



1996

Summary of U.S. Occupational Injuries, Illnesses, and Fatalities in the Petroleum Industry

As Reported to the American Petroleum Institute

Covering U.S. Petroleum and Petrochemical Operations of Reporting Companies for 1996

API Publication 2375 September 1997 Revised



One of the most significant long-term trends affecting the future vitality of the petroleum industry is the public's concerns about the environment. Recognizing this trend, API member companies have developed a positive, forward looking strategy called STEP: Strategies for Today's Environmental Partnership. This program aims to address public concerns by improving industry's environmental, health and safety performance; documenting performance improvements; and communicating them to the public. The foundation of STEP is the API Environmental Mission and Guiding Environmental Principles. API standards, by promoting the use of sound engineering and operational practices, are an important means of implementing API's STEP program.

API ENVIRONMENTAL MISSION AND GUIDING ENVIRONMENTAL PRINCIPLES

The members of the American Petroleum Institute are dedicated to continuous efforts to improve the compatibility of our operations with the environment while economically developing energy resources and supplying high quality products and services to consumers. The members recognize the importance of efficiently meeting society's needs and our responsibility to work with the public, the government, and others to develop and to use natural resources in an environmentally sound manner while protecting the health and safety of our employees and the public. To meet these responsibilities, API members pledge to manage our businesses according to these principles:

- To recognize and to respond to community concerns about our raw materials, products and operations.
- To operate our plants and facilities, and to handle our raw materials and products in a
 manner that protects the environment, and the safety and health of our employees
 and the public.
- To make safety, health and environmental considerations a priority in our planning, and our development of new products and processes.
- To advise promptly appropriate officials, employees, customers and the public of information on significant industry-related safety, health and environmental hazards, and to recommend protective measures.
- To counsel customers, transporters and others in the safe use, transportation and disposal of our raw materials, products and waste materials.
- To economically develop and produce natural resources and to conserve those resources by using energy efficiently.
- To extend knowledge by conducting or supporting research on the safety, health and environmental effects of our raw materials, products, processes and waste materials.
- To commit to reduce overall emissions and waste generation.
- To work with others to resolve problems created by handling and disposal of hazardous substances from our operations.
- To participate with government and others in creating responsible laws, regulations and standards to safeguard the community, workplace and environment.
- To promote these principles and practices by sharing experiences and offering assistance to others who produce, handle, use, transport or dispose of similar raw materials, petroleum products and wastes.



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Prepared for the Health and Environmental Affairs Department by the Finance, Accounting and Statistics Department

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Suggested revisions are invited and should be submitted to the director of the Health and Environmental Affairs Department, American Petroleum Institute, 1220 L Street, N.W., Washington, D.C. 20005.

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REPORTED U.S. OCCUPATIONAL INJURIES, ILLNESSES, AND FATALITIES IN THE PETROLEUM INDUSTRY: 1996

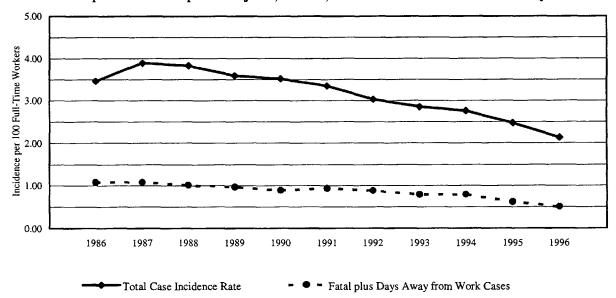
SUMMARY

This report is an aggregate of data submitted to the American Petroleum Institute (API) by 140 oil and gas companies (including 12 subsidiaries), employing 228,209 persons with a total work experience of 463 million hours during 1996. In 1995, 172 companies reported 261,183 employees with a work experience of 535 million hours. Individual company participation varies from year to year, yet 90 companies, representing 97 percent of the number of employees and 96 percent of the number of hours worked in 1996 had responded to this survey for the past 2 years.

In 1996, the *Total Case Incidence Rate* was 2.13, compared to 2.47 for 1995. This rate is the number of total recordable cases per 200,000 hours worked, or approximately the number of cases per 100 full-time workers per year.

The Fatal Plus Days Away From Work Incidence Rate for 1996 was .50 per 200,000 hours worked—or one case for every 200 employees, improving from .62 for 1995—or one case for every 161 employees.

Safety among reporting companies continues to improve, as shown in the figure below. Since 1986, the *Total Case Incidence Rate* and *Fatal plus Days Away from Work Incidence Rate* have improved an average of 4.5 and 7.1 percent per year, respectively.



Reported U. S. Occupational Injuries, Illnesses, and Fatalities in the Petroleum Industry

The Survey

Company participation in the API annual statistical survey is voluntary. Participants were asked to submit data according to the Bureau of Labor Statistics (BLS) Recordkeeping Guidelines for Occupations Injuries and Illnesses, September 1986 edition. Therefore, this report provides incidence rates per 200,000 hours worked on the same basis as those reported by BLS. It should be noted, however, that this report covers company employees only; contract worker safety statistics are not included.

Significant differences exist among companies regarding return-to-work policies and practices, i.e., for returning injured or ill employees to restricted activity if they are unable to perform normal job activities and as part of their recoveries. Therefore, use of the Fatal plus Days Away From Work Incidence Rates alone to judge and compare company safety performance is not recommended.

The Bureau of Labor Statistics (BLS) publishes employment figures for different sectors of the petroleum industry. The following table shows the number of full-time employees given in this API report and the comparative total employment figures published by BLS. These figures can be used to calculate the API survey representation rate.

	E&P and Drilling	Refining and Gas Processing	Oil Pipelines	Total Marketing
API	41.9	51.0	12.0	53.6
BLS	310.7	98.0	13.6	827.9
Representation Rate	13%	57%	95%	6%

Caution should be used, however, when interpreting these representation rates. As mentioned above, the API survey is limited to company employees while the BLS has a more inclusive definition of employment (the BLS includes contract workers).

Of the 140 companies that responded, 83 agreed to have their company data published individually. However, the total listed for each function is the total for all reporting companies not just the sum of the individual companies appearing in that section of the report.

Additional copies of this report may be obtained by contacting the API Publications and Distribution Department at (202) 682-8375.



