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



U.S. Department of Transportation Pipeline and Hazardous Materials Safety Administration

INCIDENT REPORT - GAS DISTRIBUTION SYSTEM

Report Date REPORT_RECEIVED_DATE REPORT_NUMBER
No. SUPPLEMENTAL_NUMBER (DOT Use Only)

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. 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. Report Type: (select all that apply) \square Original \square Supplemental \square Final PART A - KEY REPORT INFORMATION A1. Operator's OPS-issued Operator Identification Number (OPID): / / / OPERATOR_ID A2. Name of Operator: auto-populated based on OPID A3. Address of Operator: OPERATOR STREET ADDRESS A3a. auto-populated based on OPID (Street Address) A3b. _____ auto-populated based on OPID OPERATOR_CITY_NAME (City) A3c. State: auto-populated based on OPID / OPERATOR_STATE_ABBREVIATION A3d. Zip Code: auto-populated based on OPID / / / / / OPERATOR_POSTAL_CODE A4. Earliest local time (24-hr clock) and date an incident reporting criteria was met: A4a. Time Zone for local time (select only one) O Alaska O Eastern O Central O Hawaii-Aleutian O Mountain O Pacific. A4b. Daylight Saving in effect? O Yes O No DAYLIGHT_SAVINGS_IND A5. Location of Incident: LOCATION STREET ADDRESS (Street Address or location description) LOCATION_CITY_NAME A5b. A5c. ___ LOCATION_COUNTY_NAME __ (County or Parish) A5d. State: /___/___LOCATION_STATE_ABBREVIATION A5e. Zip Code: / / / / / - / / LOCATION_POSTAL_CODE / / /. / / / LOCATION_LATITUDE A5f. Latitude:

Longitude: - / / / / LOCATION_LONGITUDE

A6. Gas released : (select only one, based on predominant volume released) Natural Gas Propane Gas Synthetic Gas Hydrogen Gas Landfill Gas Other Gas Name: Other Gas Name: WNINTENTIONAL RELEASE A7. Estimated volume of gas released unintentionally: Name: Nam			
A9. Were there fatalities? O Yes O No FATALITY_IND If Yes, specify the number in each category: A9a. Operator employees	A10. Were there injuries requiring inpatient hospitalization? O Yes O No INJURY_IND If Yes, specify the number in each category: A10a. Operator employees A10a. Operator employees		
A9b. Contractor employees NUM_CONTR_FATALITIES working for the Operator / / / / /	A10b. Contractor employees NUM_CONTR_INJURIES working for the Operator / / / / /		
A9c. Non-Operator	A10c. Non-Operator NUM_ER_INJURIES emergency responders		
A9d. Workers working on the right-of-way, but NOT NUM_WORKER_FATALITIES associated with this Operator / / / / / NUM_GP_FATALITIES A9e. General public / / / / /	A10d. Workers working on the right-of-way, but NOT associated with this Operator / / / / / NUM_GP_INJURIES A10e. General public		
A9f. Total fatalities (sum of above) calculated FATAL	A10f. Total injuries (sum of above) <u>calculated</u> <u>INJURE</u>		
□ Air Patrol □ Notification from Public □ Notification from Third Party that caused the Incident □ Ot A11a. If "Controller", "Local Operating Personnel, including contractors Question A11, specify the following: (select only one) OPERATOR_T □ O Operator employee □ Contractor working A12. Local time operator identified failure / / / / Hour If A11 = Notification from Emergency Responder, skip questions A13 to A13. Did the operator communicate with Local, State, or Federal Emer If No, skip A14 and A15 PARTY_INITIATED_COMMUNICATION A14. Which party initiated communication about the incident? □ Ope A15. Local time of initial Operator and Local/State/Federal Emergency	ocal Operating Personnel, including contractors round Patrol by Operator or its contractor otification from Emergency Responder ther		
ON_SITE_DATETIME A16. Local time operator resources arrived on site // // Hour	<u> </u>		
A17. reserved A18. Local time (24-hr clock) and date of initial operator report to the N	lational Response Center: RPT_DATETIME		

A20. Method of Flow Control (select all that apply)
O "Key/Critical" Valve – inspected in accordance with Part 192.747 FLOW_CONT_KEY_CRIT_IND
O Main Valve other than "Key/Critical" FLOW_CONT_MAIN_VALVE_IND
O Service (curb) Valve FLOW_CONT_SERVICE_VALVE_IND
O Meter/Regulator shut-off Valve FLOW_CONT_METER_REG_IND
O Excess flow valve FLOW_CONT_EXCESS_FLOW_IND
O Squeeze-Off FLOW_CONT_SQUEEZE_OFF_IND
O Stopple fitting FLOW_CONT_STOPPLE_FITNG_IND
O Other – mandatory text field FLOW_CONT_OTHER_IND FLOW_CONT_OTHER_DETAIL
A21. Did the gas ignite? O Yes O No IGNITE_IND
If A21 = Yes, answer A21a through A21d.
A21a. Local time of ignition / / / / / / / / / / / / / / / / / / /
A21b. How was the fire extinguished? HOW_EXTINGUISHED HOW EXTINGUISHED OTHER DETAIL
O Operator/Contractor O Local/State/Federal Emergency Responder O Allowed to burn out O Other, specify:
A21c. Estimated volume of gas consumed by fire (MCF): (must be less than or equal to A7.)
A21d. Did the gas explode? O Yes O No EXPLODE_IND
A22. Number of general public evacuated: / / /, / / NUM_PUB_EVACUATED

