

A11. Were there injuries requiring inpatient hospitalization? ☐ Yes ☐ No

If Yes, specify the number in each category:

A11a. Operator employees / / / / /

A11b. Contractor employees
working for the Operator / / / / /

A11c. Non-Operator
emergency responders / / / / /

A11d. Workers working on the
right-of-way, but NOT
associated with this Operator / / / / /

A11e. General public / / / / /

A11f. Total injuries (sum of above) calculated

☐ CPM leak detection system
☐ SCADA-based information (such as alarm(s), alert(s), event(s), and/or volume calculations)
☐ Static Shut-in Test or Other Pressure or Leak Test
☐ Controller
☐ Air Patrol
☐ Notification from Public
☐ Notification from Third Party that caused the Accident

☐ Local Operating Personnel, including the Operator
☐ Ground Patrol by Operator or its personnel
☐ Notification from Emergency Response Team
☐ Other _____

☐ Ground Patrol by Operator or its contractor

☐ Other _____

☐ Operator employee ☐ Contractor working for the Operator

Hour

Month

Day

Year

- ☐ Onshore Breakout Tank or Storage Vessel, Including Attached Appurtenances
- ☐ Onshore Terminal/Tank Farm Equipment and Piping
- ☐ Onshore Equipment and Piping Associated with Belowground Storage
- ☐ Onshore Pump/Meter Station Equipment and Piping
- ☐ Onshore Pipeline, Including Valve Sites
- ☐ Offshore Platform/Deepwater Port, Including Platform-mounted Equipment and Piping
- ☐ Offshore Pipeline, Including Riser and Riser Bend

☐ Yes (Complete Questions B3-B12) ☐ No (Complete Questions B13-B15)

- ☐ Post-Construction Commissioning
- ☐ Post-Maintenance/Repair
- ☐ Routine Start-Up
- ☐ Routine Shutdown
- ☐ Normal Operation, include pauses between batches and during maintenance
- ☐ Idle

☐ Yes ☐ No ➡ Explain:

A17a. Local time and date of shutdown

Hour

Month

Day

_____/_____/_____
Year

A17b. Local time pipeline/facility restarted

Hour

Month

Day

_____/_____/_____
Year

☐ Still shut down*

*Supplemental Report required

A18a. Did the operator communicate with Local, State, or Federal Emergency Responders about the accident? ☐ Yes ☐ No

A18b. Which party initiated communication about the accident? ☐ Operator ☐ Local/State/Federal Emergency Responder

Hour

Month

Day

$$\frac{\quad}{\text{Year}}$$

Hour

Month

Day

____/____/____
Year

PART B – ADDITIONAL LOCATION INFORMATION

B1. Pipeline/Facility name: _____

B2. Segment name/ID: _____

If Onshore:

B3. State: / / /

B4. Zip Code: / / / / / - / / / / /

B5. _____ B6. _____
City County or ParishB7. Operator-designated location: (select only one) ☐ Milepost (specify in shaded area below)☐ Survey Station No. (specify in shaded area below)

B8. / / / / / / / / / / / / / / / /

B9. Was this onshore Accident on Federal land? ☐ Yes ☐ No

B10. Location of Accident: (select only one)

- ☐ Totally contained on Operator-controlled property ☐ Pipeline right-of-way
☐ Originated on Operator-controlled property, but then flowed or migrated off the property

B11. Area of Accident (as found): (select only one)

- ☐ Tank, including attached appurtenances
☐ Underground ➞ Specify: ☐ Under soil ☐ Under a building ☐ Under pavement ☐ Exposed due to excavation
☐ Exposed due to loss of cover ☐ In underground enclosed space (e.g., vault) ☐ Other _____

B11a. Depth-of-Cover (in): / / / / / OR ☐ Unknown

- ☐ Aboveground ➞ Specify: ☐ Typical aboveground facility piping or appurtenance ☐ Overhead crossing ☐ Inside a building
☐ In or spanning an open ditch ☐ Inside other enclosed space ☐ Other _____
☐ Transition Area ➞ Specify: ☐ Soil/air interface ☐ Wall sleeve ☐ Pipe support or other close contact area ☐ Other _____

B12. Did the Accident occur in a crossing? ☐ Yes ☐ No If B12 is Yes, specify type:

- ☐ Bridge crossing Specify: ☐ Cased ☐ Uncased
☐ Railroad crossing (select all that apply) ☐ Cased ☐ Uncased ☐ Bored/drilled
☐ Road crossing (select all that apply) ☐ Cased ☐ Uncased ☐ Bored/drilled
☐ Water crossing

Specify: ☐ Cased ☐ Uncased

Name of body of water, if commonly known: _____

Approx. water depth (ft) at the point of the Accident: _____ OR ☐ Unknown
(select only one of the following)

- ☐ Shoreline/Bank/Marsh crossing
☐ Below water, pipe buried below bottom (NOT in bored/drilled crossing)
☐ Below water, pipe in bored/drilled crossing
☐ Below water, pipe on or above bottom

Is this water crossing 100 feet or more in length from high water mark to high water mark? ☐ Yes ☐ No**If Offshore:**

B13. Approximate water depth (ft.) at the point of the Accident: / / / / / / /

B14. Origin of Accident: ☐ In State waters

Specify: State: _____ Area: _____ Block/Tract #: / / / / / Nearest County/Parish: _____

- ☐ On the Outer Continental Shelf (OCS) (select only one) ☐ OCS – Alaska ☐ OCS- Atlantic
☐ OCS-Gulf of Mexico ☐ OCS – Pacific

Specify: Area: _____ Block/Tract #: / / / / /

B15. Area of Accident: (select only one)

- ☐ Shoreline/Bank/Marsh crossing or shore approach
☐ Below water, pipe buried or jetted below seabed
☐ Below water, pipe on or above seabed
☐ Splash Zone of riser
☐ Portion of riser outside of Splash Zone, including riser bend
☐ Platform