Table 1 -- Total (Including Offshore Activities)

U.S. Occupational Injuries and Illnesses for 1996 Covering Petroleum and Petrochemical Operations of Reporting Companies

National Property	1		23	8		4					rc.				9	
No.					R	cordable Cas	es		Extent	and Outcome	of Injury and	Illness			cidence Rate	88
K. Avvenge Hours					æ	q	U	70	Ф	ſ	80	ч	ŗ	į	ᅩ	1
Number N										Lost Work	day Cases				Ī	
t Avantage House House Avantage House Avantage Number of Days N										Cases					Fatal plus	Lost
K Numbroyees Thorate Inches Total Feature Army Army of Page Long Total Army Army of Page Long Total Army Army of Page Long Consert Army Army of Page Long Consert Consert Army Army Of Page Consert									Total	Involving	Number of Dave	Number	Non-Fatal		Days	days
q Francisco de la control de la		×	Average	Hours					Lost	Away	Away	of Days of	Without		from	Away
a 110.94 11.09 2.8 2.0 6.0 6.0 7.0 1.00 7.0 1.00 7.0 1.00 7.0 1.00 7.0 1.00 7.0 1.00 7.0 1.00 7.0 1.00 7.0 1.00 7.0 1.00 7.0 1.00 9.0 7.0 1.00 7.0 1.00 9.0 7.0 1.00 9.0 1.00 9.0 1.00 9.0 1.00 9.0 9.0 1.00 9.0 <td>Function</td> <td>y, e</td> <td>Number of Employees</td> <td>Worked (Thousands)</td> <td>Injuries</td> <td>Illnesses</td> <td>Total</td> <td>Fatalities</td> <td>Workday Cases*</td> <td>From Work</td> <td>From Work</td> <td>Restricted Activity</td> <td>Lost Workdays</td> <td>Total Cases</td> <td>Work Cases</td> <td>From Work</td>	Function	y, e	Number of Employees	Worked (Thousands)	Injuries	Illnesses	Total	Fatalities	Workday Cases*	From Work	From Work	Restricted Activity	Lost Workdays	Total Cases	Work Cases	From Work
b 12.73 57.10 28.6 28.0 4.0 1.4 7.7 1.89 1.79 1.69 2.89 9.89 3.8 4.88 3.8 7.4 1.89 7.4 1.89 7.4 1.89 7.4 1.89 7.4 2.84	Exploration	В	979	1,903	11	1	18	0	5	5	78	0	7	1.26	0.53	8.20
ability 4471 66,846 20 71 100 60 36 221 110 66,46 36,46 36,40	Production	Ъ	12,774	27,915	258	32	290	1	141	77	1,898	1,797	148	2.08	0.56	13.60
c 41,457 86,918 66,918 71 700 4 60,47 6,446 6,446 6,446 71,49 <td>E&P-Not sep</td> <td>ap</td> <td>27,728</td> <td>57,100</td> <td>420</td> <td>38</td> <td>458</td> <td>3</td> <td>221</td> <td>182</td> <td>3,669</td> <td>743</td> <td>234</td> <td>1.60</td> <td>0.65</td> <td>12.85</td>	E&P-Not sep	ap	27,728	57,100	420	38	458	3	221	182	3,669	743	234	1.60	0.65	12.85
c 4,722 8,923 7,2 1,2 64 34 21 949 27 949 27,9 1,289 0,47 1,289 0,48 0,48 0,49 1,289 0,48	E&P Subtotal		41,481	86,918	689	11	760	×	887	264	5,646	2,640	389	1.76	0.62	12.99
d 3194 380 21 60 110 61 68 68 75 11 647 1389 c 112886 37646 380 25 385 0 163 68 1.333 2.635 173 1.89 0.98 f 4.6280 3.7446 3.86 1.286 2.61 2.615 2.615 3.74 0.98 g 1.2242 2.6176 3.627 2.62 65 1.36 2.616 3.74 0.66 d 2.2248 3.6176 2.62 3.62 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.68 3.67 3.67 3.68 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.67 3.68 3.67 3.68 3.67 3.68 3.69 3.72 3.69 3.72	Gas Processing	U	4,722	8,928	72	12	8	0	34	21	949	279	. 50	1.88	75.0	21.26
c 46,290 37,645 386 1,830 661 163 681 173 2,09 173 178 0,840 R 46,290 97,783 1,224 66 1,286 0 651 670 9,811 6,20 26,90 R 1,224 2,245 1,265 1,286 1 2,240 1,29 2,31 1,41 2,42 1,42 2,42 1,42 2,42 1,42 2,43 1,41 2,42 1,42 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,43 1,41 2,44 1,41 2,43 1,42 2,43 1,42 2,43 1,42 2,43 1,42 1,42 1,42 1,42 1,42 1,42 1,42 1,42 1,42	Drilling	ъ	397	808	27	0	27	0	16	8 0	89	75	11	6.67	1.98	18.81
r 40,290 9173 1229 66 42,896 66 42,896 66 661 267 670 9811 6426 9811 6426 670 9811 6426 670 9811 6426 670 9811 670	Petrochemical Mfg	ပ	17,895	37,646	330	25	355	0	183	89	1,333	2,695	172	1.89	0:36	7.08
ch 12242 26145 386 12 367 106 267 106 267 26146 11 486 106 267 136 2617 2317 481 22110 4821 686 136 2010 4821 686 1319 588 123 678 137 678	Refining	J	46,290	97,783	1,229	99	1,295	2	651	252	6,705	9,811	642	2.65	0.62	13.71
ch 22110 38.681 1.00 1.683 1.683 1.69 1.693 1.683 1.693 1.6	Marketing-Whole.	84	12,242	25,145	386	12	398	0	257	105	2,357	2,313	141	3.17	0.84	18.75
ch 6216 316 216 246 1.0 122 66 1.319 838 1.219 838 1.21 66 1.288 1.21 66 1.686 1.686 1.68 1.70 830 7.672 830 1.289 0.60 1 1.1985 24.035 2.18 1.6 1.0 79 1.966 848 1.99 3.29 0.60 1 1.1985 24.035 1.8 0 4 4 1.966 848 1.99 3.29 0.60 1 2.118 2.6 8 90 0 4 4 4 1.89 1.5 4.82 6.69 1 2.118 2.6 8 90 0 3.7 2.6 2.5 2.6 3.19 6.69 3.19 4.6 4 4 1.89 1.16 3.19 6.69 4.82 1.0 4 4 1.89 1.16 3.19 3.19 3.19	Marketing-Retail	ч	22,110	38,587	1,008	15	1,023	1	456	136	2,010	4,821	566	6.30	17.0	10.42
i 11.966 1.666 1.666 1.666 1.666 1.666 1.666 307 5.646 7.672 850 327 0.60 i 11.967 24.035 218 17 235 0 16 79 1.966 648 129 3.78 0.66 j 80 16 8 0 8 0 4 4 189 15 4 662 3.78 0.66 662 3.7 26 254 159 3.19 0.66 662 4 4 189 15 4 662 4 662 4 662 4 662 4 662 4 662 66	MrktNot sep ²	ď.	19,228	38,166	216	29	245	0	122	99	1,319	838	123	1.28	0.35	6.91
i 40 11,995 24,035 21,89 106 70 106 70 106 70 106 70 106 70	Mrkt, Subtotal		69,580	101,898	1,610	88	1,666		885	367	5,686	7,972	880	3.27	09'0	11.16
i 201 166 B 0 8 0 4 4 189 15 4 80 4 80 6 4 80 6 6 4 80 6 6 7 180 15 15 6 6 9 7 26 254 253 6 9 7 16 26 254 253 6 7 14 16 1	Pipeline-Liquid		11,995	24,035	218	17	235	0	106	79	1,966	848	129	#	99'0	16.86
ii 2718 5661 82 80 0 37 266 254 53 518 3.19 7 266 254 253 63 318 62 34 7 264 1,116 186 26,33 6 1 24 10 116 10 116 10 11 10 11 10 24 0 3 3 10 4 116 10 11 10 11 10 11 10 11 10 11 10 11 10 11 10	Pipeline-Gas	-	80	166	8	0	86	0	4	4	189	15	4	9.64	4.82	227.71
k 14,783 28,888 308 25 333 6 147 108 24,09 1,116	Pipeline-Not sep3	4	2,718	5,651	82	8	90	0	37	26	254	253	53	3.19	0.92	8.98
k 644 1,202 17 3 30 0 3 3 194 0 17 3.33 1 444 612 23 1 24 0 9 4 181 19 15 154 7.84 k1 1,469 3,619 26 0 9 6 0 7 6 1.38	Pipeline Subtotal		14,793	29,853	308	25	933	0	147	108	8,409	1,116	186	8.23	0.78	16,14
I, 1469 612 23 1 24 0 9 4 181 19 15 7.84 KI 1,469 3619 25 0 25 0 19 8 599 70 6 1.33 m 2,467 5,433 66 14 89 0 81 16 94 486 60 1.04 8 2.64 8 2.64 8 8.64 8 8.64 8 8.64 8 8.64 8 8 8.64 8 8 8.64 8	Marine-Tanker	¥	544	1,202	17	3	98	0	3	3	194	0	17	3.33	0.50	32.28
kl 1.469 3.619 2.619 2.6 0 2.6 0 36 0 16 8 599 70 6 1.38 8 1.38 8 1.38 2.64 1.38 3.64 1.38 3.64 </td <td>Marrine-Inland</td> <td>-</td> <td>444</td> <td>612</td> <td>23</td> <td>1</td> <td>22</td> <td>0</td> <td>6</td> <td>4</td> <td>181</td> <td>19</td> <td>15</td> <td>7.84</td> <td>1.81</td> <td>59.16</td>	Marrine-Inland	-	444	612	23	1	22	0	6	4	181	19	15	7.84	1.81	59.16
n 2,467 6,433 66 14 80 0 81 15 974 89 2,64 n 7,614 16,433 66 14 80 0 20 16 94 486 60 1,04 n 3,131 6,210 48 1 49 0 28 21 421 389 21 1,68 o 35,849 72,338 1,67 64 221 0 91 73 1,808 1,114 130 6,61 6,61 x 228,209 463,248 4,601 358 4,639 7 2,403 1,154 26,032 26,599 2,13	Marine-Not sep*	3	1,469	3,619	25	0	38	0	19	80	599	70	9	1.38	9.44	\$9.10
m 7,614 15,433 66 14 80 0 20 16 16 94 486 60 1,04 n 3,131 6,210 48 1 49 0 28 21 421 389 21 1,68 o 35,849 72,338 157 64 221 0 91 73 1,808 1,114 130 6.61 228,209 463,248 4,601 858 4,939 7 2,403 1,154 26,092 26,596 2,529 2,13	Marine Subtotal	00 00 0 00 0 00 0 00 0 00 0 00 0 00 0	2,467	5,433	\$	•	69	0	81	16	974	88	88	3.54	0.55	35.86
n 3.131 6,210 48 1 49 0 28 21 421 389 21 4.681 o 35,849 72,338 157 64 221 0 91 73 1,808 1,114 130 6.61 8 d 228,209 463,248 4,601 588 4,839 7 2,403 1,154 26,092 26,696 2,629 2,13	Research & Dev.	ε	7,614	16,433	99	14	80	0	20	16	94	486	09	1.04	0.81	1.22
0 35,849 72,338 1.67 64 221 0 91 73 1,808 1,114 130 661 961 1 228,209 463,248 4,601 858 4,839 7 2,403 1,154 26,092 26,596 2,529 2.13	General Services	п	3,131	6,210	48	-	48	0	28	21	421	389	21	1.58	0.68	13.56
228,209 463,248 4,601 858 4,889 7 2,408 1,154 26,082 26,566 2,529 2.13	Admin., Eng., Other	٥	35,849	72,338	157	64	221	0	91	73	1,808	1,114	130	0.61	0.20	6.00
	Total		228,209	463,248	4,601	888	4,939	7	2,403	1,154	26,092	26,566	2,529	2.13	0.50	11.36



