DOTUS Department of TransportationPHMSAPipelines and Hazardous Materials Safety AdministrationOPSOffice of Pipeline Safety<br/>Eastern Region

| Principal Investigator | Al Schoen   |
|------------------------|---|
| Region Director        | Byron Coy   |
| Date of Report         | 7/5/2012  |
| Subject                | Failure Investigation Report – Harbor Pipeline Fire Incident, Mansfield<br>Township, NJ |

## **Operator, Location, & Consequences**

| Date of Failure                 | 10/11/2010  |
|---------------------------------|---|
| Commodity Released              | ULSD Diesel Fuel                                      |
| City/County & State             | Mansfield Township/Burlington County, NJ              |
| OpID & Operator Name            | 7063 Harbor Pipeline Co                               |
| Unit # & Unit Name              | 20001 Harbor System - NJ                              |
| SMART Activity #                | 135547  |
| Milepost / Location             | MP 1661 + 20 / Latitude: 40.0893, Longitude: -74.7366 |
| Type of Failure                 | Fire – Incorrect Operation                            |
| Fatalities                      | 0   |
| Injuries                        | 0   |
| Description of area<br>impacted | HCA area  |
| Property Damage                 | 0   |

## **Executive Summary**

On October 11, 2010, Sunoco Pipeline reported a fire in a section of pipe that had been severed from an active pipeline as part of a relocation project. The 16 inch line was part of the Harbor Pipeline Co system in Mansfield Township, NJ. Sunoco Pipeline is part owner and operates the Harbor Pipeline Co jurisdictional assets. The fire occurred in a right-of-way along the New Jersey Turnpike near Mill Lane. The fire started when contractor personnel on the "NJ Turnpike Relocation Project" were using a torch to cut a 50 feet length of out-of-service pipe in the ditch approximately 300 feet away from newly installed in-service relocated pipe and approximately 130 feet from the NJ Turnpike edge of pavement. Residual product in the out of service pipe ignited inside the pipe. A small amount of product dripped out of the pipe and burned in the trench. The fire was extinguished and contaminated soil was removed.

## **System Details**

The 80 mile pipeline transports liquid petroleum products from Woodbury, NJ to Linden, NJ. The Pipe is a 16 inch diameter pre-1970 ERW pipe. The fire occurred on a portion of the pipeline running along the New Jersey Turnpike in Burlington County that was in the process of being relocated to accommodate the widening of the turnpike lanes. There was no supply impact since the piping had been severed from the active line in preparation for removal.

## **Events Leading up to the Failure**

The piping where the fire occurred had been severed from the active line and removed from service in September 2010. This segment was being cut into sections for transport to a recycler.

- 1. On Saturday, October 9, 2010, the contractor removed a mainline valve adjacent to Mill Lane.
- 2. The project inspector performed gas testing and determined that it was safe to proceed with hot work. The pipe flanges were then removed by cutting with an oxy-acetylene torch.
- 3. On Monday, October 11, 2010 the welder then made an initial cut on pipe to be removed.
- 4. Liquid came out and the welder thought it was water.
- 5. The welder continued to cut the pipe.
- 6. The fire watch noticed smoke coming from the cut.
- 7. The plastic cap at the end of the pipe blew off.
- 8. The liquid that dripped from the pipe formed a puddle that burned in the bottom of the trench with an 18" high flame.
- 9. The fire watch stopped the job
- 10. On October 11, 2010 at 19:35, the incident was reported to the NRC by Sunoco

## Emergency Response

The welder and fire watch attempted unsuccessfully to extinguish the fire with two dry powder fire extinguishers. An inspector working for the construction management contractor supervising the construction contractor instructed an equipment operator to cover the burning pipe with soil which

extinguished the fire. The soil that was contaminated by the small amount of product that had leaked from the pipeline was removed.

The NJ Turnpike Authority was notified. There was no impact on the public.

## Summary of Return to Service

The pipeline was being permanently removed. No return to service plan was warranted.

## **Investigation Details**

The operator was contacted by PHMSA to follow up on the NRC. Based on the initial information received, PHMSA did not visit the accident location. Additional information was requested and received from the operator. Based on an analysis of this information, it was determined that the failure occurred in a wooded area adjacent to the NJ Turnpike in Burlington County, NJ. There was no HCA impact. The firefighting equipment on site was inadequate to extinguish the fire.

## Findings & Contributing Factors

The fire was caused because there was product present in the pipe where hot work was being performed. Based on work at other locations on the pipeline, the operator did not anticipate product. The procedures called for mechanical cutting of the pipe. The pipe was being cut out with an oxy-acetylene torch. The personnel performing the work did not follow the hazard assessment or work permit process. There was no work permit issued for the pipe cutting and removal. The work permit referenced was written for a different job site with different tasks. No gas testing was performed prior to performing the hot work. Sunoco concluded that an immediate cause of the incident was less than adequate supervisory oversight regarding hazard assessment, work permit, excavation, hot work and gas monitoring practice and equipment availability. Personnel knew, but didn't follow details of safety procedures or OQ procedures that require hazard assessment, work permit and gas monitoring.

## **Appendices**

| Appendix | Description   |
|----------|---|
| А        | 135547 Appendix A Map   |
| В        | 135547 Appendix B - Photographs   |
| С        | 135547 Appendix C NRC Report 956654   |
| D        | 135547 Appendix D Operator Accident Report HL # 20100241 - 16556                  |
| E        | 135547 Appendix E INC Analysis Final Report 11OCt2010 Harbor Line Relocation Fire |

# 135547 Appendix A Map











#### 135547 Appendix C NRC Report 956654

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

Incident Report # 956654

#### INCIDENT DESCRIPTION

\*Report taken at 19:35 on 11-OCT-10 Incident Type: PIPELINE Incident Cause: OTHER Affected Area: The incident occurred on 11-OCT-10 at 16:10 local time. Affected Medium: OTHER GROUND/AIR

#### SUSPECTED RESPONSIBLE PARTY

Organization:

HARBOR PIPELINE HONEYBROOK, PA

Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION NEW JERSEY TURNPIKE & MILL LANE County: BURLINGTON City: MANSFIELD TOWNSHIP State: NJ

<u>RELEASED MATERIAL(S)</u> CHRIS Code: OTW Official Material Name: OIL, FUEL: NO. 2 Also Known As: Qty Released: 1 GALLON(S)

#### DESCRIPTION OF INCIDENT

CALLER IS REPORTING A PIPELINE WAS BEING DECOMMISSIONED WHEN RESIDUAL MATERIAL INSIDE THE PIPELINE CAUGHT FIRE. CALLER STATED THERE WAS A 1 GALLON DISCHARGE OF MATERIAL TO THE GROUND AND VAPORS THAT RELEASED FROM MATERIAL BURN-OFF.

#### INCIDENT DETAILS

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

|                              |                      | DAMAG                  | ES           |                               |
|------------------------------|----------------------|------------------------|--------------|-------------------------------|
| Fire Involve                 | ed: YES              | Fire Extinguished: YES | 3            |                               |
| INJURIES:                    | NO                   | Hospitalized:          | Empl/Crew:   | Passenger:                    |
| FATALITIES:                  | NO                   | Empl/Crew:             | Passenger:   | Occupant:                     |
| EVACUATIONS:                 | NO NO                | Who Evacuated:         | Radius/Area: |                               |
| Damages:                     | NO                   |                        |              |                               |
|                              |                      |                        | Length of    | Direction of                  |
| Closure Type                 | <u>Desc</u>          | ription of Closure     | Closure      | <u>Closure</u>                |
| Air:                         | N                    |                        |              |                               |
| Road:                        | N                    |                        |              | Major<br>Artery: <sup>N</sup> |
| Waterway:                    | N                    |                        |              |                               |
| Track:                       | N                    |                        |              |                               |
| Passengers T<br>Environmenta | ransferr<br>l Impact | ed: NO<br>: NO         |              |                               |
| Media Intere                 | st: NONE             | Community Impact due   | to Material: |                               |

#### 135547 Appendix C NRC Report 956654 REMEDIAL ACTIONS

CLEAN UP WILL BE CONDUCTED ON 120CT2010. Release Secured: YES Release Rate: Estimated Release Duration:

WEATHER

Weather: UNKNOWN, °F

ADDITIONAL AGENCIES NOTIFIED Federal: NONE NJ DEP State/Local: State/Local On Scene: NONE State Agency Number: NONE NOTIFICATIONS BY NRC ATLANTIC STRIKE TEAM (MAIN OFFICE) 11-OCT-10 19:42 USCG ICC (ICC ONI) 11-OCT-10 19:42 CT DEPT OF EMERGENCY MGMT (COMMISSIONER) 11-OCT-10 19:42 DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE) 11-OCT-10 19:42 U.S. EPA II (MAIN OFFICE) 11-OCT-10 19:47 FLD INTEL SUPPORT TEAM PHILADELPHIA (MAIN OFFICE) 11-OCT-10 19:42 USCG NATIONAL COMMAND CENTER (MAIN OFFICE) 11-OCT-10 19:44 NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE) 11-OCT-10 19:42 NJ DEPT OF HEALTH & SENIOR SVC (COMMAND CENTER) 11-OCT-10 19:42 NJ OFC HMLND SECURITY & PREPAREDNES (COMMAND CENTER) 11-OCT-10 19:42 NJ STATE POLICE (MARINE SERVICES BUREAU) 11-OCT-10 19:42 NOAA RPTS FOR NJ (MAIN OFFICE) 11-OCT-10 19:42 NATIONAL RESPONSE CENTER HQ (MAIN OFFICE) 11-OCT-10 19:44 PA STATE POLICE (BUREAU OF CRIMINAL INVESTIGATION) 11-OCT-10 19:42 PIPELINE & HAZMAT SAFETY ADMIN (OFFICE OF PIPELINE SAFETY (AUTO)) 11-OCT-10 19:42 NJ DEP POC: DUTY OFFICER (MAIN OFFICE) 11-OCT-10 19:42 PA EMERG MGMT AGCY (MAIN OFFICE) 11-OCT-10 19:42 USCG DISTRICT 1 (COMMAND CENTER) 11-OCT-10 19:42

#### ADDITIONAL INFORMATION

CALLER HAD NO ADDITIONAL INFORMATION.

\*\*\* END INCIDENT REPORT # 956654 \*\*\*

The National Response Center is strictly an initial report taking agency and does not participate in the investigation or incident response. The NRC receives initial reporting information only and notifies Federal and State On-Scene Coordinators for response. The NRC does not verify nor does it take follow-on incident information. Verification of data and incident response is the sole responsibility of Federal/State On-Scene Coordinators. Data contained within the FOIA Web Database is initial information only. All reports provided via this server are for informational purposes only. Data to be used in legal proceedings must be obtained via written correspondence from the NRC.

# Appendix D

# Incident Analysis for NJ Turnpike Fire in Pipe

This document is on file at PHMSA

NOTICE: This report is required by 49 CFR Part 195. Failure to report can result in a civil penalty not to OMB NO: 2137-0047 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. EXPIRATION DATE: 01/31/2013 **Report Date:** 11/11/2010 No. 20100241 - 16556 U.S Department of Transportation Pipeline and Hazardous Materials Safety Administration (DOT Use 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. Public reporting for this collection of information is estimated to be approximately 10 hours per response (5 hours for a small release), including the time for reviewing instructions, gathering the data needed, and completing and reviewing the collection of information. All responses to this collection of information are mandatory. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this 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 **PART A - KEY REPORT INFORMATION** Supplemental: Original: Final: Report Type: (select all that apply) Yes Yes Last Revision Date: 04/18/2012 1. Operator's OPS-issued Operator Identification Number (OPID): 7063 HARBOR PIPELINE CO 2. Name of Operator 3. Address of Operator: 525 FRITZTOWN ROAD 3a. Street Address 3b. City SINKING SPRING 3c. State Pennsylvania 3d. Zip Code 19608 4. Local time (24-hr clock) and date of the Accident: 10/11/2010 16:10 Location of Accident Latitude: 40.091758 -74.738542 Longitude: 6. National Response Center Report Number (if applicable): 956654 7. Local time (24-hr clock) and date of initial telephonic report to the 10/11/2010 19:35 National Response Center (if applicable): Refined and/or Petroleum Product (non-HVL) which is a 8. Commodity released: (select only one, based on predominant Liquid at Ambient Conditions volume released) - Specify Commodity Subtype: Diesel, Fuel Oil, Kerosene, Jet Fuel - If "Other" Subtype, Describe: - 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): В 9. Estimated volume of commodity released unintentionally (Barrels): 10. Estimated volume of intentional and/or controlled release/blowdown (Barrels): 11. Estimated volume of commodity recovered (Barrels): 12. Were there fatalities? No - If Yes, specify the number 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 12f. Total fatalities (sum of above) 13. Were there injuries requiring inpatient hospitalization? No - If Yes, specify the number in each category: 13a. Operator employees 13b. Contractor employees working for the Operator 13c. Non-Operator emergency responders 13d. Workers working on the right-of-way, but NOT

