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

OMB NO: 2137-0047

EXPIRATION DATE: 7/31/2015

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

## ACCIDENT REPORT – HAZARDOUS LIQUID PIPELINE SYSTEMS

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 2137-0047. Public reporting for this collection of information is estimated to be approximately 10 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.

Information Collection Clearance Officer, PHMSA, Office of	Pipeline Safety (PHP-30) 1200 New Jersey Avenue, SE, Washington, D.C. 20590.				
INSTRUCTIONS					
information requested and provide specific exar	ructions for completing this form before you begin. They clarify the mples. If you do not have a copy of the instructions, you can obtain ty Web Page at <a href="http://www.phmsa.dot.gov/pipeline/library/forms">http://www.phmsa.dot.gov/pipeline/library/forms</a> .				
PART A – KEY REPORT INFORMATION  Report Type: (select all that apply)   Original  Supplemental  Final  REPORT_TYPE					
1. Operator's OPS-issued Operator Identification Number (OPID): / / / / OPERATOR_ID  2. Name of Operator: NAME  3. Address of Operator: 3.a OPERATOR_STREET_ADDRESS  3.b OPERATOR_CITY_NAME (City)  3.c State: / / / OPERATOR_STATE_ABBREVIATION  3.d Zip Code: / / / / / - / / / OPERATOR_POSTAL_CODE					
4. Local time (24-hr clock) and date of the Accident:  LOCAL_DATETIME  Hour Month Day Year  5. Location of Accident:  LOCATION_LATITUDE  Latitude:                      Longitude: -                LOCATION_LOCATION  LOCATION LOCATION  LOCATION  LOCATION LOCATION  LOC	6. National Response Center Report Number (if applicable):  / / / / / NRC_RPT_NUM  7. Local time (24-hr clock) and date of initial telephonic report to the National Response Center (if applicable):  NRC_RPT_DATETIME  / / / / / / / / / / / / / / / / / / /				

8. Commodity released: (select only one, based on predominant volume released) COMMODITY_RELEASED_TYPE  Crude Oil COMMODITY_SUBTYPE					
☐ Refined and/or Petroleum Product (non-HVL) which is a Liquid at Am	nbient Conditions				
O Gasoline (non-Ethanol) O Diesel, Fuel Oil, Kerosene O Mixture of Refined Products (transmix or other mixture) O Other   Name: COMMODITY_DETAILS	e, Jet Fuel				
<ul> <li>☐ HVL or Other Flammable or Toxic Fluid which is a Gas at Ambient C</li> <li>☐ Anhydrous Ammonia</li> <li>☐ LPG (Liquefied Petroleum Gas) / NGL (Natural Gas Liquid)</li> <li>☐ Other HVL ➡ Name:</li></ul>	O LPG (Liquefied Petroleum Gas) / NGL (Natural Gas Liquid)				
☐ CO₂ (Carbon Dioxide)					
☐ Biofuel / Alternative Fuel (including ethanol blends)  O Fuel Grade Ethanol  O Biodiesel   Blend (e.g. B2, B20, B100): B//////	O Ethanol Blend				
<ul> <li>9. Estimated volume of commodity released unintentionally:</li> <li>10. Estimated volume of intentional and/or controlled release/blowdown: <ul> <li>(only reported for HVL and CO<sub>2</sub> Commodities)</li> </ul> </li> </ul>	UNINTENTIONAL_RELEASE_BBLS				
11. Estimated volume of commodity recovered:	/ / / / ,/ / / / / Barrels				

12. Were there fatalities? O Yes O No FATALITY_IND  If Yes, specify the number in each category:	13. Were there injuries requiring inpatient hospitalization? O Yes O No If Yes, specify the number in each category:					
12.a Operator employees / / / / / / NUM EMP FATALITIES	13.a Operator employees / <u>/ / / / /</u> NUM_EMP_INJURIES					
12.b Contractor employees working for the Operator NUM_CONTR_FATALITIES 12.c Non-Operator	13.b Contractor employees working for the Operator / / / / / NUM_CONTR_INJURIES 13.c Non-Operator					
emergency responders  NUM_ER_FATALITIES  12.d Workers working on the right-of-way, but NOT	emergency responders / / / / / /  NUM_ER_INJURIES  13.d Workers working on the right-of-way, but NOT					
associated with this Operator / / / / / /  NUM WORKER FATALITIES	associated with this Operator / / / / / /  NUM WORKER INJURIES					
12.e General public / / / / / NUM GP FATALITIES	13.e General public /_ / / / / NUM GP INJURIES					
12.f Total fatalities (sum of above) / / / / /	13.f Total injuries (sum of above) / / / / /					
FATAL	INJURE					
14. Was the pipeline/lacility shut down due to the Accident?	CHUTDOWN, EVELAND					
If Yes, complete Questions 14.a and 14.b: (use local time, 24-l	hr clock)					
14.a Local time and date of shutdown SHUTDOWN_DATETIME Hour	//					
14.b Local time pipeline/facility restarted RESTART_DATETIME / / / / / / / / Hour	STILL_SHUTDOWN_IND  / / / / / / / O Still shut down*  Month Day Year (*Supplemental Report required)					
15. Did the commodity ignite? O Yes O No IGNITE_IND						
16. Did the commodity explode? O Yes O No EXPLODE_IND						
17. Number of general public evacuated: / / / / // / NUM_PUB_EVACUATED						
18. Time sequence: (use local time, 24-hour clock)						
18.a Local time Operator identified failure / / /	INCIDENT_IDENTIFIED_DATETIME					
18.b Local time Operator resources arrived on site /_/	our Month Day Year / / / ON_SITE_DATETIME our Month Day Year					

