Pipeline Group Factual Report

ATTACHMENT 40

ERW-LF & HF significant Haz Liquid accidents- PHMSA 2002-2007

Carmichael, Mississippi
DCA 08 MP 001

Data as of 03/17/2008

High Frequency or Low Frequency is based on Seam Type and Pipe Seam&Other field.

Significant Accident	YES

Count of RPTID	IYEAR						
Pipe Seam Type	2002	2003	2004	2005	2006	2007	Grand Total
ACETYLENE			1				1
BEEW			2				2
BUTT WELD					1		1
DSAW	4	4	4	2		3	17
EFW				2	1		3
ERW	33	33	39	34	27	44	210
EW	3	2	2	1	1		9
FIBER GASKET			1				1
FLASH WELD	2			1			3
HIGH FREQUENCY	2	4	4	6	5	4	25
LAP WELD	7	8	7	2	1	1	26
LONGITUDINAL	1	1				1	3
LOW FREQUENCY	4	1	1	7	4	5	22
LW			1				1
N/A		3	5	7	2	1	18
OTHER		1					1
SAW		1			2	1	4
SEAMLESS	15	13	12	21	20	10	91
SINGLE SUBMERGED ARC WELD						1	1
SLMS			1				1
SMLS	3	3	2	5	3	3	19
UNKNOWN	2	5	3	4	1	2	17
WELD SEAMS	1						1
WELDED			1	1			2
(blank)	68	52	58	46	47	37	308
Grand Total	145	131	144	139	115	113	787

Significant Accident	YES
Pipe Seam Type	**HIGH FREQUENCY**

Count of RPTID	IYEAR						
GEN_CAUSE_TEXT	2002	2003	2004	2005	2006	2007	Grand Total
CORROSION		2	1	1	1	1	6
EXCAVATION DAMAGE	1					1	2
INCORRECT OPERATION					1		1
MATERIAL AND/OR WELD FAILURES		2	2	4	3	2	13
NATURAL FORCES	1		1				2
OTHER OUTSIDE FORCE DAMAGE				1			1
Grand Total	2	4	4	6	5	4	25

Significant Accident	YES
Pipe Seam Type	LOW FREQUENCY

Count of RPTID	IYEAR						
GEN_CAUSE_TEXT	2002	2003	2004	2005	2006	2007	Grand Total
CORROSION			1	2	2	2	7
EXCAVATION DAMAGE	1						1
MATERIAL AND/OR WELD FAILURES	3	1		5	2	2	13
OTHER						1	1
Grand Total	4	1	1	7	4	5	22

Type of accident	HL form type
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form

IYEAR	RPTID	OPERATOR_ID	NAME	IDATE
2004	20040269	31174	SHELL PIPELINE CO., L.P.	9/22/2004
2005	20050171	31947	ENBRIDGE PIPELINES (OZARK) LLC	5/19/2005
2005	20050144	9175	JAYHAWK PIPELINE LLC	4/13/2005
2006	20060326	31618	ENTERPRISE PRODUCTS OPERATING LP	10/25/2006
2006	20060205	31618	ENTERPRISE PRODUCTS OPERATING L.P.	6/23/2006
2007	20070120	31618	ENTERPRISE PRODUCTS OPERATING LLC	1/9/2007
2007	20070105	31618	ENTERPRISE PRODUCTS OPERATING LP	3/19/2007
2002	20020045	12452	MID - AMERICA PIPELINE CO (MAPCO)	1/29/2002
2002	20020197	13131	CONOCO INC (AKA CONOCO PIPE LINE)	5/22/2002
2002	20020151	12127	MARATHON PIPE LINE LLC	4/29/2002
2002	20020128	31174	EQUILON PIPELINE COMPANY LLC	4/20/2002
2003	20040103	31884	ENBRIDGE PIPELINES (LOUISIANA LIQUIDS) LLC	10/22/2003
2005	20060012	12127	MARATHON PIPE LINE LLC	11/8/2005
2005	20050363	4906	EXXONMOBIL PIPELINE COMPANY	11/22/2005
2005	20050178	1845	BUCKEYE PIPE LINE COMPANY	5/23/2005
2005	20050177	31618	ENTERPRISE PRODUCTS OPERATING L.P.	6/1/2005
2005	20050031	19237	TE PRODUCTS PIPELINE CO., LP	1/12/2005
2006	20060251	31618	ENTERPRISE PRODUCTS OPERATING LP	8/16/2006
2006	20060137	15674	PLANTATION PIPE LINE COMPANY	4/17/2006
2007	20070202	22610	MAGELLAN PIPELINE COMPANY, L.P.	5/28/2007
2007	20070108	22610	MAGELLAN PIPELINE COMPANY, L.P.	3/15/2007
2007	20080019	31618	ENTERPRISE PRODUCTS OPERATING LLC	12/30/2007

