tubing and tubing fittings) - Dissimilar metals - Breakdown of soft goods due to compatibility issues with transported commodity - Valve vault or valve can contributed to the release | |
| - Loss of electricity - Improper installation - Mismatched items (different manufacturer for tubing and tubing fittings) - Dissimilar metals - Breakdown of soft goods due to compatibility issues with transported commodity - Valve vault or valve can contributed to the release - Alarm/status failure | |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment | |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment | |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment Thermal stress | |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment Thermal stress Other | |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment Thermal stress Other If Other, Descr be: | |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment Thermal stress Other If Other, Descr be: | the shaded left-hand column |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment Thermal stress Other If Other, Descr be: G7 - Incorrect Operation - only one sub-cause can be selected from Incorrect Operation – Sub-Cause: | the shaded left-hand column |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment Thermal stress Other If Other, Descr be: G7 - Incorrect Operation - only one sub-cause can be selected from Incorrect Operation – Sub-Cause: | the shaded left-hand column |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment Thermal stress Other If Other, Descr be: G7 - Incorrect Operation - only one sub-cause can be selected from Incorrect Operation – Sub-Cause: If Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill or the selection | the shaded left-hand column |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment Thermal stress Other If Other, Descr be: G7 - Incorrect Operation - only one sub-cause can be selected from Incorrect Operation – Sub-Cause: If Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill on 1. Specify: | the shaded left-hand column |
| Loss of electricity Improper installation Mismatched items (different manufacturer for tubing and tubing fittings) Dissimilar metals Breakdown of soft goods due to compatibility issues with transported commodity Valve vault or valve can contributed to the release Alarm/status failure Misalignment Thermal stress Other If Other, Descr be: G7 - Incorrect Operation – only one sub-cause can be selected from Incorrect Operation – Sub-Cause: If Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill or | the shaded left-hand column |

| 2. Describe: | • | | |
|---|---|--|--|
| Complete the following if any Incorrect Operation sub-cause is selected. | | | |
| 3. Was this Accident related to (select all that apply): - | | | |
| - Inadequate procedure | | | |
| No procedure established | | | |
| - Failure to follow procedure | | | |
| - Other: | | | |
| - If Other, Descr be: | | | |
| 4. What category type was the activity that caused the Accident? | | | |
| 5. Was the task(s) that led to the Accident identified as a covered task | | | |
| in your Operator Qualification Program? | | | |
| 5a. If Yes, were the individuals performing the task(s) qualified for | | | |
| the task(s)? | | | |
| | | | |
| G8 - Other Accident Cause - only one sub-cause can be selected from the shaded left-hand column | | | |

Other Accident Cause – Sub-Cause: - If Miscellaneous: 1. Describe: - If Unknown: 2. Specify:

PART H - NARRATIVE DESCRIPTION OF THE ACCIDENT

On 8/25/15 at approximately 10:15am a small amount of crude oil was discovered near the fill line to Tank 703 at Kiantone Pipeline's West Seneca Terminal. The tank had been empty and out of service for over a year for an API 653 inspection. All of the tank's ancillary piping had been isolated from the tank, but remained full and under low pressure (est. 15 psi.)

Upon discovery of the oil, facility personnel quickly excavated approximately 30 feet of the buried fill line but only a small amount of oil was encountered. Upon further investigation and testing, a small break was found in a misshaped 2-inch drain-up line connected to the tank fill line. The break was not initially apparent because the pipe coating served to mask the leak. SMEs concluded hat freeze/ haw cycles likely precipitated the damage to the idle drain-up line. SMEs could not determine the ul imate stressor that had caused the misshaped pipe to finally release (i.e. no apparent mechanical force or pressure.)

The damaged drain up line was disconnected and removed, and a pressure rated clamp was installed over the connec ion point.

PART I - PREPARER AND AUTHORIZED SIGNATURE

| Preparer's Name | Daniel Sobina | | |
|------------------------------------|-------------------------------|--|--|
| Preparer's Title | Regulatory Compliance Manager | | |
| Preparer's Telephone Number | 8147264846 | | |
| Preparer's E-mail Address | dansobina@urc.com | | |
| Preparer's Facsimile Number | 8147264798 | | |
| Authorized Signer Name | James Hare | | |
| Authorized Signer Title | Pipeline Manager | | |
| Authorized Signer Telephone Number | 7166752767 | | |
| Authorized Signer Email | jhare@urc.com | | |
| Date | 09/17/2015 | | |

This report is forwarded for your situational awareness. CMC 6-1863

NATIONAL RESPONSE CENTER 1-800-424-8802 ***GOVERNMENT USE ONLY***GOVERNMENT USE ONLY*** Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 1126637