PART B – ADDITIONAL LOCATION INFORMATION				
*1. Was the origin of the Accident onshore? ON_OFF_SHORE  O Yes (Complete Questions 2-12) (VALUE=ONSHORE) O No (Complete Questions 13-15) (VALUE=OFFSHORE)				
If Onshore:	If Offshore:			
ONSHORE_STATE_ABBREVIATION  2. State: /_ / /	13. Approximate water depth (ft.) at the point of the Accident:			
3. Zip Code: / / / / / - / - / / / /	/ / /,/ / OFF_WATER_DEPTH			
4. ONSHORE_CITY_NAME 5 ONSHORE_COUNTY_NAME	14. Origin of Accident: OFF_ACCIDENT_ORIGIN			
City County or Parish  DESIGNATED LOCATION  6. Operator-designated location: (select only one)	□ In State waters OFFSHORE_STATE_ABBREVIATION ⇒ Specify: State: //_/			
☐ Milepost/Valve Station (specify in shaded area below)	→ Specify. State. / / / OFF_INSTATE_AREA Area:			
☐ Survey Station No. (specify in shaded area below)	OFF_INSTATE_BLOCK Block/Tract #: /_ / / /			
	OFFSHORE_COUNTY_NAME Nearest County/Parish:			
7. Pipeline/Facility name: PIPE_FAC_NAME	☐ On the Outer Continental Shelf (OCS)			
8. Segment name/ID: SEGMENT_NAME	Specific Area. OFF_OCS_AREA			
Was Accident on Federal land, other than the Outer Continental	Specify: Area: OFF_OCS_AREA  Block #: / OFF_OCS_BLOCK			
Shelf (OCS)? O Yes O No FEDERAL				
10. Location of Accident: (select only one) LOCATION_TYPE	15. Area of Accident: (select only one) OFF_AREA_ACCIDENT_TYPE			
<ul> <li>☐ Totally contained on Operator-controlled property</li> <li>☐ Originated on Operator-controlled property, but then flowed</li> </ul>	<ul> <li>☐ Shoreline/Bank crossing or shore approach</li> <li>☐ Below water, pipe buried or jetted below seabed</li> </ul>			
or migrated off the property	☐ Below water, pipe on or above seabed			
☐ Pipeline right-of-way INCIDENT_AREA_TYPE	<ul> <li>□ Splash Zone of riser</li> <li>□ Portion of riser outside of Splash Zone, including riser</li> </ul>			
11. Area of Accident (as found): (select only one)	bend			
<ul> <li>☐ Tank, including attached appurtenances</li> <li>☐ Underground ⇒ Specify: O Under soil</li> </ul>	☐ Platform			
O Under a building O Under pavement				
O Exposed due to excavation O In underground enclosed space (e.g., vault)				
O OtherINCIDENT_AREA_DETAILS				
Depth-of-Cover (in): / /,/ / / DEPTH_OF_COVER  ☐ Aboveground ⇒ Specify:				
O Typical aboveground facility piping or appurtenance				
O Overhead crossing O In or spanning an open ditch				
O Inside a building O Inside other enclosed space				
O Other <u>INCIDENT_AREA_DETAILS</u>				
☐ Transition Area ➡ Specify: O Soil/air interface O Wall				
sleeve O Pipe support or other close contact area O Other INCIDENT_AREA_DETAILS				
CROSSING  12. Did Accident occur in a crossing?: O Yes O No				
If Yes, specify type below:	PRINCE CROSSING IND PRINCE TYPE			
☐ Bridge crossing ⇒ Specify: ○ Cased ○ Uncased ☐ Railroad crossing ⇒ (select all that apply) ☐	BRIDGE_CROSSING_IND, BRIDGE_TYPE  RAILROAD_CROSSING_IND, RAILROAD_TYPE			
O Cased O Uncased O Bored/drilled				
☐ Road crossing ⇒ (select all that apply)  ○ Cased ○ Uncased ○ Bored/drilled	ROAD_CROSSING_IND, ROAD_TYPE			
□ Water crossing □ Values of the control □ Water crossing □ □ Water crossing □ □ Water crossing □ □ Water crossing □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	WATER_CROSSING_IND, WATER_TYPE			
⇒ Specify: ○ Cased ○ Uncased Name of body of water, if commonly known:				
WATER_NAME				
Approx. water depth (ft) at the point of the Accident:  / /,/ / / WATER DEPTH				
(select only one of the following) WATER SUBTYPE				
O Shoreline/Bank 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			
Is the pipeline or facility: PIPE_FACILITY_TYPE     ☐ Interstate     ☐ Intrastate			
Part of system involved in Accident: (select only one)	· · · · · · · · · · · · · · · · · · ·		
<ul> <li>□ Onshore Terminal/Tank Farm Equipment and Piping</li> <li>□ Onshore Equipment and Piping Associated with Belowground</li> <li>□ Onshore Pump/Meter Station Equipment and Piping</li> <li>□ Onshore Pipeline, Including Valve Sites</li> <li>□ Offshore Platform/Deepwater Port, Including Platform-mounte</li> <li>□ Offshore Pipeline, Including Riser and Riser Bend</li> </ul>			
3. Item involved in Accident: (select only one)  PIPE_TYPE Pipe ⇒ Specify: O Pipe Body O Pipe Seam  3.a Nominal diameter of pipe (in): / / // / PIPE_WALL  3.b Wall thickness (in): / // / PIPE_WALL  3.c SMYS (Specified Minimum Yield Strength) of pipe (psi):  3.d Pipe specification: PIPE_SPECIFICATION	PIPE_DIAMETER _THICKNESS		
PIPE SEAM TYPE	O Single CAM O Flock Wolded		
· ·	equency O DSAW O Continuous Welded		
·	Seamless O Other		
	 ACTURE YEAR		
3.h Pipeline coating type at point of Accident PIPE_COATING	<del>-</del>		
	Coal Tar O Asphalt O Polyolefin		
	Field Applied Epoxy O Cold Applied Tape O Paint		
☐ Weld, including heat-affected zone ⇒ Specify: ○ Pipe Girth  If Pipe Girth Weld is selected, complete items 3.a. through h. abov  3.a. through h. and list the different value(s) in Part H - Narrative [  VALVE_TYPE VALVE_MAINLINE_TYPE	ve. If the values differ on either side of the girth weld, enter one value in Description of the Accident.		
☐ Valve O Mainline ⇒ Specify: O Butterfly O Check	O Gate O Plug O Ball O Globe		
	INLINE_DETAILS  VALVE MANUFACTURER		
Mainline valve manufacturer:VALVE_MANUFACTURER     J   Year of manufacture: / / / / VALVE_MANUFACTURE_YEAR			
O Relief Valve O Auxiliary or Other Valve			
□ Pump □ Meter/Prover □ Scraper/Pig Trap □ Sump/Separator □ Repair Sleeve or Clamp □ Hot Tap Equipment □ Stopple Fitting □ Flange □ Relief Line □ Auxiliary Piping (e.g. drain lines) □ Tubing □ Instrumentation			
☐ Tank/Vessel ➡ Specify: O Single Bottom System	O Double Bottom System O Tank Shell O Chime		
TANK_VESSEL_SUBTYPE ○ Roof/Roof Seal ○ Roof Di ○ Appurtenance ○ Other □ Other ITEM_INVOLVED_DETAILS	rain System O Mixer O Pressure Vessel Head or Wall  TANK_VESSEL_DETAILS		
4. Year item involved in Accident was installed: / / / / /	INSTALLATION_YEAR		

5. Material involved in Accident: (select only one) MATERIAL_INVOLVED
☐ Carbon Steel
☐ Material other than Carbon Steel   Specify:   MATERIAL_DETAILS
RELEASE_TYPE  6. Type of Accident involved: (select only one)    Mechanical Puncture   Approx. size: / / / / / / / / in. (axial) by / / / / / / in. (circumferential)    LEAK_TYPE
☐ Overfill or Overflow ☐ Other ➡ Describe: RELEASE_TYPE_DETAILS
Other S Describe: RELEASE_TTPE_DETAILS
PART D – ADDITIONAL CONSEQUENCE INFORMATION
1. Wildlife impact: O Yes O No WILDLIFE_IMPACT_IND  1.a If Yes, specify all that apply:  Fish/aquatic FISH_AQUATIC_IMPACT_IND  Birds BIRDS_IMPACT_IND  Terrestrial TERRESTRIAL_IMPACT_IND
2. Soil contamination: O Yes O No SOIL_CONTAMINATION
3. Long term impact assessment performed or planned: O Yes O No LONG_TERM_ASSESSMENT
4. Anticipated remediation: O Yes O No (not needed) REMEDIATION_IND
4.a If Yes, specify all that apply:
SURFACE_WATER_REMED_IND, GROUNDWATER_REMED_IND, SOIL_REMED_IND, VEGETATION_REMED_IND, WILDLIFE_REMED_IND
☐ Surface water ☐ Groundwater ☐ Soil ☐ Vegetation ☐ Wildlife
5. Water contamination: O Yes   → (Complete 5.a – 5.c below) O No WATER_CONTAM_IND
5.a Specify all that apply:  OCEAN_SEAWATER_IND  OCEAN_SEAWATER_IND
U Ocean/Seawater Suprace CONTAM IND
☐ Surface
Groundwater Contam Ind Private_Well_Contam_ind Public_Water_Contam_ind
☐ Drinking water ☐ (Select one or both) ☐ Private Well ☐ Public Water Intake AMOUNT_RELEASED
5.b Estimated amount released in or reaching water: / / / // / / / / / / / Barrels  5.c Name of body of water, if commonly known: REL_WATER_NAME
5.c Name of body of water, if commonly known:
COULD_BE_HCA 6. At the location of this Accident, had the pipeline segment or facility been identified as one that "could affect" a High Consequence Area (HCA) as determined in the Operator's Integrity Management Program? O Yes O No  COMMODITY_REACHED_HCA 7. Did the released commodity reach or occur in one or more High Consequence Area (HCA)? O Yes O No
7.a If Yes, specify HCA type(s): (select all that apply)
☐ Commercially Navigable Waterway COMMERCIALLY_NAV_IND Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program?  O Yes O No COMMERCIALLY_NAV_YES_NO
<ul> <li>☐ High Population Area HIGH_POP_IND</li> <li>Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program?</li> <li>○ Yes ○ No HIGH_POP_YES_NO</li> </ul>
<ul> <li>Other Populated Area OTHER_POP_IND</li> <li>Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program?</li> <li>O Yes</li> <li>O No</li> <li>OTHER_POP_YES_NO</li> </ul>
<ul> <li>☐ Unusually Sensitive Area (USA) – Drinking Water <u>USA_DRINKING_IND</u></li> <li>Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program?</li> <li>○ Yes ○ No <u>USA_DRINKING_YES_NO</u></li> </ul>
<ul> <li>☐ Unusually Sensitive Area (USA) – Ecological USA_ECOLOGICAL_IND         Was this HCA identified in the "could affect" determination for this Accident site in the Operator's Integrity Management Program?         O Yes O No USA_ECOLOGICAL_YES_NO</li> </ul>

