Pipeline System:	Op	erator:	
	Number:		Activity Number:
Location:	Da	te of Occurrence	:
Material Released:	_	antity:	
PHMSA Arrival Time & Date:		tal Damages \$:	
	PHMSA	NTSB	Other
Company Reported Apparent Cause:	Company Rep	orted Sub-Caus	e (from PHMSA Form 7000-1/7100.2)
Corrosion			
Natural Force Damage			
Excavation Damage			
Other Outside Force Damage			
Material Failure (Pipe, Joint, Weld)			
Equipment Failure			
Incorrect Operation			
Other			
A 'J 4/I 'J 4 D L I ' (. L L II	414	<i>C</i>	
Accident/Incident Resulted in (check all	іпаі арріу):	Comments:	
Rupture Leak			
Fire			
Explosion			
Evacuation Evacuation		Number of Pers	sons: Area:
Evacuation		runner of ref.	Alca.
	Narrative S	Summarv	
Short summary of the Incident/Accident scenario		, , , , , , , , , , , , , , , , , , ,	
gion/State:		Reviewed b	y:
incipal Investigator:		Title:	
te:		Date:	

Failure Location & Response						
Location (City, Township, Range, County/Parish):	(Acqu	ire Map)				
Address or M.P. on Pipeline:	(1) Type of Area (Rural, City):	(1)				
Coordinates of failure location (Latitude):	(Longitude):					
Date:	Time of Failure:					
Time Detected:	Time Located:					
How Located:						
NRC Report #: (Attach Report) Time Report	d to NRC: Reported by:					
(, ,						
Type of Pipeline:						
Gas Distribution Gas Tran	mission Hazardous Liquid LNG					
LP Interstate Ga	Interstate Liquid					
Municipal Intrastate Ga	Intrastate Liquid					
Public Utility Gas Gatherin	g Offshore Liquid					
Master Meter Offshore Ga	Liquid Gathering					
Offshore Ga						
	Low Stress Liquid					
Pipeline Configuration (Regulator Station, Pump Station,	HVL					
r tperme Configuration (Regulator Station, Fump Station,	iperine, etc.).					
Operato	Owner Information					
Owner:	Operator:					
Address:	Address:					
Company Official:	Company Official:					
Phone No.: Fax No.:	Phone No. Fax No.					
<u> </u>	ohol Testing Program Contacts	_ N/A				
Drug Program Contact & Phone:						
Alcohol Program Contact & Phone:						

¹ Photo documentation

			D	amages					
Product/Gas Loss or Spill (2)	roduct/Gas Loss or Spill Estimated Property Damage \$								
Amount Recovered	Amount Recovered				Associated Damages ⁽³⁾ \$				
Estimated Amount \$									
Description of Property Dama	ige:								
Customers out of Service:		Yes		No	Nu	mber:			
Suppliers out of Service:		Yes		No		mber:			
11									
			Fatalities	s and Inj	iuries				<i>N/A</i>
Fatalities:		Yes	No	Compa	ny:	(Cont	ractor:	Public:
Injuries - Hospitalization:	Injuries - Hospitalization:			Company:		(Contractor:		Public:
Injuries - Non-Hospitalization	Injuries - Non-Hospitalization:			o Company:		(Contractor: Pu		Public:
Total Injuries (including Non-	-Hospit	alization):		Compa	ny:		Cont	ractor:	Public:
					Yrs. w/	Yrs.			
Name		Job Function			Comp.	Exp.			Type of Injury
			Drug/Ald	ohal Te	stina				N/A
Were all employees that could	l have					ed with	in th	e 2 hour	
the 32 hour time frame for all				ii, post u				- 11001	
YesNo	_								
Job Function	Tost	Data & Tima		Loca	tion		Results		Type of Drug
Job Function	Test Date & Time		Loca	Location		Pos Neg		Type of Drug	
			G	D .					
			Systen	n Descri _l	otion				