OFFSHORE	ACSTATE	ACCOUNTY	ACCITY	LATITUDE	LONGITUDE
N	TX	ROBERTSON	HEARNE	30.926	96.6
N	OK	LINCOLN	CUSHING	35 55 91	-96 45 25
N	KS	STEVENS	HUGOTON	37.0879	-101.35139
N	KS	CLAY	CLAY	39D17'23	97D14'25
N	NM	LEA	EUNICE	32 26.715	103 07.402
N	NE	WASHINGTON	ARLINGTON	41D27'40	96D19'55
N	KS	CLARK	ASHLAND	37.2176685	-99.748673
N	IL	WARREN		N 37.23234804	W 99.70684729
N	KS	FRANKLIN	OTTAWA		
N	IL	MADISON		N38.819432	W 90.018871
N	TX	PARKER		32.59883	97.58687
N	LA	PLAQUEMINES	BELLE CHASSE	29 43 25.83N	90 00 44.02W
N	IL	KANKAKEE	KANKAKEE	41.0870N	-87.7228W
N	LA	LAFOURCHE	RACELAND	N29DEG 47.878MIN	W90DEG 41.405MIN
N	IL	EFFINGHAM	EFFINGHAM	39.149	-88.638
N	IA	JACKSON	BERNARD	42D12'35"	90D49'22"
N	IN	GIBSON	OAKLAND CITY	N38 18 28	W087 23 24
N	KS	RENO	HUTCHINSON	38D09'38	97D55'58
N	VA	HENRICO	RICHMOND	N 37.63879	W 77.60405
N	IL	LEE	ROCHELLE	41.41.490	W89.00.181
N	IL	KANE	WAYNE	N41.95164	W88.29004
N	IA	DUBUQUE	DUBUQUE	42D26'19.1"	-90D35'53.1"

GEN_CAUSE	GEN_CAUSE_TEXT	INJURE	FATAL	PRPTY
1	CORROSION	0	0	1028000
1	CORROSION	0	0	80000
1	CORROSION	0	0	10500
1	CORROSION	2	0	740000
1	CORROSION	0	0	374900
1	CORROSION	0	0	79003
1	CORROSION	0	0	54010
3	EXCAVATION DAMAGE	0	0	145693
5	MATERIAL AND/OR WELD FAILURES	0	0	566990
5	MATERIAL AND/OR WELD FAILURES	0	0	4650025
5	MATERIAL AND/OR WELD FAILURES	0	0	405434
5	MATERIAL AND/OR WELD FAILURES	0	0	425000
5	MATERIAL AND/OR WELD FAILURES	0	0	506314
5	MATERIAL AND/OR WELD FAILURES	0	0	582000
5	MATERIAL AND/OR WELD FAILURES	0	0	141300
5	MATERIAL AND/OR WELD FAILURES	0	0	56200
5	MATERIAL AND/OR WELD FAILURES	0	0	43150
5	MATERIAL AND/OR WELD FAILURES	0	0	79100
5	MATERIAL AND/OR WELD FAILURES	0	0	5500000
5	MATERIAL AND/OR WELD FAILURES	0	0	359000
5	MATERIAL AND/OR WELD FAILURES	0	0	380289
8	OTHER	0	0	206600

CLASS_TEXT
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
CRUDE OIL
CRUDE OIL
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
CRUDE OIL
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
CRUDE OIL
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS

LOSS_BBL	RECOV_BBL	NETLOSS_BBL	IGNITE	EXPLO	EVAC	EVACNO
196	120	76	No	No	No	
15	13	2	No	No	No	
70	0	70	No	Null	No	
4513	0	4513	No	No	Yes	4
484	0	484	No	No	No	
0.071428571	0	0.071428571	No	No	No	
0.238095238	0	0.238095238	No	No	No	
7500	0	7500	No	No	Yes	30
1901	241	1660	No	No	Yes	8
3261	488	2773	No	No	No	
100	0	100	No	No	No	
0.404761905	0	0.404761905	No	No	No	
52	15	37	No	No	No	
50	50	0	No	No	No	
5	0	5	No	No	No	
81	0	81	No	No	No	
225	135	90	No	No	No	
2.380952381	0	2.380952381	No	No	No	
553	550	3	No	No	Yes	4
11.9047619	11.9047619	0	No	No	No	
2.380952381	2.380952381	0	No	No	No	
100	0	100	No	No	No	

EVAC_REASON_TEXT	NPS	WALLTHK	SPEC	SMYS
	10.75	0.28	GRADE B	35000
	20	0.38	5L	24000
	6.63	0.19	API 5L GR B	1986
PRECAUTIONARY BY COMPANY	8.63	0.16	API 5L	46000
	4.5	0.14	API-5L	42000
	8.63	0.16	API 5L	46000
	6.63	0.16	API-5L	46000
REQUIRED OR INITIATED BY PUBLIC OFFICIAL	8	0.16	API 5L	52000
PRECAUTIONARY BY COMPANY	8.63	0.03	API 5L GRADE B	40000
	22	0.34	API 5L	46000
	12.75	0.28	API 5L, X42	42000
	16	0.31	API 5L GRADE X 52	52000
	12	0.25	API 5LX46	46000
	16	0.31	GRD B	35000
	12	0.25	X-52	52000
	6.63	0.19	API 5L - X46	46000
	8.63	0.16	API 5L	46000
REQUIRED OR INITIATED BY PUBLIC OFFICIAL	12.75	0.2	5L	52000
	12	0.25	5L X42	42000
	12	0.25	API 5L X X42	42000
	6.63	0.19	API-5L	46000

SEAM	PIPE_SEAM_TEXT	Pipe Seam Type
LF ERW		LOW FREQUENCY
LF ERW		LOW FREQUENCY
ERW LF		LOW FREQUENCY
LF-ERW		LOW FREQUENCY
LF ERW		LOW FREQUENCY
LF-ERW		LOW FREQUENCY
LF ERW		LOW FREQUENCY
LF ERW		LOW FREQUENCY
LFERW	LF ERW	LOW FREQUENCY
ERW	LF ERW	LOW FREQUENCY
ERW	LF ERW	LOW FREQUENCY
ERW	LF ERW	LOW FREQUENCY
LOW FREQUENCY ELEC. RESISTANTT WELD	OTHER	LOW FREQUENCY
ERW	LF ERW	LOW FREQUENCY
ERW	LF ERW	LOW FREQUENCY
LF-ERW		LOW FREQUENCY
	LF ERW	LOW FREQUENCY
LF-ERW	LF ERW	LOW FREQUENCY
LF ERW	LF ERW	LOW FREQUENCY
ERW	LF ERW	LOW FREQUENCY
ERW	LF ERW	LOW FREQUENCY
LF ERW		LOW FREQUENCY

VALVE	MANU	MANYR	LOCLK_TEXT	LOCLKO	DEPTH_COV
	YOUNGSTOWN	1948	UNDER GROUND		24
	UNKNOWN		UNDER GROUND		36
			UNDER GROUND		72
	LONE STAR STEEL	1968	UNDER GROUND		52
	TEX TUBE	1966	UNDER GROUND		40
	LONE STAR STEEL	1968	UNDER GROUND		30
	LONE STAR STEEL	1968	UNDER GROUND		42
	STUPP CORP	1962	UNDER GROUND		61
N/A	YOUNGSTOWN	1936	UNDER GROUND		34
	YOUNGSTOWN	1948	UNDER GROUND		43
	REPUBLIC STEEL	1949	UNDER GROUND		30
NA	REPUBLIC STEEL		UNDER WATER		
	REPUBLIC	1958	OTHER	CREEK	48
		1953	OTHER	MARSH/SWAMP	42
N/A	BETHLEHEM	1968	UNDER GROUND		48
NA	LONE STAR STEEL	1960	UNDER GROUND		30
			UNDER GROUND		24
	LONE STAR STEEL	1967	UNDER GROUND		40
	BETHLEHEM	1964	UNDER GROUND		48
	JONES & LAUGHLIN	1957	UNDER GROUND		48
NOT APPLICABLE	JONES & LAUGHLIN	1957	UNDER PAVEMENT		54
	LONE STAR STEEL	1960	UNDER GROUND		84