PART C – ADDITIONAL FACILITY INFORMATION

C1. Is the pipeline or facility:

- ☐ Interstate
☐ Intrastate

C2. reserved

C3. Item involved in Accident: *(select only one)*

- ☐ Pipe ⇨ Specify: ☐ Pipe Body ☐ Pipe Seam

If Pipe Body: Was this a puddle/spot weld? ☐ Yes ☐ No

C3a. Nominal Pipe Size: / / / / / C3.b Wall thickness (in): / / / / /

C3c. SMYS (Specified Minimum Yield Strength) of pipe (psi): / / / / /

C3d. Pipe specification: _____ OR ☐ Unknown

C3e. Pipe Seam

- ⇨ Specify: ☐ ERW - High Frequency ☐ Single SAW ☐ Flash Welded ☐ ERW - Low Frequency ☐ DSAW ☐ Continuous Welded
☐ ERW – Unknown Frequency ☐ Furnace Butt Welded ☐ Spiral Welded ☐ Lap Welded ☐ Seamless
☐ Other, describe: _____

C3f. Pipe manufacturer: _____ OR ☐ Unknown

C3g Pipeline coating type at point of Accident

- ⇨ Specify: ☐ Fusion Bonded Epoxy (FBE) ☐ Coal Tar ☐ Asphalt ☐ Polyolefin ☐ Extruded Polyethylene
☐ Epoxy other than FBE ☐ Cold Applied Tape ☐ Paint ☐ Composite ☐ None ☐ Other, describe: _____

C3h. Coating field applied? ☐ Yes ☐ No ☐ Unknown

- ☐ Weld, including heat-affected zone ⇨ Specify: ☐ Pipe Girth Weld ☐ Other Butt Weld ☐ Fillet Weld

If Pipe Girth Weld is selected, complete items C3a through h above. Are any of the C3b through h values different on either side of the girth weld?

☐ Yes ☐ No

If Yes, enter the different value(s) below:

C3i. Wall thickness (in): / / / / /

C3j. SMYS (Specified Minimum Yield Strength) of pipe (psi): / / / / /

C3k. Pipe specification: _____ OR ☐ Unknown

C3l. Pipe Seam

- ⇨ Specify: ☐ ERW - High Frequency ☐ Single SAW ☐ Flash Welded ☐ ERW - Low Frequency ☐ DSAW ☐ Continuous Welded
☐ ERW – Unknown Frequency ☐ Furnace Butt Welded ☐ Spiral Welded ☐ Lap Welded ☐ Seamless
☐ Other, describe: _____

C3m. Pipe manufacturer: _____ OR ☐ Unknown

C3n. Pipeline coating type at point of Accident

- ⇨ Specify: ☐ Fusion Bonded Epoxy (FBE) ☐ Coal Tar ☐ Asphalt ☐ Polyolefin ☐ Extruded Polyethylene
☐ Epoxy other than FBE ☐ Cold Applied Tape ☐ Paint ☐ Composite ☐ None ☐ Other, describe: _____

C3o. Coating field applied? ☐ Yes ☐ No ☐ Unknown

- ☐ Valve ☐ Mainline ⇨ Specify: ☐ Butterfly ☐ Check ☐ Gate ☐ Plug ☐ Ball ☐ Globe ☐ Other, describe: _____

C3p. Mainline valve manufacturer: _____ OR ☐ Unknown

☐ Relief Valve – including thermal and pressure. Report tank relief valves under the Tank/Vessel, Relief Valve

☐ Auxiliary or Other Valve – report auxiliary valves on tanks under Tank/Vessel, Appurtenance

- ☐ Pump, including auxiliary piping, connections, and equipment, but excluding product drain lines and tubing.

C3q. Type of pump

- ☐ Positive displacement
☐ Centrifugal
☐ Gear
☐ Other (specify): _____

C3r. Type of service

- ☐ Mainline
☐ Injection
☐ Truck rack (if on terminal side of truck rack canopy)
☐ Other (specify): _____

- ☐ Meter/Prover, including auxiliary piping, connections, and equipment, but excluding product drain lines and tubing.
☐ Scraper/Pig Trap, including auxiliary piping, connections, and equipment, but excluding product drain lines and tubing.
☐ Sump, including auxiliary piping, connections, and equipment, but excluding product drain lines and tubing.
☐ Filter, Strainer, Separator, including auxiliary piping, connections, and equipment, but excluding product drain lines and tubing.

- ☐ Repair Sleeve or Clamp
- ☐ Tapping Equipment
- ☐ Tap Fitting (stopple, thread-o-ring, weld-o-let, etc.)
- ☐ Flange Assembly, including Gaskets
- ☐ Relief Lines and Relief Equipment
- ☐ Drain Lines
- ☐ Tubing, including Fittings

C3s. Tubing material

- ☐ Stainless steel
- ☐ Carbon steel
- ☐ Copper
- ☐ Other

C3t. Type of tubing

- ☐ Rigid
- ☐ Flexible

- ☐ Instrumentation, including Programmable Logic Controllers and Controls

- ☐ Tank/Vessel ➔ C3u. Specify: ☐ Single Bottom System ☐ Double Bottom System ☐ Tank Shell ☐ Chime ☐ Roof/Roof Seal
☐ Roof Drain System ☐ Mixer ☐ Pressure Vessel Head or Wall ☐ Appurtenance
☐ Relief Valve ☐ Other, describe: _____

C3v. Tank Type ☐ Atmospheric ☐ Pressurized

If C3v. = Pressurized:

C3v1. Tank Maximum Operating Pressure

C3v2. What is the set point of the primary pressure relief device on the tank? _____

C3v3. Did the thermal or pressure relief valve activate? ☐ Yes ☐ No

C3v4. Was the MOP of the tank exceeded? ☐ Yes ☐ No

If C3v = Atmospheric:

C3v5. Safe-Fill-Level (in feet) at the time of the accident? _____

C3v6. Was the SafeFill-Level exceeded? ☐ Yes ☐ No

C3v7. Year of most recent API Std 653 Out-of-Service Inspection / / OR ☐ None

C3v8. API Std 653 In-Service Inspection / / OR ☐ No In-Service Inspection completed

- ☐ Other mandatory text field

C4. Year item involved in Accident was installed: / / OR ☐ Unknown

C4a. Year item involved in Accident was manufactured: / / OR ☐ Unknown

C5. Material involved in Accident: (*select only one*)

- ☐ Carbon Steel
- ☐ Material other than Carbon Steel ➔ Specify: _____

C6. Type of Accident involved: (*select only one*)

- ☐ Mechanical Puncture ➔ Approx. size: / / / / / in. (axial) by / / / / / in. (circumferential)
- ☐ Leak ➔ Select Type: ☐ Pinhole ☐ Crack ☐ Connection Failure ☐ Seal or Packing ☐ Other
- ☐ Rupture ➔ Select Orientation: ☐ Circumferential ☐ Longitudinal ☐ Other _____
Approx. size: / / / / / in. (widest opening) by / / / / / in. (length circumferentially or axially)
- ☐ Overfill or Overflow
- ☐ Other ➔ Describe: _____

PART D – ADDITIONAL CONSEQUENCE INFORMATION

D1. Wildlife impact: ☐ Yes ☐ No

D1a If Yes, specify all that apply:

- ☐ Fish/aquatic
- ☐ Birds
- ☐ Terrestrial

D2. Soil contamination: ☐ Yes ☐ No

D3. Long term impact assessment performed or planned: ☐ Yes ☐ No

D4. Anticipated remediation: ☐ Yes ☐ No (not needed)

D4a. If Yes, specify all that apply:

- ☐ Surface water ☐ Groundwater ☐ Soil ☐ Vegetation ☐ Wildlife

D5. Water contamination: ☐ Yes ➔ (*Complete 5a – 5c below*) ☐ No

☐ Ocean/Seawater
☐ Surface
☐ Groundwater
☐ Drinking water ➡ (Select one or both) ☐ Private Well ☐ Public Water Intake

D5c. Name of body of water, if commonly known: _____

D7. Did the released commodity reach or occur in one or more High Consequence Area (HCA)? ☐ Yes ☐ No

☐ Commercially Navigable Waterway
Was this HCA identified in the “could affect” determination for this Accident site in the Operator’s Integrity Management Program?
☐ Yes ☐ No

☐ High Population Area
Was this HCA identified in the “could affect” determination for this Accident site in the Operator’s Integrity Management Program?
☐ Yes ☐ No

☐ Other Populated Area
Was this HCA identified in the “could affect” determination for this Accident site in the Operator’s Integrity Management Program?
☐ Yes ☐ No

☐ Unusually Sensitive Area (USA) – Drinking Water
Was this HCA identified in the “could affect” determination for this Accident site in the Operator’s Integrity Management Program?
☐ Yes ☐ No

☐ Unusually Sensitive Area (USA) – Ecological
Was this HCA identified in the “could affect” determination for this Accident site in the Operator’s Integrity Management Program?
☐ Yes ☐ No

D8a. Estimated cost of public and non-Operator private property damage	\$ / / / ,/ / / ,/ / /
D8b. Estimated cost of commodity lost	\$ / / / ,/ / / ,/ / /
D8c. Estimated cost of Operator's property damage & repairs	\$ / / / ,/ / / ,/ / /
D8d. Estimated cost of emergency response	\$ / / / ,/ / / ,/ / /
D8e. Estimated cost of environmental remediation	\$ / / / ,/ / / ,/ / /
D8f. Estimated other costs	\$ / / / ,/ / / ,/ / /

D8g. Total estimated property damage (sum of above) \$ calculated

If a person is included in D9, do not include them in D10.

Buildings Affected

D12. Number of business buildings affected (evacuated or required repair):

E1. Estimated pressure at the point and time of the Accident (psig): / / , / / /

E2. Maximum Operating Pressure (MOP) at the point and time of the Accident (psig) : / / /, / / / /

☐ Internal Design Pressure \$195.406(a)(1)
☐ Component Design Pressure \$195.406(a)(2)
☐ SubPart E Pressure Test \$195.406(a)(3)
☐ Excepted Component Pressure Test \$195.406(a)(4)
☐ Four Hour Test or Operation \$195.406(a)(5)
☐ Other: describe:

E2c. Was the MOP established in conjunction with a reversal of flow direction? ☐ Yes ☐ No ☐ Bi-Directional

If E2c = Yes, E2d. What is the date of the most recent surge analysis performed at the point of the Accident? _____

E3. Describe the pressure on the system or facility relating to the Accident: *(calculated)*

- ☐ Pressure did not exceed MOP
☐ Pressure exceeded MOP, but did not exceed 110% of MOP
☐ Pressure exceeded 110% of MOP

E4. 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?

- ☐ No
☐ Yes ⇨ *(Complete 4.a and 4.b below)*

E4a. Did the pressure exceed this established pressure restriction? ☐ Yes ☐ No

E4b. Was this pressure restriction mandated by PHMSA or the State? ☐ PHMSA ☐ State ☐ Not mandated

If A14. is "Onshore Pipeline, Including Valve Sites" OR "Offshore Pipeline, Including Riser and Riser Bend", complete E5 through E7

E5. Answer E5 only when both A23a and A23d are Valve Closure

Length of segment initially isolated between valves (ft): / / /

E6. Is the pipeline configured to accommodate internal inspection tools?

- ☐ Yes
☐ No ⇨ Which physical features limit tool accommodation? *(select all that apply)*
- ☐ Changes in line pipe diameter
 - ☐ Presence of unsuitable mainline valves
 - ☐ Tight or mitered pipe bends
 - ☐ Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.)
 - ☐ Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools)
 - ☐ Other ⇨ Describe: _____

E7. For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run?

