

NOTICE: This report is required by 49 CFR Part 191. Failure to report can result in a civil penalty as provided in 49 USC 60122.		OMB NO: 2137-0635 EXPIRATION DATE: 4/30/2022
 <p>U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration</p>	INCIDENT REPORT – GAS DISTRIBUTION SYSTEM	Report Date <u>REPORT_RECEIVED_DATE</u> REPORT_NUMBER No. <u>SUPPLEMENTAL_NUMBER</u> <small>(DOT Use Only)</small>
<p>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 2137-0635. Public reporting for this collection of information is estimated to be approximately 12 hours per response, 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.</p>		
INSTRUCTIONS		
<p>Important: Please read the separate instructions for completing this form before you begin. They clarify the information requested and provide specific examples. If you do not have a copy of the instructions, you can obtain one from the PHMSA Pipeline Safety Community Web Page at http://www.phmsa.dot.gov/pipeline/library/forms.</p>		
PART A – KEY REPORT INFORMATION	Report Type: (select all that apply) <input type="checkbox"/> Original <input type="checkbox"/> Supplemental <input type="checkbox"/> Final REPORT_TYPE	
<p>A1. Operator's OPS-issued Operator Identification Number (OPID): / / / / / / OPERATOR_ID</p> <p>A2. Name of Operator: _____ NAME</p> <p>A3. Address of Operator:</p> <p>A3a. _____ OPERATOR_STREET_ADDRESS <small>(Street Address)</small></p> <p>A3b. _____ OPERATOR_CITY_NAME <small>(City)</small></p> <p>A3c. State: auto-populated based on OPID / / / OPERATOR_STATE_ABBREVIATION</p> <p>A3d. Zip Code: auto-populated based on OPID / / / / / / - / / / / OPERATOR_POSTAL_CODE</p>		
<p>A4. Earliest local time (24-hr clock) and date an incident reporting criteria was met:</p> <div style="display: flex; align-items: center; justify-content: space-around;"> <div style="text-align: center;"> <u> </u>/<u> </u>/<u> </u> Hour Month Day Year </div> <div style="text-align: center;"> LOCAL_DATETIME TIME_ZONE </div> </div> <p>A4a. Time Zone for local time (select only one) <input type="radio"/> Alaska <input type="radio"/> Eastern <input type="radio"/> Central <input type="radio"/> Hawaii-Aleutian <input type="radio"/> Mountain <input type="radio"/> Pacific.</p> <p>A4b. Daylight Saving in effect? <input type="radio"/> Yes <input type="radio"/> No DAYLIGHT_SAVINGS_IND</p> <p>A5. Location of Incident:</p> <p>A5a. _____ LOCATION_STREET_ADDRESS (Street Address or location description)</p> <p>A5b. _____ LOCATION_CITY_NAME (City)</p> <p>A5c. _____ LOCATION_COUNTY_NAME (County or Parish)</p> <p>A5d. State: / / / LOCATION_STATE_ABBREVIATION</p> <p>A5e. Zip Code: / / / / / / - / / / / LOCATION_POSTAL_CODE</p> <p>A5f. Latitude: / / . / / / / / LOCATION_LATITUDE Longitude: - / / . / / / / / LOCATION_LONGITUDE</p>		

COMMODITY_RELEASED_TYPE

A6. Gas released : (select only one, based on predominant volume released)

- ☐ Natural Gas
☐ Propane Gas
☐ Synthetic Gas
☐ Hydrogen Gas
☐ Landfill Gas
☐ Other Gas ➡ *Name: **COMMODITY_DETAILS**

A7. Estimated volume of gas released unintentionally: **UNINTENTIONAL_RELEASE** / / / / / thousand standard cubic feet (mcf)A8. Estimated volume of intentional and controlled release/blowdown: **INTENTIONAL_RELEASE** / / / / / thousand standard cubic feet (mcf)A9. Were there fatalities? ☐ Yes ☐ No **FATALITY_IND**

If Yes, specify the number in each category:

- A9a. Operator employees **NUM_EMP_FATALITIES** / / / / /
A9b. Contractor employees **NUM_CONTR_FATALITIES** / / / / /
A9c. Non-Operator **NUM_ER_FATALITIES** / / / / /
A9d. Workers working on the **NUM_WORKER_FATALITIES** / / / / /
right-of-way, but NOT associated with this Operator
NUM_GP_FATALITIES
A9e. General public / / / / /
A9f. Total fatalities (sum of above) **calculated FATAL**

A10. Were there injuries requiring inpatient hospitalization? ☐ Yes ☐ No **INJURY_IND**

If Yes, specify the number in each category:

- A10a. Operator employees **NUM_EMP_INJURIES** / / / / /
A10b. Contractor employees **NUM_CONTR_INJURIES** / / / / /
A10c. Non-Operator **NUM_ER_INJURIES** / / / / /
A10d. Workers working on the **NUM_WORKER_INJURIE** / / / / /
right-of-way, but NOT associated with this Operator
NUM_GP_INJURIES
A10e. General public / / / / /
A10f. Total injuries (sum of above) **calculated INJURE**

A11. What was the Operator's initial indication of the Failure? (select only one) **ACCIDENT_IDENTIFIER**

- ☐ SCADA-based information (such as alarm(s), alert(s), event(s), and/or volume or pack calculations)
☐ Static Shut-in Test or Other Pressure or Leak Test
☐ Controller
☐ Air Patrol
☐ Notification from Public
☐ Notification from Third Party that caused the Incident
☐ Local Operating Personnel, including contractors
☐ Ground Patrol by Operator or its contractor
☐ Notification from Emergency Responder
☐ Other **ACCIDENT_DETAILS**

A11a. If "Controller", "Local Operating Personnel, including contractors", "Air Patrol", or "Ground Patrol by Operator or its contractor" is selected in Question A11, specify the following: (select only one) **OPERATOR_TYPE**

- ☐ Operator employee
☐ Contractor working for the Operator

A12. Local time operator identified failure **INCIDENT_IDENTIFIED_DATETIME** / / / / /
Hour Month Day YearIf A11 = Notification from Emergency Responder, skip questions A13 through A15. **COMMUNICATION_STATE_FED_IND**A13. Did the operator communicate with Local, State, or Federal Emergency Responders about the incident? ☐ Yes ☐ NoIf No, skip A14 and A15 **PARTY_INITIATED_COMMUNICATION**A14. Which party initiated communication about the incident? ☐ Operator ☐ Local/State/Federal Emergency ResponderA15. Local time of initial Operator and Local/State/Federal Emergency Responder communication **INITIAL_RESPONDER_COM_DATETIME** / / / / /
Hour Month Day YearA16. Local time operator resources arrived on site **ON_SITE_DATETIME** / / / / /
Hour Month Day Year