Table 2 -- Offshore Activities

Covering Petroleum and Petrochemical Operations of Reporting Companies U.S. Occupational Injuries and Illnesses for 1996

	Т	_	T				-			33	98 4 8	\$\$\\$0	8138	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	V000	er 8.
		83	-		Lost	Work	days	Away	Work		0000	23.93	00.0	10.62		15.27
9		incidence Kates	*		Fatal	snld :	Days Away	from	Cases		00'0	0.71	y w	0.89		0.78
		٤						Total	Cases		96'0	9.23	ě	8:		2.03
				·		No.	Cases	Without Lost	Workdays		0	31	or.	37		- 14
	llness		ч				Number	of Days of Restricted	Activity	,		438	0	182		620
	of Injury and		540	lay Cases		Number	of Days	Away From	Work	·		741	0	480		122,1
5	Extent and Outcome of Injury and Illness		ſ	Lost Workday Cases	ť	Casses	Days	Away From	Work	·		22	0	40		8
	Extent		e				Total	Lost Workday	Cases*	0		88	0	53		16
			ъ						Fatalities	c	, ,		0	0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	0
			ů				•		Total	•	٤	80		8		168
4	Recordable Cases		q						Illnesses	0	u		0	8		8
	Re		æ					l minut	injuries	0	8		3	88		154
3							House	Worked	(Tilomonius)	32	6 195		721	680,6		15,987
2					-		Аустаре	Number of Employees	1000	16	2.887		360	4,380		7,648
							×	4°°	,	B	۰	١,	+	abd		
1								Function		Offshore Exploration	Offshore Production	Offich and Datifican	Ousilore Drilling	Combinations of Above-Not Sep°		10tal Offshore

Endnotes

B&P data unable to be separated into Exploration or Production functions.

Marketing data unable to be separated into Wholesale or Retail functions.

Pipeline data unable to be separated into Liquid or Cas functions.

Marine data unable to be separated into Tanker or Inland.

Keyed to definitions outlined in the API Fire and Safety Data System User's Manual.

