Pipeline System:	Operator:			
Operator ID:	Unit N			Activity Number:
Location:				
Material Released: PHMSA Arrival Time & Date:			intity:	
			al Damages \$:	
Investigation Responsibility:		PHMSA	_	
Company Reported Apparent C	Cause:	Company Repo	rted Sub-Cause	(from PHMSA Form 7000-1/7100.2)
Corrosion				
Natural Force Damage				
Excavation Damage	_			
Other Outside Force Damag				
Material Failure (Pipe, Joint	t, Weld)			
Equipment Failure				
Incorrect Operation				
Other				
	/ 1 1 11			
Accident/Incident Resulted in	check all t	hat apply):	Comments:	
Rupture				
Leak				
Fire				
Explosion			27	
Evacuation			Number of Pers	ons: Area:
		Name of the C		
		Narrative S	ummary	
Short summary of the Incident/Accident	scenario			
gion/State:			Reviewed by	/:
			•	
ite.			Date	

Failure Location & Response						
Location (City, Township, Range, County/Parish)	(Acquire Map)					
Address or M.P. on Pipeline:	(1)	Type of Area (Rura	al, City):	(1)		
Coordinates of failure location (Latitude):		(Longiti	ıde):			
Date:		Time of Failure:				
Time Detected:		Time Located:				
How Located:						
NRC Report #: (Attach Report) Time	e Reported to NR	RC:	Reported by	v:		
	1			,		
Type of Pipeline:						
Gas Distribution G	Gas Transmission	ı Haza	rdous Liquid	LNG		
LP Inter	rstate Gas	Interst	ate Liquid			
Municipal Intra	astate Gas	Intrast	Intrastate Liquid			
Public Utility Gas	Gathering	Offsho				
	shore Gas	Liquid				
Offs	shore Gas - High					
		Low S HVL	Stress Liquid			
Pipeline Configuration (Regulator Station, Pump	Station, Pipeline					
	, F	,).				
	2 /2	T. C				
	Operator/Owne	-				
Owner:		Operator: Address:				
Address:		Address:				
C OCC 1		C - 00° 1				
Company Official:		Company Official:		r_		
Phone No.: Fax No.: Phone No. Fax No. Drug and Alcohol Testing Program Contacts						
Drug Program Contact & Phone:	g and Alcohol Te	sung Program Cont	<u>acts</u>	N/A		
Alcohol Program Contact & Phone:						
Anonor Frogram Conduct & Filone.						

¹ Photo documentation

Damages								
Product/Gas Loss or Spill ⁽²⁾				Esti	Estimated Property Damage \$			
Amount Recovered				Asso	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:	C	ontractor:	Public:
Injuries - Hospitalization:		Yes	No	Compa	ny:	C	ontractor:	Public:
Injuries - Non-Hospitalization	:	Yes	No	Compa	Company: Contracte			Public:
Total Injuries (including Non-	Hospi	talization):		Compa	ny:	C	ontractor:	Public:
				Yrs. w/	Yrs.	-		
Name		Job	Function		Comp. Exp. Type of		Type of Injury	
			Drug/Alc	ohal Te	stino			N/A
Were all employees that could	l have					ed withi	the 2 hour	
the 32 hour time frame for all				, r				
YesNo								
Job Function	Test	Date & Time		Loca	Location		Results	Type of Drug
Joo 1 unction	1030	t Date & Time L		Loca	Location		os Neg	Type of Drug
System Description								