² Initial volume lost or spilled 3 Including cleanup cost

System Description						
Describe the Operator's System:						
Pipe Failure	DescriptionN/A					
Length of Failure (inches, feet, miles):	(1)					
Position (Top, Bottom, include position on pipe, 6 O'clock): (1)	Description of Failure (Corrosion Gouge, Seam Split): (1)					
Laboratory Analysis: Yes No						
Performed by: Draggeryation of Foiled Section on Components V.	N.					
Preservation of Failed Section or Component:Yes	No					
In Custody of:						
Develop a sketch of the area including distances from roads, hou	ses stress inducing factors, nine configurations, direction of					
flow, etc. Bar Hole Test Survey Plot, if included, should be out!						
Component Failure Description N/A						
Component	^					
	Failure DescriptionN/A					
Component Component Failed: Manufacturer:	Failure DescriptionN/A (1)					
Component Failed: Manufacturer:	Failure DescriptionN/A(1) Model:					
Component Failed: Manufacturer: Pressure Rating:	Failure DescriptionN/A (1)					
Component Failed: Manufacturer:	Failure DescriptionN/A(1) Model:					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage):	Failure DescriptionN/A (1) Model: Size:					
Component Failed: Manufacturer: Pressure Rating:	Failure DescriptionN/A (1) Model: Size:					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe 1	Failure DescriptionN/AN/AN/AN/AN/AN/A					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe I Material:	Failure Description N/A Model: Size: DataN/A Wall Thickness/SDR:					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe I Material: Diameter (O.D.):	Failure Description N/A Model: Size: DataN/A Wall Thickness/SDR: Installation Date:					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe I Material: Diameter (O.D.): SMYS:	Failure Description N/A Model: Size: DataN/A Wall Thickness/SDR: Installation Date: Manufacturer:					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe I Material: Diameter (O.D.): SMYS: Longitudinal Seam: Pipe Specifications (API 5L, ASTM A53, etc.):	Model: Size: Mall Thickness/SDR: Installation Date: Manufacturer: Type of Coating:					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe I Material: Diameter (O.D.): SMYS: Longitudinal Seam: Pipe Specifications (API 5L, ASTM A53, etc.):	Failure Description					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe I Material: Diameter (O.D.): SMYS: Longitudinal Seam: Pipe Specifications (API 5L, ASTM A53, etc.): Join Type:	Model: Size: MataN/A Wall Thickness/SDR: Installation Date: Manufacturer: Type of Coating: mingN/A Procedure:					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe I Material: Diameter (O.D.): SMYS: Longitudinal Seam: Pipe Specifications (API 5L, ASTM A53, etc.):	Failure Description					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe I Material: Diameter (O.D.): SMYS: Longitudinal Seam: Pipe Specifications (API 5L, ASTM A53, etc.): Join Type:	Model: Size: Manufacturer: Type of Coating: N/A Procedure:					
Component Failed: Manufacturer: Pressure Rating: Other (Breakout Tank, Underground Storage): Pipe I Material: Diameter (O.D.): SMYS: Longitudinal Seam: Pipe Specifications (API 5L, ASTM A53, etc.): Join Type:	Failure Description Model: Size: DataN/A Wall Thickness/SDR: Installation Date: Manufacturer: Type of Coating: DingN/A Procedure: Inspected:YesNo					