PAF	PART B – ADDITIONAL LOCATION INFORMATION			
	Was the Incident on Federal land? O Yes O No FEDERAL Location of Incident: (select only one) LOCATION_TYPE			
	☐ Operator-controlled property			
	□ Public property			
	☐ Private property			
	☐ Utility Right-of-Way / Easement			
B3.	Area of Incident: (select only one) INCIDENT_AREA_TYPE INCIDENT_AREA_SUBTYPE Underground Specify: O Under soil O Under a building O Under pavement O Exposed due to excavation O In underground enclosed space (e.g., vault) O Exposed due to loss cover O Other INCIDENT_AREA_DETAILS			
	B3a. Depth-of-Cover (in): // // / DEPTH_OF_COVER B3b. Were other underground facilities found within 12 inches of the failure location? O Yes O No			
	Aboveground Specify: O Typical aboveground facility piping or appurtenance (e.g. valve or regulator station, outdoor meter set) O Overhead crossing O In or spanning an open ditch O In other enclosed space O Other INCIDENT_AREA_DETAILS			
	☐ Transition Area Specify: O Soil/air interface O Wall sleeve O Pipe support or other close contact area O Other			
B4.	CROSSING Did Incident occur in a crossing? O Yes O No			
	If Yes, specify type below: BRIDGE_CROSSING_IND □ Bridge Crossing ➡ Specify: ○ Cased ○ Uncased BRIDGE_TYPE			
	RAILROAD CROSSING IND Railroad crossing (Select all that apply) O Cased O Uncased O Bored/drilled RAILROAD_TYPE ROAD CROSSING IND			
	☐ Road crossing ☐ (Select all that apply) ☐ Cased ☐ Uncased ☐ Bored/drilled ROAD_TYPE WATER CROSSING IND			
	☐ Water crossing ➡ (Select all that apply) ☐ Cased ☐ Uncased ☐ Bored/drilled WATER_TYPE			
	Name of body of water (If commonly known): WATER_NAME			
	Approx. water depth at time and location of Incident (ft): \(\frac{VATER_DEPTH}{I_1, \infty} \) / or \(\frac{O}{I_1, \infty} \) Unknown			
	(select only one of the following) WATER_SUBTYPE O Shoreline/Bank/Marsh crossing O Below water, pipe in bored/drilled crossing O Below water, pipe buried below bottom (NOT in bored/drilled crossing) O Below water, pipe on or above bottom			

PART C – ADDITIONAL FACILITY INFORMATION			
C1. Indicate the type of pipeline system: PIPE_FACILITY_TYPE □ privately owned □ municipally owned			
☐ investor owned ☐ cooperative ☐ 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 INSTALLATION YEAR C2a. Year item involved in the incident was installed: / / / / / or O Unknown			
MANUFACTURED_YEAR C2b. Year item involved in the incident was manufactured: _ / / / / or O 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) O Single Family Residential O Multi-Family Residential Non-Residential with Meter capacity less than 1,000 scfh O 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? O Yes O No WAS_EFV_INSTALLED_BEFORE_IND If C2d = Yes, then C2e. Did the EFV activate? O Yes O No O Unable to determine EVF_ACTIVATION_IND C2f. Was a curb valve installed on the service line before the time of the incident? O Yes O 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 O Unknown C3c. Pipe manufacturer: Or O Unknown			
MATERIAL_INVOLVED C4. Material involved in Incident: ☐ Steel ☐ Cast/Wrought Iron ☐ Ductile Iron ☐ Copper ☐ Plastic ☐ Reconditioned Cast Iron ☐ Unknown ☐ Other ➡ Specify: MATERIAL_DETAILS			
C4a. If Steel ⇒ Specify seam type: STEEL_SEAM_TYPE O Longitudinal ERW - High Frequency O Single SAW O Flash Welded O DSAW O Longitudinal ERW - Low Frequency O Continuous Welded O Furnace Butt Welded O Longitudinal ERW – Unknown Frequency O Spiral Welded O Lap Welded O Seamless O Other Specify: STEEL_SEAM_TYPE_DETAILS			
WT_STEEL C4b. If Steel ⇒ Specify wall thickness <i>(inches)</i> : / / / / or □ Unknown PLASTIC TYPE			
C4c. If Plastic ⇒ Specify type: O Polyvinyl Chloride (PVC) O Polyethylene (PE) O Cross-linked Polyethylene (PEX) O Polybutylene (PB) O Polypropylene (PP) O Acrylonitrile Butadiene Styrene (ABS) O Polyamide (PA) O Cellulose Acetate Butyrate (CAB) O Other ⇒ Specify: O Unknown			
PLASTIC_SDR WT_PLASTIC C4d. If Plastic ⇒ Specify Standard Dimension Ratio (SDR): / / / / / or wall thickness: / // / / / or O Unknown WT_PLASTIC_UNKNOWN_IND			
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 O Unknown **C5. Type of release involved: (select only one) **PUNCTURE AXIAL PUNCTURE CIRCUM** **Description of Puncture Axial Puncture Axial by /_/_/_/in. (circumferential)			
LEAK_TYPE □ Leak ➡ Select Type: ○ Pinhole ○ Crack ○ Connection Failure ○ Seal or Packing ○ Other			
RUPTURE_ORIENT ☐ Rupture → Select Orientation: ○ Circumferential ○ Longitudinal ○ Other			
RUPTURE_LENGTH Approx. size: / / / / / / in. (widest opening) by / / / / / / / / / / / / / / / / / /			