² Initial volume lost or spilled 3 Including cleanup cost

Pressure @	Time of Failure @ 1	Failure Site		N/A			
Pressure Readings @ Various Locations: Direction from Failure							
Location/M.P./Station #	Pressure (psig)	Elevation (ft msl)	Upstream	Downstream			
			-				
Upst	ream Pump Station	Data		N/A			
Type of Product:	API Gra	vity:					
Specific Gravity:	Flow Ra	te:					
Pressure @ Time of Failure (4)	Distance	to Failure Site:					
High Pressure Set Point:	Low Pre	ssure Set Point:					
Unstraam	Compressor Station	n Data		N/A			
Specific Gravity:	te:						
Pressure @ Time of Failure (4)		to Failure Site:					
High Pressure Set Point:		ssure Set Point:					
118.11.000.000.0001.011.01							
	Operating Pressur			<i>N/A</i>			
Max. Allowable Operating Pressure:	Determin	nation of MAOP:					
Actual Operating Pressure:							
Method of Over Pressure Protection:	1						
Relief Valve Set Point:	Capacity	Adequate? Y	es No				
Int	egrity Test After Fa	ilure		N/A			
Pressure test conducted in place? (Conducted on Fail	<u> </u>		Yes	No			
If No, tested after removal? Yes No							
Method:							
Describe any failures during the test.							
2 11				N/A			
Soil/water Conditions @ Failure Site Condition of and Type of Soil around Failure Site (Color, Wet, Dry, Frost Depth):							
Condition of and Type of Son around Fanure Site (C	.0101, WEI, DIY, F108t l	ocpui).					
Type of Backfill (Size and Description):							
1) pe of Buckini (Size and Bescription).							

⁴ Obtain event logs and pressure recording charts

Soil/water Conditions @ Failure Site								
Type of Water (Salt, Brackish):	Water Analysis (5) Yes No							
External Pipe or Component Examination N/A								
External Corrosion?YesNo (1)	Coating Condition (Disbonded, Non-existent):							
Description of Corrosion:								
Description of Failure Surface (Gouges, Arc Burns, Wrinkle Bends, Cracks, Stress Cracks, Chevrons, Fracture Mode, Point of 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):							
Soil Resistivity: pH:	Date of Installation:							
Method of Protection: Did the Operator have knowledge of Corrosion before the Incident?YesNo								
How Discovered? (Close Interval Survey, Instrumented Pig, Annual Survey, Rectifier Readings, ECDA, etc):								
	Injected Inhibitors: Yes No							
Internal Corrosion: YesNo (1) Type of Inhibitors:	Injected Inhibitors: Yes No Testing: Yes No							
Results (Coupon Test, Corrosion Resistance Probe):								
Description of Failure Surface (MIC, Pitting, Wall Thinning, Ch	evrons, Fracture Mode, Point of Origin):							
Cleaning Pig Program: Yes No	Gas and/or Liquid Analysis: Yes No							

⁵ Attach copy of water analysis report

Internal Pipe or Compon	ent Examination	_ N/A
Results of Gas and/or Liquid Analysis (6)		
Internal Inspection Survey: Yes No Res	sults ⁽⁷⁾	
Pild O to I I I I I I I I I I I I I I I I I I	V N	
Did the Operator have knowledge of Corrosion before the Incident? How Discovered? (Instrumented Pig, Coupon Testing, ICDA, etc.):	Yes No	
How Discovered? (Instrumented Fig. Coupon Testing, ICDA, etc.):		
Outside Force	Damage	N/A
Responsible Party:	Telephone No.:	
Address:	-1	
Work Being Performed:		
Equipment Involved: (1)	Called One Call System? Yes No	
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:	L	
Demin of response.		
Was Location Marked According to Procedures? Yes Yes	_ No	
Pipeline Marking Type: (1)	Location:	(1)
State Law Damage Prevention Program Followed? Yes	No No State Law	
Notice Required:YesNo Res	sponse Required: Yes No	
Was Operator Member of State One Call? Yes No Wa	as Operator on Site? Yes No	
Did a deficiency in the Public Awareness Program contribute to the a	eccident?Yes No	
Is OSHA Notification Required? Yes No		
Natural .	Forces	_ N/A
Description (Earthquake, Tornado, Flooding, Erosion):	_	