RUPTURE_TEXT	PRTYR	Decade failed prt instld	FAIL_OC_TEXT	HVL & Spill >= 5
LONGITUDINAL-TEAR/CRACK	1948	1940-1949	PIPE SEAM	NO
		Unknown	BODY OF PIPE	NO
	1958	1950-1959	BODY OF PIPE	NO
LONGITUDINAL-TEAR/CRACK	1968	1960-1969	BODY OF PIPE	YES
	1966	1960-1969	BODY OF PIPE	YES
	1968	1960-1969	BODY OF PIPE	NO
	1968	1960-1969	GIRTH WELD	NO
	1962	1960-1969	BODY OF PIPE	YES
LONGITUDINAL-TEAR/CRACK	1936	1930-1939	PIPE SEAM	NO
LONGITUDINAL-TEAR/CRACK	1949	1940-1949	PIPE SEAM	NO
LONGITUDINAL-TEAR/CRACK	1949	1940-1949	PIPE SEAM	NO
	1959	1950-1959	BODY OF PIPE	NO
	1958	1950-1959	PIPE SEAM	NO
LONGITUDINAL-TEAR/CRACK	1953	1950-1959	BODY OF PIPE	NO
	1968	1960-1969	PIPE SEAM	NO
	1960	1960-1969	GIRTH WELD	YES
	1957	1950-1959	OTHER	NO
	1968	1960-1969	PIPE SEAM	NO
LONGITUDINAL-TEAR/CRACK	1964	1960-1969	PIPE SEAM	NO
	1957	1950-1959	PIPE SEAM	NO
LONGITUDINAL-TEAR/CRACK	1957	1950-1959	BODY OF PIPE	NO
		Unknown	BODY OF PIPE	YES

Significant Accident	LONGITUDINAL-TEAR/CRACK	Prpty in Millions
YES	YES	1.028
YES	NO	0.08
YES	NO	0.0105
YES	YES	0.74
YES	NO	0.3749
YES	NO	0.079003
YES	NO	0.05401
YES	NO	0.145693
YES	YES	0.56699
YES	YES	4.650025
YES	YES	0.405434
YES	NO	0.425
YES	NO	0.506314
YES	YES	0.582
YES	NO	0.1413
YES	NO	0.0562
YES	NO	0.04315
YES	NO	0.0791
YES	YES	5.5
YES	NO	0.359
YES	YES	0.380289
YES	NO	0.2066

Type of accident	HL form type
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form
Seam Type or "Pipe Seam/Other fields" incidates High Frequency or Low Frequency	New Form

IYEAR	RPTID	OPERATOR_ID
2003	20030305	3466
2003	20030181	12127
2004	20040138	18092
2005	20060021	31618
2006	20060140	31672
2007	20070244	32258
2002	20020123	18092
2007	20070046	32167
2006	20060167	31684
2003	20030458	4906
2003	20030157	3445
2004	20050024	31684
2004	20040354	31684
2005	20050351	31618
2005	20050184	31618
2005	20050170	32011
2005	20050141	4906
2006	20070100	31627
2006	20060261	31618
2006	20060131	31618
2007	20070209	10012
2007	20070029	11169
2002	20020271	6856
2004	20040336	31174
2005	20050304	2190

NAME
DOME PIPELINE CORP
MARATHON ASHLAND PIPE LINE LLC
SFPP, LP
ENTERPRISE PRODUCTS OPERATING L.P.
CHAPARRAL ENERGY, L.L.C.
KINDER MORGAN COCHIN LLC
SFPP, LP
QUICKSILVER RESOURCES
CONOCOPHILLIPS PIPE LINE CO.
EXXONMOBIL PIPELINE CO
DIXIE PIPELINE COMPANY
CONOCO PIPE LINE COL
PHILLIPS PIPE LINE CO.
ENTERPRISE PRODUCTS OPERATING LP
ENTERPRISE PRODUCTS OPERATING L.P.
HOLLY ENERGY PARTNERS
EXXONMOBIL PIPELINE COMPANY
DENBURY RESOURCES
ENTERPRISE PRODUCTS OPERATING LP
ENTERPRISE PRODUCTS OPERATING LP
KANEB PIPELINE OPERATING PARTNERSHIP L.P. A NUSTAR ENERGY L.P. COMPANY
ENBRIDGE ENERGY, LIMITED PARTNERSHIP
KOCH PIPELINE COMPANY, L.P. AMMONIA
SHELL PIPELINE CO., L.P.
CENTRAL FLORIDA PIPELINE