A17. reserved

A18. Local time (24-hr clock) and date of initial operator report to the National Response Center:

/ / / / / **NRC_RPT_DATETIME**
Hour Month Day Year**NRC_RPT_NUM**

A19. Initial Operator National Response Center Report Number OR

☐ NRC Notification Required But Not MadeA19a. Additional NRC Report numbers submitted by the operator: **ADDITIONAL_NRC_REPORT_NUMBERS**

A20. Method of Flow Control (select all that apply)

- ☐ "Key/Critical" Valve – inspected in accordance with Part 192.747 **FLOW_CONT_KEY_CRIT_IND**
☐ Main Valve other than "Key/Critical" **FLOW_CONT_MAIN_VALVE_IND**
☐ Service (curb) Valve **FLOW_CONT_SERVICE_VALVE_IND**
☐ Meter/Regulator shut-off Valve **FLOW_CONT_METER_REG_IND**
☐ Excess flow valve **FLOW_CONT_EXCESS_FLOW_IND**
☐ Squeeze-Off **FLOW_CONT_SQUEEZE_OFF_IND**
☐ Stopple fitting **FLOW_CONT_STOPPLE_FITNG_IND**
☐ Other – mandatory text field **FLOW_CONT_OTHER_IND** **FLOW_CONT_OTHER_DETAIL**

A21. Did the gas ignite? ☐ Yes ☐ No **IGNITE_IND**

If A21 = Yes, answer A21a through A21d.

A21a. Local time of ignition **IGNITE_DATETIME**
____/____/____
Hour Month Day Year

A21b. How was the fire extinguished? **HOW_EXTINGUISHED** **HOW_EXTINGUISHED_OTHER_DETAIL**
☐ Operator/Contractor ☐ Local/State/Federal Emergency Responder ☐ Allowed to burn out ☐ Other, specify: _____

GAS_CONSUMED_BY_FIRE_IN_MCF
A21c. Estimated volume of gas consumed by fire (MCF): _____ (must be less than or equal to A7.)

A21d. Did the gas explode? ☐ Yes ☐ No **EXPLODE_IND**

A22. Number of general public evacuated: ____/____/____/____/____/____ **NUM_PUB_EVACUATED**

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C1. Indicate the type of pipeline system: **PIPE_FACILITY_TYPE**

- ☐ Other ⇒ Specify: PIPE_TYPE_OTHER

SYSTEM PART INVOLVED

C2. Part of system involved in Incident: *(select only one)*

- ☐ Main ☐ Main Valve ☐ Service ☐ Service Valve ☐ Service Riser ☐ Outside Meter/Regulator set ☐ Inside Meter/Regulator set
☐ Farm Tap Meter/Regulator set ☐ District Regulator/Metering Station ☐ Other *mandatory text field* **SYSTEM_PART_DETAILS**

C2a. Year item involved in the incident was installed: / / / / or ☐ Unknown

MANUFACTURED_YEAR

C2b. Year item involved in the incident was manufactured: / / / / or ☐ Unknown

When C2.is any value other than "Main", "Main Valve", "District Regulator/Metering Station", or "Other": **CUSTOMER_TYPE**

C2c. Indicate the customer type: (*select only one*) ☐ Single Family Residential ☐ Multi-Family Residential

☐ Non-Residential with Meter capacity less than 1,000 scfh ☐ Non-Residential with Meter Capacity 1,000 scfh of higher

C2d. Was an EFV installed on the service line before the time of the incident? ☐ Yes ☒ No **WAS EFV INSTALLED BEFORE IND**

If C2d = Yes, then C2e. Did the EFV activate? ☐ Yes ☐ No ☐ Unable to determine **EFV ACTIVATION IND**

C2f. Was a curb valve installed on the service line before the time of the incident? ☐ Yes ☐ No
CURB VALVE INST BEFORE INC IND

C3. When C2. is "Main" or "Service" answer C3a through c and C4:

C3a. Nominal Pipe Size: / / / / / / **PIPE_DIAMETER**

C3b. Pipe specification (e.g., API 5L, ASTM D2513): **PIPE_SPECIFICATION** OR ☐ Unknown

C3c. Pipe manufacturer: **PIPE_MANUFACTURER** or ☐ Unknown

MATERIAL_INVOLVED

C4. Material involved in Incident: ☐ Steel ☐ Cast/Wrought Iron ☐ Ductile Iron ☐ Copper ☐ Plastic
☐ Reconditioned Cast Iron ☐ Unknown ☐ Other **MATERIAL_DETAILS**

C4a. If Steel \Rightarrow Specify seam type: **STEEL SEAM TYPE**

☐ Longitudinal ERW - High Frequency ☐ Single SAW ☐ Flash Welded ☐ DSAW ☐ Longitudinal ERW - Low Frequency
☐ Continuous Welded ☐ Furnace Butt Welded ☐ Longitudinal ERW – Unknown Frequency ☐ Spiral Welded ☐ Lap Welded
☐ Seamless ☐ Other ➡ Specify: **STEEL_SEAM_TYPE_DETAILS**

WT STEEL

C4b. If Steel \Rightarrow Specify wall thickness (inches): 1 1/4 / 1 / 1 / 1 or ☐ Unknown

PLASTIC TYPE

C4c. If Plastic ⇒ Specify type: ☐ Polyvinyl Chloride (PVC) ☐ Polyethylene (PE) ☐ Cross-linked Polyethylene (PEX)
☐ Polybutylene (PB) ☐ Polypropylene (PP) ☐ Acrylonitrile Butadiene Styrene (ABS)
☐ Polyamide (PA) ☐ Cellulose Acetate Butyrate (CAB)
☐ Other ⇒ Specify: PLASTIC_DETAILS
☐ Unknown

PLASTIC_SDR

WT_PLASTIC

C4d. If Plastic \Rightarrow Specify Standard Dimension Ratio (SDR): or wall thickness: or ☐ Unknown