Exploration, Production, and Drilling data unable to be separated as listed.

Includes restricted activity.

Column $\theta(k) = \frac{(Column \, \delta(d) + Column \delta(f)) \times 200}{}$

Column 6(j) = Column 4(c) × 200 Column 3

Column 3

Column $\theta(l) = \frac{Column \delta(g) \times 200}{Column 3}$

Incidence Rate Formulas

Covering Petroleum and Petrochemical Operations of Reporting Companies U.S. Occupational Injuries and Illnesses for 1996

m - Research & Development	n - General Services	o - Admin., Engineering, & Other	
(ij) - Pipeline - Not Sep.	k - Marine Tanker	I - Marine - Inland	(kl) - Marine - Not Sep.
h - Marketing - Retail	(gh) - Marketing - Not Sep.	i - Pipeline - Liquid	j - Pipeline - Gas
d - Drilling	e - Petrochemical Manufacturing	f - Refining	g - Marketing-Wholesale
a · Exploration	b - Production	(ab) - Exploration & Production - Not Sep.	c · Gas Processing

				Recordable Cases	ses		Extent and	Extent and Outcome of Injury and Illness	of Injury an	d Illness			Incidence Rates	tes
								Lost Wor	Lost Workday Cases					
						•							Fatal	
								Cases	-				Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	ō	.⊑					Workday	From	From	Restricted	Lost	Total	Work	From
Ω	Employees	Employees Thousands	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

Away	From	Work	-		11.26	7.77 (ab),e,f,g,h,(ij),m,o	10.79 b,e,f,g,h,i,l,m,n,o	8.67 a,(ab),b,c,d,f,(gh),i,k,m,n,o	62.44 i	13.88 (ab),c,e,f,(gh),(ij),m,n,o	7.65 (ab),o	14.31 i	8.30 (ab),c,e,f,(gh),i,(kl),m,n,o	i 00:00	40.60 i	4.46 b,f,(gh),i,(kl),n,o	48.77 f	2.41 a,b	0.00 i
	Work	Cases			0.50	0.44	0.54	0.35	2.04	0.86	0.52	0.74	0.14	0.00	0.75	0.14	2.46	98.0	00.00
	Total	Cases			2.13	2.70	5.43	1.42	4.08	1.63	96.0	1.33	1.04	90.9	2.26	1.16	14.77	1.07	0.77
TO NAME OF	Lost	Workdays			2,529	32	655	88	=	156	S.	4	61	-	2	8	22	80	က
o Cays or	Restricted	Activity			26,566	741	6,218	661	65	2,168	0	0	720	0	241	2,087	0	21	0
Away	From	Work			26,092	213	2,456	875	428	3,146	88	6	964	0	54	791	218	27	0
Away	From	Work			1,154	12	123	35	14	193	9	ß	16	0	-	24	=	4	0
rosc	Workday	Cases*		Functions	2,403	42	581	90	17	212	9	5	9	0		125	Ξ	4	0
		Fatalities		All Fun	_	0	-	0	0	-	ò	0	0	0	0	0	0	0	0
		Total			4,939	74	1,237	143	28	369	Ŧ	တ	121	-	က	206	99	12	ဇ
		Illnesses			338	2	36						9			•	S.	-	0
		Injuries			4,601	72	1,201	135	24	287	თ	თ	115	-	ო	194	61	Ξ	ര
Worked	.⊑	Thousands			463,248	5,483	45,532	20,174	1,371	45,342	2,301	1,356	23,220	8	266	35,510	894	2,240	779
Number	ō	Employees			228,209	2,651	25,964	9,287	625	22,955	1,112	658	11,165	16	128	17,387	388	755	371
	Company	Q			Total	=	13	14	17	24	27	53	32	ဗ္ဗ	38	41	£	28	90

			Rec	Recordable Cases	ases		Extent and	Extent and Outcome of Injury and Illness	of Injury an	d Illness			Incidence Rates	tes
								Lost Wor	Lost Workday Cases					
													Fatal	
								Cases					Plus	Lost
								Invalving	Number		Non-Fatal		Days	Workdays-
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
mpany	jo	. <u>c</u>					Workday	From	From	Restricted	Lost	Total	Work	From
Ω	Employees	Thousands	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

(Cont.)
Functions
₹

4.58 a,b,c,d,f,g,i,m,n,o		57.27 j,n,o			334.83 i,o	4.59 a,b,c,d,e,f,g,i,m,o	5.72 (ab),e,f,(gh),i,(kl),o		_		103.03 (ab)		10.78 i	12.50 i	0.00	0.00 i	i 00.00	1.64 (ab),e.f.g.i.o	i 00 0
0.15	1.44	1.50	0.32	0.40	2.25	0.14	0.29	0.58	0.55	0.28	2.27	0.50	0.20	4.17	0.00	0.00	0.00	0.09	00.0
1.51	5.23	4.80	1.52	0.40	2.25	96.0	1.51	2.09	3.48	2.81	2.88	1.59	1.02	4.17	3.88	00'0	0.00	1.86	0.00
9	53	=	153	0	0	91	169	182	109	18	4	Ξ	4	0	2	0	0	49	0
578	630	15	782	0	0	1,554	2,233	1,008	931	0	0	0	0	2	0	0	0	570	0
300	349	191	1,280	_	149	834	1,236	1,101	511	143	089	106	53	ო	0	0	0	20	0
10	24	2	55	-	-	52	90	82	58	2	15	2	-	-	0	0	0	4	0
36	28	2	115	-	-	83	154	127	89	7	15	2	-	-	0	0	0	30	0
0	0	0	-	0	0	0	7	-	0	0	0	0	0	0	0	0	0	0	0
66	87	16	569	-	-	174	325	310	177	20	19	16	Ω.	-	N	0	0	79	0
2	ო	0	21	0	0	27	19	40	0	4	0	4	0	0	0	0	0	6	0
26	84	16	248	-	-	147	306	270	177	16	19	7	r.	-	2	0	0	70	0
13,107	3,325	299	35,404	504	83	36,304	43,189	29,691	10,170	1,426	1,320	2,017	983	84	103	65	က	8,512	56
6,868	1,542	327	17,029	255	47	18,299	20,763	14,054	5,319	728	099	086	485	20	20	30	22	3,891	58
92	73	74	06	91	63	66	106	109	118	126	140	233	239	258	260	261	301	0001	1014

			Rec	Recordable Cases	ses		Extent and	Extent and Outcome of Injury and Illness	f Injury and	1 Illness			Incidence Rates	tes
								Lost Wor	Lost Workday Cases					
													Fatal	
								Cases					Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Амау	of Days of	Without		From	Away
Company	ō	٤					Workday	From	From	Restricted	Lost	Total	Work	From
٩	Employees	Employees Thousands	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

(Cont.)