Page 1 of 14

| associated with this Operator  |  |
|--|--|
| 13e General public   |  |
| 13f Total injuries (sum of above)  |  |
| 14 Was the nineline/facility shut down due to the Accident?  | No   |
|  | This nineline had been disconnected from both ends from          |
| - If No, Explain:  | the main line on 9/21/10   |
| If Ves. complete Questions 1/2 and 1/h: (use local time 2/1-hr clock)  |  |
| 14a Local time and date of shutdown:   |  |
| 14b. Local time binding/facility restarted:  |  |
| 14b. Local time pipeline/lacinty restance.   |  |
| - Still shut down? (* Supplemental Report Required)  | N  |
| 15. Did the commodity ignite?  | Yes  |
| 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:  | 10/11/2010 16:10   |
| 18b. Local time Operator resources arrived on site:  | 10/11/2010 16:10   |
| PART B - ADDITIONAL LOCATION INFORMATION   |  |
| 1. Was the origin of Accident onshore?   | Yes  |
| If Yes. Complete Ques  | tions (2-12)   |
| If No. Complete Questi   | ons (13-15)  |
| - If Onshore:  |  |
| 2 State  | New Jersey   |
| 2. Julie.  | 08022  |
|  |  |
| 4. Ully  |  |
| 5. County of Parish  | BURLINGTUN   |
| o. Operator-designated location:   |  |
| Specify:   |  |
| 7. Pipeline/Facility name:   | Harbor Pipeline  |
| 8. Segment name/ID:  |  |
| 9. Was Accident on Federal land, other than the Outer Continental Shelf (OCS)?   | No   |
| 10. Location of Accident:  | Pipeline Right-of-way  |
| 11. Area of Accident (as found):   | Underground  |
| Specify:   | Other  |
|  |  |
| - If Other, Describe:  | Inactive ROW: exposed for decommission                           |
| - If Other, Describe:<br>Depth-of-Cover (in):  | Inactive ROW: exposed for decommission 48                        |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?   | Inactive ROW: exposed for decommission<br>48                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:   | Inactive ROW: exposed for decommission<br>48<br>No               |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:   | Inactive ROW: exposed for decommission<br>48<br>No               |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –   | Inactive ROW: exposed for decommission<br>48<br>No               |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:  | Inactive ROW: exposed for decommission<br>48<br>No               |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –  | Inactive ROW: exposed for decommission<br>48<br>No               |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled   | Inactive ROW: exposed for decommission<br>48<br>No               |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –   | Inactive ROW: exposed for decommission<br>48<br>No               |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –   | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased   | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:  | Inactive ROW: exposed for decommission 48 No                     |
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| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- If Offshore:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>- In State waters - Specify:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>14. Origin of Accident:<br>- In State waters - Specify:<br>- State:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>14. Origin of Accident:<br>- In State waters - Specify:<br>- State:<br>- Area:<br>- Block/Tract #:   | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>14. Origin of Accident:<br>- In State waters - Specify:<br>- State:<br>- Area:<br>- Block/Tract #:<br>- Nearest County/Parish:<br>- Nearest County/Parish:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>14. Origin of Accident:<br>- In State waters - Specify:<br>- State:<br>- Area:<br>- Block/Tract #:<br>- On the Outer Continental Shelf (OCS) - Specify:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>14. Origin of Accident:<br>- In State waters - Specify:<br>- State:<br>- Area:<br>- Nearest County/Parish:<br>- On the Outer Continental Shelf (OCS) - Specify:<br>- Area:  | Inactive ROW: exposed for decommission 48 No                     |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>14. Origin of Accident:<br>- In State waters - Specify:<br>- State:<br>- Area:<br>- Block/Tract #:<br>- On the Outer Continental Shelf (OCS) - Specify:<br>- Area:<br>- Block #:  | Inactive ROW: exposed for decommission           48           No |
| - If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>14. Origin of Accident:<br>- In State waters - Specify:<br>- State:<br>- Area:<br>- Block/Tract #:<br>- On the Outer Continental Shelf (OCS) - Specify:<br>- Area:<br>- Block #:<br>15. Area of Accident:  | Inactive ROW: exposed for decommission 48 No                     |
| If Other, Describe:     Depth-of-Cover (in):     12. Did Accident occur in a crossing?     If Yes, specify 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/ Bored/drilled         If Water crossing –         Cased/ Uncased         If State water cossing –         Select:         If Offshore:         Isock/Tract #:             - In State waters - Specify:             - State:             - Area:             - Block/Tract #:             - On the Outer Continental Shelf (OCS) - Specify:             - Area:             - Block #:         I5. Area of Accident:         PART C - ADDITIONAL FACILITY INFORMATION   | Inactive ROW: exposed for decommission           48           No |
| If Other, Describe:         Depth-of-Cover (in):     12. Did Accident occur in a crossing?     If Yes, specify below:         If Bridge crossing –         Cased/ Uncased:         If Railroad crossing –         Cased/ Uncased/ Bored/drilled         If Road crossing –         Cased/ Uncased/ Bored/drilled         If Road crossing –         Cased/ Uncased/ Bored/drilled         If Water crossing –         Cased/ Uncased/ Bored/drilled         If Water crossing –         Cased/ Uncased         If State water cossing –         Cased/ Uncased         Is the point of the Accident:         If Offshore:         Is State:         State:         - In State waters - Specify:         - State:         State:         - Nearest County/Parish:         - On the Outer Continental Shelf (OCS) - Specify:         - Area:         Block/Tract #:         - Block #:         Is Area of Accident:         PART C - ADDITIONAL FACILITY INFORMATION         I. Is the pipeline or facility:  | Inactive ROW: exposed for decommission 48 No                     |
| <ul> <li>If Other, Describe:</li> <li>Depth-of-Cover (in):</li> <li>12. Did Accident occur in a crossing?</li> <li>If Yes, specify below: <ul> <li>If Bridge crossing –</li> <li>Cased/ Uncased:</li> <li>If Railroad crossing –</li> <li>Cased/ Uncased/ Bored/drilled</li> <li>If Road crossing –</li> <li>Cased/ Uncased/ Bored/drilled</li> <li>If Water crossing –</li> <li>Cased/ Uncased</li> </ul> </li> <li>If Water crossing –</li> <li>Cased/ Uncased</li> <li>If Water crossing –</li> <li>Cased/ Uncased</li> <li>Select: <ul> <li>Approx. water depth (ft) at the point of the Accident:</li> <li>Select:</li> </ul> </li> <li>If Offshore: <ul> <li>Approximate water depth (ft) at the point of the Accident:</li> <li>Select:</li> <li>In State waters - Specify: <ul> <li>State:</li> <li>Area:</li> <li>Block/Tract #:</li> <li>Nearest County/Parish:</li> <li>On the Outer Continental Shelf (OCS) - Specify:</li> <li>Area:</li> <li>Block #:</li> </ul> </li> <li>15. Area of Accident: <ul> <li>Approximate or facility:</li> </ul> </li> <li>2 Part of system involved in Accident:</li> </ul></li></ul>  | Inactive ROW: exposed for decommission 48 No                     |
| If Other, Describe:     Depth-of-Cover (in):     12. Did Accident occur in a crossing?     If Yes, specify below:         If Bridge crossing –         Cased/ Uncased:         If Railroad crossing –         Cased/ Uncased/ Bored/drilled         If Road crossing –         Cased/ Uncased/ Bored/drilled         If Road crossing –         Cased/ Uncased/ Bored/drilled         If Water crossing –         Cased/ Uncased/ Bored/drilled         If Water crossing –         Cased/ Uncased         If Water crossing –         Cased/ Uncased/ Bored/drilled         If Water crossing –         Cased/ Uncased         If State crossing –         Cased/ Uncased         If Offshore:         I3. Approximate water depth (ft) at the point of the Accident:         I. In State waters - Specify:             - State:             - Area:             - Block/Tract #:             - Nearest County/Parish:         - On the Outer Continental Shelf (OCS) - Specify:             - Area:             - Block #:         15. Area of Accident:         PART C - ADDITIONAL FACILITY INFORMATION         1. Is the pipeline or facility:         2. Part of system involved in Accident:  | Inactive ROW: exposed for decommission 48 No                     |
| If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>- Select:<br>- In State waters - Specify:<br>- State:<br>- Area:<br>- Block/Tract #:<br>- On the Outer Continental Shelf (OCS) - Specify:<br>- Area:<br>- Block #:<br>15. Area of Accident:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Apoutenances specify:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Apoutenances specify:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Apoutenances specify:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Apoutenances specify:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Apoutenances specify:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Apoutenances specify:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>- Apoutenances specify:<br>- Cased - Cas                           | Inactive ROW: exposed for decommission 48 No                     |
| If Other, Describe:<br>Depth-of-Cover (in):<br>12. Did Accident occur in a crossing?<br>- If Yes, specify below:<br>- If Bridge crossing –<br>Cased/ Uncased:<br>- If Railroad crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Road crossing –<br>Cased/ Uncased/ Bored/drilled<br>- If Water crossing –<br>Cased/ Uncased<br>- Name of body of water, if commonly known:<br>- Approx. water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>- Select:<br>- If Offshore:<br>13. Approximate water depth (ft) at the point of the Accident:<br>- In State waters - Specify:<br>- State:<br>- Area:<br>- Block/Tract #:<br>- Nearest County/Parish:<br>- On the Outer Continental Shelf (OCS) - Specify:<br>- Area:<br>- Block #:<br>15. Area of Accident:<br>PART C - ADDITIONAL FACILITY INFORMATION<br>1. Is the pipeline or facility:<br>2. Part of system involved in Accident:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Appurtenances, specify:<br>- It on proving the Accident:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Appurtenances, specify:<br>- It on proving the Accident:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Appurtenances, specify:<br>- It on proving the Accident:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>Appurtenances, specify:<br>- It on proving the Accident:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>- Appurtenances, specify:<br>- It on proving the Accident:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>- Appurtenances, specify:<br>- It on proving the Accident:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>- Appurtenances, specify:<br>- It on proving the Accident:<br>- If Onshore Breakout Tank or Storage Vessel, Including Attached<br>- Appurtenances, specify:<br>- It on proving the provin | Inactive ROW: exposed for decommission 48 No                     |

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| - If Pipe, specify:  | Pipe Body   |
|--|---|
| 3a. Nominal diameter of pipe (in):   | 16  |
| 3b. Wall thickness (in):   | .281  |
| 3c. SMYS (Specified Minimum Yield Strength) of pipe (psi):   | 52,000  |
| 3d. Pipe specification:  | X-52  |
| 3e. Pipe Seam , specify:   | Longitudinal ERW - Unknown Frequency  |
| - If Other, Describe:  |   |
| 3f. Pipe manufacturer:   | Youngstown Sheet and Tube Company   |
| 3g. Year of manufacture:   | 1955  |
| 3h. Pipeline coating type at point of Accident, specify:   | Fusion Bonded Epoxy   |
| - If Other, Describe:  |   |
| <ul> <li>If Weld, including heat-affected zone, specify:</li> </ul>  |   |
| - If Other, Describe:  |   |
| - If Valve, specify:   |   |
| - If Mainline, specify:  |   |
| - If Other, Describe:  |   |
| 3i. Manufactured by:   |   |
| 3j. Year of manufacture:   |   |
| - If Tank/Vessel, specify:   |   |
| - If Other - Describe:   |   |
| - If Other, describe:  | 4055  |
| 4. Year item involved in Accident was installed:   | 1955<br>Oorthold Older  |
| 5. Material Involved in Accident:  | Carbon Steel  |
| - If Material other than Carbon Steel, specify:  | Other   |
| 6. Type of Accident Involved:  | Other   |
| - If Mechanical Puncture – Specify Approx. size:   |   |
| in. (axial) by   |   |
| In. (circumferential)  |   |
| - If Leak - Select Type:   |   |
| - IT Other, Describe:  |   |
| - Il Ruplure - Select Orientation.   |   |
| - II Other, Describe.  |   |
| in (length circumforantially or axially)   |   |
|  | Segment had been disconnected at both ands and purged   |
|  | Segment had been disconnected at both ends and purged   |
| - If Other – Describe:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.  |
| PART D - ADDITIONAL CONSEQUENCE INFORMATION  | as scrap metal.   |
| - If Other – Describe:<br>PART D - ADDITIONAL CONSEQUENCE INFORMATION  | weeks prior to this fire. Segment was being cut to be sold<br>as scrap metal.   |
| - If Other – Describe:  PART D - ADDITIONAL CONSEQUENCE INFORMATION  1. Wildlife impact:  1a. If Yes, specify all that apply:  | weeks prior to this fire. Segment was being cut to be sold<br>as scrap metal.   |
| If Other – Describe:  PART D - ADDITIONAL CONSEQUENCE INFORMATION  1. Wildlife impact:     1a. If Yes, specify all that apply:     Eich/aquatic  | weeks prior to this fire. Segment was being cut to be sold<br>as scrap metal.   |
| If Other – Describe:  PART D - ADDITIONAL CONSEQUENCE INFORMATION  1. Wildlife impact:     1a. If Yes, specify all that apply:     - Fish/aquatic  Pirdo   | No  |
| If Other – Describe:  PART D - ADDITIONAL CONSEQUENCE INFORMATION  1. Wildlife impact:     1a. If Yes, specify all that apply:         - Fish/aquatic         - Birds  Transiticl  | No  |
| If Other – Describe:  PART D - ADDITIONAL CONSEQUENCE INFORMATION  1. Wildlife impact:     1a. If Yes, specify all that apply:         - Fish/aquatic         - Birds         - Terrestrial  | No  |
| If Other – Describe:  PART D - ADDITIONAL CONSEQUENCE INFORMATION  1. Wildlife impact:     1a. If Yes, specify all that apply:         - Fish/aquatic         - Birds         - Terrestrial 2. Soil contamination:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes   |
| If Other – Describe:  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:  | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No  |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No         No         No         No   |
| If Other – Describe:  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:     Output of the provide method.   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No         No         No  |
| If Other – Describe:  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   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No         No         No         No         No  |
| If Other – Describe:  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          Call  | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No         No         No  |
| If Other – Describe:  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          Vigneticipe  | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No         No         No  |
| If Other – Describe:  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  | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No         No         No  |
| If Other – Describe:  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:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No  |
| If Other – Describe:  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:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No  |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No  |
| If Other – Describe:  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:         Sa. If Yes, specify all that apply:         - Ocean/Seawater         - Surface | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      I. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No         No |
| If Other – Describe:      PART D - ADDITIONAL CONSEQUENCE INFORMATION      1. Wildlife impact:         1a. If Yes, specify all that apply:   | weeks prior to this fire. Segment was being cut to be sold as scrap metal.         No         Yes         No   |