PART D – ADDITIONAL CONSEQUENCE INFORMATION				
D1. 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 : EST_COST_OPER_PAID D2a. Estimated cost of public and non-Operator private property damage \$\(\begin{array}{c ccccccccccccccccccccccccccccccccccc				
D2b. Estimated cost of Operator's property damage & repairs EST_COST_PROP_DAMAGE \$ / / / / / / / / / / / EST_COST_EMERGENCY				
D2c. Estimated cost of emergency response \$ \(\frac{1}{1} \) \(\frac{1} \) \(\frac{1}{1} \) \(\frac{1} \) \(\frac{1} \) \(\frac{1} \) \(\frac{1} \) \				
D2d. Estimated other costs \$\frac{\text{EST_COST_OTHER}}{\text{V} \cdot				
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 EST_COST_UNINTENTIONAL_RELEASE				
D2f. Estimated cost of gas released unintentionally **calculated** **calculated** **EST_COST_UNINTENTIONAL_RELEASE** **calculated** **EST_COST_UNINTENTIONAL_RELEASE** **calculated**				
D2g. Estimated cost of gas released intentionally during controlled release/blowdown \$ 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: COMMERCIAL_AFFECTED D3a. Commercial entities / /, / / / / INDUSTRIAL_AFFECTED D3b. Industrial entities / /, / / / / RESIDENCES_AFFECTED D3c. Residences / /, / / / /				
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. NUM PERSONS HOSP NOT OVNGHT				
D4. Estimated number of persons with injuries requiring treatment in a medical facility but not requiring overnight in-patient hospitalization:				
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 OPER	RATING INFORMATION				
E1. Estimated pressure at the	point and time of the Inciden	t (psig):		<u> </u>	ACCIDENT_PSIG
E2. Normal operating pressure at the point and time of the Incident (psig): // / NORMAL_PSIG					
E3. Maximum Allowable Opera	ating Pressure (MAOP) at the	e point and time of the In	cident (psig):	<u> </u>	MOP_PSIG
E3a. MAOP established by 49	CFR section: MOP_CFR_SI	ECTION			
□ 192.619 (a)(1) [°] □ ′	192. 619 (a)(2) 🛛 192. 619	(a)(3) \(\Box \) 192.619 (a)(4)) 🛘 192. 619	(c)	
□ <u>192.621m</u> □	192.623				
E3b. Date MAOP established	MAOP_ESTABLIS	SHED_DATE 			
	Month Day	Year Year			
ACCIDENT_PRESSURE E4. Describe the pressure on a	the system relating to the Inc	ident: (select only one)			
☐ Pressure did not e					
☐ Pressure exceede	d MAOP, but did not exceed	the applicable allowance	e in §192.201		
☐ Pressure exceede GAS_ODORIZED_SYSTI	d the applicable allowance in	§192.201			
E5. Type of odorization system		e:			
,,	injection pump 🗆 by	y-pass □ wick			
□ combination of odori	zation types 🗆 odorize	d by others 🗆 🗅 C)ther, speci	fy: GAS_ODORI	IZED_SYS_OTHER_DETAIL
E6. Odorant level near the poi	GAS_ODOR	RIZED_LEVEL	O Not Measu	ured GAS ODORIZ	ED LVL NOT MSRD IND
Lo. Odorant lever flear the por		TIE IAIIUIE. 70LLL OIX	O Not Measu	illed G/IS_ODORIZ	ED_EVE_NOT_MSRD_IND
E7. Was a Supervisory Control No SCADA_IN_I		DA)-based system in plac	ce on the pipelir	ne or facility involv	ed in the Incident?
	it operating at the time of the	Incident?	O Yes C	No SCADA OPI	ERATING IND
	it fully functional at the time		O Yes C	No <mark>SCADA_FU</mark> I	- NCTIONAL IND
	SCADA-based information (s				
	ation of the Incident?	aon ao alam(o), alon(o),		No SCADA_DE	
E7d. Did S	SCADA-based information (s	uch as alarm(s), alert(s),	event(s), and/o	or volume calculati	ons) assist with the
confirmed	discovery of the Incident?		O Yes (O No SCADA_CO	NF_IND
E8. Was an investigation initiat Incident? (select only one	ed into whether or not the co INVESTIGATION STATE		n issues were th	ne cause of or a co	ontributing factor to the
	stigation of the control room a		nas not yet beer	n completed by the	e operator (Supplemental
Report required)					
,	s not monitored by a controll	\ <i>\</i>		raam iaawaa waa r	aaaaaam, dua ta
	lid not find that an investigatination for why the operator di	id not invectigate)			
			ESTIGATION_N	STATUS_DETAILS	
☐ Yes, Specify inves	stigation result(s): (select all	that apply) INVEST_SCI	HEDULE_IND		
	ion reviewed work schedule		urs of service (w	hile working for th	e Operator) and other
	ated with fatigue INVEST_N		ous bours of sor	vice (while workin	g for the Operator) and other
	ated with fatigue (provide an			•	
			INVEST_N	O_SCHEDULE_IN	D_DETAILS
	ion identified no control room			M_IND	
_	ion identified no controller is				
	ion identified incorrect contro				
	ion identified that fatigue ma NVEST_FATIGUE_IND	y have affected the contr	oller(s) involved	or impacted the i	nvolved controller(s)
INVEST	INCORRECT_PROCEDURE	d			
	tion identified incorrect proce tion identified incorrect contro	IIII ESI IIICO	ORRECT_CONT	ROL_IND	TAIL THOUGH A SALAR SALAR
_	tion identified maintenance a			tions, procedures	INVEST_MAINT_IND and/or controller response
	ion identified areas other tha			T_OTHER_IND	<u> </u>
					ST_OTHER_IND_DETAILS

PART F - DRUG & ALCOHOL TESTING INFORMATION	
F1. As a result of this Incident, were any Operator employees tested und Drug & Alcohol Testing regulations? EMPLOYEE_DRUG_TEST_IND	er the post-accident drug and alcohol testing requirements of DOT's
O No	
O Yes 🖒 F1a. Specify how many were tested: /// NU	M_EMPLOYEES_TESTED
F1b. Specify how many failed: / / NU	M_EMPLOYEES_FAILED
F2. As a result of this Incident, were any Operator contractor employees DOT's Drug & Alcohol Testing regulations? CONTRACTOR_DRUG	, , , , , , , , , , , , , , , , , , , ,
O No	
O Yes 🖒 F2a. Specify how many were tested: /_/_/ №	UM_CONTRACTORS_TESTED
F2b. Specify how many failed: ///	UM_CONTRACTORS_FAILED

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

☐ External Corrosion	VISUAL_EXAM_RESULTS 1. Results of visual examination:
	O Localized Pitting O General Corrosion
	O Other VISUAL_EXAM_DETAILS
GIVVING CONDO	2. Type of corrosion: (select all that apply)
GALVANIC_CORRON	ION_IND, ATMOSPHERE_CORROSION_IND, STRAY_CURRENT_CORROSION_IND MICROBIOLOGICAL_CORROSION_IND, SELECTIVE_SEAM_CORROSION_IND O Galvanic O Atmospheric O Stray Current O Microbiological O Selective Seam O Other OTHER_CORROSION_IND CORROSION_TYPE_DETAILS
	STRAY_CURRENT_TYPE 2a. If 2. is Stray Current, specify O Alternating Current O Direct Current AND
	2b. Describe the stray current source: STRAY_CURRENT_DETAILS
	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
	O Field examination O Determined by metallurgical analysis O Other OTHER_BASIS_IND CORROSION_BASIS_DETAILS
	 4. Was the failed item buried or submerged? <u>UNDERGROUND_LOCATION</u> O Yes ⇒ 4a. Was failed item considered to be under cathodic protection at the time of the incident? <u>UNDER_CATHODIC_PROTECTION_IND</u>
	O Yes → Year protection started: / / / /
	O No CATHODIC_PRO_START_YEAR
	SHIELDING_EVIDENT 4b. Was shielding, tenting, or disbonding of coating evident at the point of the incident?
	O Yes O No CATHODIC_SURVEY_TYPE 4c. Has one or more Cathodic Protection Survey been conducted at the point of the incident? (select all that apply)
	CP_ANNUAL_SURVEY_IND O Yes, CP Annual Survey Most recent year conducted: / / / / /
	CLOSE_INTERVAL_SURVEY_IND CLOSE_INTERVAL_SURVEY_YEAR O Yes, Close Interval Survey Most recent year conducted: / / / / /
	OTHER_CP_SURVEY_IND OTHER_CP_SURVEY_YEAR O Yes, Other CP Survey ⇒ Most recent year conducted: / / / / / Describe Other CP Survey: OTHER_CP_SURVEY_DETAILS
	O No EXTERNALLY COATED
	O No → 4d. Was the failed item externally coated or painted? O Yes O No PRIOR DAMAGE
	 Was there observable damage to the coating or paint in the vicinity of the corrosion? Yes O No O N/A Bare/Ineffectively Coated Pipe
	6. Pipeline coating type, if steel pipe is involved: <i>(select only one)</i> COATING_TYPE O Epoxy O Coal Tar O Asphalt O Polyolefin O Extruded Polyethylene
	O Cold Applied Tape O Paint O Composite O None O Other COATING_TYPE_DETAILS
	O Unknown 6a. Field Applied? Y, N, or Unknown FIELD_APPLIED_IND