Pressure @	Time of Failure @	Failure Site		N/A
Pressure Readings @ V	-		Direction fr	om Failure Site
Location/M.P./Station #				
	Α Ο		Upstream	
	l	l	1	<u> </u>
Up:	stream Pump Statio	n Data		<i>N/A</i>
Type of Product:	API G			
Specific Gravity:	Flow F	Rate:		
Pressure @ Time of Failure (4)	Distan	ce to Failure Site:		
High Pressure Set Point:	Low P	ressure Set Point:		
	m Compressor Stati			<i>N/A</i>
Specific Gravity:	Flow F			
Pressure @ Time of Failure (4)		ce to Failure Site:		
High Pressure Set Point:	Low P	ressure Set Point:		
	Operating Pressi	ıre		N/A
Max. Allowable Operating Pressure:		nination of MAOP:		
Actual Operating Pressure:				
Method of Over Pressure Protection:	•			
Relief Valve Set Point:	Capaci	ty Adequate? Y	es No	
	ntegrity Test After F			<i>N/A</i>
Pressure test conducted in place? (Conducted on Fa	ailed Components or A		_ Yes	No
If No, tested after removal?	-	Yes No		
Method:				
Describe any failures during the test.				
Soil/wa	uter Conditions @ F	ailure Site		<i>N/A</i>
Condition of and Type of Soil around Failure Site (1,,,11
	-	-		
Type of Backfill (Size and Description):				
^				

⁴ Obtain event logs and pressure recording charts

Type of Water (Salt, Brackish): Water Analysis (5) Y	es No					
External Pipe or Component Examination	<i>N/A</i>					
External Corrosion?YesNo Coating Condition (Disbor						
Description of Corrosion:						
Description of Failure Surface (Gouges, Arc Burns, Wrinkle Bends, Cracks, Stress Cracks, Origin):						
Above Ground: Yes No (1) Buried: Yes	No (1)					
Stress Inducing Factors: (1) Depth of Cover:	(1)					
Cathodic Protection	N/A					
P/S (Surface): P/S (Interface):	1V/A					
Soil Resistivity: pH: Date of Installation:						
Method of Protection:						
Did the Operator have knowledge of Corrosion before the Incident? Yes N						
How Discovered? (Close Interval Survey, Instrumented Pig, Annual Survey, Rectifier Readi	ngs, ECDA, etc):					
Internal Pipe or Component Examination	<i>N/A</i>					
Internal Corrosion: YesNo Injected Inhibitors: Y	res No					
Type of Inhibitors: Testing: Yes	No					
Results (Coupon Test, Corrosion Resistance Probe):						
Description of Failure Surface (MIC, Pitting, Wall Thinning, Chevrons, Fracture Mode, Point of Origin):						
Cleaning Pig Program: Yes No Gas and/or Liquid Analysi	is: Yes No					

⁵ Attach copy of water analysis report

Internal Pipe or Component Examination N/A					
Results of Gas and/or Liquid Analysis (6)					
Internal Inspection Survey: Yes No I	Results (7)				
Did the Operator have knowledge of Corrosion before the Incident	? Yes No				
How Discovered? (Instrumented Pig, Coupon Testing, ICDA, etc.)					
Outside Ford	ce DamageN/A				
Responsible Party:	Telephone No.:				
Address:					
Work Being Performed:					
Equipment Involved:	(1) Called One Call System? Yes No				
	,				
One Call Name:	One Call Report # (8)				
Notice Date:	Time:				
Response Date:	Time:				
Details of Response:					
Was Location Marked According to Procedures? Yes	No				
Pipeline Marking Type:	(1) Location: (1)				
r iperine iviai king Type.	Location.				
State Law Damage Prevention Program Followed? Yes	No No State Law				
	Response Required: Yes No				
-	Was Operator on Site? Yes No				
Did a deficiency in the Public Awareness Program contribute to the					
Is OSHA Notification Required? Yes No					
Nature	al Forces N/A				
Description (Earthquake, Tornado, Flooding, Erosion):					
1					

⁶ Attach copy of gas and/or liquid analysis report

⁷ Attach copy of internal inspection survey report 8 Attach copy of one-call report