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| - Commercially Navigable Waterway:   |  |
|--|--|
| Was this HCA identified in the "could affect"  |  |
| determination for this Accident site in the Operator's   |  |
| Integrity Management Program?  |  |
| - High Population Area:  |  |
| Was this HCA identified in the "could affect"  |  |
| determination for this Accident site in the Operator's   |  |
| 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?  |  |
| <ul> <li>Unusually Sensitive Area (USA) - Drinking Water</li> </ul>  |  |
| Was this HCA identified in the "could affect" determination  |  |
| for this Accident site in the Operator's Integrity   |  |
| Management Program?  |  |
| <ul> <li>Unusually Sensitive Area (USA) - Ecological</li> </ul>  |  |
| Was this HCA identified in the "could affect" determination  |  |
| for this Accident site in the Operator's Integrity   |  |
| Management Program?  |  |
| 8. Estimated Property Damage:  |  |
| 8a. Estimated cost of public and non-Operator private property   | <b>*</b> •   |
| damage   | φ U  |
| 8b. Estimated cost of commodity lost   | \$ 0   |
| 8c. Estimated cost of Operator's property damage & repairs   | \$ 0   |
| 8d. Estimated cost of Operator's emergency response  | \$ 0   |
| 8e. Estimated cost of Operator's environmental remediation   | \$ 0   |
| 8f Estimated other costs   | \$ 0   |
| Describe:  | Ψ Ū  |
| 8a Total estimated property damage (sum of above)  | \$   |
| bg. Total estimated property damage (sum of above)   | Ψ  |
| PART E - ADDITIONAL OPERATING INFORMATION  |  |
|  |  |
| 1 Estimated pressure at the point and time of the Accident (psig):   | 00   |
| 2 Maximum Operating Pressure (MOP) at the point and time of the  | .00  |
| Accident (nsig).   | .00  |
|  |  |
| 3. Describe the pressure on the system or facility relating to the   |  |
| 3. Describe the pressure on the system or facility relating to the Accident (psin):  | Pressure did not exceed MOP                                    |
| 3. Describe the pressure on the system or facility relating to the<br>Accident (psig):     4. Not including pressure reductions required by PHMSA regulations  | Pressure did not exceed MOP                                    |
| <ol> <li>Describe the pressure on the system or facility relating to the<br/>Accident (psig):</li> <li>Not including pressure reductions required by PHMSA regulations<br/>(such as for repairs and pipe movement) was the system or facility</li> </ol>   | Pressure did not exceed MOP                                    |
| <ol> <li>Describe the pressure on the system or facility relating to the<br/>Accident (psig):</li> <li>Not including pressure reductions required by PHMSA regulations<br/>(such as for repairs and pipe movement), was the system or facility<br/>relating to the Accident operating under an established pressure</li> </ol>   | Pressure did not exceed MOP                                    |
| <ol> <li>Describe the pressure on the system or facility relating to the<br/>Accident (psig):</li> <li>Not including pressure reductions required by PHMSA regulations<br/>(such as for repairs and pipe movement), was the system or facility<br/>relating to the Accident operating under an established pressure<br/>restriction with pressure limits below those normally allowed by the</li> </ol>  | Pressure did not exceed MOP<br>No                              |
| <ol> <li>Describe the pressure on the system or facility relating to the<br/>Accident (psig):</li> <li>Not including pressure reductions required by PHMSA regulations<br/>(such as for repairs and pipe movement), was the system or facility<br/>relating to the Accident operating under an established pressure<br/>restriction with pressure limits below those normally allowed by the<br/>MOP?</li> </ol>   | Pressure did not exceed MOP<br>No                              |
| <ul> <li>3. Describe the pressure on the system or facility relating to the Accident (psig):</li> <li>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 restriction with pressure limits below those normally allowed by the MOP?</li> <li>If Yes, Complete 4 a and 4 b below:</li> </ul>  | Pressure did not exceed MOP<br>No                              |
| <ul> <li>3. Describe the pressure on the system or facility relating to the Accident (psig):</li> <li>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 restriction with pressure limits below those normally allowed by the MOP?</li> <li>If Yes, Complete 4.a and 4.b below:</li> <li>4a. Did the pressure exceed this established pressure</li> </ul>   | Pressure did not exceed MOP<br>No                              |
| <ul> <li>3. Describe the pressure on the system or facility relating to the Accident (psig):</li> <li>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 restriction with pressure limits below those normally allowed by the MOP? <ul> <li>If Yes, Complete 4.a and 4.b below:</li> <li>4a. Did the pressure exceed this established pressure restriction?</li> </ul> </li> </ul>  | Pressure did not exceed MOP<br>No                              |
| <ul> <li>3. Describe the pressure on the system or facility relating to the Accident (psig):</li> <li>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 restriction with pressure limits below those normally allowed by the MOP? <ul> <li>If Yes, Complete 4.a and 4.b below:</li> <li>4a. Did the pressure exceed this established pressure restriction?</li> <li>4b. Was this pressure restriction mandated by PHMSA or the</li> </ul> </li> </ul>  | Pressure did not exceed MOP No                                 |
| <ul> <li>3. Describe the pressure on the system or facility relating to the Accident (psig):</li> <li>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 restriction with pressure limits below those normally allowed by the MOP? <ul> <li>If Yes, Complete 4.a and 4.b below:</li> <li>4a. Did the pressure exceed this established pressure restriction?</li> <li>4b. Was this pressure restriction mandated by PHMSA or the State?</li> </ul> </li> </ul>   | Pressure did not exceed MOP No                                 |
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| - If Yes, Which operational factors complicate execution? (select all that apply) |  |  |
|---|--|--|
| <ul> <li>Excessive debris or scale, wax, or other wall buildup</li> </ul>         |  |  |
| <ul> <li>Low operating pressure(s)</li> </ul>                                     |  |  |
| <ul> <li>Low flow or absence of flow</li> </ul>                                   |  |  |
| <ul> <li>Incompatible commodity</li> </ul>  |  |  |
| - Other -   |  |  |
| - If Other, Describe:   |  |  |
| 5f. Function of pipeline system:  | > 20% SMYS Regulated Trunkline/Transmission                  |  |
| 6. Was a Supervisory Control and Data Acquisition (SCADA)-based                   |  |  |
| system in place on the pipeline or facility involved in the Accident?             | NO   |  |
| If Yes -  |  |  |
| 6a. Was it operating at the time of the Accident?                                 |  |  |
| 6b. Was it fully functional at the time of the Accident?                          |  |  |
| 6c. Did SCADA-based information (such as alarm(s),                                |  |  |
| alert(s), event(s), and/or volume calculations) assist with                       |  |  |
| the detection of the Accident?  |  |  |
| 6d. Did SCADA-based information (such as alarm(s),                                |  |  |
| alert(s), event(s), and/or volume calculations) assist with                       |  |  |
| the confirmation of the Accident?   |  |  |
| 7. Was a CPM leak detection system in place on the pipeline or facility           | No   |  |
| involved in the Accident?   |  |  |
| - If Yes:   |  |  |
| 7a. Was it operating at the time of the Accident?                                 |  |  |
| 7b. Was it fully functional at the time of the Accident?                          |  |  |
| 7c. Did CPM leak detection system information (such as                            |  |  |
| 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:  |  |  |
| <ol><li>8a. If "Controller", "Local Operating Personnel", including</li></ol>     |  |  |
| contractors", "Air Patrol", or "Guard Patrol by Operator or its                   | Contractor working for the Operator                          |  |
| contractor" is selected in Question 8, specify the following:                     |  |  |
| 9 Was an investigation initiated into whether or not the controller(s) or         | No, the Operator did not find that an investigation of the   |  |
| 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                   |  |  |
| controller(s) actions or control room issues was necessary due to:                | Segment had been disconnected from active pipeline.          |  |
| (provide an explanation for why the operator did not investigate)                 |  |  |
| - If Yes, specify investigation result(s): (select all that apply)                |  |  |
| <ul> <li>Investigation reviewed work schedule rotations,</li> </ul>               |  |  |
| continuous hours of service (while working for the                                |  |  |
| Operator), and other factors associated with fatigue                              |  |  |
| - Investigation did NOT review work schedule rotations,                           |  |  |
| continuous nours 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                         |  |  |
|   |  |  |
| - investigation identified that fatigue may have affected the                     |  |  |
| controller(s) involved or impacted the involved controller(s)                     |  |  |
| Investigation identified incorrect acceptures                                     |  |  |
| - Investigation identified incorrect procedures                                   |  |  |
| - investigation identified incorrect control room equipment                       |  |  |
| Uptialiuii  |  |  |
| - investigation identified maintenance activities that affected                   |  |  |
|   |  |  |
| - Investigation identified areas other than those above:                          |  |  |
| Describe:   |  |  |
|   |  |  |
| PART F - DRUG & ALCOHOL TESTING INFORMATION                                       |  |  |