☐ Internal Corrosion	INT_VISUAL_EXAM_RESULTS 7. Results of visual examination: O Localized Pitting O General Corrosion O Not cut open O Other INT_VISUAL_EXAM_DETAILS			
	8. Cause of corrosion: (select all that apply) INT_CORROSIVE_ INT_WATER_ INT_MICROBIOLOGICAL INT_EROSION_ COMMODITY_IND ACID IND IND IND O Corrosive Commodity O Water drop-out/Acid O Microbiological O Erosion O Other INT_OTHER_CORROSION_IND INT_CORROSION_TYPE_DETAILS			
	9. The cause(s) of corrosion selected in Question 8 is based on the following; (select all that apply) INT_FIELD_EXAM_BASIS_IND			
INT_LOW	POINT_PIPE_LOC_IND INT_ELBOW_LOC_IND INT_DROP_OUT_LOC_IND O Low point in pipe O Elbow O Drop-out O Other INT_OTHER_LOC_IND CORROSION_LOCATION_DETAILS CORROSION_INHIBITOR 11. Was the gas/fluid treated with corrosion inhibitors or biocides? O Yes O No LIQUID_FOUND 12. Were any liquids found in the distribution system where the Incident occurred? O Yes O No			
Complete the following if any Corrosion Failure sub-cause is selected AND the "Part of system involved in Incident" (from PART C, Question 2) is Main, Service, or Service Riser. COR_HYDROTEST_LEAK_SURVEY_DATE 13. Date of the most recent Leak Survey conducted: / / / / / / / / / / / / / / / / / /				
G2 - Natural Force Damage - only one sub-cause can be picked from shaded left-handed column NATURAL_FORCE_TYPE				
G2 – Natural Force Damage – o	nly one sub-cause can be picked from shaded left-handed column NATURAL_FORCE_TYPE			
G2 - Natural Force Damage - ○ □ Earth Movement, NOT due to Heavy Rains/Floods	nly one sub-cause can be picked from shaded left-handed column NATURAL_FORCE_TYPE EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O Other NF_OTHER_DETAILS			
☐ Earth Movement, NOT due to Heavy	EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O OtherNF_OTHER_DETAILS HEAVY_RAINS_SUBTYPE 2. Specify: O Washouts/Scouring O Flotation O Mudslide O Other OTHER_DETAILS			
☐ Earth Movement, NOT due to Heavy Rains/Floods	EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O OtherNF_OTHER_DETAILS HEAVY RAINS SURTYPE.			
☐ Earth Movement, NOT due to Heavy Rains/Floods ☐ Heavy Rains/Floods	EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O OtherNF_OTHER_DETAILS HEAVY_RAINS_SUBTYPE 2. Specify: O Washouts/Scouring O Flotation O Mudslide O Other OTHER_DETAILS LIGHTNING_SUBTYPE			
☐ Earth Movement, NOT due to Heavy Rains/Floods ☐ Heavy Rains/Floods ☐ Lightning	EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O OtherNF_OTHER_DETAILS HEAVY_RAINS_SUBTYPE 2. Specify: O Washouts/Scouring O Flotation O Mudslide O Other OTHER_DETAILS LIGHTNING_SUBTYPE 3. Specify: O Direct hit O Secondary impact such as resulting nearby fires TEMPERATURE_SUBTYPE 4. Specify: O Thermal Stress O Frost Heave			
□ Earth Movement, NOT due to Heavy Rains/Floods □ Heavy Rains/Floods □ Lightning □ Temperature	EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O OtherNF_OTHER_DETAILS HEAVY_RAINS_SUBTYPE 2. Specify: O Washouts/Scouring O Flotation O Mudslide O Other OTHER_DETAILS LIGHTNING_SUBTYPE 3. Specify: O Direct hit O Secondary impact such as resulting nearby fires TEMPERATURE_SUBTYPE 4. Specify: O Thermal Stress O Frost Heave			
□ Earth Movement, NOT due to Heavy Rains/Floods □ Heavy Rains/Floods □ Lightning □ Temperature □ High Winds	EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O OtherNF_OTHER_DETAILS HEAVY_RAINS_SUBTYPE 2. Specify: O Washouts/Scouring O Flotation O Mudslide O Other OTHER_DETAILS LIGHTNING_SUBTYPE 3. Specify: O Direct hit O Secondary impact such as resulting nearby fires TEMPERATURE_SUBTYPE 4. Specify: O Thermal Stress O Frost Heave			
□ Earth Movement, NOT due to Heavy Rains/Floods □ Heavy Rains/Floods □ Lightning □ Temperature □ High Winds □ Tree/Vegetation Roots □ Damage from Snow/Ice Impact or	EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O OtherNF_OTHER_DETAILS HEAVY_RAINS_SUBTYPE 2. Specify: O Washouts/Scouring O Flotation O Mudslide O Other OTHER_DETAILS LIGHTNING_SUBTYPE 3. Specify: O Direct hit O Secondary impact such as resulting nearby fires TEMPERATURE_SUBTYPE 4. Specify: O Thermal Stress O Frost Heave			
□ Earth Movement, NOT due to Heavy Rains/Floods □ Heavy Rains/Floods □ Lightning □ Temperature □ High Winds □ Tree/Vegetation Roots □ Damage from Snow/Ice Impact or Accumulation □ Other Natural Force Damage Complete the following if any Natural Force D	EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O Other NF_OTHER_DETAILS HEAVY_RAINS_SUBTYPE 2. Specify: O Washouts/Scouring O Flotation O Mudslide O Other NF_OTHER_DETAILS LIGHTNING_SUBTYPE 3. Specify: O Direct hit O Secondary impact such as resulting nearby fires TEMPERATURE_SUBTYPE 4. Specify: O Thermal Stress O Frost Heave O Frozen Components O Other NF_OTHER_DETAILS 5. Describe: NF_OTHER_DETAILS amage sub-cause is selected. NF_EXTREME_WEATHER_IND			
□ Earth Movement, NOT due to Heavy Rains/Floods □ Heavy Rains/Floods □ Lightning □ Temperature □ High Winds □ Tree/Vegetation Roots □ Damage from Snow/Ice Impact or Accumulation □ Other Natural Force Damage Complete the following if any Natural Force D 6. Were the natural forces causing the Incident	EARTH_SUBTYPE 1. Specify: O Earthquake O Subsidence O Landslide O OtherNF_OTHER_DETAILS HEAVY_RAINS_SUBTYPE 2. Specify: O Washouts/Scouring O Flotation O Mudslide O OtherNF_OTHER_DETAILS LIGHTNING_SUBTYPE 3. Specify: O Direct hit O Secondary impact such as resulting nearby fires TEMPERATURE_SUBTYPE 4. Specify: O Thermal Stress O Frost Heave O Frozen Components O OtherNF_OTHER_DETAILS 5. Describe:NF_OTHER_DETAILS			