B. Estimated cost of Operator's property damage (s. Cost _ORS_RELASED	8. Estimated Property Damage:	
8.c Estimated cost of Operator's property damage 8 repairs 8.d Estimated cost of Operator's emergency responses 2003		<u> </u>
8.6 Estimated cost of Operator's emorgency reposits COST_CHREGENCY		\$ <u>/                                   </u>
8.6 Estimated cost of Operator's environmental reinediation \$ _	8.c Estimated cost of Operator's property damage & repairs	\$ <u>/                                   </u>
8.6 Estimated cost of Operator's environmental reinediation \$ _	8.d Estimated cost of Operator's emergency response	\$ <u>/                                   </u>
## EST_COST_OTHER S		\$/
8.g Total estimated property damage (sum of above) PRPTY \$ / / / / / / / ACCIDENT_PSIG  PRESSURE ADDITIONAL OPERATING INFORMATION  1. Estimated pressure at the point and time of the Accident (psig): / / / / / ACCIDENT_PSIG  Morp PSIG  3. Describe the pressure on the system or facility relating to the Accident: (select only one)   ACCIDENT_PRESSURE    Pressure on the system or facility relating to the Accident: (select only one)   ACCIDENT_PRESSURE    Pressure exceeded MOP   Pressure exceeded MOP   Pressure exceeded 10% of MOP   Pressure extriction of MOP   Pressure exceeded 10% of M	EST COST OTHER	\$/ / / // / / / /
PART E - ADDITIONAL OPERATING INFORMATION    Stimulated pressure at the point and time of the Accident (psig):	FET COST OTHER DETAILS	¥
1. Estimated pressure at the point and time of the Accident (psig):		
1. Estimated pressure at the point and time of the Accident (psig):		
2. Maximum Operating Pressure (MOP) at the point and time of the Accident (psig):		
3. Describe the pressure on the system or facility relating to the Accident: (select only one) ACCIDENT_PRESSURE    Pressure did not exceed MOP   Pressure exceeded MOP, but did not exceed 110% of MOP   Pressure exceeded 110% of MOP 4. Not including pressure reductions required by PHMSA regulations (such as for repairs and pipe movement), was the system or facility relating to the Accident operating under an established pressure restriction with pressure limits below those normally allowed by the MOP?   No	, , , , , , , , , , , , , , , , , , , ,	
Pressure was exceeded MOP, but did not exceed 110% of MOP   Pressure exceeded MOP, but did not exceed 110% of MOP   Pressure exceeded MOP, but did not exceed 110% of MOP   Pressure exceeded MOP, but did not exceed 110% of MOP   Pressure exceeded MOP, but did not exceed 110% of MOP   No		
Pressure exceeded MOP, but did not exceed 110% of MOP   Pressure exceeded 110% of MOP		ct only one) ACCIDENT_PRESSURE
Pressure exceeded 110% of MOP 4. Not including pressure reductions required by PHMSA regulations (such as for repairs and pipe movement), was the system or facility relating to the Accident operating under an established pressure restriction with pressure limits below those normally allowed by the MOP?	_	
4. Not including pressure reductions required by PHMSA regulations (such as for repairs and pipe movement), was the system or facility relating to the Accident operating under an established pressure restriction with pressure limits below those normally allowed by the MOP?    No   PRESSURE RESTRICTION IND	_	
relating to the Accident operating under an established pressure restriction with pressure limits below those normally allowed by the MOP?    No		or repairs and pipe movement), was the system or facility
Yes		
4.a Did the pressure exceed this established pressure restriction? PHMSA RESTRICTION IND 4.b Was this pressure restriction mandated by PHMSA or State  O Not mandated  5. Was "Onshore Pipeline, Including Valve Sites" OR "Offshore Pipeline, Including Riser and Riser Bend" selected in PART C, Question 2?    No	PRESSURE_RESTRICTION_IND	
4.b Was this pressure restriction mandated by PHMSA or the State?  ○ PHMSA ○ State ○ Not mandated  5. Was "Onshore Pipeline, Including Valve Sites" OR "Offshore Pipeline, Including Riser and Riser Bend" selected in PART C, Question 2?  □ No	EXCEED_RESTRICTION_IND	
4.b Was this pressure restriction mandated by PHMSA or the State? ○ PHMSA ○ State ○ Not mandated  5. Was "Onshore Pipeline, Including Valve Sites" OR "Offshore Pipeline, Including Riser and Riser Bend" selected in PART C, Question 2?  No PART_C_QUESTION_2_IND  State Or upStream Valve Type In Describe  S.a Type of upStream Valve Used to initially isolate release source: ○ Manual ○ Automatic ○ Remotely Controlled DOWNSTREAM VALVE TYPE_IND  S.b Type of downstream valve used to initially isolate release source: ○ Manual ○ Automatic ○ Remotely Controlled ○ Check Valve  5.c Length of segment initially isolated between valves (ft): // // // LENGTH_SEGMENT_ISOLATED  5.d Is the pipeline configured to accommodate internal inspection tools? INTERNAL_INSPECTION_IND  Yes ○ Changes in line pipe diameter DIAMETER_CHANGE_IND  O Changes in line pipe diameter DIAMETER_CHANGE_IND  UNSUITABLE_MAINLINE_IND  Tight or mitered pipe bends UNSUITABLE_MAINLINE_IND  O Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools INTERNAL_INSPECTION_IND INTERNAL_INSPECTION_DETAILS  5.e For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run?  No OPERATION_COMPLICATIONS_IND  Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND  Low operating pressure(s) LOW_OP_PRESSURE_IND  Low operating pressure(s) LOW_OP_PRESSURE_IND  Low operating pressure(s) LOW_OP_PRESSURE_IND  No OTHER_COMPLICATIONS_IND INCOMPAT_COMMOD_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION □ > 20% SMYS Regulated Gathering		O Yes O No
No		O PHMSA O State O Not mandated
No	5 Was "Oashars Bissling Isabelias Value Citas" OB "Offshars Bissling Isabelia	an Diagram and Diagram Double and a starting DADT O. Oversting CO.
Yes		ng Riser and Riser Bend Selected in PART C, Question 2?
S.a Type of upstream valve used to initially isolate release source:   O Manual		
5.b Type of downstream valve used to initially isolate release source:    O Manual   O Automatic   O Remotely Controlled   O Check Valve	UPSTREAM_VALVE_TYPE_IND  5 a Type of unstream valve lised to initially isolate release source:	O Manual O Automatic O Remotely Controlled
S.c Length of segment initially isolated between valves (ft):	DOWNSTREAM_VALVE_TYPE_IND	
5.d Is the pipeline configured to accommodate internal inspection tools? INTERNAL_INSPECTION_IND  Yes  No which physical features limit tool accommodation? (select all that apply)  Changes in line pipe diameter Presence of unsuitable mainline valves Tight or mitered pipe bends Tight or mitered pipe bends Tight_MITERED_IND Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools) Other possoribe: OTHER_INSPECTION_IND INTERNAL_INSPECTION_DETAILS  5.e For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run?  No OPERATION_COMPLICATIONS_IND  Yes which physical features limit tool accommodation? (select all that apply)  Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND  Low operating pressure(s) Low_OP_PRESSURE_IND  Low flow or absence of flow INCOMPAT_COMMOD_IND  Incompatible commodity INCOMPAT_COMMOD_IND  Other poscribe: OTHER_COMPLICATIONS_IND  INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION  > 20% SMYS Regulated Gathering	5.b Type or downstream valve used to initially isolate release source:	•
Yes	5.c Length of segment initially isolated between valves (ft): /_/	/ /,J / / LENGTH_SEGMENT_ISOLATED
No	5.d Is the pipeline configured to accommodate internal inspection tools?	INTERNAL INSPECTION IND
O Changes in line pipe diameter O Presence of unsuitable mainline valves O Tight or mitered pipe bends O Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.) O Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools) O Other ⇒ Describe: OTHER_INSPECTION_IND INTERNAL_INSPECTION_DETAILS  5.e For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run?  No OPERATION_COMPLICATIONS_IND  Yes ⇒ Which operational factors complicate execution? (select all that apply)  Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND  Low operating pressure(s) Low_OP_PRESSURE_IND  Low flow or absence of flow INCOMPAT_COMMOD_IND  Incompatible commodity INCOMPAT_COMMOD_IND  O Other ⇒ Describe: OTHER_COMPLICATIONS_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION  > 20% SMYS Regulated Trunkline/Transmission > 20% SMYS Regulated Gathering	☐ Yes	_ ' ' ' ' -
O Presence of unsuitable mainline valves  O Tight or mitered pipe bends  TIGHT_MITERED_IND  O Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.)  Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools)  O Other  Describe:  OTHER_INSPECTION_IND  INTERNAL_INSPECTION_DETAILS  5.e For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run?  No OPERATION_COMPLICATIONS_IND  Yes  Which operational factors complicate execution? (select all that apply)  Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND  Low operating pressure(s)  Low_OP_PRESSURE_IND  Low flow or absence of flow  Incompatible commodity  Incompat_commod_IND  Other  Describe:  OTHER_COMPLICATIONS_IND  INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one)  PIPELINE_FUNCTION  > 20% SMYS Regulated Gathering	☐ No ➡ Which physical features limit tool accommodation	on? (select all that apply)
Tight or mitered pipe bends  Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.)  Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools)  Other Describe: OTHER_INSPECTION_IND INTERNAL_INSPECTION_DETAILS  5.e For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run?  No OPERATION_COMPLICATIONS_IND  Yes Describe: OTHER_INSPECTION (select all that apply)  Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND  Low operating pressure(s)  Low_OP_PRESSURE_IND  Low flow or absence of flow Incompatible commodity INCOMPAT_COMMOD_IND  Incompatible commodity INCOMPAT_COMMOD_IND  Other Describe: OTHER_COMPLICATIONS_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION  > 20% SMYS Regulated Trunkline/Transmission	O Changes in line pipe diameter	
Other passage restrictions (i.e. unbarred tee's, projecting instrumentation, etc.)  Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools)  Other  Describe: OTHER_INSPECTION_IND INTERNAL_INSPECTION_DETAILS  5.e For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run?  No OPERATION_COMPLICATIONS_IND  Yes  Which operational factors complicate execution? (select all that apply)  Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND  Low operating pressure(s)  Low_OP_PRESSURE_IND  Low flow or absence of flow Low_FLOW_IND  Incompatible commodity INCOMPAT_COMMOD_IND  Other  Describe: OTHER_COMPLICATIONS_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION  > 20% SMYS Regulated Trunkline/Transmission > 20% SMYS Regulated Gathering	_	
O Extra thick pipe wall (applicable only for magnetic flux leakage internal inspection tools) O Other → Describe: OTHER_INSPECTION_IND INTERNAL_INSPECTION_DETAILS  5.e For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run?  No OPERATION_COMPLICATIONS_IND  Yes → Which operational factors complicate execution? (select all that apply)  Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND  Low operating pressure(s) LOW_OP_PRESSURE_IND  Low flow or absence of flow LOW_FLOW_IND  Incompatible commodity INCOMPAT_COMMOD_IND  O ther → Describe: OTHER_COMPLICATIONS_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION  > 20% SMYS Regulated Trunkline/Transmission		or's projecting instrumentation etc.) OTHER_RESTRICTIONS_IND
Other □ Describe: OTHER_INSPECTION_IND INTERNAL_INSPECTION_DETAILS  5.e For this pipeline, are there operational factors which significantly complicate the execution of an internal inspection tool run?  No OPERATION_COMPLICATIONS_IND  Yes □ Which operational factors complicate execution? (select all that apply)  Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND  Low operating pressure(s)  Low_OP_PRESSURE_IND  Low_flow_IND  Incompatible commodity  Incompatible commodity  Other □ Describe: OTHER_COMPLICATIONS_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION  > 20% SMYS Regulated Trunkline/Transmission □ > 20% SMYS Regulated Gathering		EXTRA THICK WALL IND
No OPERATION_COMPLICATIONS_IND     Yes → Which operational factors complicate execution? (select all that apply)     Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND     Low operating pressure(s)   LOW_OP_PRESSURE_IND     Low flow or absence of flow   LOW_FLOW_IND     O Incompatible commodity   INCOMPAT_COMMOD_IND     O Other → Describe: OTHER_COMPLICATIONS_IND   INSPECT_COMP_DETAILS     S.f Function of pipeline system: (select only one)   PIPELINE_FUNCTION     > 20% SMYS Regulated Trunkline/Transmission   > 20% SMYS Regulated Gathering		
No OPERATION_COMPLICATIONS_IND     Yes → Which operational factors complicate execution? (select all that apply)     Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND     Low operating pressure(s)   LOW_OP_PRESSURE_IND     Low flow or absence of flow   LOW_FLOW_IND     O Incompatible commodity   INCOMPAT_COMMOD_IND     O Other → Describe: OTHER_COMPLICATIONS_IND   INSPECT_COMP_DETAILS     S.f Function of pipeline system: (select only one)   PIPELINE_FUNCTION     > 20% SMYS Regulated Trunkline/Transmission   > 20% SMYS Regulated Gathering	5 e. For this ningline, are there operational factors which significantly co	mplicate the execution of an internal inspection tool run?
Yes       → Which operational factors complicate execution? (select all that apply)         ○ Excessive debris or scale, wax, or other wall build-up       EXCESSIVE_DEBRIS_IND         ○ Low operating pressure(s)       LOW_OP_PRESSURE_IND         ○ Low flow or absence of flow       LOW_FLOW_IND         ○ Incompatible commodity       INCOMPAT_COMMOD_IND         ○ Other → Describe:       OTHER_COMPLICATIONS_IND       INSPECT_COMP_DETAILS     5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION    > 20% SMYS Regulated Trunkline/Transmission	· · · · · · · · · · · · · · · · · · ·	inplicate the execution of an internal inspection tool furn
O Excessive debris or scale, wax, or other wall build-up EXCESSIVE_DEBRIS_IND O Low operating pressure(s) O Low flow or absence of flow O Incompatible commodity O Other → Describe: OTHER_COMPLICATIONS_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION □ > 20% SMYS Regulated Trunkline/Transmission □ > 20% SMYS Regulated Gathering		n? (select all that apply)
O Low operating pressure(s) O Low flow or absence of flow O Incompatible commodity O Other → Describe: OTHER_COMPLICATIONS_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION □ > 20% SMYS Regulated Trunkline/Transmission □ > 20% SMYS Regulated Gathering		
O Incompatible commodity INCOMPAT_COMMOD_IND O Other → Describe: OTHER_COMPLICATIONS_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION  □ > 20% SMYS Regulated Trunkline/Transmission □ > 20% SMYS Regulated Gathering	O Low operating pressure(s)	OP_PRESSURE_IND
O Other → Describe: OTHER_COMPLICATIONS_IND INSPECT_COMP_DETAILS  5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION  □ > 20% SMYS Regulated Trunkline/Transmission □ > 20% SMYS Regulated Gathering		<del>-</del>
5.f Function of pipeline system: (select only one) PIPELINE_FUNCTION  □ > 20% SMYS Regulated Trunkline/Transmission □ > 20% SMYS Regulated Gathering	- moonpatible commodity	
□ > 20% SMYS Regulated Trunkline/Transmission □ > 20% SMYS Regulated Gathering	3 Other 4 Bessenbe	
		SMVS Pagulated Cathoring
= = 2070 Smile Regulated Statistics Plansing	l <u> </u>	•
		<u>-</u> <u>-</u>