INCIDENT DESCRIPTION

*Report taken by: MST1 HECTOR FUENTES at 12:03 on 25-AUG-15 Incident Type: PIPELINE Incident Cause: EQUIPMENT FAILURE Affected Area: Incident occurred on 25-AUG-15 at 10:15 local incident time. Affected Medium: SOIL

REPORTING PARTY Name: DANIEL SOBINA Organization: KIANTONE PIPELINE Address: 550 MEYER ROAD WEST SENECA, NY 14224

PRIMARY Phone: (814)6881387 Type of Organization: PRIVATE ENTERPRISE

SUSPECTED RESPONSIBLE PARTY Name: DANIEL SOBINA Organization: KIANTONE PIPELINE Address: 550 MEYER ROAD WEST SENECA, NY 14224 PRIMARY Phone: (814)6881387

INCIDENT LOCATION 550 MEYER ROAD County: ERIE City: WEST SENECA State: NY Zip: 14224

RELEASED MATERIAL(S) CHRIS Code: OIL Official Material Name: OIL: CRUDE Also Known As: Qty Released: 5 GALLON(S)

DESCRIPTION OF INCIDENT

THE CALLER IS REPORTING THAT A PIPELINE INSIDE THE FACILITY HAD A PINHOLE AND DISCHARGED OIL INTO SOIL.

SENSITIVE INFORMATION

INCIDENT DETAILS Pipeline Type: TRANSMISSION DOT Regulated: YES Pipeline Above/Below Ground: BELOW Exposed or Under Water: NO Pipeline Covered: UNKNOWN

IMPACT Fire Involved: NO Fire Extinguished: UNKNOWN

INJURIES: NO Hospitalized: Empl/Crew: Passenger: FATALITIES: NO Empl/Crew: Passenger: Occupant: EVACUATIONS:NO Who Evacuated: Radius/Area:

Damages: NO

| | Hours | Direction of | |
|-----------------------------|-----------|--------------|---------|
| Closure Type Description of | f Closure | e Closed | Closure |
| N | | | |
| Air: | | | |
| Ν | | Major | |
| Road: | | Artery:N | |
| Ν | | | |
| Waterway: | | | |
| Ν | | | |
| Track: | | | |

Environmental Impact: UNKNOWN Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS SOIL WILL BE REMOVED, ABSORBENTS APPLIED, VAC TRUCK USED, CONTRACTOR HAS BEEN HIRED. Release Secured: YES Release Rate: Estimated Release Duration: WEATHER Weather: SUNNY, °F

Federal: State/Local: NYDEC State/Local On Scene: State Agency Number: 1505600 NOTIFICATIONS BY NRC CENTERS FOR DISEASE CONTROL (GRASP) 25-AUG-15 12:16 (770)4887100 DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE) 25-AUG-15 12:16 (202)3661863 U.S. EPA II (MAIN OFFICE) (732)3214370 NTL ENVMTL EMERG CENTRE CANADA (MAIN OFFICE) 25-AUG-15 12:16 (819)9973742 NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE) 25-AUG-15 12:16 (202)2829201 NJ OFC HMLND SECURITY & PREPAREDNES (COMMAND CENTER) 25-AUG-15 12:16 (609)9636817 NJ STATE POLICE (MARINE SERVICES BUREAU)

ADDITIONAL AGENCIES NOTIFIED

25-AUG-15 12:16 (609)9636900 NOAA RPTS FOR NY (MAIN OFFICE) 25-AUG-15 12:16 (206)5264911 NATIONAL RESPONSE CENTER HQ (AUTOMATIC REPORTS) 25-AUG-15 12:16 (202)2671136 NY STATE DEC SPILL HOTLINE (MAIN OFFICE) 25-AUG-15 12:16 (518)4577362 PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO)) 25-AUG-15 12:16 (202)3660568 SECTOR BUFFALO (INTEL OFFICE) 25-AUG-15 12:16 (716)8439377 USCG DISTRICT 1 (COMMAND CENTER) 25-AUG-15 12:16 (617)2238555 USCG DISTRICT 9 (COMMAND CENTER)

25-AUG-15 12:16 (216)9026109

ADDITIONAL INFORMATION

*** END INCIDENT REPORT #1126637 *** Report any problems by calling 1-800-424-8802 PLEASE VISIT OUR WEB SITE AT http://www.nrc.uscg.mil The information contained in this communication from the Department of Transportation's Crisis Management Center (CMC) Watch may be sensitive or privileged and is intended for the sole use of persons or entities named. If you are not an intended recipient of this transmission, you are prohibited from disseminating, distributing, copying or using the information. If you have received this communication in error, please immediately contact the CMC Watch at (202) 366-1863 to arrange for the return of this information.

Appendix E

Kiantone Failure Investigation Report

This document is on file at PHMSA