- ☐ No
☐ Yes ⇨ Which operational factors complicate execution? *(select all that apply)*
- ☐ Excessive debris or scale, wax, or other wall build-up
 - ☐ Low operating pressure(s)
 - ☐ Low flow or absence of flow
 - ☐ Incompatible commodity
 - ☐ Other ⇨ Describe: _____

E8. Function of pipeline system: *(select only one)*

- ☐ > 20% SMYS Regulated Transmission ☐ > 20% SMYS Regulated Gathering
☐ ≤ 20% SMYS Regulated Transmission ☐ ≤ 20% SMYS Regulated Gathering

E9. Was a Supervisory Control and Data Acquisition (SCADA)-based system in place on the pipeline or facility involved in the Accident?

- ☐ No
☐ Yes ⇨
- E9a. Was it operating at the time of the Accident? ☐ Yes ☐ No
- E9b. Was it fully functional at the time of the Accident? ☐ Yes ☐ No
- E9c. Did SCADA-based information (such as alarm(s), alert(s), event(s), and/or volume calculations) assist with the initial indication of the Accident? ☐ Yes ☐ No
- E9d. Did SCADA-based information (such as alarm(s), alert(s), event(s), and/or volume calculations) assist with the confirmed discovery of the Accident? ☐ Yes ☐ No

E10. Was a CPM leak detection system in place on the pipeline or facility involved in the Accident?

- ☐ No
☐ Yes ⇨
- E10a. Was it operating at the time of the Accident? ☐ Yes ☐ No
- E10b. Was it fully functional at the time of the Accident? ☐ Yes ☐ No
- E10c. Did CPM leak detection system information (such as alarm(s), alert(s), event(s), and/or volume calculations) assist with the initial indication of the Accident? ☐ Yes ☐ No
- E10d. Did CPM leak detection system information (such as alarm(s), alert(s), event(s), and/or volume calculations) assist with the confirmed discovery of the Accident? ☐ Yes ☐ No

E11. Was an investigation initiated into whether or not the controller(s) or control room issues were the cause of or a contributing factor to the Accident?
(select only one)

- ☐ Yes, but the investigation of the control room and/or controller actions has not yet been completed by the Operator (Supplemental Report required)
- ☐ No, the facility was not monitored by a controller(s) at the time of the Accident
- ☐ No, the Operator did not find that an investigation of the controller(s) actions or control room issues was necessary due to: (provide an explanation for why the Operator did not investigate)
-
-

☐ Yes, specify investigation result(s): (select all that apply)

- ☐ Investigation reviewed work schedule rotations, continuous hours of service (while working for the Operator) and other factors associated with fatigue
- ☐ Investigation did NOT review work schedule rotations, continuous hours of service (while working for the Operator) and other factors associated with fatigue (provide an explanation for why not)
-
-

- ☐ Investigation identified no control room issues
- ☐ Investigation identified no controller issues
- ☐ Investigation identified incorrect controller action or controller error
- ☐ Investigation identified that fatigue may have affected the controller(s) involved or impacted the involved controller(s) response
- ☐ Investigation identified incorrect procedures
- ☐ Investigation identified incorrect control room equipment operation
- ☐ Investigation identified maintenance activities that affected control room operations, procedures, and/or controller response
- ☐ Investigation identified areas other than those above ⇨ Describe: _____

PART F – DRUG & ALCOHOL TESTING INFORMATION

F1. As a result of this Accident, were any Operator employees tested under the post-accident drug and alcohol testing requirements of DOT's Drug & Alcohol Testing regulations?

- ☐ No
- ☐ Yes ⇨ F1a. Specify how many were tested: / / /
- F1b. Specify how many failed: / / /

F2. 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?

- ☐ No
- ☐ Yes ⇨ F2a. Specify how many were tested: / / /
- F2b. Specify how many failed: / / /

PART G – APPARENT CAUSE

Select only one box from PART G in the shaded column on the left representing the APPARENT Cause of the Accident, and answer the questions on the right. Describe secondary, contributing, or root causes of the Accident in the narrative (PART H).

G1 - Corrosion Failure – *only one **sub-cause** can be picked from shaded left-hand column

☐ **External Corrosion**

1. Results of visual examination:
☐ Localized Pitting ☐ General Corrosion
☐ Other _____
2. Type of corrosion: *(select all that apply)*
☐ Galvanic ☐ Atmospheric ☐ Stray Current ☐ Microbiological ☐ Selective Seam
☐ Other _____
- 2a. If 2 is Stray Current, specify ☐ Alternating Current ☐ Direct Current AND
- 2b. Describe the stray current source: _____
3. The type(s) of corrosion selected in Question 2 is based on the following: *(select all that apply)*
☐ Field examination ☐ Determined by metallurgical analysis
☐ Other _____
4. Was the failed item buried or submerged?
☐ Yes ⇨ 4a. Was failed item considered to be under cathodic protection at the time of the Accident?
 ☐ Yes ⇨ Year protection started: / / / / /
 ☐ No

 4b. Was shielding, tenting, or disbonding of coating evident at the point of the Accident?
 ☐ Yes ☐ No

 4c. Has one or more Cathodic Protection Survey been conducted at the point of the Accident? *(select all that apply)*
 ☐ Yes, CP Annual Survey ⇨ Most recent year conducted: / / / /
 ☐ Yes, Close Interval Survey ⇨ Most recent year conducted: / / / /
 ☐ Yes, Other CP Survey ⇨ Most recent year conducted: / / / /
 Describe other CP survey: _____
 ☐ No

 ☐ No ⇨ 4d. Was the failed item externally coated or painted? ☐ Yes ☐ No
5. Was there observable damage to the coating or paint in the vicinity of the corrosion?
☐ Yes ☐ No ☐ N/A Bare/Ineffectively Coated Pipe