All Functions

		•																	
0.00 i	0.00 a	0.00 b	0.00 a,b	0.00 i	0.00 b	16.90 (ab),e,f,g,h,(ij),(kl),m,o	35.60 f,g,h	100.00 (ab)	0.00 (ab),o	1,000.00 b	0.00 a,b	5.68 f	0.00	0.00 (ab),o	i 00.00	15.55 f,i	57.14 (ab),b,o	0.00 b,c	0.00 b
0.00	0.00	0.00	0.00	0.00	0.00	0.78	0.60	50,00	0.00	50.00	0.00	3.41	0.00	0.00	0.00	1.45	14.29	0.00	0.00
1.56	0.00	0.00	0.00	0.00	0.00	2.05	1.38	50.00	0.00	50.00	0.00	4.55	3.31	3.92	0.00	3.98	57.14	0.00	0.00
-	0	0	0	0	0	189	53	0	0	0	0	-	CI	-	0	=	0	0	0
0	0	0	0	0	0	2,531	0	8	0	30	0	9	0	0	0	91	ဗ	0	0
0	0	0	0	0	0	3,785	1,316	7	0	50	0	ιΩ	0	0	0	98	4	0	0
0	0	0	0	0	0	175	23	-	0	-	0	ო	0	0	0	80	-	0	0
0	0	0	0	0	0	269	22	-	0	-	0	က	0	0	0	=	4	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	0	0	0	0	0	458	51	-	0	-	0	4	8	-	0	22	4	0	0
0	0	0	0	0	0	O	0	0	0	0	0	0	0	0	0	ß	4	0	0
-	0	0	0	0	0	449	49	-	0	-	0	4	C)	-	0	17	0	0	0
128	15	9	4	53	က	44,792	7,393	4	4	4	5	176	121	2	241	1,106	14	89	1 5
69	τυ	ιΩ	0	5	က	21,861	3,216	2	8	ო	တ	69	28	8	118	575	9	33	9
10015	10030	10203	10218	10403	10412	10420	10421	10509	10519	10523	10534	10540	10544	10560	10570	10575	10607	10608	10611

α	

												oʻpʻoʻq	0	c,(gh),i,o		c,e,g,(ij),o	f,g,h,l,o				<u>~</u>	f,g,h,i	<u> </u>			~				
88			Lost	Workdays-	Days	Away	From	Work		00		8.80 b,c	0.75 c,i,o	14.23 c,(27.57 (23.27 f,g	0.00	0.00	0.00 i		7.13 f,g			0.00	12.50 (ab)	0.00	0.00	0.00 i	0.00 g,i
Incidence Rates		Fatal	Plus	Days	Away	From	Work	Cases		c C	2.33	0.39	0.19	1.19	0.43	0.00	1.48	0.00	0.00	0.00	0.00	0.98	2.08	0.00	0.00	0.35	0.00	0.00	0.00	00.0
					-		Total	Cases		Ċ	0.30	3.71	0.56	3.36	2.27	1.12	2.45	1.98	0.00	2.38	0.00	4.42	2.08	0.00	0.00	0.96	0.00	0.00	11.11	5.16
		****		Non-Fatal	Cases	Without	Lost	Workdays		Ç	۰	=	α	=	18	7	9	-	0	-	0	14	0	0	0	7	0	0	0	4
Illness				-	Number	of Days of	Restricted	Activity		ć	S	117	0	24	426	0	271	0	0	0	0	4	0	0	0	0	0	0	33	0
Injury and	Lost Workday Cases			Number	of Days	Away	From	Work	(Cont.)	9	<u>}</u>	45	4	72	450	0	173	0	0	0	0	58	17	0	0	143	0	0	0	0
Outcome of	Lost Work		Cases	Involving	Days	Away	From	Work	Ŭ	•	+	7	-	9	7	0	=	0	0	0	0	4	-	0	0	4	0	0	0	0
Extent and					Total	Lost	Workday	Cases*	tions	1	O	œ	-	9	19	0	12	0	0	0	0	4	-	0	0	4	0	0	-	0
E		I						Fatalities	All Functions	c	>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
86								Total	•	;	= :	19	က	17	37	α	18	•	0	-	0	18	-	0	0	=	0	0	-	4
Recordable Cases								Illnesses		ć	>	4	0	0	က	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0
Reco								Injuries		*	- !	1	ო	17	34	7	16	-	0	•	0	18	•	0	0	=	0	0	-	4
	<u> </u>				Hours	Worked	. <u>c</u>	Thousands		ç	2 !	1,023	1,065	1,012	3,265	326	1,487	5	240	84	N	814	96	151	9	2,288	က	29	18	155
					Average	Number	ţo	Employees		7	D :	211	483	483	1,349	170	739	48	102	31	-	366	48	72	2	1,077	2	22	4	89
							Company			9	2 !	10617	10620	10622	10626	10629	10645	11564	12421	13421	20006	20029	20032	20035	20037	20038	20050	20051	20111	30101

Hates			Lost	Workdays-	Days	Away	From	Work
Incidence Hates		Fatal	Plus	Days	Away	From	Work	Cases
							Total	Cases
				Non-Fatal	Cases	Without	Lost	Workdays
d Illness					Number	of Days of	Restricted	Activity
Extent and Outcome of Injury and Illness	Lost Workday Cases			Number	of Days	Away	From	Work
Outcome	Lost Wo		Cases	Involving	Days	Away	From	Work
Extent and					Total	Lost	Workday	Cases*
								Fatalities
ases								Total
Recordable Cases			•					Illnesses
æ								nirries
					Hours	Worked	Ξ.	Employees Thousands
					Average	Number	jo	Employage
							Company	2

	a,b				€			<u>.</u>	ō,
		22.83 1	24.61	0.00					
	0.00	0.85	3.14	0.00	0.84	0.00	0.29	0.00	00.00
	0.00	1.69	5.24	0.65	3.07	0.20	0.73	0.00	0.00
	0	8	4	-	Ŧ	0	ო	0	0
	0	0	0	0	119	30	0	0	0
(Cont.)	0	54	47	0	139	0	239	0	0
0	0	2	9	0	9	0	7	0	0
ions	0	7	9	0	=	-	7	0	0
All Functions	0	0	0	0	0	0	0	0	0
₹	0	4	10	-	22	-	5	0	0
	0	0	0	0	თ	0	-	0	0
	0	4	9	-	5		4	0	0
	9	473	382	307	1,434	266	1,370	206	36
	ღ	209	184	124	741	460	700	96	22
	30103	30107	30111	90001	90054	90041	66006	90118	99118

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Covering Petroleum and Petrochemical Operations of Reporting Companies U.S. Occupational Injuries and Illnesses for 1996