Activity Question 2) is Main, Service, or Service Riser. 1. Date of the most recent Leak Survey conducted: / / / / / / / / / / / / / / / / / / /				
Contractor (Second Party) Excavation Damage by Third Party				
Complete the following ONLY IF the "Part of system involved in Incident" (for Question 2) is Main, Service, or Service Riser. 1. Date of the most recent Leak Survey conducted: Lake S				
Activity Question 2) is Main, Service, or Service Riser. EX_HYDROTEST_LEAK_SUP 1. Date of the most recent Leak Survey conducted:				
3. Did the operator get prior notification of the excavation activity? O Yes O No ONE_CALL_SYSTEM_IND	1. Date of the most recent Leak Survey conducted:			
3. Did the operator get prior notification of the excavation activity? O Yes O No ONE_CALL_SYSTEM_IND				
3a. If Yes, Notification received from: (select all that apply) O One-Call System O Excavator O Contractor O Landowr 3b. Per the primary Incident Investigator report, did State law exempt the excavator from notifying the one-call center? O Yes O No C Unknown If yes, answer 3c through 3e. STATE_LAW_EXEMPT_TYPE 3c. (select only one) O Excavator is exempt O Activity is exempt and did not exceed the limits of the exemption O Activity is exempt and exceeded the limits of the exemption O Other mandatory text field: STATE_LAW_EXEMPT_DETAIL 3d. Exempting Authority: STATE_LAW_EXEMPT_AUTHORITY				
3e. Exempting Criteria: STATE_LAW_EXEMPT_CRITERIA	er			
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)? OYes O No NOTIFY_CGA_DIRT				
5. Right-of-Way where event occurred: (select all that apply) PUBLIC_ROW_IND PUBLIC_SUBTYPE Public_FROW_IND Private Disperify: O City Street O State Highway O County Road O Interstate Highway O Other Private Disperify: O Private Landowner O Private Business O Private Easement Pipeline Property/Easement PIPELINE_EASEMENT_ROW_IND Power/Transmission Line POWER_TRANSMISSION_ROW_IND 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				
O Contractor O County O Developer O Farmer O Municipality O Occupant O Railroad O State O Utility O Data not collected O Unknown/Other				
7. Type of excavation equipment: (select only one) EXCAVATOR_EQUIPMENT				
O Auger O Backhoe/Trackhoe O Boring O Drilling O Directional Drilling O Explosives O Farm Equipment O Grader/Scraper O Hand Tools O Milling Equipment O Probing Device O Trencher O Vacuum Equipment O Data not collected O Unknown/Other				
8. Type of work performed: (select only one) WORK_PERFORMED				
O Agriculture O Cable TV O Curb/Sidewalk O Building Construction O Building Demolition O Drainage O Driveway O Electric O Engineering/Surveying O Fencing O Grading O Irrigation O Landscaping O Liquid Pipeline O Milling				

O Natural Gas	O Pole O Public	Transit Authority	O Railro	ad Maintenance	O Road Work
O Sewer (Sanitary/Storm)	O Site Development	O Steam	O Storm	Drain/Culvert	OStreet Light
O Telecommunications	OTraffic Signal	O Traffic Sign	O Water	r	O Waterway Improvement
O Data not collected	O Unknown/Other				
9. Was the One-Call Center notif	, NOTIFIED IND fied? O Yes O	No If No, skip to c	uestion 13		
9a. If Yes, specify ticke			1 1 1 1	<u> </u>	
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: VISIBLE MARKS	O Utility Owner	O Contractor Loc	cator	O Data not collected	O Unknown/Other
VISIBLE_MARKS 11. Were facility locate marks vis	sible in the area of excav	ation? O No	O Yes	O Data not collecte	d O Unknown/Other
FACILITIES_MARKED 12. Were facilities marked correct SERVICE INTERRUPTIO	ctly?	O No	O Yes	O Data not collecte	ed O Unknown/Other
13. Did the damage cause an int		O No	O Yes	O Data not collecte	ed O Unknown/Other
13a. If Yes, specify du	ration of the interruption:	INTERRUPTION_H	/ hours		
ROOT_CAUSE	Doot Cours (solest only	, the ana prodomina	nt first lavel	CCA DIDT Boot Cour	as and than where available as
14. Description of the CGA-DIRT a choice, the one predominant se			ınt tirst level	CGA-DIRT ROOT Caus	se and then, where available as
ONE_CALL_SUBTY	YPE				
☐ One-Call Notification	on Practices Not Sufficier	<u>nt:_(select only one)</u>			
_	ation made to the One-C				
	on to One-Call Center ma	ide, but not sufficier	t		
LOCATING SUBTY	ormation provided				
	Not Sufficient: (select of	nly one)			
O Facility co	ould not be found/located				
O Facility ma	arking or location not suf	ficient			
-	as not located or marked				
O Incorrect facility records/maps					
EXCAVATION_SUB	EXCAVATION SUBTYPE				
☐ Excavation Practice	es Not Sufficient: (select	t only one)			
O Excavatio	n practices not sufficient	(other)			
O Failure to	maintain clearance				
	maintain the marks				
_	support exposed facilitie				
	use hand tools where re	•			
O Improper	verify location by test-ho	ne (pot-noing)			
О ппргорег	backilling				
☐ One-Call Notification Center Error					
☐ Abandoned Facility					
☐ <u>Deteriorated Facility</u>	У				
☐ <u>Previous Damage</u>					
☐ <u>Data Not Collected</u>		POOT C	AUSE OTH	FD	
Other / None of the Above (explain)					