☐ **Internal Corrosion**

6. Results of visual examination:
☐ Localized Pitting ☐ General Corrosion ☐ Not cut open
☐ Other _____
7. Cause of corrosion: *(select all that apply)*
☐ Corrosive Commodity ☐ Water drop-out/Acid ☐ Microbiological ☐ Erosion
☐ Other _____
8. The cause(s) of corrosion selected in Question 7 is based on the following: *(select all that apply)*
☐ Field examination ☐ Determined by metallurgical analysis
☐ Other _____
9. Location of corrosion: *(select all that apply)*
☐ Low point in pipe ☐ Elbow ☐ Dead-Leg ☐ Other _____
10. Was the commodity treated with corrosion inhibitors or biocides? ☐ Yes ☐ No
11. Was the interior coated or lined with protective coating? ☐ Yes ☐ No
12. Were cleaning/dewatering pigs (or other operations) routinely utilized?
☐ Not applicable - Not mainline pipe ☐ Yes ☐ No
13. Were corrosion coupons routinely utilized?
☐ Not applicable - Not mainline pipe ☐ Yes ☐ No

G2 - Natural Force Damage - *only one sub-cause can be picked from shaded left-hand column	
<input type="checkbox"/> Earth Movement, NOT due to Heavy Rains/Floods	1. Specify: <input type="radio"/> Earthquake <input type="radio"/> Subsidence <input type="radio"/> Landslide <input type="radio"/> Other _____
<input type="checkbox"/> Heavy Rains/Floods	2. Specify: <input type="radio"/> Washout/Scouring <input type="radio"/> Flotation <input type="radio"/> Mudslide <input type="radio"/> Other _____
<input type="checkbox"/> Lightning	3. Specify: <input type="radio"/> Direct hit <input type="radio"/> Secondary impact such as resulting nearby fires
<input type="checkbox"/> Temperature	4. Specify: <input type="radio"/> Thermal Stress <input type="radio"/> Frost Heave <input type="radio"/> Frozen Components <input type="radio"/> Other _____
<input type="checkbox"/> High Winds	
<input type="checkbox"/> Tree/Vegetation Root	
<input type="checkbox"/> Snow/Ice impact or Accumulation	
<input type="checkbox"/> Other Natural Force Damage	5. Describe: _____

Complete the following if any Natural Force Damage sub-cause is selected.

6. Were the natural forces causing the Accident generated in conjunction with an extreme weather event? ☐ Yes ☐ No
- 6a. If Yes, specify: (select all that apply) ☐ Hurricane ☐ Tropical Storm ☐ Tornado ☐ Other: _____

G3 – Excavation Damage - *only one sub-cause can be picked from shaded left-hand column	
<input type="checkbox"/> Excavation Damage by Operator (First Party)	
<input type="checkbox"/> Excavation Damage by Operator's Contractor (Second Party)	
<input type="checkbox"/> Excavation Damage by Third Party	
<input type="checkbox"/> Previous Damage due to Excavation Activity	

Complete the following if Excavation Damage by Third Party is selected as the sub-cause.

1. Did the Operator get prior notification of the excavation activity? ☐ Yes ☐ No
- 1a. If Yes, Notification received from: (select all that apply) ☐ One-Call System ☐ Excavator ☐ Contractor ☐ Landowner
- 1b. Per the primary Accident Investigator results, did State law exempt the excavator from notifying the one-call center?
☐ Yes ☐ No ☐ Unknown
- If yes, answer 1c through 1e.
- 1c. select one of the following:
☐ Excavator is exempt
☐ Activity is exempt and did not exceed the limits of the exemption
☐ Activity is exempt and exceeded the limits of the exemption
☐ Other mandatory text field: _____
- 1d. Exempting authority: _____
- 1e. Exempting criteria: _____

Complete the following mandatory CGA-DIRT Program questions if any Excavation Damage sub-cause is selected.

2. Do you want PHMSA to upload the following information to CGA-DIRT (www.cga-dirt.com)? ☐ Yes ☐ No
3. Right-of-Way where event occurred: (select all that apply)
- ☐ Public ➡ Specify: ☐ City Street ☐ State Highway ☐ County Road ☐ Interstate Highway ☐ Other
- ☐ Private ➡ Specify: ☐ Private Landowner ☐ Private Business ☐ Private Easement
- ☐ Pipeline Property/Easement ☐ Power/Transmission Line ☐ Railroad
- ☐ Dedicated Public Utility Easement ☐ Federal Land ☐ Unknown/Other
- 4 Was the facility part of a Joint Trench? ☐ Yes ☐ No

5. Did this event involve a Cross Bore? ☐ Yes ☐ No

6. Measured Depth from Grade (*select only one*)
☐ Embedded in Concrete/Asphalt Pavement ☐ <18 inches ☐ 18 – 36 inches ☐ > 36 inches
☐ Measured depth from grade _____ inches

7. Type of excavator: (*select only one*)
☐ Contractor ☐ County ☐ Developer ☐ Farmer ☐ Municipality ☐ Occupant
☐ Railroad ☐ State ☐ Utility ☐ Unknown/Other

8. Type of excavation equipment: (*select only one*)
☐ Auger ☐ Backhoe/Trackhoe ☐ Boring ☐ Drilling ☐ Directional Drilling
☐ Explosives ☐ Farm Equipment ☐ Grader/Scraper ☐ Hand Tools ☐ Milling Equipment
☐ Probing Device ☐ Trencher ☐ Vacuum Equipment ☐ Bulldozer ☐ Unknown/Other