C4e. If Polyethylene (PE) is selected as the type of plastic in PART C, Question 4.c ⇒ **MATERIAL_PE_PIPE_CODE**
Specify PE Pipe Material Designation Code (i.e., 2406, 3408, etc.) PE / / / / / or ○ Unknown

RELEASE TYPE

C5. Type of release involved: (select only one)

PUNCTURE AXIAL

PUNCTURE CIRCUM

☐ Mechanical Puncture \Rightarrow Approx. size: / / / / 7 / / in. (axial) by / / / / 7 / / in. (circumferential)

LEAK TYPE

☐ Leak ➡ Select Type: ☐ Pinhole ☐ Crack ☐ Connection Failure ☐ Seal or Packing ☐ Other

RUPTURE ORIENT

☐ Rupture Select Orientation: ☐ Circumferential ☐ Longitudinal ☐ Other RUPTURE_DETAILS

RUPTURE LENGTH

RUPTURE WIDTH

Approx. size: / / / / / in. (widest opening) by / / / / / in. (length circumferentially or axially)

☐ Other *Describe: **RELEASE_TYPE_DETAIL**

PART D – ADDITIONAL CONSEQUENCE INFORMATIOND1. Class Location of Incident: (select only one) **CLASS_LOCATION_TYPE**

- ☐ Class 1 Location
☐ Class 2 Location
☐ Class 3 Location
☐ Class 4 Location

D2. Estimated Property Damage :

D2a. Estimated cost of public and non-Operator private property damage \$ **EST_COST_OPER_PAID**D2b. Estimated cost of Operator's property damage & repairs \$ **EST_COST_PROP_DAMAGE**D2c. Estimated cost of emergency response \$ **EST_COST_EMERGENCY**D2d. Estimated other costs \$ **EST_COST_OTHER**Describe: **EST_COST_OTHER_DETAILS**D2e. Total estimated property damage (sum of above) \$ *calculated*

Cost of Gas Released

Cost of Gas in \$ per thousand standard cubic feet (mcf): **GAS_COST_IN_MCF**D2f. Estimated cost of gas released unintentionally **EST_COST_UNINTENTIONAL_RELEASE** \$ *calculated*D2g. Estimated cost of gas released intentionally during controlled release/blowdown **EST_COST_INTENTIONAL_RELEASE** \$ *calculated*D2h. Total estimated cost of gas released (sum of D2f and g) \$ *calculated*D2i. Estimated Total Cost (sum of D2e and D2h) **TOTAL_COST** \$ *calculated*

D3. Estimated number of customers out of service:

D3a. Commercial entities **COMMERCIAL_AFFECTED** D3b. Industrial entities **INDUSTRIAL_AFFECTED** D3c. Residences **RESIDENCES_AFFECTED**

Injured Persons not included in A10 The number of persons injured, admitted to a hospital, and remaining in the hospital for at least one overnight are reported in A10. **If a person is included in A10, do not include them in D4.**

D4. Estimated number of persons with injuries requiring treatment in a medical facility but not requiring overnight in-patient hospitalization: **NUM_PERSONS_HOSP_NOT_OVNIGHT****If a person is included in D4, do not include them in D5.**D5. Estimated number of persons with injuries requiring treatment by EMTs at the site of incident: **NUM_INJURED_TREATED_BY_EMT****Buildings Affected**D6. Number of residential buildings affected (evacuated or required repair or had gas service interrupted): **NUM_RESIDENT_BUILDING_AFFCTD**D7. Number of business buildings affected (evacuated or required repair or had gas service interrupted): **NUM_BUSINESS_BUILDING_AFFCTD**

PART E – ADDITIONAL OPERATING INFORMATIONE1. Estimated pressure at the point and time of the Incident (psig): / / / / **ACCIDENT_PSIG**E2. Normal operating pressure at the point and time of the Incident (psig): / / / / **NORMAL_PSIG**E3. Maximum Allowable Operating Pressure (MAOP) at the point and time of the Incident (psig): / / / / **MOP_PSIG**E3a. MAOP established by 49 CFR section: **MOP_CFR_SECTION**☐ 192.619 (a)(1) ☐ 192.619 (a)(2) ☐ 192.619 (a)(3) ☐ 192.619 (a)(4) ☐ 192.619 (c)☐ 192.621 m ☐ 192.623**MAOP_ESTABLISHED_DATE**E3b. Date MAOP established: / /
Month Day Year**ACCIDENT_PRESSURE**E4. Describe the pressure on the system relating to the Incident: *(select only one)*☐ Pressure did not exceed MAOP☐ Pressure exceeded MAOP, but did not exceed the applicable allowance in §192.201☐ Pressure exceeded the applicable allowance in §192.201**GAS_ODORIZED_SYSTEM_TYPE**

E5. Type of odorization system for gas at the point of failure:

☐ none ☐ drip ☐ injection pump ☐ by-pass ☐ wick☐ combination of odorization types ☐ odorized by others ☐ Other, specify: **GAS_ODORIZED_SYS_OTHER_DETAIL****GAS_ODORIZED_LEVEL**E6. Odorant level near the point of failure measured after the failure: %LEL OR ☐ Not Measured **GAS_ODORIZED_LVL_NOT_MSRD_IND**

E7. Was a Supervisory Control and Data Acquisition (SCADA)-based system in place on the pipeline or facility involved in the Incident?

☐ No **SCADA_IN_PLACE_IND**☐ Yes ➡ E7a. Was it operating at the time of the Incident? ☐ Yes ☐ No **SCADA_OPERATING_IND**E7b. Was it fully functional at the time of the Incident? ☐ Yes ☐ No **SCADA_FUNCTIONAL_IND**E7c. Did SCADA-based information (such as alarm(s), alert(s), event(s), and/or volume or pack calculations) assist with the initial indication of the Incident? ☐ Yes ☐ No **SCADA_DETECTION_IND**E7d. Did SCADA-based information (such as alarm(s), alert(s), event(s), and/or volume calculations) assist with the confirmed discovery of the Incident? ☐ Yes ☐ No **SCADA_CONF_IND**E8. 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 Incident? *(select only one)* **INVESTIGATION_STATUS**☐ 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 Incident☐ 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)* **INVESTIGATION_STATUS_DETAILS**☐ Yes, Specify investigation result(s): *(select all that apply)* **INVEST_SCHEDULE_IND**☐ Investigation reviewed work schedule rotations, continuous hours of service (while working for the Operator) and other factors associated with fatigue **INVEST_NO_SCHEDULE_IND**☐ 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)* **INVEST_NO_SCHEDULE_IND_DETAILS**☐ Investigation identified no control room issues **INVEST_NO_CONTROL_ROOM_IND**☐ Investigation identified no controller issues **INVEST_NO_CONTROLLER_IND**☐ Investigation identified incorrect controller action or controller error **INVEST_INCORRECT_ACTION_IND**☐ Investigation identified that fatigue may have affected the controller(s) involved or impacted the involved controller(s) response **INVEST_FATIGUE_IND**☐ Investigation identified incorrect procedures **INVEST_INCORRECT_PROCEDURE_IND**☐ Investigation identified incorrect control room equipment operation **INVEST_INCORRECT_CONTROL_IND**☐ Investigation identified maintenance activities that affected control room operations, procedures, and/or controller response **INVEST_MAINT_IND**☐ Investigation identified areas other than those above ➡ Describe: **INVEST_OTHER_IND****INVEST_OTHER_IND_DETAILS**