G4 – Other Outside Force Dame	age – only one sub-cause can be selected from the shaded left-hand column
☐ Nearby Industrial, Man-made, or Other Fire/Explosion as Primary Cause of Incident	
☐ Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation	VEHICLE_SUBTYPE 1. Vehicle/Equipment operated by: (select only one) Operator Operator's Contractor O Third Party If this sub-cause is picked, complete questions 7-13 below.
☐ 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: OSF_HURRICANE_IND OSF_TROPICAL_STORM_IND OSF_TORNADO_IND O Hurricane O Tropical Storm O Tornado O Heavy Rains/Flood O Other OSF_OTHER_WEATHER_IND OSF_HEAVY_RAINS_IND OSF_OTHER_WEATHER_DETAILS
☐ 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	Complete the following ONLY IF the "Part of system involved in Incident" (from PART C, Question 2) is Main, Service, or Service Riser. OSF_HYDROTEST_LEAK_SURVEY_DATE 3. Date of the most recent Leak Survey conducted:
☐ Intentional Damage	5. Specify: INTENTIONAL_SUBTYPE O Vandalism O Terrorism O Theft of transported commodity O Theft of equipment O Other INTENTIONAL_DETAILS
☐ Erosion of Support Due to Other Utilities	
☐ Other Outside Force Damage	6. Describe: OSF_OTHER_DETAILS
Complete the following if Damage by Car, Truck selected.	k, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation sub-cause is
DRIVER_ISSUED_CITATION	ON_IND led one or more citations related to the incident? O Yes O No O Unknown
If 7. is Yes, what was the nature of the citations (s O 7a. Excessive Speed CITATION_SPI O 7b. Reckless Driving O 7c. Driving Under the Influence CITATI O 7d. Other, describe: CITATION_OTHI DRIVER_IN_CONTROL_IND 8. Was the driver under control of the vehicle at the ESTIMATED_SPEED 9. Estimated speed of the vehicle at the time of in VEHICLE_TYPE 10. Type of vehicle? (select only one) O Motor VEHICLE_TRAVEL_FROM 11. Where did the vehicle travel from to hit the pip O Roadway VEHICLE_TRAVEL_DISTANCE_FT 12. Shortest distance from answer in 11. to the day PROTECTIONS INSTALLED_IND	elect all that apply) EED_IND CKLESS_IND ON_DUI_IND ER_IND CITATION_OTHER_DETAIL The time of the collision? O Yes O No O Unknown Expact (miles per hour)?or O Unknown Cycle/ATV O Passenger Car O Small Truck O Bus O Large Truck Deline facility? (select only one)
O 13b. Barricades, including "jersey" barriers O 13c. Guard Rails PROTECTION GUA O 13d. Meter Box PROTECTION MET	TON BOLLARDS POST IND s and fences PROTECTION_BARRICADES_IND RD_RAILS_IND

G5 – Pipe, Weld, or Joint Failur PWJF_FAILURE_TYPE	C – only one sub-cause can be selected from the shaded left-hand column
☐ Body of Pipe	PIPE_BODY_SUBTYPE 1. Specify: O Dent O Gouge O Bend O Arc Burn O Crack O Other PIPE_BODY_DETAILS
□ Butt Weld	BUTT_WELD_SUBTYPE 2. Specify: O Pipe O Fabrication O Other BUTT_WELD_DETAILS
☐ Fillet Weld	FILLET_WELD_SUBTYPE 3. Specify: O Branch O Hot Tap O Fitting O Repair Sleeve O Other FILLET_WELD_DETAILS
☐ Pipe Seam	PIPE_SEAM_SUBTYPE 4. Specify: O LF ERW O HF ERW O Flash Weld O DSAW O SAW O Spiral O Other PIPE_SEAM_DETAILS
☐ Threaded Metallic Pipe	
☐ Mechanical Joint Failure	MEC_FITTING_INVOLVED 5a. Specify the Mechanical Fitting Involved (select only one) Stab
☐ Fusion Joint	PLASTIC_JOINT_SUBTYPE 6. Specify: ○ Butt, Heat Fusion ○ Butt, Electrofusion ○ Saddle, Heat Fusion ○ Saddle, Electrofusion ○ Socket, Heat Fusion ○ Socket, Electrofusion ○ Other PLASTIC_JOINT_DETAILS 7. Year installed:
☐ Other Pipe, Weld, or Joint Failure	10. Describe: PWJF_FAILURE_DETAILS