			æ	Recordable C	Cases		Extent and	Extent and Outcome of Injury and Illness	of Injury	and Illness			Incidence Rates	ates
								Lost Wo	Lost Workday Cases	S				
						-							Fatal	
								Cases					Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays
	Average	Hours					Total	Days	of Days	Number	Cases	<u>-</u>	Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	ō	.⊆					Workday	From	From	Restricted	Lost	Total	Work	From
Ω	Employees	Thousands	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work
							Exploration	ation						
Total	979	1,903	11	1	12	0	3	5	78	0	_	1.26	0.53	8.20
4	175	359	0	0	0	,	0	0	0	0	0	0.00	0.00	0.00
58	136	287	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
65	286	516	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
66	151	251	0	_	-	0	0	0	0	0	_	0.80	0.00	0.00
10030	S	15	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10218	_	7	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10534	4	-	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
30103	-	2	0	0	0	0	0	0	0	0	0	00.0	0.00	0.00

					ā	Production	<u>o</u>								
Total	12,774	27,915	258	35	290	1	141	12	1,898	1,797	148	2.08	0.56	13.60	
13	374	644	16	0	16	0	9	10	370	32	9	4.97	3.11	114.91	
4	344	762	13	0	1 3	0	œ	9	94	54	22	3.41	1.57	24.67	
4	3,190	6,899	47	4	51	0	53	4	47	340	55	1.48	0.12	1.36	
28	619	1,953	=	-	12	0	4	4	27	21	œ	1.23	0.41	2.76	
92	1,702	3,363	54	0	24	0	12	က	159	154	12	1.43	0.18	9.46	
66	1.685	3,948	13	10	23	0	Ŧ	တ	78	346	12	1.17	0.46	3.95	
109	3.941	8.156	83	5	86	0	4	17	338	8/9	22	2.40	0.42	8.29	
10203	ſΩ	9	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
10218	-	2	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
10412	ო	ო	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
10523	က	4	-	0	-	0	-	-	50	90	0	20.00	50.00	1,000.00	
10534	ß	တ	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
10607	4	4	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
10608	28	28	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	
10611	9	5	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00	

Extent and Outcome of Injury and Illness Incidence Rates	Саѕвѕ	Fatal	Plus Lost	Non-Fatal Days W	Number Cases Away	of Days of Without From	Restricted Lost Total Work	Activity Workdays Cases Cases	(;	4.35	00.0 0.00 0.00 0 0	parated	3,669 743 234 1.60 0.65 12.85	12 2 0.93 0.31	33	3 27 1.33 0.74	0 1 1.07 0.92	1.11 0.15	7 24 0.64	93 32 132 0.44
Outcome of In	Lost Workday Cases		Cases	Involving Number	Days of Days			Work Work	ion (cont.)	-	0	Production Not Separated	182 3,6	-		35 3			6	
Extent and					Total	Lost	Workday	Cases*	Production	က	0	duction	221		13	37	9	ιυ	ည	56
	-							Fatalities		5 0	0	and Pro		0	0	-	0		0	
Cases								es Total			0	Exploration and	38 458	0	1 46	1 65	1 7	2 15	4 29	09 6
Recordable								Injuries Illnesses		5	0	Exp	420	က	45	54	9	13	25	51
			7'8		Hours	Worked	.⊑	Thousands		230	4		57,100	645	4,900	9,783	1,306	2,709	9,095	9,103
					Average	Number	ţo	Employees		114	8		27,728	295	2,305	2,087	619	1,303	4,373	4,376
							Company	۵		10617	30103		Total	Ξ	1	54	27	35	06	106

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		Recordable		Cases		Extent and	Extent and Outcome of Injury and Illness	of Injury a	and Illness			Incidence Rates	ates
							Lost Wo	Lost Workday Cases	,				
												Fatal	
							Cases					Plus	Lost
						·	Involving	Number		Non-Fatal		Days	Workdays-
Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
<u>,</u>	ء.					Workday	From	From	Restricted	Lost	Total	Work	From
seekolo	Employees Thousands Injuries	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

(cont.)	
- Not Separated	
and Production	
Exploration a	

26.96	103.03	0.00	24.11	100.00	0.00	0.00	00.0	0.00	35.42	12.50
1.59	2.27	0.00	1.32	20.00	0.00	0.00	0.00	0.00	2.08	0.35
4.11	2.88	1.7	3.04	50.00	0.00	5.26	00.0	0.00	2.08	96.0
27	4	4	35	0	0	-	0	0	0	7
120	0	63	131	7	0	0	0	0	0	0
374	089	0	547	2	0	0	0	0	17	143
8	15	0	30	-	0	0	0	0	-	4
30	15	ო	37	-	0	0	0	0	-	4
0	0	0	0	0	0	0	0	0	0	0
27	19	7	69	-	0	-	0	0	-	F
0	0	_	-	0	0	0	0	0	0	0
57	19	9	89	-	0	-	0	0	-	Ξ
2,775	1,320	820	4,538	4	က	38	4	8	96	2,288
1,491	099	404	2,128	0	_	73	4	-	8	1,077
118	140	10001	10420	10509	10519	10560	10607	20006	20032	20038

			Re	Recordable C	Cases		Extent and	Extent and Outcome of Injury and Illness	of Injury	and Illness			Incidence Rates	ates
								Lost Wo	Lost Workday Cases					
													Fatal	
								Cases		-	-		Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average Hours	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	ō	.⊑					Workday	From	From	Restricted	Lost	Total	Work	From
O	Employees	Employees Thousands Injuries	Injuries	Sesseull	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

	21.26	0.00	10.02	0.00	0.00	13.16	19.51	21.93	0.00	0.00	0.00	0.00	0.00
	0.47	0.00	0:42	0.00	0.00	0.82	0.16	0.57	0.00	0.00	0.00	0.00	0.00
	1.88	0.00	1.88	0.48	0.77	2.45	1 .83	2.67	0.00	3.35	0.29	0.00	0.00
	20	0	ß	-	0	16	7	-	0	01	-	0	0
	279	0	15	9	35	78	55	0	0	20	0	0	0
	949	0	84	0	0	161	120	115	0	0	0	0	0
5 1	21	0	7	0	0	9	-	က	0	0	0	0	0
cessin	34	0	4	7	-	14	က	က	0	2	0	0	0
Gas Processi	0	0	0	0	0	0	0	0	0	0	0	0	0
G	84	0	თ	ო	-	30	우	4	0	4	-	0	0
	12	0	0	0	0	-		တ	0	-	0	0	0
	25	0	თ	ო	-	53	တ	ហ	0	ო	-	0	0
	8,928	30	928	1,250	259	2,446	1,230	1,049	9	239	629	87	39
	4,722	4	884	601	128	1,178	593	512	2	119	307	46	19
	Total	4	24	32	92	06	66	109	10608	10617	10620	10622	10629