6.	_	•	·	ion (SCADA)-ba	sed system in pla	ce on the pip	eline or fa	cility involved in the Accident?
		No Yes <b>⊏</b> >	SCADA_IN_PLACE_IND 6.a Was it operating at the	time of the Accid	dent?	O Yes	O No	SCADA_OPERATING_IND
		,	6.b Was it fully functional at			O Yes	O No	SCADA FUNCTIONAL IND
			•					ne calculations) assist with the
			detection of the Accident?			O Yes	O No	SCADA_DETECTION_IND
			6.d Did SCADA-based infor confirmation of the Accident		alarm(s), alert(s),	event(s), and O Yes	d/or volun O No	ne calculations) assist with the  SCADA_CONF_IND
7 '	Mac	a CPM load	k detection system in place or	a the pipeline or t	facility involved in	the Assident	2	
۲.		No No	CPM_IN_PLACE_IND	i tile pipelille oi	iacility irrivolved irr	THE ACCIDENT	·	
		Yes 🖒	7.a Was it operating at the	time of the Accid	dent?	O Yes	O No	CPM_OPERATING_IND
			7.b Was it fully functional at	t the time of the A	Accident?	O Yes	O No	CPM_FUNCTIONAL_IND
			7.c Did CPM leak detection with the detection of the Acc	•	ion (such as alarr	n(s), alert(s), O Yes	event(s), O No	and/or volume calculations) assist  CPM_DETECTION_IND
			7.d Did CPM leak detection	system informat	tion (such as alarr	m(s), alert(s),	event(s),	and/or volume calculations) assist
			with the confirmation of the	Accident?		O Yes	O No	CPM_CONF_IND
0	بر داد	was the As	aidant initially identified for th	o Operator? (ac	last ank anal	ACCIDENT_ID	FNTIFIFR	
ο.			cident initially identified for the detection system or SCADA-b		• •	<del>-</del>		nd/or volume calculations)
			in Test or Other Pressure or		i (Sucii as alaiii)(s	s), alert(s), ev	ent(s), ai	id/of voidiffe calculations)
		Controller			☐ Local Operating	ng Personnel,	including	g contractors
		Air Patrol			☐ Ground Patrol			
			from Public		☐ Notification fro	•		nder
			from Third Party that caused		Other	ACCIDENT_DI		
			er", "Local Operating Personi estion 8, specify the following				nd Patrol	by Operator or its contractor" is
			O Operator employee	O Contractor w	orking for the Ope	erator		
9. '			ation initiated into whether or lect only one) INVESTIGATION		r(s) or control roo	m issues wer	e the cau	se of or a contributing factor to the
		☐ Yes, b	out the investigation of the cor	ntrol room and/or	controller actions	has not yet l	oeen com	pleted by the Operator (Supplemental
		Report red	' '					
			e facility was not monitored b	•			tral room	issues was necessary due to:
			n explanation for why the Ope			STIGATION S		•
		☐ Yes, s	pecify investigation result(s):	(select all that a	pply)			
						ours of servic	e (while v	working for the Operator) and other
		_	tors associated with fatigue Investigation did NOT revie	INVEST_SCHED	_	uous hours of	service (	while working for the Operator) and
			er factors associated with fat	igue <i>(provide an</i>				
		_						
		Ō	Investigation identified no c	control room issue	es invest	NO_CONTROL	. ROOM I	IND
			Investigation identified no c		_	NO CONTROL		
		_	Investigation identified inco		_	_	_	RRECT_ACTION_IND
		0			e affected the cor	ntroller(s) invo	lved or in	npacted the involved controller(s)
		_	ponse INVEST_FATIGUE_I		INDUST INCOM	DECT DROCE	NIDE INC	
		0	3					RRECT CONTROL IND
		0	_	ntenance activitie				procedures, and/or controller
		0	Investigation identified area		se above 🖒 Des	cribe: INVE	ST_OTHER	R_IND, INVEST_OTHER_IND_DETAILS
		_						