IDATE	OFFSHORE	ACSTATE	ACCOUNTY	ACCITY	LATITUDE	LONGITUDE
7/16/2003	N	ND	BARNES	VALLEY CITY	N46 59.25'	W 98 7.7
4/8/2003	N	IL	WAYNE	CISNE	38.48778	-4987
4/27/2004	N	CA	SOLANO	FAIRFIELD	W122.28217	N38.16638
12/27/2005	N	MO	LIVINGSTON	CHILLICOTHE	N39 43 33.9	W93 36 09.6
4/20/2006	N	TX	HUTCHINSON	BORGER	N 35 39.392	W 101 25.918
7/17/2007	N	ND	BARNES	VALLEY CITY	46 54' 20.895	-98 03' 35.095
3/22/2002	N	AZ	MARICOPA	CHANDLER	W111 -53' 588	N33 -17' -476
1/5/2007	N	TX	HOOD			
5/14/2006	N	TX	HUTCHINSON	BORGER		
12/2/2003	N	LA	JEFFERSON		N29 19' 36"	W89 58' 30"
3/13/2003	N	GA	COLUMBIA	APPLING	35.58	83.27
12/24/2004	N	MT	YELLOWSTONE	BILLINGS	45 39 1.87	108 45 16.70
11/22/2004	N	CO	OTERO	LA JUNTA	38 03.945	103 29.307
11/11/2005	N	IL	LA SALLE	OTTAWA	41D28'44	88D51'21
6/3/2005	N	IA	WOODBURY	DANBURY		
5/19/2005	N	NM	EDDY	ARTESIA	32.84415	104.34282
4/19/2005	N	LA	JEFFERSON	GRAND ISLE	N29 19' 48	W89 58' 24
12/28/2006	N	MS	SMITH	RALEIGH	N31.93109'	W08951159
8/22/2006	N	IL	GRUNDY	MORRIS	41D22'20	88D21'50
4/5/2006	N	NE	SAUNDERS	ASHLAND	41D 02' 15	96D 26' 12
6/4/2007	N	MO	MONTGOMERY	RHINELAND		
1/1/2007	N	WI	CLARK	ATWOOD	44 53 00	90 29 21
6/1/2002	N	LA	UNION	FARMERVILLE		
9/23/2004	Y					
9/15/2005	N	FL	HILLSBOROUGH	PLANT CITY	28-00.238	82-10.832

GEN_CAUSE	GEN_CAUSE_TEXT	INJURE	FATAL	PRPTY
1	CORROSION	0	0	1211000
1	CORROSION	0	0	120000
1	CORROSION	0	0	14500000
1	CORROSION	0	0	359361
1	CORROSION	0	0	139000
1	CORROSION	0	0	102306
3	EXCAVATION DAMAGE	0	0	115516
3	EXCAVATION DAMAGE	0	0	74200
7	INCORRECT OPERATION	0	0	1100
5	MATERIAL AND/OR WELD FAILURES	0	0	2575000
5	MATERIAL AND/OR WELD FAILURES	0	0	151886
5	MATERIAL AND/OR WELD FAILURES	0	0	58850
5	MATERIAL AND/OR WELD FAILURES	0	0	185600
5	MATERIAL AND/OR WELD FAILURES	0	0	25143
5	MATERIAL AND/OR WELD FAILURES	0	0	124390
5	MATERIAL AND/OR WELD FAILURES	0	0	186000
5	MATERIAL AND/OR WELD FAILURES	0	0	3248496
5	MATERIAL AND/OR WELD FAILURES	0	0	78447
5	MATERIAL AND/OR WELD FAILURES	0	0	481773
5	MATERIAL AND/OR WELD FAILURES	0	0	55620
5	MATERIAL AND/OR WELD FAILURES	0	0	56650
5	MATERIAL AND/OR WELD FAILURES	0	0	702500
2	NATURAL FORCES	0	0	57969
2	NATURAL FORCES	0	0	6910000
4	OTHER OUTSIDE FORCE DAMAGE	0	0	3100000