_			Rec	Recordable Ca	Cases		Extent and	Extent and Outcome of Injury and	of Injury s	and Illness			Incidence Rates	ates
								Lost Wo	ost Workday Cases	S				
			_										Fatal	
								Cases				÷	Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
Ă —	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
<u>2</u>	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	ō	.⊆					Workday	From	From	Restricted	Lost	Total	Work	From
_	seevolc	Employees Thousands Injuries	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work
							Drilling	ත						
Total	397	808	27	0	27	0	16	8	89	23	11	6.67	1.98	16.81
4	21	43	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
. rS	35	62	0	0	0	0	0	0	0	0	0	0.00	0:00	0.00
66	102	211	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
10617	우	9	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

0.00

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			Re	Recordable (Cases		Extent and	J Outcome	Outcome of Injury and I	and Illness			Incidence Rates	ates
								Lost Wo	Lost Workday Cases					
													Fata	
								Cases					Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	jo						Workday	From	From	Restricted	Lost	Total	Work	From
9	Employees	Thousands	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work
						Petroc	hemica	Petrochemical Manufacturing	ıfactur	ing				
Total	17,895	37,646	330	25	355	0	183	89	1,333	2,695	172	1.89	0.36	7.08
=	260	1,292	16	-	17	0	12	8	17	224	7.	2,63	0.34	63
13	614	1,327	13	4	17	0	Ŋ	က	2	4	12	2.56	0.45	9 65
24	2,179	5,457	35	7	34	0	15	4	29	27	19	1.25	0.51	2.46
32	270	295	φ	0	ဖ	0	က	-	28	4	က	2.14	0.36	20.54
73	403	957	32	0	32	0	52	4	36	324	13	7.31	0.84	7.52
06	2,665	5,527	77	4	8	0	₹	27	473	276	88	2.93	0.98	17.12
66	4,277	7,923	36	0	36	0	19	-	9	457	17	0.91	0.03	0.25
100	4,903	10,198	29	9	77	0	36	က	131	921	4	1.51	90.0	2.57
10001	897	1,794	19	က	52	0	7	-	25	33	15	2.45	0.11	5.80
10420	1,029	2,403	27	-	58	0	2	12	425	405	7	2.33	1.00	35.37
10629	86	506	7	0	7	0	0	0	0	0	2	1.94	0.00	0.00

			Rec	Recordable C	Cases		Extent and	Extent and Outcome of Injury and Illness	of Injury	and Illness			Incidence Rates	ates
								Lost Wo	ost Workday Cases					
													Fatal	
								Cases					Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Average Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked			-		Lost	Away	Away	of Days of	Without		From	Away
Company	o	.⊆					Workday	From	From	Restricted	Lost	Total	Work	From
Ω	Employees	Employees Thousands Injuries	Injuries	Minesses	Total	Total Fatalities Cases*	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

	13.71	7.11	27.79	00.0	5.33	4.42	2.23	3.77	00.0	9.94	5.59	4.	9.68	2.41	5.85	.34	5.11
	0.52	0.2	0,73	0.0	1.	0.5	0.1	2.4	0.0	5.0	0.3	0.1	0.2	<u>.</u>	0.2	0.0	<u>4</u> .0
	2.65	2.76	7.21	0.79	1.95	2.83	1.55	14.77	2.46	10.73	2.86	1.40	2.35	3.95	5.30	2.46	1.75
	642	7	2	5	32	24	52	22	30	80	4	52	28	4	54	50	23
	9,811	243	646	162	881	610	1,055	0	235	104	375	675	1,089	596	237	290	4 6
	6,705	54	459	0	794	534	86	218	0	92	166	392	498	482	86	IJ	999
D 1	252	7	12	0	26	42	ည	Ξ	0	89	6	4	4	27	က	-	21
Refinin	651	14	22	80	09	38	43	Ξ	12	တ	40	33	63	43	24	16	24
	0	0	0	0	0	0	0	0	0	0	-	0	0	-	0	0	0
	1,295	21	119	13	92	62	89	99	45	17	82	28	121	82	78	36	77
	99	0	7	0	-	4	ო	ည	0	0	တ	9	0	13	0	ო	2
	1,229	21	112	13	94	28	92	61	45	17	9/	25	121	75	78	33	72
	97,783	1,520	3,303	3,278	9,723	4,374	8,788	894	3,408	317	5,941	8,303	10,284	4,302	2,941	2,926	8,800
	46,290	672	1,672	1,529	4,636	2,103	4,120	388	1,696	180	2,856	4,204	4,944	1,990	1,494	1,355	4,400
	Tota/	Ξ	1 3	4	54	35	4	43	65	73	06	66	106	109	118	10001	10420

							Lost Wo	Lost Workday Cases	s	100			
						-						Fatal	
							Cases					Plus	Lost
		<u> </u>					Involving	Number		Non-Fatal		Days	Workdays-
Average	ge Hours					Total	Days	of Days	Number	Cases		Away	Days
Number	er Worked					Lost	Away	Away	of Days of	Without		From	Away
Company of	2.					Workday	From	From	Restricted	Lost	Total	Work	From
ID Employees	ees Thousands	Injuries	llnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work
10421 2.485		36	-	40	0	9	9	704	0	24	1.35	0.54	23.74
10540	33 176	4	0	4	0	ო	က	21	9	-	4.55	3.41	5.68
10575 398		9	က	19	0	6	9	99	86	9	5.14	1.62	17.86
'		34	က	37	0	19	7	450	426	18	2.27	0.43	27.57
		4	0	4	0	က	ო	φ	30	-	1.83	1.22	2.44
		17	0	17	0	က	က	27	14	4	5.20	0.92	8.26
		4	0	4	0	2	2	54	0	2	1.69	0.85	22.83
		9	0	9	0	9	9	47	0	4	5.24	3.14	24.61

		Mecordable Ca	Cases		Extent and	EXTENT AND CUICOTHE OF INJURY AND INFESS	S AIDIN 10	ING IIITIBES			II ICIUEI ICE NAIBS	ales
						Lost Wo	Lost Workday Cases					
				L							Fatal	
						Cases				-	Plus	Lost
		•				Involving	Number		Non-Fatal		Days	Workdays-
Average Hours					Total	Days	of Days	Number	Cases		Away	Days
Number Worked					Lost	Away	Away	of Days of	Without		From	Away
Company of in					Workday	From	From	Restricted	Lost	Total	Work	From
ID Employees Thousands Injuries	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