PART F - DRUG & ALCOHOL TEST	ING II	NFORMATION
As a result of this Accident, were an Drug & Alcohol Testing regulation     O No		erator employees tested under the post-accident drug and alcohol testing requirements of DOT's EMPLOYEE_DRUG_TEST_IND
O Yes ⊏> *1.a Specify how ma	any we	ere tested: //NUM_EMPLOYEES_TESTED
*1.b Specify how ma	-	
, ,	ny Ope	erator contractor employees tested under the post-accident drug and alcohol testing requirements
O Yes 🖒 *2.a Specify how ma	any we	ere tested: / / NUM_CONTRACTORS_TESTED
*2.b Specify how m	•	NUMA CONTRACTORS FAILED
2.5 Opcomy now m	arry ra	<del>, , ,</del>
PART G – APPARENT CAUSE CAUSE, CAUSE_DETAILS (sub-cause)		Select only one box from PART G in the shaded column on the left representing the APPARENT Cause of the Accident, and answer the questions on the right. Describe secondary, contributing, or root causes of the Accident in the narrative (PART H).
G1 - Corrosion Failure	: – *on	ly one <b>sub-cause</b> can be picked from shaded left-hand column
☐ External Corrosion		Results of visual examination: VISUAL EXAM RESULTS
External Corrosion		O Localized Pitting O General Corrosion
		O OtherVISUAL_EXAM_DETAILS
		Type of corrosion: (select all that apply)     GALVANIC CORROSION_IND, ATMOSPHERE_CORROSION_IND, STRAY_CURRENT_CORROSION_IND,     MICROBIOLOGICAL_CORROSION_IND, SELECTIVE_SEAM_CORROSION_IND     Galvanic O Atmospheric O Stray Current O Microbiological O Selective Seam     Other OTHER_CORROSION_IND, CORROSION_TYPE_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 under the ground? <b>UNDERGROUND LOCATION</b>
		O Yes 🖒 4.a Was failed item considered to be under cathodic protection at the time of
		the Accident? UNDER_CATHODIC_PROTECTION_IN
		O Yes ⇒ Year protection started: /_ / / / / O No CATHODIC_PRO_START_YEAR
		<ul> <li>4.b Was shielding, tenting, or disbonding of coating evident at the point of the Accident?</li> <li>SHIELDING_EVIDENT</li> <li>O Yes</li> <li>O No</li> </ul>
		4.c Has one or more Cathodic Protection Survey been conducted at the point of the Accident? CATHODIC_SURVEY_TYPE
CP_ANNUAL_SURVEY_IND, _YEAR	⇒	O Yes, CP Annual Survey   → Most recent year conducted: / / / / /
CLOSE_INTERVAL_SURVEY_IND, _YEAR	⇨	O Yes, Close Interval Survey   Most recent year conducted: / / / / /
OTHER_CP_SURVEY_IND, _YEAR	⇒	O Yes, Other CP Survey ⇒ Most recent year conducted: / / / /
		O No
		EXTERNALLY_COATED
		O No   → 4.d Was the failed item externally coated or painted? O Yes O No
		<ol> <li>Was there observable damage to the coating or paint in the vicinity of the corrosion?</li> <li>Yes O No PRIOR_DAMAGE</li> </ol>

☐ Internal Corrosion	Results of visual examination: INT_VISUAL_EXAM_RESULTS     O Localized Pitting O General Corrosion O Not cut open     O Other INT_VISUAL_EXAM_DETAILS
	7. Cause of corrosion: (select all that apply)
	INT_CORROSIVE_COMMODITY_IND, INT_WATER_ACID_IND, INT_MICROBIOLOGICAL_IND  O Corrosive Commodity O Water drop-out/Acid O Microbiological O Erosion
	O Other INT_OTHER_CORROSION_IND, INT_CORROSION_TYPE_DETAILS INT_EROSION_IND
	8. The cause(s) of corrosion selected in Question 7 is based on the following: (select all that apply) INT_FIELD_EXAM_BASIS_IND, INT_METALLURGICAL_BASIS_IND  O Field examination O Determined by metallurgical analysis O Other INT_OTHER_BASIS_IND, INT_CORROSION_BASIS_DETAILS
	9. Location of corrosion: (select all that apply)
	INT_LOW_POINT_PIPE_LOC_IND, INT_ELBOW_LOC_IND, INT_OTHER_LOC_IND  O Low point in pipe O Elbow O Other CORROSION_LOCATION_DETAILS
	CORROSION_INHIBITORS  10. Was the commodity treated with corrosion inhibitors or biocides? O Yes O No CORROSION_LINING  11. Was the interior coated or lined with protective coating? O Yes O No
	CLEANING DEWATERING  12. Were cleaning/dewatering pigs (or other operations) routinely utilized?  O Not applicable - Not mainline pipe O Yes O No CORROSION COUPONS  13. Were corrosion coupons routinely utilized?
	O Not applicable - Not mainline pipe O Yes O No
Complete the following if any Corrosion F Tank/Vessel.	railure sub-cause is selected AND the "Item Involved in Accident" (from PART C, Question 3) is
<ol> <li>List the year of the most recent inspe</li> <li>API Std 653 Out-of-Service Inspec</li> <li>API Std 653 In-Service Inspec</li> </ol>	spection ONo Out-of-Service Inspection completed
	failure sub-cause is selected AND the "Item Involved in Accident" (from PART C, Question 3) is
Pipe or Weld.	al collected data at the material title. Academia
O Yes O No COR_INSP_TOO	ol collected data at the point of the Accident? L_COLL_IND
15.a. If Yes, for each tool used, select	type of internal inspection tool and indicate most recent year run:
O Magnetic Flux Leakage Tool	/ / / / COR_MAGNETIC_FLUX_LEAKAGE_IND, COR_MAG_FLUX_LEAKAGE_YEAR
O Ultrasonic	/ / / / COR_ULTRASONIC_IND , _YEAR
O Geometry	/ / / / COR_GEOMETRY_IND , _YEAR
O Caliper	/ / / / COR_CALIPER_IND , _YEAR
O Crack	COR_CRACK_IND , _YEAR
O Hard Spot	/ / / / COR_HARDSPOT_IND , _YEAR
O Combination Tool	COR_COMBINATION_TOOL_IND, _YEAR
O Transverse Field/Triaxial	/ / / / COR_TRANSVERSE_FIELD_IND , _YEAR
O OtherCOR_HYDROTEST_CONDUCTED_IND	/ / / / / COR_INSPECTION_OTHER_IND , _YEAR , _DETAILS
<ol><li>Has one or more hydrotest or other pre</li></ol>	ssure test been conducted since original construction at the point of the Accident?
O Yes   → Most recent year teste  O No  COR	d: //_/_/ Test pressure (psig): //_/_/ _HYDROTEST_CONDUCTED_YEAR COR_HYDROTEST_PRESSURE
	een conducted on this segment?    DIRECT_INSPECTION_TYPE    DIRECT_YES_DIG_YEAR   as conducted at the point of the Accident    Most recent year conducted:    // / / /
O Yes, but the point of the Accide	• • • • • • • • • • • • • • • • • • • •
O No	
O Yes O No COR_NON_DESTR	
year the examination was conducted:	ducted since January 1, 2002, select type of non-destructive examination and indicate most recent
O Radiography	/ / / / COR_RADIOGRAPHY_IND , YEAR
O Guided Wave Ultrasonic	/ / / / COR_GUIDED_WAVE_IND , _YEAR
O Handheld Ultrasonic Tool	/ / / / COR_HANDHELD_ULTRA_IND,_YEAR
O Wet Magnetic Particle Test	
() Dry Magnetic Particle Test	/ / / / COR_WET_MAGNETIC_IND, _YEAR
O Dry Magnetic Particle Test O Other COR_NON_DEST_DETA	/ / / / COR DRY MAGNETIC IND, YEAR