PART F – DRUG & ALCOHOL TESTING INFORMATION

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

☐ No

☐ Yes ➡ F1a. Specify how many were tested: / / **NUM_EMPLOYEES_TESTED**

F1b. Specify how many failed: / / **NUM_EMPLOYEES_FAILED**

F2. As a result of this Incident, were any Operator contractor employees tested under the post-accident drug and alcohol testing requirements of DOT's Drug & Alcohol Testing regulations? **CONTRACTOR_DRUG_TEST_IND**

☐ No

☐ Yes ➡ F2a. Specify how many were tested: / / **NUM_CONTRACTORS_TESTED**

F2b. Specify how many failed: / / **NUM_CONTRACTORS_FAILED**

PART G – APPARENT CAUSE CAUSE CAUSE_DETAILS	Select only one box from PART G in the shaded column on the left representing the APPARENT Cause of the Incident, and answer the questions on the right. Enter secondary, contributing, or root causes of the Incident in Part J – Contributing Factors.
G1 – Corrosion Failure – only one sub-cause can be picked from shaded left-hand column INTERNAL_EXTERNAL	
<input type="checkbox"/> External Corrosion	<div style="color: red; font-weight: bold;">VISUAL_EXAM_RESULTS</div> 1. Results of visual examination: <input type="radio"/> Localized Pitting <input type="radio"/> General Corrosion <input type="radio"/> Other VISUAL_EXAM_DETAILS <hr/> 2. Type of corrosion: (select all that apply) <div style="color: red; font-weight: bold;">GALVANIC_CORROSION_IND, ATMOSPHERE_CORROSION_IND, STRAY_CURRENT_CORROSION_IND, MICROBIOLOGICAL_CORROSION_IND, SELECTIVE_SEAM_CORROSION_IND</div> <input type="radio"/> Galvanic <input type="radio"/> Atmospheric <input type="radio"/> Stray Current <input type="radio"/> Microbiological <input type="radio"/> Selective Seam <input type="radio"/> Other OTHER_CORROSION_IND CORROSION_TYPE_DETAILS <hr/> <div style="color: red; font-weight: bold;">STRAY_CURRENT_TYPE</div> 2a. If 2. is Stray Current, specify <input type="radio"/> Alternating Current <input type="radio"/> Direct Current AND 2b. Describe the stray current source: STRAY_CURRENT_DETAILS <hr/> 3. The type(s) of corrosion selected in Question 2 is based on the following: (select all that apply) FIELD_EXAM_BASIS_IND METALLURGICAL_BASIS_IND <input type="radio"/> Field examination <input type="radio"/> Determined by metallurgical analysis <input type="radio"/> Other OTHER_BASIS_IND CORROSION_BASIS_DETAILS <hr/> 4. Was the failed item buried or submerged? UNDERGROUND_LOCATION <input type="radio"/> Yes ⇨ 4a. Was failed item considered to be under cathodic protection at the time of the incident? UNDER_CATHODIC_PROTECTION_IND <input type="radio"/> Yes ⇨ Year protection started: <u> </u> / <u> </u> / <u> </u> / <u> </u> / <u> </u> <input type="radio"/> No CATHODIC_PRO_START_YEAR <div style="color: red; font-weight: bold;">SHIELDING_EVIDENT</div> 4b. Was shielding, tenting, or disbonding of coating evident at the point of the incident? <input type="radio"/> Yes <input type="radio"/> No <div style="color: red; font-weight: bold;">CATHODIC_SURVEY_TYPE</div> 4c. Has one or more Cathodic Protection Survey been conducted at the point of the incident? (select all that apply) <div style="color: red; font-weight: bold;">CP_ANNUAL_SURVEY_IND CP_ANNUAL_SURVEY_YEAR</div> <input type="radio"/> Yes, CP Annual Survey ⇨ Most recent year conducted: <u> </u> / <u> </u> / <u> </u> / <u> </u> / <u> </u> <div style="color: red; font-weight: bold;">CLOSE_INTERVAL_SURVEY_IND CLOSE_INTERVAL_SURVEY_YEAR</div> <input type="radio"/> Yes, Close Interval Survey ⇨ Most recent year conducted: <u> </u> / <u> </u> / <u> </u> / <u> </u> / <u> </u> <div style="color: red; font-weight: bold;">OTHER_CP_SURVEY_IND OTHER_CP_SURVEY_YEAR</div> <input type="radio"/> Yes, Other CP Survey ⇨ Most recent year conducted: <u> </u> / <u> </u> / <u> </u> / <u> </u> / <u> </u> Describe Other CP Survey: OTHER_CP_SURVEY_DETAILS <input type="radio"/> No <div style="color: red; font-weight: bold;">EXTERNALLY_COATED</div> <input type="radio"/> No ⇨ 4d. Was the failed item externally coated or painted? <input type="radio"/> Yes <input type="radio"/> No <div style="color: red; font-weight: bold;">PRIOR_DAMAGE</div> 5. Was there observable damage to the coating or paint in the vicinity of the corrosion? <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A Bare/Ineffectively Coated Pipe 6. Pipeline coating type, if steel pipe is involved: (select only one) COATING_TYPE <input type="radio"/> Epoxy <input type="radio"/> Coal Tar <input type="radio"/> Asphalt <input type="radio"/> Polyolefin <input type="radio"/> Extruded Polyethylene <input type="radio"/> Cold Applied Tape <input type="radio"/> Paint <input type="radio"/> Composite <input type="radio"/> None <input type="radio"/> Other COATING_TYPE_DETAILS <input type="radio"/> Unknown 6a. Field Applied? Y, N, or Unknown FIELD_APPLIED_IND