Complete the following if any Pipe, Weld, or ADDITIONAL_BENT_IND, ADDITIONAL_GOU	ADDITIONAL ADDITIONAL ARC ADDITIONAL LACK FUSION GE_IND, ADDITIONAL_PIPE_BEND_IND, BURN IND, CRACK_IND ADDITIONAL LACK_FUSION IND				
	AL_BUCKLE_IND, ADDITIONAL_WRINKLE_IND, ADDITIONAL_MISALIGNMENT_IND				
11. Additional Factors: (select all that apply)	O Dent O Gouge O Pipe Bend O Arc Burn O Crack O Lack of Fusion				
O Lamination O Buckle O Wrinkle O Misalignment O Burnt Steel ADDITIONAL_BURNT_STEEL_IND O Other ADDITIONAL_OTHER_IND ADDITIONAL_FACTOR_DETAILS					
12. Was the Incident a result of: RESULT_CONSTRUCTION_IND RESULT_CONSTRUCTION_SUBTYPE					
□ Construction defect, specify: RESULT_MATERIAL_IND □ Material defect, specify: Construction defect, specify: RESULT_MATERIAL_SUBTYPE Construction defect, specify: RESULT_MATERIAL_SUBTYPE Construction defect, specify: RESULT_MATERIAL_DETAILS RESULT_MATERIAL_DETAILS					
☐ 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?					
O Yes → Most recent year tested: / / / / / Test pressure (psig): / / / / / / / / / / / / / / / / / / /					
O No HYDROTES	T_CONDUCTED_YEAR HYDROTEST_PRESSURE				
G6 - Equipment Failure- only one sub-cause can be selected from the shaded left-hand column EQ_FAILURE_TYPE					
☐ Malfunction of Control/Relief	Specify: (select all that apply) INSTRUMENTATION IND SCADA IND				
	VALVE IND O Control Valve O Instrumentation O SCADA				
	VALVE_IND O Control Valve O Instrumentation O SCADA CHECK_VALVE_IND O Block_ValvE_IND O Check Valve O Check Valve				
	VALVE_IND O Relief Valve O Power Failure O Stopple/Control Fitting				
PRESSURE_REGU	ILATOR_IND O Pressure Regulator STOPPLE_CONTROL_FITTING_IND Other OTHER_CONTROL_RELIEF_IND OTHER_CONTROL_RELIEF_DETAILS				
	O Other other control replet in other control replet betales				
	OTHER_STRIPPED_IND				
☐ Threaded Connection Failure	2. Specify: O Pipe Nipple O Valve Threads O Threaded Pipe Collar				
	-				
	O Threaded Fitting O Other OTHER_STRIPPED_DETAILS				
	-				
□ Non-threaded Connection Failure	O Threaded Fitting O Other OTHER_STRIPPED_DETAILS OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing				
	O Threaded Fitting O Other OTHER_STRIPPED_DETAILS OTHER_NON_THREADED_IND				
□ Non-threaded Connection Failure	O Threaded Fitting O Other OTHER_STRIPPED_DETAILS OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing O Other OTHER_NON_THREADED_DETAILS VALVE_OTHER_IND				
	O Threaded Fitting O Other OTHER_STRIPPED_DETAILS OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing O Other OTHER_NON_THREADED_DETAILS VALVE_OTHER_IND 4. Specify: O Manufacturing defect O Other VALVE_OTHER_DETAILS				
□ Non-threaded Connection Failure	O Threaded Fitting O Other OTHER_STRIPPED_DETAILS OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing O Other OTHER_NON_THREADED_DETAILS VALVE_OTHER_IND 4. Specify: O Manufacturing defect O Other VALVE_OTHER_DETAILS 4a. Valve type: VALVE_TYPE				
□ Non-threaded Connection Failure	O Threaded Fitting O Other OTHER_STRIPPED_DETAILS OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing O Other OTHER_NON_THREADED_DETAILS VALVE_OTHER_IND 4. Specify: O Manufacturing defect O Other VALVE_OTHER_DETAILS 4a. Valve type: VALVE_TYPE 4b. Manufactured by: EQ_MANUFACTURER				
□ Non-threaded Connection Failure	OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing O Other OTHER_NON_THREADED_DETAILS VALVE_OTHER_IND 4. Specify: O Manufacturing defect O Other VALVE_OTHER_DETAILS 4a. Valve type: VALVE_TYPE 4b. Manufactured by: EQ_MANUFACTURER EQ_MANUFACTURE YEAR 4c. Year manufactured: / / / / or O Unknown				
□ Non-threaded Connection Failure	OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing O Other OTHER_NON_THREADED_DETAILS VALVE_OTHER_IND 4. Specify: O Manufacturing defect O Other VALVE_OTHER_DETAILS 4a. Valve type: VALVE_TYPE 4b. Manufactured by: EQ_MANUFACTURER EQ_MANUFACTURER EQ_MANUFACTURE YEAR 4c. Year manufactured: / / / / or O Unknown VALVE_MATERIAL				
□ Non-threaded Connection Failure	OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing O Other OTHER_NON_THREADED_DETAILS VALVE_OTHER_IND 4. Specify: O Manufacturing defect O Other VALVE_OTHER_DETAILS 4a. Valve type: VALVE_TYPE 4b. Manufactured by: EQ_MANUFACTURER EQ_MANUFACTURE YEAR 4c. Year manufactured: / / / / or O Unknown				
□ Non-threaded Connection Failure	O Threaded Fitting O Other OTHER_STRIPPED_DETAILS OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing O Other OTHER_NON_THREADED_DETAILS VALVE_OTHER_IND 4. Specify: O Manufacturing defect O Other VALVE_OTHER_DETAILS 4a. Valve type: VALVE_TYPE 4b. Manufactured by: EQ_MANUFACTURER EQ_MANUFACTURER 4c. Year manufactured: / / / / or O Unknown VALVE_MATERIAL 4d. Valve Material: □ Steel □ Plastic □ Cast/Wrought Iron □ Ductile Iron				
□ Non-threaded Connection Failure	O Threaded Fitting O Other OTHER_STRIPPED_DETAILS OTHER_NON_THREADED_IND 3. Specify: O O-Ring O Gasket O Other Seal or Packing O Other OTHER_NON_THREADED_DETAILS VALVE_OTHER_IND 4. Specify: O Manufacturing defect O Other VALVE_OTHER_DETAILS 4a. Valve type: VALVE_TYPE 4b. Manufactured by: EQ_MANUFACTURER EQ_MANUFACTURER 4c. Year manufactured: / / / / or O Unknown VALVE_MATERIAL 4d. Valve Material: □ Steel □ Plastic □ Cast/Wrought Iron □ Ductile Iron				