G2 - Natural Force Damage - *only one sub-cause can be picked from shaded left-hand column			
NATURAL_FORCE_TYPE ☐ Earth Movement, NOT due to Heavy Rains/Floods	1. Specify: O Earthquake O Subsidence O Landslide O Other NF_OTHER_DETAILS		
☐ Heavy Rains/Floods	PEAVY_RAINS_SUBTYPE 2. Specify: O Washout/Scouring O Flotation O Mudslide O Other NF_OTHER_DETAILS		
☐ Lightning	LIGHTNING SUBTYPE 3. Specify: O Direct hit O Secondary impact such as resulting nearby fires		
☐ Temperature	4. Specify: O Thermal Stress O Frost Heave O Frozen Components O Other NF_OTHER_DETAILS		
☐ High Winds			
☐ Other Natural Force Damage	5. Describe: NF_OTHER_DETAILS		
Complete the following if any Natural Force 6. Were the natural forces causing the Accidental forces and the following if any Natural Force 6.a If Yes, specify: (select all that apply)	dent generated in conjunction with an extreme weather event? O Yes O No  NF_HURRICANE_IND NF_TROPICAL_STORM_IND NF_TORNADO_IND O Hurricane O Tropical Storm O Tornado O Other NF_OTHER_IND NF_EXTREME_WEATHER_DETAILS		
G3 – Excavation Damage -	*only one <b>sub-cause</b> can be picked from shaded left-hand column		
☐ Excavation Damage by Operator (First Party)			
☐ Excavation Damage by Operator's Contractor (Second Party)			
☐ Excavation Damage by Third Party			
☐ Previous Damage due to Excavation Activity	Complete Questions 1-5 ONLY IF the "Item Involved in Accident" (from PART C, Question 3) is Pipe or Weld.		
	Has one or more internal inspection tool collected data at the point of the Accident?     O Yes O No		
	1.a If Yes, for each tool used, select type of internal inspection tool and indicate most recent year run:		
EX_MAGNETIC_FLUX_LEAKAGE_IND, _YEAR EX_ULTRASONIC_IND, _YEAR EX_GEOMETRY_IND, _YEAR EX_CALIPER_IND, _YEAR EX_CRACK_IND, _YEAR EX_HARDSPOT_IND, _YEAR EX_COMBINATION_TOOL_IND, _YEAR EX_TRANSVERSE_FIELD_IND, _YEAR EX_INSPECTION_OTHER_IND, _YEAR, _DETAILS	○ Magnetic Flux Leakage       / / / / / /         ○ Ultrasonic       / / / / /         ○ Geometry       / / / / / /         ○ Caliper       / / / / / /         ○ Crack       / / / / / /         ○ Hard Spot       / / / / / /         ○ Combination Tool       / / / / / /         ○ Transverse Field/Triaxial       / / / / / / /         ○ Other       / / / / / /		
	2. Do you have reason to believe that the internal inspection was completed BEFORE the damage was sustained? O Yes O No EX_BEFORE_DAMAGE		
	3. Has one or more hydrotest or other pressure test been conducted since original construction at the point of the Accident? EX_HYDROTEST_CONDUCTED_IND  O Yes  Most recent year tested: Test pressure (psig):  O No  EX_DIRECT_INSPECTION_TYPE  4. Has one or more Direct Assessment been conducted on the pipeline segment? O Yes, and an investigative dig was conducted at the point of the Accident  Most recent year conducted: O Yes, but the point of the Accident was not identified as a dig site  Most recent year conducted: O Yes, DIRECT_YES_DIG_YEAR  O No  No		

	5. Has one or more non-destructive examination been conducted at the point of the Accident since January 1, 2002?  O Yes O No
	5.a If Yes, for each examination conducted since January 1, 2002, select type of non-destructive examination and indicate most recent year the examination was conducted:
EX_RADIOGRAPHY_IND, _YEAR	O Radiography <u>/ / / / /</u>
EX_GUIDED_WAVE_IND, _YEAR	O Guided Wave Ultrasonic /_ / / / /
EX_HANDHELD_ULTRA_IND , _YEAR 🖒	O Handheld Ultrasonic Tool
EX_WET_MAGNETIC_IND, _YEAR →	O Wet Magnetic Particle Test / / / / /
EX_DRY_MAGNETIC_IND, _YEAR	O Dry Magnetic Particle Test // / / /
	O Other
Complete the following if Excavation Damage	/_ /_
Did the Operator get prior notification of the e	xcavation activity? O Yes O Nov PRIOR_NOTIFICATION_IND
6.a If Yes, Notification received from: (sele	,
Complete the following mandatory CGA-DIRT	Program questions if any Excavation Damage sub-cause is selected.
7. Do you want PHMSA to upload the following	information to CGA-DIRT (www.cga-dirt.com)? OYes O No NOTIFY_CGA_DIRT
8. Right-of-Way where event occurred: (select a PUBLIC_ROW_IND, PUBLIC_SUBTYPE Public Specify: O City Street (PRIVATE_ROW_IND, PRIVATE_SUBTYPE) Private Specify: O Private Lando	State Highway O County Road O Interstate Highway O Other
☐ Pipeline Property/Easement ☐ Power/Transmission Line ☐ Railroad ☐ Dedicated Public Utility Easement ☐ Federal Land ☐ Data not collected	PIPELINE EASEMENT ROW IND  POWER_TRANSMISSION_ROW_IND  RAILROAD_ROW_IND  PUBLIC_UTIL_EASEMENT_ROW_IND  FEDERAL_LAND_ROW_IND  DATA_NOT_COLLECTED_ROW_IND  UNKNOWN ROW IND
☐ Unknown/Other	/ATOR_TYPE
O Contractor O County O	Developer O Farmer O Municipality O Occupant Utility O Data not collected O Unknown/Other
10. Type of excavation equipment: (select only	one) EXCAVATOR_EQUIPMENT
O Auger O Backhoe/Trackho	
O Explosives O Farm Equipment O Probing Device O Trencher	O Grader/Scraper O Hand Tools O Milling Equipment O Vacuum Equipment O Data not collected O Unknown/Other
11. Type of work performed: (select only one) O Agriculture O Cable TV O Drainage O Driveway O Grading O Irrigation O Natural Gas O Pole O Sewer (Sanitary/Storm) O Site Deve O Telecommunications O Traffic Sign O Data not collected O Unknown/	nal O Traffic Sign O Water O Waterway Improvement
ONE_CALL_NOTIFIED_IND  12. Was the One-Call Center notified? O Ye	S O NO ONE_CALL_TICKET_NUM
*12.a If Yes, specify ticket number: /_	
	an a single One-Call Center exists, list the name of the One-Call Center notified:
	CENTER_NAME
13. Type of Locator: LOCATOR_TYPE O Utility	
14. Were facility locate marks visible in the area	MARKS of excavation? O No O Yes O Data not collected O Unknown/Other
	S_MARKED O No O Yes O Data not collected O Unknown/Other
SERVICE_  16. Did the damage cause an interruption in ser	INTERRUPTION vice? O No O Yes O Data not collected O Unknown/Other
16.a If Yes, specify duration of the int	
. , , ,	