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PARTY_TYPE

<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	<p>Complete the following ONLY IF the "Part of system involved in Incident" (from PART C, Question 2) is Main, Service, or Service Riser.</p> <p style="text-align: right;">EX_HYDROTEST_LEAK_SURVEY_DATE</p> <p>1. Date of the most recent Leak Survey conducted: <u> </u>/<u> </u>/<u> </u> <u> </u>/<u> </u>/<u> </u> <u> </u>/<u> </u>/<u> </u> Month Day Year</p> <p style="text-align: center;">EX_HYDROTEST_CONDUCTED_IND</p> <p>2. Has one or more pressure test been conducted since original construction at the point of the Incident?</p> <p style="text-align: center;">EX_HYDROTEST_CONDUCTED_YEAR</p> <div style="display: flex; align-items: center;"> <input type="radio"/> Yes ⇨ Most recent year tested: <u> </u>/<u> </u>/<u> </u>/<u> </u>/<u> </u>/<u> </u> </div> <div style="display: flex; align-items: center; margin-top: 10px;"> <div style="flex-grow: 1;"></div> Test pressure (psig): <u> </u>/<u> </u>/<u> </u>/<u> </u>/<u> </u>/<u> </u> </div> <div style="display: flex; justify-content: flex-end; margin-top: 10px;"> EX_HYDROTEST_PRESSURE </div>

Complete the following if Excavation Damage by Third Party is selected.

PRIOR_NOTIFICATION_IND

3. Did the operator get prior notification of the excavation activity? ☐ Yes ☐ No

ONE_CALL_SYSTEM_IND EXCAVATOR_IND CONTRACTOR_IND LANDOWNER_IND

3a. If Yes, Notification received from: (select all that apply) ☐ One-Call System ☐ Excavator ☐ Contractor ☐ Landowner

3b. Per the primary Incident Investigator report, did State law exempt the excavator from notifying the one-call center? ☐ Yes ☐ No ☐ Unknown

STATE_LAW_EXEMPT_IND

If yes, answer 3c through 3e. **STATE_LAW_EXEMPT_TYPE**

3c. (select only one)

☐ 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: **STATE_LAW_EXEMPT_DETAIL**

3d. Exempting Authority: STATE_LAW_EXEMPT_AUTHORITY

3e. Exempting Criteria: **STATE_LAW_EXEMPT_CRITERIA**

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

4. Do you want PHMSA to upload the following information to CGA-DIRT (www.cga-dirt.com)? ☐ Yes ☐ No **NOTIFY_CGA_DIRT**

5. Right-of-Way where event occurred: *(select all that apply)*

PUBLIC_ROW_IND PUBLIC SUBTYPE

☐ Public ☒ Private ☐ Specify: ☐ City Street ☐ State Highway ☐ County Road ☐ Interstate Highway ☐ Other

☐ Private ☒ Specify: ☐ Private Landowner ☐ Private Business ☐ Private Easement

☐ Pipeline Property/Easement **PIPELINE_EASEMENT_ROW_IND**

☐ Power/Transmission Line

☐ Railroad **RAILROAD ROW IND**☐ Dedicated Public Utility Easement **PUBLIC UTIL EASEMENT ROW IND**☐ Federal Land **FEDERAL LAND ROW IND**

☐ Data not collected **DATA NOT COLLECTED ROW_IND**

☐ Unknown/Other **UNKNOWN ROW IND**

6. Type of excavator: (select only one) **EXCAVATOR TYPE**

☐ Contractor ☐ County ☐ Developer ☐ Farmer ☐ Municipality ☐ Occupant
☐ Railroad ☐ State ☐ Utility ☐ Data not collected ☐ Unknown/Other

7. Type of excavation equipment: (select only one) **EXCAVATOR EQUIPMENT**

<input type="radio"/> Auger	<input type="radio"/> Backhoe/Trackhoe	<input type="radio"/> Boring	<input type="radio"/> Drilling	<input type="radio"/> Directional Drilling
<input type="radio"/> Explosives	<input type="radio"/> Farm Equipment	<input type="radio"/> Grader/Scraper	<input type="radio"/> Hand Tools	<input type="radio"/> Milling Equipment
<input type="radio"/> Probing Device	<input type="radio"/> Trencher	<input type="radio"/> Vacuum Equipment	<input type="radio"/> Data not collected	<input type="radio"/> Unknown/Other

8. Type of work performed: (select only one) **WORK PERFORMED**

☐ 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

ONE_CALL_NOTIFIED_IND

9. Was the One-Call Center notified? ☐ Yes ☐ No If No, skip to question 13

ONE_CALL_TICKET_NUM

9a. If Yes, specify ticket number: / / / / 7 - / / / / / / / / / / / / / /

9b. If this is a State where more than a single One-Call Center exists, list the name of the One-Call Center notified:

ONE_CALL_CENTER_NAME

LOCATOR_TYPE

10. Type of Locator: ☐ Utility Owner ☐ Contractor Locator ☐ Data not collected ☐ Unknown/Other

VISIBLE_MARKS

11. Were facility locate marks visible in the area of excavation? ☐ No ☐ Yes ☐ Data not collected ☐ Unknown/Other

FACILITIES_MARKED

12. Were facilities marked correctly? ☐ No ☐ Yes ☐ Data not collected ☐ Unknown/Other

SERVICE_INTERRUPTIO

13. Did the damage cause an interruption in service? ☐ No ☐ Yes ☐ Data not collected ☐ Unknown/Other

SERVICE_INTERRUPTION_HOURS

13a. If Yes, specify duration of the interruption: / / / / / hours

ROOT_CAUSE

14. Description of the CGA-DIRT Root Cause (select only the one predominant first level CGA-DIRT Root Cause and then, where available as a choice, the one predominant second level CGA-DIRT Root Cause as well):

ONE_CALL_SUBTYPE

☐ One-Call Notification Practices Not Sufficient: (select only one)

- ☐ No notification made to the One-Call Center
☐ Notification to One-Call Center made, but not sufficient
☐ Wrong information provided