| 1. As a result of this Accident, were any Operator employees tested<br>under the post-accident drug and alcohol testing requirements of DOT's<br>Drug & Alcohol Testing regulations?   | No  |
|--|---|
| - If Yes:  |   |
| 1a. Specify how many were tested:  |   |
| 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 DOT's Drug & Alcohol Testing regulations?  | Yes   |
| - If Yes:  |   |
| 2a. Specify how many were tested:  | 1   |
| 2b. Specify how many failed:   | 0   |
| PART G – APPARENT CAUSE  |   |
| Select only one box from PART G in shaded column on left represent the questions on the right. Describe secondary, contributing or root  | ting the APPARENT Cause of the Accident, and answer causes of the Accident in the narrative (PART H). |
| Apparent Cause:  | G7 - Incorrect Operation  |
| G1 - Corrosion Failure - only one sub-cause can be picked from share   | ded left-hand column  |
| External Corrosion:  |   |
| Internal Corrosion:  |   |
| - If External Corrosion:   |   |
| 1. Results of visual examination:  |   |
| - If Other, Describe:  |   |
| 2. Type of corrosion: (select all that apply)  |   |
| - Galvanic   |   |
| - Atmospheric  |   |
| - Silay Current  |   |
| - Selective Seam   |   |
| - Other:   |   |
| - If Other. Describe:  |   |
| 3. The type(s) of corrosion selected in Question 2 is based on the followir  | ng: (select all that apply)   |
| - Field examination  |   |
| <ul> <li>Determined by metallurgical analysis</li> </ul>   |   |
| - Other:   |   |
| - If Other, Describe:  |   |
| 4. Was the failed item buried under the ground?  |   |
| - If Yes :   |   |
| □4a. Was failed item considered to be under cathodic<br>protection at the time of the Accident?  |   |
| 4b Was shielding tenting or disbonding of coating evident at   |   |
| the point of the Accident?   |   |
| 4c. Has one or more Cathodic Protection Survey been  |   |
| conducted at the point of the Accident?  |   |
| If "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. vvas there observable damage to the coating or paint in the vicinity of   |   |
| In the control of the |   |
| 6. Results of visual examination:  |   |
| - Other:   |   |
| 7. Type of corrosion (select all that apply): -  | 1   |
| - Corrosive Commodity  |   |
| - Water drop-out/Acid  |   |
| - Microbiological  |   |
| - Erosion  |   |
| - Other:   |   |
| - If Other, Describe:  |   |
| 8. The cause(s) of corrosion selected in Question 7 is based on the follow   | ving (select all that apply): -   |
| - Field examination  |   |

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| , , ,   |  |
|---|--|
| - Other:  |  |
| - If Other, Describe:   |  |
| 9. Location of corrosion (select all that apply): -   |  |
| - Low point in pipe   |  |
| - Elbow   |  |
| - Other:  |  |
| - If Other, Describe:   |  |
| 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?   |  |
| 13 Were corrosion coupons routinely utilized?   |  |
| Complete the following if any Comparing Follows sub-source is calested AND  | the liter invelved in Accidenti (from DADT C       |
| Complete the following it any Corrosion Failure sub-cause is selected AND   | the "Item involved in Accident" (from PART C,      |
| Question 3) is Tank/vessel.   |  |
| 14. List the year of the most recent inspections:   | Ι  |
| 14a. API Std 653 Out-of-Service Inspection  |  |
| <ul> <li>No Out-of-Service Inspection completed</li> </ul>  |  |
| 14b. API Std 653 In-Service Inspection  |  |
| <ul> <li>No In-Service Inspection completed</li> </ul>  |  |
| Complete the following if any Corrosion Failure sub-cause is selected AND Question 3) is Pipe or Weld.  | the "Item Involved in Accident" (from PART C,      |
| 15. Has one or more internal inspection tool collected data at the point of the   |  |
| Accident?   |  |
| 15a. If Yes, for each tool used, select type of internal inspection tool and  | indicate most recent year run: -                   |
| - Magnetic Flux Leakage Tool  |  |
| Most recent year  |  |
| - Ultrasonic  |  |
| Moet recent year:   |  |
| Coometry  |  |
| - Geometry  |  |
| Most recent year:   |  |
| - Caliper   |  |
| Most recent year:   |  |
| - Crack   |  |
| Most recent year:   |  |
| - Hard Spot   |  |
| Most recent year:   |  |
| - Combination Tool  |  |
| Most recent year:   |  |
| - Transverse Field/Triaxial   |  |
| Most recent year:   |  |
| - Other   |  |
| Most recent year:   |  |
| Doscribo:   |  |
| Describe.   |  |
| 16. Has one or more hydrotest or other pressure test been conducted since   |  |
| ariginal construction at the point of the Assident?   |  |
| original construction at the point of the Accident?   |  |
| original construction at the point of the Accident?   |  |
| original construction at the point of the Accident? If Yes - Most recent year tested:   |  |
| original construction at the point of the Accident? If Yes - Most recent year tested: Test pressure:  |  |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?  |  |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::   |  |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:  |  |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:   |  |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:  |  |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the   |  |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?   |  |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002.   | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination was conducted:   | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography   | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:  | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Waye Ultrasonic  | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Wave Ultrasonic  | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Wave Ultrasonic<br>Most recent year conducted:   | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Wave Ultrasonic<br>Most recent year conducted:<br>- Handheld Ultrasonic Tool   | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Wave Ultrasonic<br>Most recent year conducted:<br>- Handheld Ultrasonic Tool<br>Most recent year conducted:  | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Wave Ultrasonic<br>Most recent year conducted:<br>- Handheld Ultrasonic Tool<br>Most recent year conducted:<br>- Wet Magnetic Particle Test  | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Wave Ultrasonic<br>Most recent year conducted:<br>- Handheld Ultrasonic Tool<br>Most recent year conducted:<br>- Wet Magnetic Particle Test<br>Most recent year conducted:   | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Wave Ultrasonic<br>Most recent year conducted:<br>- Handheld Ultrasonic Tool<br>Most recent year conducted:<br>- Wet Magnetic Particle Test<br>Most recent year conducted:<br>- Dry Magnetic Particle Test   | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Wave Ultrasonic<br>Most recent year conducted:<br>- Handheld Ultrasonic Tool<br>Most recent year conducted:<br>- Wet Magnetic Particle Test<br>Most recent year conducted:<br>- Dry Magnetic Particle Test<br>Most recent year conducted:            | e of non-destructive examination and indicate most |
| original construction at the point of the Accident?<br>If Yes -<br>Most recent year tested:<br>Test pressure:<br>17. Has one or more Direct Assessment been conducted on this segment?<br>- If Yes, and an investigative dig was conducted at the point of the Accident::<br>Most recent year conducted:<br>- If Yes, but the point of the Accident was not identified as a dig site:<br>Most recent year conducted:<br>18. Has one or more non-destructive examination been conducted at the<br>point of the Accident since January 1, 2002?<br>18a. If Yes, for each examination conducted since January 1, 2002, select typ<br>recent year the examination was conducted:<br>- Radiography<br>Most recent year conducted:<br>- Guided Wave Ultrasonic<br>Most recent year conducted:<br>- Handheld Ultrasonic Tool<br>Most recent year conducted:<br>- Wet Magnetic Particle Test<br>Most recent year conducted:<br>- Dry Magnetic Particle Test<br>Most recent year conducted:<br>- Other | e of non-destructive examination and indicate most |