9. Type of work performed: (*select only one*)
☐ Agriculture ☐ Cable TV ☐ Curb/Sidewalk ☐ Building Construction ☐ Building Demolition
☐ Drainage ☐ Driveway ☐ Electric ☐ Engineering/Surveying ☐ Fencing
☐ Grading ☐ Irrigation ☐ Landscaping ☐ Liquid Pipeline ☐ Milling
☐ Natural Gas ☐ Pole ☐ Public Transit Authority ☐ Railroad Maintenance ☐ Road Work
☐ Sewer (Sanitary/Storm) ☐ Site Development ☐ Steam ☐ Storm Drain/Culvert ☐ Street Light
☐ Telecommunications ☐ Traffic Signal ☐ Traffic Sign ☐ Water ☐ Waterway Improvement
☐ Data not collected ☐ Unknown/Other

10. Was the One-Call Center notified? ☐ Yes ☐ No If No, skip to question 11
10a. If Yes, specify ticket number: / _ / _ / _ / _ / _ / _ / _ / _ / _ / _ / _ / _ / _ / _ / _ /
10b. If this is a State where more than a single One-Call Center exists, list the name of the One-Call Center notified: _____
10c. Was work area white lined? ☐ No ☐ Yes ☐ Unknown

11. Type of Locator: ☐ Facility Owner ☐ Contract Locator ☐ Unknown/Other

12. Were facility locate marks visible in the area of excavation? ☐ No ☐ Yes ☐ Unknown

13. Did the damage cause an interruption in service? ☐ No ☐ Yes ☐ Unknown/Other
13a. If Yes, specify duration of the interruption: / __ / __ / __ / __ / hours

14. Description of the CGA-DIRT Root Cause (*select the predominant CGA-DIRT Root Cause from the list below*):

Notification Issue

☐ No notification made to the One-Call Center/811
☐ Excavator dug outside area described on ticket
☐ Excavator dug prior to valid start date/time
☐ Excavator dug after valid ticket expired
☐ Excavator provided incorrect notification information

Excavation Issue

☐ Excavator dug prior to verifying marks by test-hole (pothole)
☐ Excavator failed to maintain clearance after verifying marks
☐ Excavator failed to protect/shore/support facilities
☐ Improper backfilling practices
☐ Marks faded or not maintained
☐ Improper excavation practice not listed above

Locating Issue

☐ Facility not marked due to Abandoned facility
☐ Facility not marked due to Incorrect facility records/maps
☐ Facility not marked due to Locator error
☐ Facility not marked due to No response from operator/contract locator
☐ Facility not marked due to Tracer wire issue
☐ Facility not marked due to Unlocatable Facility
☐ Facility marked inaccurately due to Abandoned facility
☐ Facility marked inaccurately due to Incorrect facility records/maps
☐ Facility marked inaccurately due to Locator error
☐ Facility marked inaccurately due to Tracer wire issue

Miscellaneous Root Causes

☐ Deteriorated facility
☐ One Call Center Error
☐ Previous damage
☐ Root Cause not listed (comment required): _____

G4 - Other Outside Force Damage - *only one **sub-cause** can be picked from shaded left-hand column

<input type="checkbox"/> Nearby Industrial, Man-made, or Other Fire/Explosion as Primary Cause of Accident	
<input type="checkbox"/> Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation	1. Vehicle/Equipment operated by: (<i>select only one</i>) <input type="radio"/> Operator <input type="radio"/> Operator's Contractor <input type="radio"/> Third Party If this sub-section is picked, please complete questions 5-11 below
<input type="checkbox"/> Damage by Boats, Barges, Drilling Rigs, or Other Maritime Equipment or Vessels Set Adrift or Which Have Otherwise Lost Their Mooring	2. Select one or more of the following IF an extreme weather event was a factor: <input type="radio"/> Hurricane <input type="radio"/> Tropical Storm <input type="radio"/> Tornado <input type="radio"/> Heavy Rains/Flood <input type="radio"/> Other _____
<input type="checkbox"/> Routine or Normal Fishing or Other Maritime Activity NOT Engaged in Excavation	
<input type="checkbox"/> Electrical Arcing from Other Equipment or Facility	
<input type="checkbox"/> Previous Mechanical Damage NOT Related to Excavation	
<input type="checkbox"/> Intentional Damage	3. Specify: <input type="radio"/> Vandalism <input type="radio"/> Terrorism <input type="radio"/> Theft of transported commodity <input type="radio"/> Theft of equipment <input type="radio"/> Other _____
<input type="checkbox"/> Other Outside Force Damage	4. Describe: _____

Complete the following if Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation sub-cause is selected.

5. Was the driver of the vehicle or equipment issued one or more citations related to the accident? ☐ Yes ☐ No ☐ Unknown

If 5 is Yes, what was the nature of the citations (select all that apply)

5a. Excessive Speed

5b. Reckless Driving

5c. Driving Under the Influence

5e. Other, describe: _____

6. Was the driver under control of the vehicle at the time of the collision? ☐ Yes ☐ No ☐ Unknown

7. Estimated speed of the vehicle at the time of impact (miles per hour)? _____ or ☐ Unknown

8. Type of vehicle? (select only one) ☐ Motorcycle/ATV ☐ Passenger Car ☐ Small Truck ☐ Bus ☐ Large Truck

9. Where did the vehicle travel from to hit the pipeline facility? (select only one)

☐ Roadway ☐ Driveway ☐ Parking Lot ☐ Loading Dock ☐ Off-Road

10. Shortest distance from answer in 9. to the damaged pipeline facility (in feet): _____

11. At the time of the accident, were protections installed to protect the damaged pipeline facility from vehicular damage? ☐ Yes ☐ No

If 11 is Yes, specify type of protection (select all that apply):

11a. Bollards/Guard Posts

11b. Barricades – include Jersey barriers and fences in instructions

11c. Guard Rails

11d. Other, describe: _____

- ☐ Improper maintenance
- ☐ 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
- ☐ Erosion/Abnormal Wear
- ☐ Other _____