LOCATING_SUBTYPE

☐ Locating Practices Not Sufficient: (select only one)

- ☐ Facility could not be found/located
☐ Facility marking or location not sufficient
☐ Facility was not located or marked
☐ Incorrect facility records/maps

EXCAVATION_SUBTYPE

☐ Excavation Practices Not Sufficient: (select only one)

- ☐ Excavation practices not sufficient (other)
☐ Failure to maintain clearance
☐ Failure to maintain the marks
☐ Failure to support exposed facilities
☐ Failure to use hand tools where required
☐ Failure to verify location by test-hole (pot-holing)
☐ Improper backfilling

☐ One-Call Notification Center Error

☐ Abandoned Facility

☐ Deteriorated Facility

☐ Previous Damage

☐ Data Not Collected

☐ Other / None of the Above (explain)

ROOT_CAUSE_OTHER

OUTSIDE_FORCE_TYPE

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

G5 – Pipe, Weld, or Joint Failure – only one sub-cause can be selected from the shaded left-hand column

PWJF_FAILURE_TYPE

<input type="checkbox"/> Body of Pipe	PIPE_BODY_SUBTYPE 1. Specify: <input type="radio"/> Dent <input type="radio"/> Gouge <input type="radio"/> Bend <input type="radio"/> Arc Burn <input type="radio"/> Crack <input type="radio"/> Other <u>PIPE_BODY_DETAILS</u>
<input type="checkbox"/> Butt Weld	BUTT_WELD_SUBTYPE 2. Specify: <input type="radio"/> Pipe <input type="radio"/> Fabrication <input type="radio"/> Other <u>BUTT_WELD_DETAILS</u>
<input type="checkbox"/> Fillet Weld	FILLET_WELD_SUBTYPE 3. Specify: <input type="radio"/> Branch <input type="radio"/> Hot Tap <input type="radio"/> Fitting <input type="radio"/> Repair Sleeve <input type="radio"/> Other <u>FILLET_WELD_DETAILS</u>
<input type="checkbox"/> Pipe Seam	PIPE_SEAM_SUBTYPE 4. Specify: <input type="radio"/> LF ERW <input type="radio"/> HF ERW <input type="radio"/> Flash Weld <input type="radio"/> DSAW <input type="radio"/> SAW <input type="radio"/> Spiral <input type="radio"/> Other <u>PIPE_SEAM_DETAILS</u>
<input type="checkbox"/> Threaded Metallic Pipe	
<input type="checkbox"/> Mechanical Joint Failure	MEC_FITTING_INVOLVED 5a. Specify the Mechanical Fitting Involved (<i>select only one</i>) <input type="checkbox"/> Stab <input type="checkbox"/> Nut Follower <input type="checkbox"/> Bolted <input type="checkbox"/> Other Compression Type Fitting (<i>specify</i>): <u>MEC_FITTING_INVOLVD_DTL</u> MEC_FITTING_TYPE 5b. Specify the Type of Mechanical Fitting (<i>select only one</i>) <input type="checkbox"/> Service or Main Tee <input type="checkbox"/> Tapping Tee <input type="checkbox"/> Transition Fitting <input type="checkbox"/> Coupling <input type="checkbox"/> Riser <input type="checkbox"/> Adapter <input type="checkbox"/> Valve <input type="checkbox"/> Sleeve <input type="checkbox"/> End Cap <input type="checkbox"/> Other (<i>specify</i>): <u>MEC_FITTING_TYPE_DETAIL</u> 5c. Fitting Manufacturer: <u>MEC_MANUFACTURER</u> or <input type="checkbox"/> Unknown 5d. Part or Model Number: <u>MEC_PART_NUMBER</u> or <input type="checkbox"/> Unknown 5e. Fitting Material (<i>select only one</i>) MEC_FITTING_MATERIAL <input type="checkbox"/> Steel <input type="checkbox"/> Plastic <input type="checkbox"/> Brass <input type="checkbox"/> Combination Plastic and Steel <input type="checkbox"/> Unknown <input type="checkbox"/> Other (<i>specify</i>): <u>MEC_FITTING_MATERIAL_DETAIL</u> MEC_HOW_FAILURE_OCCURED 5f. How did the joint failure occur? (<i>select only one</i>) <input type="checkbox"/> Leaked Through Seal <input type="checkbox"/> Leaked Through Body <input type="checkbox"/> Pulled Out <input type="checkbox"/> Other (<i>specify</i>): <u>MEC_HOW_FAILURE_OCCURED_DTL</u>
<input type="checkbox"/> Fusion Joint	PLASTIC_JOINT_SUBTYPE 6. Specify: <input type="radio"/> Butt, Heat Fusion <input type="radio"/> Butt, Electrofusion <input type="radio"/> Saddle, Heat Fusion <input type="radio"/> Saddle, Electrofusion <input type="radio"/> Socket, Heat Fusion <input type="radio"/> Socket, Electrofusion <input type="radio"/> Other <u>PLASTIC_JOINT_DETAILS</u> 7. Year installed: <u>FPW_INSTALLED_YEAR</u> 8. Other attributes: <u>FPW_OTHER_ATTR</u> 9. Specify the two materials being joined: 9a. First material being joined: FPW_FIRST_PLASTIC_TYPE <input type="radio"/> Polyvinyl Chloride (PVC) <input type="radio"/> Polyethylene (PE) <input type="radio"/> Cross-linked Polyethylene (PEX) <input type="radio"/> Polybutylene (PB) <input type="radio"/> Polypropylene (PP) <input type="radio"/> Acrylonitrile Butadiene Styrene (ABS) <input type="radio"/> Polyamide (PA) <input type="radio"/> Cellulose Acetate Butyrate (CAB) <input type="radio"/> Other ⇒ Specify: <u>FPW_FIRST_PLASTIC_TYPE_OTHER</u> 9b. Second material being joined: FPW_SECOND_PLASTIC_TYPE <input type="radio"/> Polyvinyl Chloride (PVC) <input type="radio"/> Polyethylene (PE) <input type="radio"/> Cross-linked Polyethylene (PEX) <input type="radio"/> Polybutylene (PB) <input type="radio"/> Polypropylene (PP) <input type="radio"/> Acrylonitrile Butadiene Styrene (ABS) <input type="radio"/> Polyamide (PA) <input type="radio"/> Cellulose Acetate Butyrate (CAB) <input type="radio"/> Other ⇒ Specify: <u>FPW_SECOND_PLASTIC_TYPE_OTHER</u>
<input type="checkbox"/> Other Pipe, Weld, or Joint Failure	10. Describe: <u>PWJF_FAILURE_DETAILS</u>