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| Describe:   |   |  |
|---|---|--|
| G2 - Natural Force Damage - only one sub-cause can be picked from   | n shaded left-handed column   |  |
| Natural Force Damage – Sub-Cause:   |   |  |
| - 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:   |   |  |
| - If Other, Describe:   |   |  |
| - IT High Winds:  |   |  |
| - If Other Natural Force Damage   |   |  |
| 5. Describe:  |   |  |
| Complete the following if any Natural Force Damage sub-cause is sele  | ctod  |  |
| Complete the following it any Natural Force Damage Sub-cause is sele  | cieu.   |  |
| onjunction with an extreme weather event?   |   |  |
| 6a If Yes specify: (select all that apply)  |   |  |
| - Hurricane   |   |  |
| - Tropical Storm  |   |  |
| - Tornado   |   |  |
| - 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 Excavation Damage by Operator (First Party):   |   |  |
|   |   |  |
| - If Excavation Damage by Operator's Contractor (Second Party):   |   |  |
| - If Excavation Damage by Operator's Contractor (Second Party):   |   |  |
| <ul> <li>If Excavation Damage by Operator's Contractor (Second Party):</li> <li>If Excavation Damage by Third Party:</li> </ul>   |   |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:  |   |  |
| <ul> <li>If Excavation Damage by Operator's Contractor (Second Party):</li> <li>If Excavation Damage by Third Party:</li> <li>If Previous Damage due to Excavation Activity:</li> </ul>   |   |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from  | PART C, Question 3) is Pipe or Weld.  |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     1. Has one or more internal inspection tool collected data at the point of     the Accident?   | PART C, Question 3) is Pipe or Weld.  |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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   | PART C, Question 3) is Pipe or Weld.  |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Magnetic Flux Leakage   | PART C, Question 3) is Pipe or Weld.<br>nd indicate most recent year run: - |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         - Magnetic Flux Leakage         Most recent year conducted:   | PART C, Question 3) is Pipe or Weld.<br>nd indicate most recent year run: - |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Most recent year conducted:         Ultrasonic  | PART C, Question 3) is Pipe or Weld.<br>nd indicate most recent year run: - |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Most recent year conducted:         Ultrasonic         Most recent year conducted:  | PART C, Question 3) is Pipe or Weld.<br>nd indicate most recent year run: - |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Most recent year conducted:         Ultrasonic         Most recent year conducted:         Geometry   | PART C, Question 3) is Pipe or Weld.<br>nd indicate most recent year run: - |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Most recent year conducted:         Ultrasonic         Most recent year conducted:         Geometry         Most recent year conducted:         Optimere  | PART C, Question 3) is Pipe or Weld.<br>nd indicate most recent year run: - |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Most recent year conducted:         Ultrasonic         Most recent year conducted:         Geometry         Most recent year conducted:         Caliper   | PART C, Question 3) is Pipe or Weld.<br>nd indicate most recent year run: - |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Most recent year conducted:         Ultrasonic         Most recent year conducted:         Geometry         Most recent year conducted:         Caliper         Most recent year conducted:         Crack   | PART C, Question 3) is Pipe or Weld. nd indicate most recent year run: -    |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Most recent year conducted:         Ultrasonic         Most recent year conducted:         Caliper         Most recent year conducted:         Crack         Most recent year conducted:  | PART C, Question 3) is Pipe or Weld. nd indicate most recent year run: -    |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Most recent year conducted:         Ultrasonic         Most recent year conducted:         Ocaliper         Most recent year conducted:         Caliper         Most recent year conducted:         Crack         Most recent year conducted:         Hard Spot   | PART C, Question 3) is Pipe or Weld. nd indicate most recent year run: -    |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Most recent year conducted:         Ultrasonic         Most recent year conducted:         Caliper         Most recent year conducted:         Crack         Most recent year conducted:         Hard Spot  | PART C, Question 3) is Pipe or Weld. nd indicate most recent year run: -    |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Magnetic Flux Leakage         Most recent year conducted:         Oultrasonic         Most recent year conducted:         Caliper         Most recent year conducted:         Crack         Most recent year conducted:         Hard Spot         Most recent year conducted:         Combination Tool  | PART C, Question 3) is Pipe or Weld. nd indicate most recent year run: -    |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Magnetic Flux Leakage         Most recent year conducted:         Ultrasonic         Most recent year conducted:         Caliper         Most recent year conducted:         Crack         Most recent year conducted:         Hard Spot         Most recent year conducted:         Combination Tool   | PART C, Question 3) is Pipe or Weld.  nd indicate most recent year run: -   |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Magnetic Flux Leakage         Most recent year conducted:         Oultrasonic         Most recent year conducted:         Caliper         Most recent year conducted:         Crack         Most recent year conducted:         Orack         Most recent year conducted:         Orack   | PART C, Question 3) is Pipe or Weld.  nd indicate most recent year run: -   |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Magnetic Flux Leakage         Most recent year conducted:         Oultrasonic         Most recent year conducted:         Caliper         Most recent year conducted:         Crack         Most recent year conducted:         Orack         Most recent year conducted:         Outrast performance         Outrast performance         Most recent year conducted:         Outrast performance         Outrast performance         Most recent year conducted:         Outrast performance         Outrast performan | PART C, Question 3) is Pipe or Weld.  nd indicate most recent year run: -   |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Magnetic Flux Leakage         Most recent year conducted:         Ultrasonic         Most recent year conducted:         Caliper         Most recent year conducted:         Crack         Most recent year conducted:         Crack         Most recent year conducted:         Crack         Most recent year conducted:         Caliper         Most recent year conducted:         Crack         Most recent year conducted:         Combination Tool         Most recent year conducted:         Other   | PART C, Question 3) is Pipe or Weld.  nd indicate most recent year run: -   |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         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:         Crack         Most recent year conducted:         Combination Tool         Most recent year conducted:         Transverse Field/Triaxial         Most recent year conducted:         Other         Most recent year conducted:  | PART C, Question 3) is Pipe or Weld.  nd indicate most recent year run: -   |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         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:         Crack         Most recent year conducted:         Combination Tool         Most recent year conducted:         Combination Tool         Most recent year conducted:         Other         Most recent year conducted:         Other   | PART C, Question 3) is Pipe or Weld.  nd indicate most recent year run: -   |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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             - Magnetic Flux Leakage   | PART C, Question 3) is Pipe or Weld.  nd indicate most recent year run: -   |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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   | PART C, Question 3) is Pipe or Weld.  |  |
| If Excavation Damage by Operator's Contractor (Second Party):     If Excavation Damage by Third Party:     If Previous Damage due to Excavation Activity:     Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from     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         Magnetic Flux Leakage         Most recent year conducted:         Outrasonic         Outrasonic         Outrasonic         Outrasonic         Most recent year conducted:         Outrasonic         Outrasonic          | PART C, Question 3) is Pipe or Weld.  |  |