CLASS_TEXT
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
CRUDE OIL
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
CRUDE OIL
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
CRUDE OIL
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND
CRUDE OIL
CO2/N2 OR OTHER NON-FLAMMABLE, NON-TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
CRUDE OIL
HVLS/OTHER FLAMMABLE OR TOXIC FLUID WHICH IS A GAS AT AMBIENT CONDITIONS
CRUDE OIL
GASOLINE, DIESEL, FUEL OIL OR OTHER PETROLEUM PRODUCT WHICH IS A LIQUID AT AMBIENT COND

LOSS_BBL	RECOV_BBL	NETLOSS_BBL	IGNITE	EXPLO	EVAC	EVACNO
7324	0	7324	Yes	No	No	
0.119047619	0	0.119047619	No	No	No	
2454	1343	1111	No	No	No	
3113	0	3113	No	No	No	
			No	No	No	
0.071428571	0	0.071428571	No	No	No	
1050	193	857	No	No	No	
1719	0	1719	No	No	No	
34	0	34	No	No	No	
356	100	256	No	No	No	
2603	0	2603	No	No	No	
40	20	20	No	No	No	
2765	0	2765	No	No	No	
5	0	5	No	No	No	
3	0	3	No	No	Yes	4
100	70	30	No	No	No	
600	551	49	No	No	No	
24659	0	24659	No	No	No	
5	0	5	No	No	No	
0.380952381	0	0.380952381	No	No	No	
3	0	3	No	No	No	
1500	1450	50	No	No	No	
43	0	43	No	No	No	
2264	578	1686	No	No	No	
900	855	45	No	No	Yes	100

EVAC_REASON_TEXT	NPS	WALLTHK	SPEC	SMYS
	12	0.21	API 5LX-X60	60000
	20	0.22	API 5LX	52000
	14	0.22	API 5LX-52	52000
	10	0.19	API-5L	52000
	8	0.31	API 5L	52000
	12	0.22	API-5L	60000
	6	0.25	X-46	46000
	8	219	API 5L	52000
	6.63	0.25	API 5L	52000
	12	0.25	X52	52000
	8	0.19	API-5L	52000
	8.63	0.22	5L	52000
	8.63	0.16	5L	52000
	10	0.19	API 5L	52000
PRECAUTIONARY BY COMPANY	6.63	0.16	API 5L X46	46000
	8.63	0.22		42000
	12	0.25	X-52	52000
	20	0.31	API 5L	80000
	8.63	0.25	API-5L	60000
	8.63	0.16	API 5L	46000
	10	0.25	API 5L	42000
	24	0.33	API 5L X-70	70000
	4	0.19	API 5L	42000
	18	0.5		65000
REQUIRED OR INITIATED BY PUBLIC OFFICIAL	10.75	0.19	API 5L	60000

SEAM	PIPE_SEAM_TEXT	Pipe Seam Type	VALVE
HF ERW		HIGH FREQUENCY	N/A
ERW HF		HIGH FREQUENCY	
HIGH FREQUENCY ERW		HIGH FREQUENCY	
HF ERW		HIGH FREQUENCY	
HF ERW		HIGH FREQUENCY	FLANGE-WELDED
HIGH FREQUENCY ERW		HIGH FREQUENCY	
HF ERW		HIGH FREQUENCY	
HFERW		HIGH FREQUENCY	
ERW, HIGH FREQUENCY WELD		HIGH FREQUENCY	GATE
ERW	HF ERW	HIGH FREQUENCY	
ERW-HF	HF ERW	HIGH FREQUENCY	
ERW, HIGH FREQUENCY WELD		HIGH FREQUENCY	APOLLO BALL VALVE
ERW, HIGH FREQUENCY WELD	HF ERW	HIGH FREQUENCY	GATE
HF ERW		HIGH FREQUENCY	
HF ERW		HIGH FREQUENCY	
ERW	HF ERW	HIGH FREQUENCY	N/A
BEEW	HF ERW	HIGH FREQUENCY	
LONGITUDINAL SEAM	HF ERW	HIGH FREQUENCY	N/A
HF ERW		HIGH FREQUENCY	
HF-ERW		HIGH FREQUENCY	
ERW	HF ERW	HIGH FREQUENCY	
HF ERW	HF ERW	HIGH FREQUENCY	
HF ERW		HIGH FREQUENCY	
HFIW		HIGH FREQUENCY	
HF ERW		HIGH FREQUENCY	