Complete the following if any Pipe, Weld, or Joint Failure sub-cause is selected. **ADDITIONAL_ARC** **ADDITIONAL_CRACK_IND** **ADDITIONAL_LACK_FUSION_IND**
ADDITIONAL_DENT_IND, ADDITIONAL_GOUGE_IND, ADDITIONAL_PIPE_BEND_IND, BURN_IND,

ADDITIONAL_LAMINATION_IND, ADDITIONAL_BUCKLE_IND, ADDITIONAL_WRINKLE_IND, ADDITIONAL_MISALIGNMENT_IND

11. Additional Factors: (select all that apply) ☐ Dent ☐ Gouge ☐ Pipe Bend ☐ Arc Burn ☐ Crack ☐ Lack of Fusion
☐ Lamination ☐ Buckle ☐ Wrinkle ☐ Misalignment ☐ Burnt Steel **ADDITIONAL_BURNT_STEEL_IND**
☐ Other **ADDITIONAL_OTHER_IND** **ADDITIONAL_FACTOR_DETAILS**

12. Was the Incident a result of: **RESULT_CONSTRUCTION_IND** **RESULT_CONSTRUCTION_SUBTYPE**
☐ Construction defect, specify: ⇒ ☐ Poor workmanship ☐ Procedure not followed ☐ Poor construction/installation procedures
RESULT_MATERIAL_IND **RESULT_MATERIAL_SUBTYPE** **RESULT_MATERIAL_DETAILS**
☐ Material defect, specify: ⇒ ☐ Long seam ☐ Other _____
☐ Design defect **RESULT_DESIGN_IND**
☐ Previous damage **RESULT_PREVIOUS_IND** **HYDROTEST_CONDUCTED_IND**

13. Has one or more pressure test been conducted since original construction at the point of the Incident?
☐ Yes ⇒ Most recent year tested: ____/____/____/____/____ Test pressure (psig): ____/____/____/____/____
☐ No **HYDROTEST_CONDUCTED_YEAR** **HYDROTEST_PRESSURE**

G6 – Equipment Failure— only one **sub-cause** can be selected from the shaded left-hand column **EQ_FAILURE_TYPE**

<input type="checkbox"/> Malfunction of Control/Relief Equipment	<p>1. Specify: (select all that apply) INSTRUMENTATION_IND SCADA_IND <input type="radio"/> Control Valve <input type="radio"/> Instrumentation <input type="radio"/> SCADA CONTROL_VALVE_IND BLOCK_VALVE_IND CHECK_VALVE_IND <input type="radio"/> Communications <input type="radio"/> Block Valve <input type="radio"/> Check Valve COMMUNICATIONS_IND POWER_FAILURE_IND STOPPLE_CONTROL_FITTING_IND <input type="radio"/> Relief Valve <input type="radio"/> Power Failure <input type="radio"/> Stopple/Control Fitting RELIEF_VALVE_IND STOPPLE_CONTROL_FITTING_IND <input type="radio"/> Pressure Regulator STOPPLE_CONTROL_FITTING_IND PRESSURE_REGULATOR_IND STOPPLE_CONTROL_FITTING_IND <input type="radio"/> Other OTHER_CONTROL_RELIEF_IND OTHER_CONTROL_RELIEF_DETAILS</p>
<input type="checkbox"/> Threaded Connection Failure	<p>OTHER_STRIPPED_IND 2. Specify: <input type="radio"/> Pipe Nipple <input type="radio"/> Valve Threads <input type="radio"/> Threaded Pipe Collar <input type="radio"/> Threaded Fitting <input type="radio"/> Other OTHER_STRIPPED_DETAILS</p>
<input type="checkbox"/> Non-threaded Connection Failure	<p>OTHER_NON_THREADED_IND 3. Specify: <input type="radio"/> O-Ring <input type="radio"/> Gasket <input type="radio"/> Other Seal or Packing <input type="radio"/> Other OTHER_NON_THREADED_DETAILS</p>
<input type="checkbox"/> Valve	<p>VALVE_OTHER_IND 4. Specify: <input type="radio"/> Manufacturing defect <input type="radio"/> Other VALVE_OTHER_DETAILS 4a. Valve type: VALVE_TYPE 4b. Manufactured by: EQ_MANUFACTURER 4c. Year manufactured: ____/____/____/____/____ or <input type="radio"/> Unknown EQ_MANUFACTURE_YEAR VALVE_MATERIAL 4d. Valve Material: <input type="checkbox"/> Steel <input type="checkbox"/> Plastic <input type="checkbox"/> Cast/Wrought Iron <input type="checkbox"/> Ductile Iron <input type="checkbox"/> Other, specify: mandatory text field VALVE_MATERIAL_DETAILS</p>
<input type="checkbox"/> Other Equipment Failure	<p>5. Describe: EQ_FAILURE_DETAILS</p>

G7 – Incorrect Operation – *only one **sub-cause** can be selected from the shaded left-hand column**OPERATION_TYPE**

<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"/> Valve Left or Placed in Wrong Position, but NOT Resulting in an 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	1. Describe: OPERATION_DETAILS

Complete the following if any Incorrect Operation sub-cause is selected.2. Was this Incident related to: *(select all that apply)*

- ☐ Inadequate procedure **RELATED_INADEQUATE_PROC_IND**
☐ No procedure established **RELATED_NO_PROC_IND**
☐ Failure to follow procedure **RELATED_FAILURE_FOLLOW_IND**
☐ Other:* **RELATED_OTHER_IND** **OPERATION_RELATED_DETAILS**

3. What category type was the activity that caused the Incident: **CATEGORY_TYPE**

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

OPERATOR_QUALIFICATION_IND4. Was the task(s) that led to the Incident identified as a covered task in your Operator Qualification Program? ☐ Yes ☐ No4a. If Yes, were the individuals performing the task(s) qualified for the task(s)? **QUALIFIED_INDIVIDUALS**

- ☐ 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 Incident Cause – *only one **sub-cause** can be selected from the shaded left-hand column**OTHER_TYPE**