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| Most recent year tested:  |  |
|---|--|
| Test pressure (psig):   |  |
| 4. 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 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 Liltrasonic   |  |
| Most recent year conducted:   |  |
| - Handheld Liltrasonic Tool   |  |
| Meet recent year conducted:   |  |
| Most Magnetia Dertiale Test   |  |
| - Wei Magnetic Particle Test  |  |
| Most recent year conducted:   |  |
| - Dry Magnetic Particle Test  |  |
| Most recent year conducted:   |  |
| - Other   |  |
| Most recent year conducted:   |  |
| Describe:   |  |
| Complete the following if Excavation Damage by Third Party is select  | ed as the sub-cause.   |
| C. Did the exercise net mice notification of the even etim set into 2   |  |
| 6. Did the operator get prior notification of the excavation activity?  |  |
| 6a. If Yes, Notification received from: (select all that apply) -   | Ι  |
| - One-Call System   |  |
| - Excavator   |  |
| - Contractor  |  |
| - Landowner   |  |
| Complete the following mandatory CGA-DIPT Program questions if an   | v Excavation Damago sub-causo is colocted                                      |
| Complete the following mandatory COA-Dirt i Togram questions if an  | y 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/Fasement  |  |
| - Power/Transmission Line   |  |
| - Railroad  |  |
| Dedicated Public Litility Eccoment  |  |
| Enderal Land  |  |
| - Teuerai Lanu  |  |
|   |  |
|   |  |
| 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  |  |
| exists, list the name of the One-Call Center notified:  |  |
| 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?  |  |
| ACa If Vac an acify dynatics of the intermuntics (hours)  |  |
| Toa. If Yes, specify duration of the interruption (nours)   |  |
| 17. Description of the CGA-DIRT Root Cause (select only the one predo   | ninant first level CGA-DIRT Root Cause and then. where                         |
| <ol> <li>17. Description of the CGA-DIRT Root Cause (select only the one predor<br/>available as a choice, the one predominant second level CGA-DIRT Root</li> </ol>  | ninant first level CGA-DIRT Root Cause and then, where<br>Cause as well):      |
| <ol> <li>17. Description of the CGA-DIRT Root Cause (select only the one predor<br/>available as a choice, the one predominant second level CGA-DIRT Root<br/>Root Cause:</li> </ol>  | ninant first level CGA-DIRT Root Cause and then, where<br>Cause as well):<br>1 |
| 17. Description of the CGA-DIRT Root Cause (select only the one predor<br>available as a choice, the one predominant second level CGA-DIRT Root<br>Root Cause:     15. One-Call Notification Practices Not Sufficient specify:  | ninant first level CGA-DIRT Root Cause and then, where<br>Cause as well):      |
| 17 Description of the CGA-DIRT Root Cause (select only the one predou<br>available as a choice, the one predominant second level CGA-DIRT Root<br>Root Cause:     - If One-Call Notification Practices Not Sufficient, specify:   | ninant first level CGA-DIRT Root Cause and then, where<br>Cause as well):      |
| 17. Description of the CGA-DIRT Root Cause (select only the one predou<br>available as a choice, the one predominant second level CGA-DIRT Root<br>Root Cause:     - If One-Call Notification Practices Not Sufficient, specify:     - If Locating Practices Not Sufficient, specify:     - If Excavation Practices Not Sufficient specify:     - If Excavation Practices Not Sufficient specify: | ninant first level CGA-DIRT Root Cause and then, where<br>Cause as well):      |
| 17 Description of the CGA-DIRT Root Cause (select only the one predou<br>available as a choice, the one predominant second level CGA-DIRT Root<br>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 available            | ninant first level CGA-DIRT Root Cause and then, where<br>Cause as well):      |
| 17. Description of the CGA-DIRT Root Cause (select only the one predou<br>available as a choice, the one predominant second level CGA-DIRT Root<br>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:           | ninant first level CGA-DIRT Root Cause and then, where<br>Cause as well):      |

| Other Outside Force Damage – Sub-Cause:  |   |  |  |
|--|---|--|--|
| - If Nearby Industrial, Man-made, or Other Fire/Explosion as Primary Cause of Incident:  |   |  |  |
| - If Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation:   |   |  |  |
| 1. Vehicle/Equipment operated by:     If Damage by Boats, Barges, Drilling Rigs, or Other Maritime Equipment or Vessels Set Adrift or Which Have Otherwise Lost Their Mogring: |   |  |  |
| 2. Select one or more of the following IF an extreme weather event was a   | factor:   |  |  |
| - Hurricane  |   |  |  |
| - Tornado  |   |  |  |
| - Heavy Rains/Flood  |   |  |  |
| - Other  |   |  |  |
| - If Routine or Normal Fishing or Other Maritime Activity NOT Engage   | d in Excavation:  |  |  |
| - If Electrical Arcing from Other Equipment or Facility:   |   |  |  |
| If Providuo Machanical Damage NOT Palated to Evolution   |   |  |  |
| Complete Questions 3-7 ONLY IF the "Item Involved in Accident" (from   | m PART C. Question 3) is Pipe or Weld                       |  |  |
| 3. Has one or more internal inspection tool collected data at the point of   |   |  |  |
| the Accident?  | diasta most recent year time                                |  |  |
| - Magnetic Flux Leakage  | uicale most recent year run.                                |  |  |
| Most recent year conducted:  |   |  |  |
| - Ultrasonic   |   |  |  |
| - Geometry   |   |  |  |
| Most recent year conducted:  |   |  |  |
| - Caliper<br>Mact recent year conducted:   |   |  |  |
| - Crack  |   |  |  |
| Most recent year conducted:  |   |  |  |
| - Hard Spot  |   |  |  |
| - Combination Tool   |   |  |  |
| Most recent year conducted:  |   |  |  |
| - Transverse Field/Triaxial  |   |  |  |
| Most recent year conducted:  |   |  |  |
| Most recent year conducted:  |   |  |  |
| Describe:  |   |  |  |
| 4. Do you have reason to believe that the internal inspection was<br>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?  |   |  |  |
| 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:  |   |  |  |
| Most recent year conducted:  |   |  |  |
| 7. Has one or more non-destructive examination been conducted at the   |   |  |  |
| 7a. If Yes, for each examination conducted since January 1, 2002 se  | elect type of non-destructive examination and indicate most |  |  |
| recent year the examination was conducted:   |   |  |  |
| - Radiography  |   |  |  |
| - Guided Wave Ultrasonic   |   |  |  |
| Most recent year conducted:  |   |  |  |
| - Handheld Ultrasonic Tool<br>Most recent year conducted   |   |  |  |
| - Wet Magnetic Particle Test   |   |  |  |
| Most recent year conducted:  |   |  |  |
| - Dry Magnetic Particle Test<br>Most recent year conducted:  |   |  |  |
| wost recent year conducted:  |   |  |  |

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| - Other   |   |
|---|---|
| Most recent year conducted:   |   |
| Describe:   |   |
| - If Intentional Damage:  |   |
| 8 Specify:  |   |
| - If Other Describe:  |   |
| - If Other Outside Force Damage:  |   |
| - Il Other Outside Force Dallage.   |   |
| 9. Describe.  |   |
| G5 - Material Failure of Pipe or Weld - only one sub-cause can be   | selected from the shaded left-hand column             |
| Use this section to report material failures ONLY IF the "Item Involved<br>"Weld."                                    | I in Accident" (from PART C, Question 3) is "Pipe" or |
| Material Failure of Pipe or Weld – Sub-Cause:   |   |
| 1. The sub-cause selected below is based on the following: (select all that   | t apply)  |
| - Field Examination   |   |
| <ul> <li>Determined by Metallurgical Analysis</li> </ul>  |   |
| - Other Analysis  |   |
| - If "Other Analysis", Describe:  |   |
| <ul> <li>Sub-cause is Tentative or Suspected; Still Under Investigation<br/>(Supplemental Report required)</li> </ul> |   |
| - If Construction Installation or Fabrication-related   |   |
| 2 List contributing factors: (select all that apply)  |   |
| End contributing factors. (Select all that apply)   |   |
|   |   |
| Specify:  |   |
| - IT Utner, Describe:   |   |
| - Mechanical Stress:  |   |
| - Other   |   |
| - If Other, Describe:   |   |
| <ul> <li>If Original Manufacturing-related (NOT girth weld or other welds form</li> </ul>                             | ned in the field):                                    |
| 2. List contributing factors: (select all that apply)   |   |
| - Fatigue or Vibration-related:   |   |
| Specify:  |   |
| - If Other, Describe:   |   |
| - Mechanical Stress:  |   |
| - Other   |   |
| - If Other, Describe:   |   |
| - If Environmental Cracking-related:  |   |
| 3. Specify:   |   |
| - Other - Describe:   |   |
| Complete the following if any Material Failure of Pipe or Weld sub-cau  | sa is salartad  |
|   | se 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, Describe:   |   |
| 5. Has one or more internal inspection tool collected data at the point of  |   |
| 5a If Ves for each tool used callect type of internal increation tool a   | nd indicate most recent year rup:                     |
| Ja. In res, for each toor used, select type of internal inspection tool a   | חים וחימול מושא ובלבווג אלמו זעוו.                    |
|   |   |
| Most recent year run:   |   |
| - Ultrasonic  |   |
| Most recent year run:   |   |
| - Geometry  |   |
| Most recent year run:   |   |
| - Caliper   |   |
| Most recent year run:   |   |
|   |   |
| - Crack   |   |