G7 - Incorrect Operation - *only one sub-cause can be selected from the shaded left-hand column OPERATION_TYPE			
☐ Damage by Operator or Operator's Contractor NOT Related to Excavation and NOT due to Motorized Vehicle/Equipment Damage			
☐ Valve Left or Placed in Wrong Position, but NOT Resulting in an Overpressure			
☐ Pipeline or Equipment Overpressured			
☐ Equipment Not Installed Properly			
☐ Wrong Equipment Specified or Installed			
☐ Other Incorrect Operation	1. Describe:	PERATION_DETAILS_	
Complete the following if any Incorrect Operation	on sub-cause is se	lected.	
2. Was this Incident related to: (select all that apply) O Inadequate procedure RELATED_INADEQUATE_PROC_IND O No procedure established RELATED_NO_PROC_IND O Failure to follow procedure RELATED_FAILURE_FOLLOW_IND O Other:* RELATED_OTHER_IND OPERATION_RELATED_DETAILS 3. What category type was the activity that caused the Incident: CATEGORY_TYPE O Construction O Commissioning			
O Decommissioning O Right-of-Way activities O Routine maintenance O Other maintenance O Normal operating conditions O Non-routine operating conditions (about the conditions)	onormal operations of QUALIFICATION	or emergencies)	
• •		in your Operator Qualification Program? O Yes O No	
 4a. If Yes, were the individuals performing the task(s) qualified for the task(s)? QUALIFIED_INDIVIDUALS O Yes, they were qualified for the task(s) O No, but they were performing the task(s) under the direction and observation of a qualified individual O 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	one sub-cause ca	in be selected from the shaded left-hand column	
☐ Miscellaneous	1. Describe:	MISC_DETAILS	
	UNKNOWN_SUBTY 2. Specify:	O Investigation complete, cause of Incident unknown Mandatory comment field: INCIDENT_UNKNOWN_COMMENTS	
□ Unknown		O 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 Pipe/Weld Failure **External Corrosion** EXTRNL_COR_GALVANIC_IND ☐ External Corrosion, Galvanic EXTRNL_COR_ATMOSPHERIC_IND □ Design-related PWF_DESIGN_IND ☐ External Corrosion, Atmospheric COR_STRAY_CURRENT_IND ☐ Construction-related PWF_CONSTRUCTION IND ☐ External Corrosion, Stray Current Induced EXTRNL COR_MICROBIOLOGIC_IND PWF_INSTALLATION_IN ☐ External Corrosion, Microbiologically Induced EXTRNL COR SELECTIVE SEAM_IND ☐ Installation-related ☐ Fabrication-related PWF_FABRICATION IND ☐ Original Manufacturing-related PWF_MANUFACTURING_IND Internal Corrosion ernal Corrosion INTRNL COR CORROSIVE CMDTY IND Internal Corrosion, Corrosive Commodity INTRNL COR WTR DRPOUT ACID IND **Equipment Failure** EQF CONTROL RELEAF IND ☐ Malfunction of Control/Relief Equipment EQF THREADED_COUPLING_IND ☐ Internal Corrosion, Water drop-out/Acid MICROBIOLOGIC_IND ☐ Threaded Connection/Coupling Failure ☐ Internal Corrosion, Microbiological INTRNL COR EROSION IND □ Non-threaded Connection Failure EQF_NON_THREADED_IND □ Internal Corrosion, Erosion ☐ Valve Failure EQF VALVE FAILURE IND Natural Forces NF_EARTH_MOVEMENT IND Incorrect Operation ☐ Earth Movement, NOT due to Heavy Rains/Floods IO DAMAGE_BY_OPERATOR_IND ☐ Heavy Rains/Floods NF_HEAVY_RAINS_IND ☐ Damage by Operator or Operator's Contractor NOT Excavation and NOT Vehicle/Equipment Damage IO_VALVE_POSITION_IND ☐ Lightning NF_LIGHTNING_IND ☐ Valve Left or Placed in Wrong Position, but NOT Resulting in ☐ Temperature NF_TEMPERATURE_IND Overpressure IO EQUIPMENT_OVERPRESSURE_IND ☐ High Winds NF_HIGH_WINDS_IND ☐ Pipeline or Equipment Overpressured ☐ Snow/Ice NF_SNOW_ICE_IND IO_NOT_INSTALLED_PROPERLY_IND ☐ Tree/Vegetation Root NF_VEGITATION_ROOT_IND ☐ Equipment Not Installed Properly WRONG_EQUIPMENT_IND **Excavation Damage** EXCVTN DMG OPERATOR IND ☐ Wrong Equipment Specified or Installed ☐ Excavation Damage by Operator (First Party) EXCVIN DMG OF CONTRACTOR IND ☐ Inadequate Procedure IO_INADEQUATE_PROCEDURE_IND ☐ Excavation Damage by Operator's Contractor (Second Party) EXCVID DMG_THIRD_PARTY_IND EXCVIDED DAMAGE by Third Party_IND ☐ No procedure established IO_NO_PROCEDURE IND □ Excavation Damage by Third Party EXCVID DMG_PREVIOUS_DAMAGE_IND $\hfill \square$ Failure to follow procedures \hfill □ Previous Damage due to Excavation Activity Other Outside Force OSF NEARBY INDUSTRIAL IND ☐ Nearby Industrial, Man-made, or Other Fire/Explosion ☐ Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation OSF BOAT_IND ☐ Damage by Boats, Barges, Drilling Rigs, or Other Adrift Maritime Equipment OSF OTHER MARITIME IND ☐ Routine or Normal Fishing or Other Maritime Activity NOT Engaged in Excavation OSF ELECTRICAL_ARCING_IND □ Electrical Arcing from Other Equipment or Facility OSF TREVIOUS MECHANICAL IND ☐ Previous Mechanical Damage NOT Related to Excavation OSF_INTENTIONAL_IND ☐ Intentional Damage ☐ Other underground facilities buried within 12 inches of the failure location OSF OTHER UNDERGROUND IND

PART H – NARRATIVE DESCRIPTION OF THE INCIDENT	(Attach additional sheets as necessary)
NARRATIVE	
	· · · · · · · · · · · · · · · · · · ·
-	
DART I DEFENDED AND AUTHORIZED DEPOON	
PART I – PREPARER AND AUTHORIZED PERSON	
PREPARER_NAME	PREPARER_TELEPHONE
Preparer's Name (type or print)	Preparer's Telephone Number
PREPARER_TITLE	
Preparer's Title (type or print)	
PREPARER_EMAIL	PREPARER_FAX
Preparer's E-mail Address	Preparer's Facsimile Number
Local Contact Name: optional LOCAL_CONTACT_NAME Local Contact Email: optional LOCAL_CONTACT_EMAI LOCAL CONTACT_TELEPHONE	
AUTHORIZER_NAME	AUTHORIZER_TELEPHONE
Authorized Signer	Authorized Signer Telephone Number
AUTHORIZER_TITLE	AUTHORIZER_EMAIL
Authorized Signer's Title	Authorized Signer's E-mail Address

Note: Field names not on the form are as following:

Field Name	Field Name Description		
IYEAR	Year incident occurred, derived from accident date		