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 N
	Failure Isolation N.
Squeeze Off/Stopple Location and Method:	
Valve Closed - Upstream:	I.D.:
Time:	M.P.:
Valve Closed - Downstream:	I.D.:
Time:	M.P.:
Pipeline Shutdown Method: Manual	Automatic SCADA Controller ESD
Failed Section Bypassed or Isolated:	
Performed By:	Valve Spacing:
	Odorization N
Gas Odorized: Yes No Method of Determination: Yes No	Concentration of Odorant (Post Incident at Failure Site): W LEL: _ Yes _ No
Method of Determination 1 es No	<u> </u>
Was Odorizer Working Prior to the Incident?	Time Taken: Yes No Type of Odorizer (Wick, By-Pass):
Yes No	Type of e defined (talk, 2) Tabe).
Odorant Manufacturer:	Type of Odorant:
Model:	
Amount Injected:	Monitoring Interval (Weekly):
Odorization History (Leaks Complaints, Low Odorant L	evels, Monitoring Locations, Distances from Failure Site):
и	Veather Conditions No.
Temperature:	Wind (Direction & Speed):
Climate (Snow, Rain):	Humidity:
Was Incident preceded by a rapid weather change?	Yes No
Weather Conditions Prior to Incident (Cloud Cover, Ceil	ling Heights, Snow, Rain, Fog):

			Gas M	igratio	on Survey				<i>N/A</i>
Bar Hole Test o	f Area:	Yes No		E	Equipment U	Jsed:			
Method of Surv	ey (Founda	tions, Curbs, Man	holes, Drivewa	ys, Ma	ins, Service	s) ⁽⁹⁾			(1)
			Environm	ant Car	asitinitu Iu	anaat			N/A
Location (Neare	est Rivers. I	Body of Water, M	Environme arshlands, Wild		Ţ	•	Supplies that c	ould be or we	
by the medium		,,	,						
ODA C	D1 A	1110 77	N		11 10	37	NT.		
OPA Contingen	cy Plan Av	ailable?Yo	es No	F	ollowed?	Yes	No		
		С	lass Location/	High	Consequei	nce Ar	rea		N/A
Class Location:	12_	3 4			ICA Area?		Yes _	No _ N	J/A
Determination:			27/1	Γ	etermination	on:			
Odorization Red	quired?	Yes	No N/A						
			Pressi	ure Te	st History				N/A
			(Expand	List as	Necessary)		T	T	_
		Req'd ⁽¹⁰⁾ Assess Deadline Da		Date	Test Med	dium	Pressure	Duration	% SMYS
T 11			ite				(psig)	(hrs)	
Installation Next		N/A							
Next									
Most Recent									
	oblems exp	Lerienced during th	e pressure tests						
Describe any pro	осты сир	erieneed daring th	to pressure tests.						
		Intorn	al Line Inspec	rtion/C	Other Asse	ssm <i>o</i> n	t History		N/A
		intern			Necessary)	ssmen	i History		^I V/A
		Assessment	Assessment	Ty	oe of ILI		ner Assessmer		ated Anomaly
	Dea	dline Date	Date	Т	ool ⁽¹¹⁾		Method (12)	If yes,	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.									
Are Maps and Records Current? (13) Yes No Comments:									
Leak Survey History N/A									
Leak Survey History (Trend Analysis, Leak Plots):									
Pipeline Operation History N/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 Error N/A									
Name: Job Function:									
Title: Years of Experience:									
Training (Type of Training, Background):									
Was the person "Operator Qualified" as	applicable to a precursor abnorm	al operating condition	on?Yes No	o N/A					
Was qualified individual suspended from	m performing covered task Y	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	& Lock Out, Hot Weld Permit):								
Procedures conducted for Accidental Ig	nition:								
Was a Company Inspector on the Job?	Yes No								
Was an Inspection conducted on this po-	rtion of the job? Yes	No							
Additional Actions (Contributing factor 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:									
High/Low Pressure Shutdown:									
Flow Rate:									
Procedures for Clearing Alarms:									
Type of Alarm:									
Company Response Procedures for Abnormal Operations:									

Operator/Contrac	tor ErrorN/A
Over/Short Line Balance Procedures:	
Frequency of Over/Short Line Balance:	
Additional Actions:	

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.

Description	Photo No.	Description
Bescription		Description
	17	
	18	
	19	
	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
	28	
	29	
	30	
	Description	Description No. 16 17 18 19 20 21 22 23 24 25 26 27 28 29

Additional Information Sources						
Agency	Nam	ie	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 prior, during, and after the incident by time. (Consider the events of all parties involved in the incident, Fire Department and Police 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	Date:	
Appendix	D = 4 (D ; (Date	Date FOI		
Number	Documentation Description		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.