<input type="checkbox"/> Miscellaneous	1. Describe: MISC_DETAILS
<input type="checkbox"/> Unknown	UNKNOWN_SUBTYPE 2. Specify: <input type="radio"/> Investigation complete, cause of Incident unknown Mandatory comment field: INCIDENT_UNKNOWN_COMMENTS <input type="radio"/> Still under investigation, cause of Incident to be determined* (*Supplemental Report required)

PART J – CONTRIBUTING FACTORS

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

<p>External Corrosion EXTRNL_COR_GALVANIC_IND</p> <p><input type="checkbox"/> External Corrosion, Galvanic EXTRNL_COR_ATMOSPHERIC_IND</p> <p><input type="checkbox"/> External Corrosion, Atmospheric EXTRNL_COR_STRAY_CURRENT_IND</p> <p><input type="checkbox"/> External Corrosion, Stray Current Induced EXTRNL_COR_MICROBIOLOGIC_IND</p> <p><input type="checkbox"/> External Corrosion, Microbiologically Induced EXTRNL_COR_SELECTIVE_SEAM_IND</p> <p><input type="checkbox"/> External Corrosion, Selective Seam</p> <p>Internal Corrosion INTRNL_COR_CORROSIVE_CMDTY_IND</p> <p><input type="checkbox"/> Internal Corrosion, Corrosive Commodity INTRNL_COR_WTR_DRPOUT_ACID_IND</p> <p><input type="checkbox"/> Internal Corrosion, Water drop-out/Acid INTRNL_COR_MICROBIOLOGIC_IND</p> <p><input type="checkbox"/> Internal Corrosion, Microbiological INTRNL_COR_EROSION_IND</p> <p><input type="checkbox"/> Internal Corrosion, Erosion</p> <p>Natural Forces NF_EARTH_MOVEMENT_IND</p> <p><input type="checkbox"/> Earth Movement, NOT due to Heavy Rains/Floods</p> <p><input type="checkbox"/> Heavy Rains/Floods NF_HEAVY_RAINS_IND</p> <p><input type="checkbox"/> Lightning NF_LIGHTNING_IND</p> <p><input type="checkbox"/> Temperature NF_TEMPERATURE_IND</p> <p><input type="checkbox"/> High Winds NF_HIGH_WINDS_IND</p> <p><input type="checkbox"/> Snow/Ice NF_SNOW_ICE_IND</p> <p><input type="checkbox"/> Tree/Vegetation Root NF_VEGITATION_ROOT_IND</p> <p>Excavation Damage EXCVTN_DMG_OPERATOR_IND</p> <p><input type="checkbox"/> Excavation Damage by Operator (First Party) EXCVTN_DMG_OP_CONTRACTOR_IND</p> <p><input type="checkbox"/> Excavation Damage by Operator's Contractor (Second Party) EXCVTN_DMG_THIRD_PARTY_IND</p> <p><input type="checkbox"/> Excavation Damage by Third Party EXCVTN_DMG_PREVIOUS_DAMAGE_IND</p> <p><input type="checkbox"/> Previous Damage due to Excavation Activity</p> <p>Other Outside Force OSF_NEARBY_INDUSTRIAL_IND</p> <p><input type="checkbox"/> Nearby Industrial, Man-made, or Other Fire/Explosion OSF_VEHICLE_IND</p> <p><input type="checkbox"/> Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation OSF_BOAT_IND</p> <p><input type="checkbox"/> Damage by Boats, Barges, Drilling Rigs, or Other Adrift Maritime Equipment OSF_OTHER_MARITIME_IND</p> <p><input type="checkbox"/> Routine or Normal Fishing or Other Maritime Activity NOT Engaged in Excavation OSF_ELECTRICAL_ARCING_IND</p> <p><input type="checkbox"/> Electrical Arcing from Other Equipment or Facility OSF_PREVIOUS_MECHANICAL_IND</p> <p><input type="checkbox"/> Previous Mechanical Damage NOT Related to Excavation</p> <p><input type="checkbox"/> Intentional Damage OSF_INTENTIONAL_IND</p> <p><input type="checkbox"/> Other underground facilities buried within 12 inches of the failure location OSF_OTHER_UNDERGROUND_IND</p>	<p>Pipe/Weld Failure</p> <p><input type="checkbox"/> Design-related PWF_DESIGN_IND</p> <p><input type="checkbox"/> Construction-related PWF_CONSTRUCTION_IND</p> <p><input type="checkbox"/> Installation-related PWF_INSTALLATION_IND</p> <p><input type="checkbox"/> Fabrication-related PWF_FABRICATION_IND</p> <p><input type="checkbox"/> Original Manufacturing-related PWF_MANUFACTURING_IND</p> <p>Equipment Failure EQF_CONTROL_RELEASE_IND</p> <p><input type="checkbox"/> Malfunction of Control/Relief Equipment EQF_THREADED_COUPLING_IND</p> <p><input type="checkbox"/> Threaded Connection/Coupling Failure EQF_NON_THREADED_IND</p> <p><input type="checkbox"/> Non-threaded Connection Failure EQF_VALVE_FAILURE_IND</p> <p><input type="checkbox"/> Valve Failure</p> <p>Incorrect Operation IO_DAMAGE_BY_OPERATOR_IND</p> <p><input type="checkbox"/> Damage by Operator or Operator's Contractor NOT Excavation and NOT Vehicle/Equipment Damage IO_VALVE_POSITION_IND</p> <p><input type="checkbox"/> Valve Left or Placed in Wrong Position, but NOT Resulting in Overpressure IO_EQUIPMENT_OVERPRESSURE_IND</p> <p><input type="checkbox"/> Pipeline or Equipment Overpressured</p> <p>IO_NOT_INSTALLED_PROPERLY_IND</p> <p><input type="checkbox"/> Equipment Not Installed Properly IO_WRONG_EQUIPMENT_IND</p> <p><input type="checkbox"/> Wrong Equipment Specified or Installed</p> <p><input type="checkbox"/> Inadequate Procedure IO_INADEQUATE_PROCEDURE_IND</p> <p><input type="checkbox"/> No procedure established IO_NO_PROCEDURE_IND</p> <p><input type="checkbox"/> Failure to follow procedures IO_FOLLOW_PROCEDURE_IND</p>
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Note: Field names not on the form are as following:

Field Name	Field Name Description
IYEAR	<i>Year incident occurred, derived from accident date</i>