G7 - Incorrect Operation - *only one sub-cause can be picked from shaded left-hand column	
<input type="checkbox"/> Damage by Operator or Operator's Contractor NOT Related to Excavation and NOT due to Motorized Vehicle/Equipment Damage	
<input type="checkbox"/> Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill or Overflow	1. Specify: <input type="radio"/> Valve misalignment <input type="radio"/> Incorrect reference data/calculation <input type="radio"/> Miscommunication <input type="radio"/> Inadequate monitoring <input type="radio"/> Other _____
<input type="checkbox"/> Valve Left or Placed in Wrong Position, but NOT Resulting in a Tank, Vessel, or Sump/Separator Overflow or Facility Overpressure	
<input type="checkbox"/> Pipeline or Equipment Overpressured	
<input type="checkbox"/> Equipment Not Installed Properly	
<input type="checkbox"/> Wrong Equipment Specified or Installed	
<input type="checkbox"/> Other Incorrect Operation	2. Describe: _____

Complete the following if any Incorrect Operation sub-cause is selected.

3. Was this Accident related to: (*select all that apply*)

- ☐ Inadequate procedure
- ☐ No procedure established
- ☐ Failure to follow procedure
- ☐ Other: _____

4. What category type was the activity that caused the Accident:

- ☐ Construction
- ☐ Commissioning
- ☐ Decommissioning
- ☐ Right-of-Way activities
- ☐ Routine maintenance
- ☐ Other maintenance
- ☐ Normal operating conditions
- ☐ Non-routine operating conditions (abnormal operations or emergencies)

5. Was the task(s) that led to the Accident identified as a covered task in your Operator Qualification Program? ☐ Yes ☐ No

5a. If Yes, were the individuals performing the task(s) qualified for the task(s)?

- ☐ Yes, they were qualified for the task(s)
- ☐ No, but they were performing the task(s) under the direction and observation of a qualified individual
- ☐ No, they were not qualified for the task(s) nor were they performing the task(s) under the direction and observation of a qualified individual

G8 – Other Accident Cause - *only one **sub-cause** can be picked from shaded left-hand column☐ **Miscellaneous**

1. Describe: _____

☐ **Unknown**2. Specify: ☐ Investigation complete, cause of Accident unknown. Mandatory comment field: _____
☐ Still under investigation, cause of Accident to be determined* (*Supplemental Report required)**PART J – COMPLETED INTEGRITY INSPECTIONS**

Complete the following if the “Item Involved in Accident” (from PART C, Question 3) is Pipe or Weld and the “Cause” (from Part G) is:
Corrosion (any subCause in Part G1); or
Previous Damage due to Excavation Activity (subCause in Part G3); or
Previous Mechanical Damage NOT Related to Excavation (subCause in Part G4); or
Material Failure of Pipe or Weld (any subCause in Part G5)

J1. Have internal inspection tools collected data at the point of the Accident?

☐ Yes ☐ No

J1a. If Yes, for each tool and technology used provide the information below for the most recent and previous tool runs:

☐ **Axial Magnetic Flux Leakage**

Most recent run Year: _____

Most recent run Propulsion Method (select only one): ☐ Free Swimming ☐ TetheredMost recent run Attuned to Detect (select only one): ☐ Metal Loss ☐ Hard Spots ☐ Girth Weld Anomalies☐ Other Describe: _____If Metal Loss, specify (select only one): ☐ High Resolution ☐ Standard Resolution☐ Other Describe: _____

Previous run Year: _____

Previous run Propulsion Method (select only one): ☐ Free Swimming ☐ TetheredPrevious run Attuned to Detect (select only one): ☐ Metal Loss ☐ Hard Spots ☐ Girth Weld Anomalies☐ Other Describe: _____If Metal Loss, specify (select only one): ☐ High Resolution ☐ Standard Resolution☐ Other Describe: _____☐ **Circumferential/Transverse Wave Magnetic Flux Leakage**

Most recent run Year: _____

Most recent run Propulsion Method (select only one): ☐ Free Swimming ☐ TetheredMost recent run Resolution (select only one): ☐ High Resolution ☐ Standard Resolution☐ Other Describe: _____

Previous run Year: _____

Previous run Propulsion Method (select only one): ☐ Free Swimming ☐ TetheredPrevious run Resolution (select only one): ☐ High Resolution ☐ Standard Resolution☐ Other Describe: _____☐ **Ultrasonic**

Most recent run Year: _____

Most recent run Propulsion Method (select only one): ☐ Free Swimming ☐ TetheredMost recent run Attuned to (select only one) ☐ Wall Measurement ☐ Crack☐ Other Describe: _____

If Attuned to Wall Measurement, most recent run Metal Loss Resolution (select only one):

☐ Standard Resolution ☐ Other Describe: _____

Previous run Year: _____

Previous run Propulsion Method (select only one): ☐ Free Swimming ☐ TetheredMost recent run Attuned to (select only one) ☐ Wall Measurement ☐ Crack☐ Other Describe: _____

If Attuned to Wall Measurement, most recent run Metal Loss Resolution (select only one):

☐ Standard Resolution ☐ Other Describe: _____

- ☐ Geometry/Deformation
 Most recent run Year: _____
 Most recent run Propulsion Method (select only one): ☐ Free Swimming ☐ Tethered
 Most recent run Resolution (select only one): ☐ High Resolution ☐ Standard Resolution
☐ Other Describe: _____
 Most recent run Measurement Cups (select only one): ☐ Inside ILI Cups ☐ No Cups
 Previous run Year: _____
 Previous run Propulsion Method (select only one): ☐ Free Swimming ☐ Tethered
 Previous run Resolution (select only one): ☐ High Resolution ☐ Standard Resolution
☐ Other Describe: _____
 Previous run Measurement Cups (select only one): ☐ Inside ILI Cups ☐ No Cups
- ☐ Electromagnetic Acoustic Transducer (EMAT)
 Most recent run Year: _____
 Most recent run Propulsion Method (select only one): ☐ Free Swimming ☐ Tethered
 Previous run Year: _____
 Previous run Propulsion Method (select only one): ☐ Free Swimming ☐ Tethered
- ☐ Cathodic Protection Current Measurement (CPCM)
 Most recent run Year: _____
 Most recent run Propulsion Method (select only one): ☐ Free Swimming ☐ Tethered
 Previous run Year: _____
 Previous run Propulsion Method (select only one): ☐ Free Swimming ☐ Tethered
- ☐ Other, specify tool: _____
 Most recent run Year: _____
 Most recent run Propulsion Method (select only one): ☐ Free Swimming ☐ Tethered
 Previous run Year: _____
 Previous run Propulsion Method (select only one): ☐ Free Swimming ☐ Tethered