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| - Hard Spot   |   |
|---|---|
| Most recent year run:   |   |
| - Combination Tool  |   |
| Most recent year run:   |   |
| - Transverse Field/Triaxial   |   |
| Most recent year run:   |   |
| Wiost 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?  |   |
| <ul> <li>If Yes, and an investigative dig was conducted at the point of the Acci</li> </ul>   | ident -   |
| Most recent year 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 vear conducted:   |   |
| - Other   |   |
| Most recent year conducted:   |   |
| Describe:   |   |
| <b>G6 – Equipment Failure</b> - only one <b>sub-cause</b> can be selected from t  | he shaded left-hand column                                  |
|   |   |
| Equipment Failure – Sub-Cause:  |   |
| If Malfunction of Control/Doliof Equipments   |   |
| - In Marunction of Control/Rener Equipment:   |   |
| 1. Specify: (select all that apply) -   |   |
| - Control Valve   |   |
| - Instrumentation   |   |
| - SCADA   |   |
| - Communications  |   |
|   |   |
| - Block Valve   |   |
| - Block Valve<br>- Check Valve  |   |
| - Block Valve<br>- Check Valve<br>- Relief Valve  |   |
| - Block Valve<br>- Check Valve<br>- Relief Valve<br>- Power Failure   |   |
| Block Valve     Check Valve     Relief Valve     Power Failure     Stopple/Control Fitting  |   |
| Block Valve     Check Valve     Relief Valve     Power Failure     Stopple/Control Fitting     ESD System Failure   |   |
| Block Valve     Check Valve     Relief Valve     Power Failure     Stopple/Control Fitting     ESD System Failure     Other   |   |
| Block Valve     Check Valve     Relief Valve     Stopple/Control Fitting     ESD System Failure     Other   |   |
| - Block Valve     - Check Valve     - Relief Valve     - Power Failure     - Stopple/Control Fitting     - ESD System Failure     - Other     - If Other – Describe:     - If Other – Describe:   |   |
| Block Valve     Check Valve     Check Valve     Relief Valve     Power Failure     Stopple/Control Fitting     ESD System Failure     Other     If Other – Describe:     If Pump or Pump-related Equipment:     Specify:  |   |
| Block Valve     Check Valve     Check Valve     Relief Valve     Power Failure     Stopple/Control Fitting     ESD System Failure     Other     If Other – Describe:     If Pump or Pump-related Equipment:     Specify:  |   |
| Block Valve     Check Valve     Check Valve     Relief Valve     Power Failure     Stopple/Control Fitting     ESD System Failure     Other     If Other – Describe:     If Pump or Pump-related Equipment:     Specify:         If Other – Describe:         If Other – Describe:  |   |
| Block Valve     Check Valve     Check Valve     Relief Valve     Power Failure     Stopple/Control Fitting     ESD System Failure     Other     If Other – Describe:     If Pump or Pump-related Equipment:     Specify:         If Other – Describe:         If Other – Describ |   |
| Block Valve     Check Valve     Check Valve     Relief Valve     Stopple/Control Fitting     ESD System Failure     Other         If Other – Describe:         If Other – Describe:       |   |
| Block Valve     Check Valve     Check Valve     Relief Valve     Stopple/Control Fitting     Stopple/Control Fitting     Stopple/Control Fitting     Other     If Other – Describe:   |   |
| - Block Valve     - Check Valve     - Relief Valve     - Relief Valve     - Stopple/Control Fitting     - Stopple/Control Fitting     - ESD System Failure     - Other     - If Other – Describe:     - If Ot |   |
| - Block Valve     - Check Valve     - Check Valve     - Relief Valve     - Power Failure     - Stopple/Control Fitting     - ESD System Failure     - Other     - If Other – Describe:  |   |
| - Block Valve     - Check Valve     - Relief Valve     - Relief Valve     - Stopple/Control Fitting     - Stopple/Control Fitting     - ESD System Failure     - Other     - If Other – Describe:  |   |
| - Block Valve     - Check Valve     - Relief Valve     - Relief Valve     - Stopple/Control Fitting     - Stopple/Control Fitting     - ESD System Failure     - Other     - If Other – Describe:   |   |
| - Block Valve     - Check Valve     - Relief Valve     - Relief Valve     - Stopple/Control Fitting     - Stopple/Control Fitting     - ESD System Failure     - Other     - If Other – Describe:     - If Ot |   |
| - Block Valve     - Check Valve     - Check Valve     - Relief Valve     - Power Failure     - Stopple/Control Fitting     - ESD System Failure     - Other     - If Other – Describe:     - If Defective or Loose Tubing or Fitting:   |   |
| Block Valve     Check Valve     Check Valve     Relief Valve     Power Failure     Stopple/Control Fitting     ESD System Failure     Other         If Other – Describe:     If Pump or Pump-related Equipment:     Specify:         If Other – Describe:     If Threaded Connection/Coupling Failure:     Specify:         If Other – Describe:     If Non-threaded Connection Failure:     If Other – Describe:     If Defective or Loose Tubing or Fitting:     If Other – Describe:     If Failure of Equipment Body (except Pump), Tank Plate, or other M  | aterial:  |
| Block Valve     Check Valve     Check Valve     Relief Valve     Power Failure     Stopple/Control Fitting     ESD System Failure     Other         If Other – Describe:     If Pump or Pump-related Equipment:     Specify:         If Other – Describe:     If Threaded Connection/Coupling Failure:     Specify:         If Other – Describe:     If Non-threaded Connection Failure:     If Other – Describe:     If Other – | aterial:  |

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| 5. Describe:   |  |  |
|--|--|--|
| Complete the following if any Equipment Failure sub-cause is selected.   |  |  |
| 6. Additional factors that contributed to the equipment failure: (select all ta                                  | hat apply)                               |  |
| - Excessive vibration  |  |  |
| - Overpressurization   |  |  |
| <ul> <li>No support or loss of support</li> </ul>  |  |  |
| - Manufacturing defect   |  |  |
| - 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 Describe:   |  |  |
|  |  |  |
| G7 - Incorrect Operation - only one sub-cause can be selected from   | the shaded left-hand column              |  |
| Incorrect Operation – Sub-Cause:   |  |  |
| Demons hu Oreneter en Oreneterle Contractor NOT Beleted to   |  |  |
| Excavation and NOT due to Motorized Vehicle/Equipment Damage   | No                                       |  |
| Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill or<br>Overflow                                     | No                                       |  |
|  |  |  |
| 1. Specify:  |  |  |
| - If Other Describe  |  |  |
| Volvo Left er Blood in Wrong Decition but NOT Booulting in a   |  |  |
| Tank, Vessel, or Sump/Separator Overflow or Facility<br>Overpressure   | No                                       |  |
| Pipeline or Equipment Overpressured  | No                                       |  |
| Equipment Not Installed Properly   | No                                       |  |
| Wrong Equipment Specified or Installed   | No                                       |  |
| Other Incorrect Operation  | · · · ·                                  |  |
|  | Yes                                      |  |
| 2. Describe:   | Yes                                      |  |
| Complete the following if any Incorrect Operation sub-cause is selected  | ed.                                      |  |
| 3. Was this Accident related to (select all that apply): -   |  |  |
| - Inadequate procedure   |  |  |
| - No procedure established   | Vas                                      |  |
| - Other:   |  |  |
| - If Other. Describe:  |  |  |
| 4. What category type was the activity that caused the Accident?   | Decommissioning                          |  |
| 5. Was the task(s) that led to the Accident identified as a covered task in your Operator Qualification Program? | Yes                                      |  |
| 5a. If Yes, were the individuals performing the task(s) qualified for the task(s)?                               | Yes, they were 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:   |  |  |
|  |  |  |

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- If Unknown:

2. Specify:

## **PART H - NARRATIVE DESCRIPTION OF THE ACCIDENT**

Out of service piping that had been permanently removed from the pipeline system was being cut to be sold as scrap metal. Residual product of less than one gallon ignited during the hot work process of cutting the piping which resulted in a small fire that was immediately extinguished. Causal analysis revealed that the established hot work procedures were not followed by the on-site personnel.

#### File Full Name

#### PART I - PREPARER AND AUTHORIZED SIGNATURE

| Preparer's Name                       | Claudia Pankowski               |
|---------------------------------------|---------------------------------|
| Preparer's Title                      | Area DOT Compliance Supervisor  |
| Preparer's Telephone Number           | 610-942-1924                    |
| Preparer's E-mail Address             | cmpankowski@sunocologistics.com |
| Preparer's Facsimile Number           | 610-942-1910                    |
| Authorized Signature's Name           | Claudia Pankowski               |
| Authorized Signature Title            | Area DOT Compliance Supervisor  |
| Authorized Signature Telephone Number | 610-942-1924                    |
| Authorized Signature Email            | cmpankowski@sunocologistics.com |
| Date                                  | 04/18/2012                      |

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