	Natural Forces	<i>N/A</i>
	Failure Isolation	N/A
Squeeze Off/Stopple Location and Method:		(1)
Valve Closed - Upstream:	I.D.:	
Time:	M.P.:	
Valve Closed - Downstream:	I.D.:	
Time:	M.P.:	
Pipeline Shutdown Method: Manual	_ Automatic SCADA Controller E	ESD
Failed Section Bypassed or Isolated:		
Performed By:	Valve Spacing:	
	٥١٠٠٠ من مناه	77/4
Gas Odorized: Yes No	Odorization Concentration of Odorant (Post Incident at Failure	<i>N/A</i>
Method of Determination:YesNo	% LEL:YesNo % Gas In Air:Ye	
_ 10	Time Taken: Yes No	
Was Odorizer Working Prior to the Incident?	Type of Odorizer (Wick, By-Pass):	
YesNo		
Odorant Manufacturer:	Type of Odorant:	
Model:		
Amount Injected:	Monitoring Interval (Weekly):	
Odorization History (Leaks Complaints, Low Odorant L	Levels, Monitoring Locations, Distances from Failure Site):	
	Weather Conditions	N/A
Temperature:	Wind (Direction & Speed):	N/A
Temperature: Climate (Snow, Rain):		N/A

				Gas M	igratio	on Survey				<i>N</i> /A
Bar Hole Test of	f Area: _	_Yes 1	No			Equipment U	Jsed:			
Method of Survey (Foundations, Curbs, Manholes, Driveways, Mains, Services) (9) (1)										
			-		~					//
Environment Sensitivity ImpactN/A Location (Nearest Rivers, Body of Water, Marshlands, Wildlife Refuge, City Water Supplies that could be or were affected (1)										
by the medium l		Body of wate	er, Marshian	as, what	ne Kei	uge, City v	vater S	suppnes mat c	outd be or we	re affected
OPA Contingen	cy Plan Av	ailable? _	_ Yes _	_ No	F	ollowed?	Yes	No		
			Class I.	ogtion/	Uiah (Consequer	100 A W	en a		N/A
Class Location:	1 2	3 ,	4)canon/1		ICA Area?			No _ 1	
Determination:	1	_ 3	·			eterminatio			1	V/11
Odorization Rec	uired?	Yes	No	N/A						
				Dwaggz	ma Ta	at Uistam				N/A
						st History Necessary)				IN/A
		Req'd (10)A	ssessment	Test I	Doto	Test Med	lium	Pressure	Duration	% SMYS
		Deadlin	e Date	16811	Jaie	Test Med	JIUIII	(psig)	(hrs)	70 SWITS
Installation		N/	A							
Next										
Next										
Most Recent										
Describe any pro	oblems exp	erienced duri	ng the press	ure tests.						
		In	ternal Lind			Other Asses Necessary)	ssmen	t History		N/A
	1	¹⁰⁾ Assessme adline Date		essment Date	Typ T	oe of ILI ool (11)	Oth	ner Assessmer Method ⁽¹²⁾		eated Anomaly describe below
Initial									Y	es No
Next									_ Y	es No

Next

Most Recent

Yes

Yes

No

No

⁹ Plot on site description page

¹⁰ As required of Pipeline Integrity Management regulations in 49CFR Parts 192 and 195

¹¹ MFL, TFI, UT, Combination, Geometry, etc.

¹² ECDA, ICDA, SCCDA, "other technology," etc.

Internal Line Inspection/Other Assessment History N/A (Expand List as Necessary)
Describe any previously indicated anomalies at the failed pipe, and any subsequent pipe inspections (anomaly digs) and remedial actions.
Pre-Failure Conditions and Actions N/A
Was there a known pre-failure condition requiring (10) the operator to schedule evaluation and remediation? Yes (describe below or on attachment) No
If there was such a known pre-failure condition, had the operator established and adhered to a required ⁽¹⁰⁾ evaluation and remediation schedule? Describe below or on attachment Yes No N/A
Prior to the failure, had the operator performed the required ⁽¹⁰⁾ actions to address the threats that are now known to be related to the cause of this failure? Yes No N/A List below or on an attachment such operator-identified threats, and operator actions taken prior to the accident.
Describe any previously indicated anomalies at the failed pipe, and any subsequent pipe inspections (anomaly digs) and remedial actions.
Maps & Records N/A
Are Maps and Records Current? (13) Yes No Comments:
Leak Survey HistoryN/A
Leak Survey History (Trend Analysis, Leak Plots):
Pipeline Operation HistoryN/A
Description (Repair or Leak Reports, Exposed Pipe Reports):
Did a Safety Related Condition Exist Prior to Failure? Yes No Reported? Yes No
Unaccounted For Gas:
Over & Short/Line Balance (24 hr., Weekly, Monthly/Trend):