Answer J1.b only when the cause is:

Previous Damage due to Excavation Activity (subCause in Part G3); or

Previous Mechanical Damage NOT Related to Excavation (subCause in Part G4)

J1b. Do you have reason to believe that the internal inspection was completed BEFORE the damage was sustained? ☐ Yes ☐ No

J2. Has one or more hydrotest or other pressure test been conducted since original construction at the point of the Accident?
 (initial post construction pressure test is NOT reported here)

☐ Yes ➞ Most recent year tested: / / / / / Test pressure (psig): / / / / /
☐ No

J3. Has Direct Assessment been conducted on the pipeline segment?

☐ Yes, and an investigative dig was conducted at the point of the Accident ➞ Most recent year conducted: / / / / /
☐ Yes, but the point of the Accident was not identified as a dig site ➞ Most recent year conducted: / / / / /
☐ No

If J3 is Yes, J3a. For each type, indicate the year of the most recent assessment:

External Corrosion Direct Assessment (ECDA) / / / / /

Other, specify type: / / / / /

J4. Has one or more non-destructive examination been conducted prior to the Accident at the point of the Accident since January 1, 2002?

☐ Yes ☐ No

J4a. If Yes, for each examination conducted, select type of non-destructive examination and indicate most recent year the examination was conducted:

☐ Radiography / / / / /
☐ Guided Wave Ultrasonic / / / / /
☐ Handheld Ultrasonic Tool / / / / /
☐ Wet Magnetic Particle Test / / / / /
☐ Dry Magnetic Particle Test / / / / /
☐ Other, specify type / / / / /

PART K – CONTRIBUTING FACTORS

The Apparent Cause of the accident is contained in Part G. Do not report the Apparent Cause again in this Part K. If Contributing Factors were identified during a root cause analysis, select all that apply below and explain each in the Narrative:

External Corrosion

- ☐ External Corrosion, Galvanic
- ☐ External Corrosion, Atmospheric
- ☐ External Corrosion, Stray Current Induced
- ☐ External Corrosion, Microbiologically Induced
- ☐ External Corrosion, Selective Seam

Internal Corrosion

- ☐ Internal Corrosion, Corrosive Commodity
- ☐ Internal Corrosion, Water drop-out/Acid
- ☐ Internal Corrosion, Microbiological
- ☐ Internal Corrosion, Erosion

Natural Forces

- ☐ Earth Movement, NOT due to Heavy Rains/Floods
- ☐ Heavy Rains/Floods
- ☐ Lightning
- ☐ Temperature
- ☐ High Winds
- ☐ Tree/Vegetation Root

Excavation Damage

- ☐ Excavation Damage by Operator (First Party)
- ☐ Excavation Damage by Operator's Contractor (Second Party)
- ☐ Excavation Damage by Third Party
- ☐ Previous Damage due to Excavation Activity

Other Outside Force

- ☐ Nearby Industrial, Man-made, or Other Fire/Explosion
- ☐ Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation
- ☐ Damage by Boats, Barges, Drilling Rigs, or Other Adrift Maritime Equipment
- ☐ Routine or Normal Fishing or Other Maritime Activity NOT Engaged in Excavation
- ☐ Electrical Arcing from Other Equipment or Facility
- ☐ Previous Mechanical Damage NOT Related to Excavation
 - ☐ Intentional Damage

Pipe/Weld Failure

- ☐ Design-related
- ☐ Construction-related
- ☐ Installation-related
- ☐ Fabrication-related
- ☐ Original Manufacturing-related
- ☐ Environmental Cracking-related, Stress Corrosion Cracking
- ☐ Environmental Cracking-related, Sulfide Stress Cracking
- ☐ Environmental Cracking-related, Hydrogen Stress Cracking
- ☐ Environmental Cracking-related, Hard Spot

Equipment Failure

- ☐ Malfunction of Control/Relief Equipment
- ☐ Pump or Pump-related Equipment
- ☐ Threaded Connection/Coupling Failure
- ☐ Non-threaded Connection Failure
- ☐ Defective or Loose Tubing or Fitting
- ☐ Failure of Equipment Body (except Compressor), Vessel Plate, or other Material

Incorrect Operation

- ☐ Damage by Operator or Operator's Contractor NOT Excavation and NOT Vehicle/Equipment Damage
- ☐ Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill or Overflow
- ☐ Valve Left or Placed in Wrong Position, but NOT Resulting in Overpressure
- ☐ Pipeline or Equipment Overpressured
- ☐ Equipment Not Installed Properly
- ☐ Wrong Equipment Specified or Installed
- ☐ Inadequate Procedure
- ☐ No procedure established
- ☐ Failure to follow procedures

[illegible]

Preparer's Name (type or print) _____

Preparer's Telephone Number

Preparer's Title (type or print)

Preparer's E-mail Address

Preparer's Facsimile Number

Local Contact Name: optional
Local Contact Email: optional
Local Contact Phone: optional

Authorized Signer's Name _____

Date	Authorized Signer Telephone Number
------	------------------------------------

Authorized Signer's Title

Authorized Signer's E-mail Address