MANU	MANYR	LOCLK_TEXT	LOCLKO	DEPTH_COV
US STEEL	1977	UNDER GROUND		44
US STEEL	1968	UNDER GROUND		38
KIASER		OTHER	MANAGED WETLANDS	48
LONE STAR STEEL	1972	UNDER GROUND		78
CAMERON	1979	UNDER PAVEMENT		180
US STEEL	1977	OPEN DITCH		72
CALIFORNIA STEEL IND	2001	OPEN DITCH		84
L55	2004	UNDER GROUND		48
GROVE	1979	ABOVE GROUND		0
REPUBLIC STEEL CORP	1964	UNDER WATER		12
STUPP CORP	1961	UNDER GROUND		40
CONBRACO	1961	ABOVE GROUND		0
LONE STAR	1971	UNDER GROUND		34
AMERICAN STEEL	1973	UNDER GROUND		40
LONE STAR STEEL	1968	UNDER GROUND		59
STUPP CORP		UNDER GROUND		90
REPUBLIC STEEL	1964	UNDER WATER		1
STUPP & MANNESMANN	2005	UNDER GROUND		88
TEX-TUBE STEEL	1987	UNDER GROUND		50
LONE STAR STEEL	1968	UNDER GROUND		36
UNKNOWN		UNDER GROUND		72
STUPP	1998	UNDER GROUND		60
HOESCH	1960	UNDER GROUND		38
	2002	UNDER WATER		
REPUBLIC STEEL	1973	UNDER GROUND		42

RUPTURE_TEXT	PRTYR	Decade failed prt instld	FAIL_OC_TEXT	HVL & Spill >= 5
LONGITUDINAL-TEAR/CRACK	1977	1970-1979	BODY OF PIPE	YES
	1968	1960-1969	BODY OF PIPE	NO
LONGITUDINAL-TEAR/CRACK	1967	1960-1969	BODY OF PIPE	NO
	1972	1970-1979	BODY OF PIPE	YES
	1979	1970-1979	BODY OF PIPE	NO
		Unknown	BODY OF PIPE	NO
	2001	2000-2009	BODY OF PIPE	NO
		Unknown	BODY OF PIPE	YES
	2000	2000-2009	COMPONENT	YES
LONGITUDINAL-TEAR/CRACK	1964	1960-1969	PIPE SEAM	NO
LONGITUDINAL-TEAR/CRACK	1961	1960-1969	PIPE SEAM	YES
	1961	1960-1969	VALVE	NO
LONGITUDINAL-TEAR/CRACK	1971	1970-1979	PIPE SEAM	NO
	1973	1970-1979	GIRTH WELD	YES
	1968	1960-1969	BODY OF PIPE	NO
	1981	1980-1989	PIPE SEAM	NO
LONGITUDINAL-TEAR/CRACK	1964	1960-1969	PIPE SEAM	NO
LONGITUDINAL-TEAR/CRACK	2005	2000-2009	PIPE SEAM	NO
	1987	1980-1989	GIRTH WELD	YES
	1968	1960-1969	GIRTH WELD	NO
	1969	1960-1969	PIPE SEAM	NO
LONGITUDINAL-TEAR/CRACK	1998	1990-1999	PIPE SEAM	NO
	1970	1970-1979	BODY OF PIPE	YES
	2002	2000-2009	OTHER	NO
LONGITUDINAL-TEAR/CRACK	1973	1970-1979	BODY OF PIPE	NO

Significant Accident	LONGITUDINAL-TEAR/CRACK	Prpty in Millions
YES	YES	1.211
YES	NO	0.12
YES	YES	14.5
YES	NO	0.359361
YES	NO	0.139
YES	NO	0.102306
YES	NO	0.115516
YES	NO	0.0742
YES	NO	0.0011
YES	YES	2.575
YES	YES	0.151886
YES	NO	0.05885
YES	YES	0.1856
YES	NO	0.025143
YES	NO	0.12439
YES	NO	0.186
YES	YES	3.248496
YES	YES	0.078447
YES	NO	0.481773
YES	NO	0.05562
YES	NO	0.05665
YES	YES	0.7025
YES	NO	0.057969
YES	NO	6.91
YES	YES	3.1