Description of the CGA-DIRT Roachoice, the one predominant se		redominant first level CGA-DIRT Root Cause and then, where available se as well):  ROOT_CAUSE
· · · · · · · · · · · · · · · · · · ·	Practices Not Sufficient: (select o	only one) ONE_CALL_SUBTYPE
	on made to the One-Call Center	
	o One-Call Center made, but not	sufficient
O Wrong inform	nation provided	
☐ Locating Practices No	t Sufficient: (select only one)	LOCATING SUBTYPE
O Facility could	I not be found/located	
O Facility mark	ing or location not sufficient	
O Facility was	not located or marked	
O Incorrect fac	lity records/maps	
☐ Excavation Practices I	Not Sufficient: (select only one)	EXCAVATION SUBTYPE
O Excavation p	ractices not sufficient (other)	
O Failure to ma	aintain clearance	
O Failure to ma	nintain the marks	
	pport exposed facilities	
	e hand tools where required	
	rify location by test-hole (pot-holin	ng)
O Improper bad	kfilling	
☐ One-Call Notification (	Center Error	
☐ Abandoned Facility		
☐ <u>Deteriorated Facility</u>		
☐ Previous Damage		
☐ Data Not Collected		
Other / None of the Ab	ove (explain) RC	OOT_CAUSE_OTHER

G4 - Other Outside Force Damage - *only one sub-cause can be picked from shaded left-hand column			
OUTSIDE_FORCE_TYPE  Nearby Industrial, Man-made, or Other Fire/Explosion as Primary Cause of Accident			
☐ Damage by Car, Truck, or Other Motorized Vehicle/Equipment NOT Engaged in Excavation	VEHICLE_SUBTYPE  1. Vehicle/Equipment operated by: (select only one) O Operator O Operator's Contractor O Third Party		
☐ 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:  OFF HURRICANE_IND OSF TROPICAL STORM_IND OSF TORNADO_IND  OFF TORNADO_IND 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 Questions 3-7 ONLY IF the "Item Involved in Accident" (from PART C, Question 3) is Pipe or Weld.		
	Has one or more internal inspection tool collected data at the point of the Accident?  OSF_INSPECT_TOOL_COLLECTED_IND  O Yes  O No		
	3.a If Yes, for each tool used, select type of internal inspection tool and indicate most recent year run:		
OSF_MAGNETIC_FLUX_LEAKAGE_IND , _YEAR 🖒	O Magnetic Flux Leakage / / / / /		
OSF_ULTRASONIC_IND, _YEAR	O Ultrasonic <u>/ / / / /</u>		
OSF_GEOMETRY_IND , _YEAR ⇒	O Geometry <u>/ / / / /</u>		
OSF_CALIPER_IND , _YEAR 🖒	O Caliper <u>/ / / / /</u>		
OSF_CRACK_IND , _YEAR 🖒	O Crack <u>/ / / / /</u>		
OSF_HARDSPOT_IND , _YEAR	O Hard Spot		
OSF_COMBINATION_TOOL_IND , _YEAR ⇒ OSF_TRANSVERSE_FIELD_IND , _YEAR ⇒	O Combination Tool / / / / / O Transverse Field/Triaxial / / / / /		
OSF_INSPECTION_OTHER_IND , _YEAR , _DETAILS			
	Do you have reason to believe that the internal inspection was completed BEFORE the damage was sustained?  O Yes O No OSF_BEFORE_DAMAGE		
	5. Has one or more hydrotest or other pressure test been conducted since original construction		
	at the point of the Accident?OSF_HYDROTEST_CONDUCTED_IND OSF_HYDROTEST_CONDUCTED_YEAR		
	O Yes   → Most recent year tested: / / / / / /		
	Test pressure (psig): / / , / / / / O No OSF_HYDROTEST_PRESSURE		
	OSF DIRECT_INSPECTION_TYPE  6. Has one or more Direct Assessment been conducted on the pipeline segment?		
	O Yes, and an investigative dig was conducted at the point of the Accident		
	→ Most recent year conducted: /_ / / / OF DIRECT_YES_DIG_YEAR		
	O Yes, but the point of the Accident was not identified as a dig site		
	⇒ Most recent year conducted: /////		
	O No OSF_DIRECT_YES_NO_DIG_YEAR		
	<ul> <li>7. Has one or more non-destructive examination been conducted at the point of the Accident since January 1, 2002?</li> <li>O Yes O No OSF_NON_DESTRUCTIVE_IND</li> </ul>		
	(This section continued on next page with Question 7.a.)		