¹³ Obtain copies of maps and records

Operator/Contractor ErrorN									
Name:		Job Function:							
Title: Years of Experience:									
Training (Type of Training, Background):									
Was the person "Operator Qualified" as applicable to a precursor abnormal operating condition?Yes NoN/A									
Was qualified individual suspended from	m performing covered taskY	es No N	/A						
Type of Error (Inadvertent Operation of	a Valve):								
Procedures that are required:									
Actions that were taken:									
Pre-Job Meeting (Construction, Mainter	nance, Blow Down, Purging, Isola	tion):							
Prevention of Accidental Ignition (Tag of	& Lock Out, Hot Weld Permit):								
Procedures conducted for Accidental Ign	nition:								
Was a Company Inspector on the Job?	Yes No								
Was an Inspection conducted on this por	rtion of the job? Yes	No							
Additional Actions (Contributing factors conducted):	s may include number of hours at	work prior to failure	e or time of day work	being					
Training Procedures:									
Operation Procedures:									
Controller Activities:									
Name	Title	Years Experience	Hours on Duty Prior to Failure	Shift					
Alarm Parameters:			1						
High/Low Pressure Shutdown:									
Flow Rate:									
Procedures for Clearing Alarms:									
Type of Alarm:									
Company Response Procedures for Abn	ormal Operations:								

	Operator/Contractor Error	<i>N/A</i>
Over/Short Line Balance Procedures:		
Frequency of Over/Short Line Balance:		
Additional Actions:		

Additional Actions Taken by the OperatorN/A					
Make notes regarding the emergency and Failure Investigation Procedures (Pressure reduction, Reinforced Squeeze Off, Clean					
Up, Use of Evacuators, Line Purging, closing Additional Valves, Double Block and Bleed, Continue Operating downstream					
Pumps):					

Photo Documentation (1)

Overall Area from best possible view. Pictures from the four points of the compass. Failed Component, Operator Action, Damages in Area,

Address Markings, etc.

Photo		Photo	
No.	Description	No.	Description
1		16	
2		17	
3		18	
4		19	
5		20	
6		21	
7		22	
8		23	
9		24	
10		25	
11		26	
12		27	
13		28	
14		29	
15		30	
Camera Type:			

Additional Information Sources						
Agency	Name		Title		Phone Number	
Police:						
Fire Dept.:						
State Fire Marshall:						
State Agency:						
NTSB:						
EPA:						
USCG:						
FBI:						
ATF:						
OSHA:						
Insurance Co.:						
FRA:						
MMS:						
Television:						
Newspaper:						
Other:						
		Perso	ns Interviewed			
Nan	ne		Title		Phone Number	
	!					

Event Log			
Sequence of events Department and Po	s prior, during, and after the incident by time. (Consider the events of all parties involved in the incident, Fire blice reports, Operator Logs and other government agencies.)		
Time / Date	Event		

	Investigation Contact Log					
Time	Date Name Description					

Failure Investigation Documentation Log							
Operator:		Unit #:	CPF #:		Date:		
Appendix	Documentation Description			Date	FOIA		
Number				Received	Yes	No	

Site Description

Provide a sketch of the area including distances from roads, houses, stress inducing factors, pipe configurations, etc. Bar Hole Test Survey Plot should be outlined with concentrations at test points. Photos should be taken from all angles with each photo documented. Additional areas may be needed in any area of this guideline.