	7.a If Yes, for each examination conducted since January 1, 2002, select type of non-destructive examination and indicate most recent year the examination was conducted:			
OSF RADIOGRAPHY IND, YEAR □ OSF_GUIDED_WAVE_IND , _YEAR □ OSF_HANDHELD_ULTRA_IND, _YEAR □ OSF_WET_MAGNETIC_IND , _YEAR □ OSF_DRY_MAGNETIC_IND , _YEAR □ OSF_NON_DEST_OTHER_IND, _YEAR □ OSF_NON_DEST_OTHER_IND , _YEAR □ OSF_NON_DEST_OTHER DEST_OTHER_IND , _YEAR □ OSF_NON_DEST_OTHER DEST_OTHER DEST_OTHER DEST_OTHER DEST_OTHER DEST_	O Radiography O Guided Wave Ultrasonic O Handheld Ultrasonic Tool O Wet Magnetic Particle Test O Dry Magnetic Particle Test O Other OSF_NON_DEST_DETAILS			
☐ Intentional Damage	8. Specify: INTENTIONAL_SUBTYPE  O Vandalism O Terrorism O Theft of transported commodity O Theft of equipment O Other INTENTIONAL_DETAILS			
☐ Other Outside Force Damage	9. Describe: _	OSF_OTHER_DETAILS		
G5 - Material Failure of Pipe or Weld  Use this section to report material failures ONLY IF the "Item Involved Accident" (from PART C, Question 3) is "Pipe" or "Weld."				
		*Only one <b>sub-cause</b> can be picked from shaded left-hand column		
1. The sub-cause selected below is based on the following: (select all that apply)  FIELD EXAM_IND METALLURGICAL_IND  Field Examination Determined by Metallurgical Analysis Other Analysis  STILL_UNDER_INVEST_IND  SUB-cause is Tentative or Suspected; Still Under Investigation (Supplemental Report required)				
FAILURE_TYPE		ng factors: (select all that apply) FAILURE_SUBTYPE_1, _2		
☐ Construction-, Installation-, or Fabrication-related	☐ Fatigue- o ○ Mec ○ Mec	r Vibration-related: FATIGUE_VIBR_RELATED_1, _2 hanically-induced prior to installation (such as during transport of pipe) hanical Vibration		
☐ Original Manufacturing-related (NOT girth weld or other welds formed in the field)	O Thei O Othe □ Mechanica			
☐ Environmental Cracking-related		Stress Corrosion Cracking  O Sulfide Stress Cracking  STRESS_SUBTYPE  STRESS_DETAILS		
Complete the following if any Material Failure of Pipe or Weld sub-cause is selected.  ADDITIONAL_DENT_IND, ADDITIONAL_GOUGE_IND, ADDITIONAL_PIPE_BEND_IND, ADDITIONAL_ARC_BURN_IND, ADDITIONAL_CRACK_IND,  4. 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_LACK_FUSION_IND O Other ADDITIONAL_LAMINATION_IND, ADDITIONAL_BUCKLE_IND, ADDITIONAL_WRINKLE_IND, PWF_ADDL_MISALIGNMENT_IND ADDITIONAL_BURNT_STEEL_IND, PWF_ADDITIONAL_OTHER_IND, PWF_ADDITIONAL_OTHER_DETAILS, ADDITIONAL_FACTOR_DETAILS  5. Has one or more internal inspection tool collected data at the point of the Accident? O Yes O No PWF_INSP_TOOL_COLLECTED_IND				
5.a If Yes, for each tool used, select type of int O Magnetic Flux Leakage Tool	emai inspection ti	/ / PWF MAGNETIC FLUX LEAKAGE IND, PWF MAG FLUX LEAKAGE YEAR		
O Ultrasonic	<u>, , , , , , , , , , , , , , , , , , , </u>	/ / PWF_ULTRASONIC_IND, _YEAR		
O Geometry	/ / /	// PWF_GEOMETRY_IND, _YEAR		
O Caliper O Crack	<u>                                     </u>	// PWF_CALIPER_IND , _YEAR // PWF CRACK IND , YEAR		
O Hard Spot	1 / /	// PWF_CRACK_IND , _YEAR /_/ PWF_HARDSPOT_IND , _YEAR		
O Combination Tool	<u> </u>	/ PWF_COMBINATION_TOOL_IND , _YEAR		
<ul> <li>○ Transverse Field/Triaxial</li> <li>○ Other</li></ul>				
PWF_HYDROTEST_CONDUCTED_IND  6. Has one or more hydrotest or other pressure test been conducted since original construction at the point of the Accident?  ○ Yes → Most recent year tested: / / / / Test pressure (psig): / / /,/ / /  ○ No PWF_HYDROTEST_CONDUCTED_YEAR PWF_HYDROTEST_PRESSURE				
PWF_DIRECT_INSPECTION_TYPE  7. Has one or more Direct Assessment been conducted on the pipeline segment?  O Yes, and an investigative dig was conducted at the point of the Accident Short recent year conducted: ////////////////////////////////////				
•	O Yes, but the point of the Accident was not identified as a dig site   → Most recent year conducted: // / / / /			
O No PWF_DIRECT_YES_NO_DIG_YEAR PWF_NON_DEST_IND  8. Has one or more non-destructive examination(s) been conducted at the point of the Accident since January 1, 2002?  O Yes O No				
8.a If Yes, for each examination conducted since January 1, 2002, select type of non-destructive examination and indicate most recent year the examination was conducted:				
O Radiography	<u> </u>	/ _ / PWF_RADIOGRAPHY_IND, _YEAR _/ PWF_GUIDED_WAVE_IND , _YEAR		
O Guided Wave Ultrasonic O Handheld Ultrasonic Tool	<u>/ / / / / / / / / / / / / / / / / / / </u>	_/ PWF_GUIDED_WAVE_IND, _YEAR/ / PWF_HANDHELD_ULTRA_IND, _YEAR		
O Wet Magnetic Particle Test	/ /	/ / PWF_WET_MAGNETIC_IND , YEAR		
O Dry Magnetic Particle Test O Other		/ PWF_DRY_MAGNETIC_IND , _YEAR // PWF_NON_DEST_OTHER_IND , _YEAR , _DETAILS		

G6 - Equipment Failure - *only one sub-cause can be picked from shaded left-hand column		
EQ_FAILURE_TYPE  Malfunction of Control/Relief Equipment	CONTROL_VALVE_IND, INSTRUMENTATION_IND, SCADA_IND, COMMUNICATIONS_IND, BLOCK_VALVE_IND  1. Specify: (select all that apply)	
☐ Pump or Pump-related Equipment	OTHER_PUMP_IND  2. Specify: O Seal/Packing Failure O Body Failure O Crack in Body O Appurtenance Failure O Other OTHER_PUMP_DETAILS	
☐ Threaded Connection/Coupling Failure	OTHER_STRIPPED_IND  3. Specify: O Pipe Nipple O Valve Threads O Mechanical Coupling O Threaded Pipe Collar O Threaded Fitting O Other OTHER_STRIPPED_DETAILS	
☐ Non-threaded Connection Failure	OTHER_NON_THREADED_IND  4. Specify: O O-Ring O Gasket O Seal (NOT pump seal) or Packing O Other OTHER_NON_THREADED_DETAILS	
☐ Defective or Loose Tubing or Fitting		
☐ Failure of Equipment Body (except Pump), Tank Plate, or other Material		
☐ Other Equipment Failure	5. Describe: FAILURE_DETAILS	
Complete the following if any Equipment Fail	lure sub-cause is selected.	
O Dissimilar metals O Breakdown of soft goods due to c	ADDITIONAL_VIBRATION_IND ADDITIONAL_OVERPRESSURE_IND ADDITIONAL_SUPPORT_IND ADDITIONAL_DEFECT_IND ADDITIONAL_ELECTRICITY_IND ADDITIONAL_INSTALLATION_IND ADDITIONAL_MISMATCH_IND Ifacturer for tubing and tubing fiftings) ADDITIONAL_DISSIMILAR_IND Ompatibility issues with transported commodity ad to the release ADDITIONAL_VALVE_IND ADDITIONAL_ALARM_IND IEF_ADDL_MISALIGNMENT_IND ADDITIONAL_THERMAL_IND EQ_ADDITIONAL_OTHER_IND, _ EQ_ADDITIONAL_OTHER_DETAILS	

G7 - Incorrect Operation - *only one sub-cause can be picked from 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		
☐ Tank, Vessel, or Sump/Separator Allowed or Caused to Overfill or Overflow	OVERFLOW_OTHER_IND  1. Specify: O Valve misalignment O Incorrect reference data/calculation O Miscommunication O Inadequate monitoring O Other OVERFLOW_OTHER_DETAILS  OVERFLOW_OTHER_DETAILS	
☐ Valve Left or Placed in Wrong Position, but NOT Resulting in a Tank, Vessel, or Sump/Separator Overflow or Facility Overpressure		
☐ Pipeline or Equipment Overpressured		
☐ Equipment Not Installed Properly		
☐ Wrong Equipment Specified or Installed		
☐ Other Incorrect Operation	2. Describe: OPERATION_DETAILS	
Complete the following if any Incorrect Oper	ation sub-cause is selected.	
3. Was this Accident related to: (select all that O Inadequate procedure O No procedure established O Failure to follow procedure		
O Other: RELATED_OTHER_II		
4. What category type was the activity that cat O Construction O Commissioning O Decommissioning O Right-of-Way activities O Routine maintenance O Other maintenance O Normal operating conditions	used the Accident: CATEGORY_TYPE	
O Non-routine operating conditions OPERATOR_QUALIFICATION_IND	(abnormal operations or emergencies)	
	ntified as a covered task in your Operator Qualification Program? O Yes O No	
O Yes, they were qualified O No, but they were perfo	orming the task(s) qualified for the task(s)? QUALIFIED_INDIVIDUALS  If for the task(s)  orming the task(s) under the direction and observation of a qualified individual  fied for the task(s) nor were they performing the task(s) under the direction and observation of a	
G8 – Other Accident Cause	- *only one <b>sub-cause</b> can be picked from shaded left-hand column	
OTHER_TYPE	1. Describe: MISC_DETAILS	
☐ Miscellaneous		
☐ Unknown	Specify: O Investigation complete, cause of Accident unknown     Still under investigation, cause of Accident to be determined*     (*Supplemental Report required)	

PART H – NARRATIVE DESCRIPTION OF THE ACCIDENT	(Attach additional sheets as necessary)
NARRATIVE	
-	
_	
PART I – PREPARER AND AUTHORIZED SIGNATURE	
PREPARER_NAME	PREPARER_TELEPHONE
Preparer's Name (type or print)	
PREPARER_TITLE	r oparot o totophoto transco.
Preparer's Title (type or print)	
PREPARER_EMAIL	PREPARER_FAX
Preparer's E-mail Address	Preparer's Facsimile Number
	PREPARED_DATE AUTHORIZER_TELEPHONE
Authorized Signer's Name	Date Authorized Signer Telephone Number
AUTHORIZER_NAME	Authorized Signer's E-mail Address
Authorized Signer's Title  AUTHORIZER_TITLE	AUTHORIZER_EMAIL

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

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