Marketing -- Wholesale

18.75	00.0	11.95	12.30	36.27	0.00	8.52	26.54	2.21	50.07	55.11	0.00	60.91	0.00	0.00
0.84	00:0	0.77	0.42	2.00	0.00	0.21	2.29	0.34	1.91	0.64	0.00	4.06	0.00	0.00
3.17	0.00	3.93	2.24	5.16	1.28	1.27	4.12	1.70	4.80	1.12	0.00	4.06	0.00	4. 4.
141	0	74	7	9	9	1	ღ	9	21	ო	0	0	0	-
2,313	0	1,081	105	183	7	50	14	2 5	618	0	0	219	0	0
2,357	0	653	88	218	0	161	28	13	761	345	0	09	0	0
105	0	42	က	12	0	4	5	8	53	4	0	4	0	0
257	0	141	6	52	-	10	9	4	52	4	0	4	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
398	0	215	16	3	7	24	თ	유	73	7	0	4	0	
12	0	7	0	-	01	0	-	0	0	-	0	0	0	0
386	0	208	16	99	57	54	æ	10	73	ဖ	0	4	0	-
25,145	215	10,929	1,431	1,202	1,097	3,778	437	1.178	3,040	1,252	2	197	52	45
12,242	122	5,353	739	267	527	1.831	216	471	1.520	629	35	95		20
Total	Ξ	13	92	73	06	66	109	10001	10420	10421	10629	10645	20029	30101

Average Number of Lors Hours Injuries Total Cases Lost Howhing Involving Invol				æ	Recordable C	Cases		Extent an	Extent and Outcome of Injury and Illness	of Injury	and Illness			Incidence Rates	Paffee
Average Languised State State Languised Languised Languised State Languised Languis									Lost Wo	orkday Case	Ş				COR
Avverage Library Hours Hours Fine Lost Total Lost Cases Library Number Lost N														Fatal	
Average Injuries Hours Included Sas Injuries Total Lost Lost Away of Days of									Cases					Plus	Lost
Average of Lours Hourise of Invises Invited in Invises Total Days of Days of Otals of Days of Without Invited in Invises Total Invises Average of Total Invises	·								Involving	Number		Non-Fatal		Days	Workdays
Number Worked Number N		Average						Total	Days	of Days	Number	Cases	•	Away	Davs
Final Incomplete Incomple		Number	Worked					Lost	Away	Away	of Days of	Without		From	Awav
Famployees Thousands Injuries Illnesses Total Fatalities Cases Work Work Work Monkdays Cases	Company	jo	<u>_</u>					Workday	From	From	Restricted	Lost	Total	Work	From
Marketing Retail 22,110 38,587 1,008 15 1,023 1 456 136 2,010 4,821 566 5.30 0.71 256 540 26 0 26 0 13 6 123 171 13 9.63 2.22 12,973 20,138 774 14 788 1 337 46 652 4,195 450 7.83 0.47 2,341 4,871 20 0 20 0 6 3 39 32 14 0.82 0.12 2,341 4,871 20 0 2 0 6 3 39 32 14 0.82 0.12 2,65 1,524 172 0 172 0 172 0 125 125 14 0 0 125 125 14 0 0 125 125 14 0 125 125 126	٦	Employees	Thousands	_	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	9096	Mork
25,110 38,587 1,008 15 1,023 1 456 136 2,010 4,821 566 5.30 0.71 256 540 26 0 26 0 13 6 123 171 13 9.63 2.22 12,973 20,138 774 14 788 1 337 46 652 4,195 450 7.83 0.47 2,341 4,871 20 0 20 0 6 3 39 32 14 0.82 0.12 2,341 4,871 20 0 2 0 6 3 39 32 14 0.82 0.12 2,5762 11,524 172 0 172 0 90 72 815 401 82 2.99 1.25 102 210 4 0 4 0 5 4 107 2 3.81 1.90 2							Market	ting	Retail						
256 540 26 0 26 0 13 6 123 171 13 9.63 2.22 12,973 20,138 774 14 788 1 337 46 652 4,195 450 7.83 0.47 2,341 4,871 20 0 20 0 6 3 39 32 14 0.82 0.12 266 545 1 0 1 0 1 1 0 0 0.37 0.37 5,762 11,524 172 0 172 0 90 72 815 401 82 2.99 1.25 102 210 4 0 4 0 2 2 267 0 0 0 1.60 1.60 261 477 7 1 8 0 5 4 107 22 3 3.35 1.68 55 125	Tota/	22,110				1,023	1	456	136	2,010	4,821	266	5.30	0.71	10.42
12,973 20,138 774 14 788 1 337 46 652 4,195 450 7.83 0.47 2,341 4,871 20 0 20 0 6 3 39 32 14 0.82 0.12 266 545 1 0 1 1 1 0 0 0.37 0.37 5,762 11,524 172 0 172 0 90 72 815 401 82 2.99 1.25 102 210 4 0 4 0 2 2 267 0 2 2.99 1.56 261 477 7 1 8 0 5 4 107 22 3 3.35 1.68 55 125 1 0 1 0 0 0 0 0 0 0 1.60 1.60	1	256		56	0	26	0	13	9	52	171	<u>.</u>	0	000	75 50
2,341 4,871 20 0 20 0 6 3 39 32 14 0.82 0.12 266 545 1 0 1 1 1 0 0 0.37 0.37 5,762 11,524 172 0 172 0 90 72 815 401 82 2.99 1.25 102 210 4 0 2 2 267 0 2 3.81 1.90 261 477 7 1 8 0 5 4 107 22 3 3.35 1.68 55 125 1 0 1 0 1 0 1.60 1.60	13	12,973	ઍ	774	14	788	•	337	46	650	4 105	720	3 6	7 5	00.00
266 545 1 0 1 1 0 0 0.37 0.12 5,762 11,524 172 0 172 0 90 72 815 401 82 2.99 1.25 102 210 4 0 2 2 267 0 2 3.81 1.90 261 477 7 1 8 0 5 4 107 22 3 3.35 1.68 55 125 1 0 1 0 1 1 0 1.60 1.60	06	2,341		20	0	2	· c	.	? "	1 6	?; ;	7	8 8	4 7	5. 5 5. 5
5,762 11,524 172 0 1 1 0 0 0.37 0.37 102 210 4 0 172 0 90 72 815 401 82 2.99 1.25 102 210 4 0 2 2 267 0 2 3.81 1.90 261 477 7 1 8 0 5 4 107 22 3 3.35 1.68 55 125 1 0 1 0 1 60 1.60 1.60	109	266		•	· c	ì	o c) ,	7		אָל י	<u> </u>	0.82	0.1Z	99.
3,762 11,324 172 0 90 72 815 401 82 2.99 1.25 102 210 4 0 4 0 2 2 267 0 2 3.81 1.90 261 477 7 1 8 0 5 4 107 22 3 3.35 1.68 55 125 1 0 1 0 1 1 2 0 0 1.60 1.60		1 10		- (> (- !	>	-	_	- -	0	0	0.37	0.37	0.37
102 210 4 0 2 2 267 0 2 3.81 1.90 261 477 7 1 8 0 5 4 107 22 3 3.35 1.68 55 125 1 0 1 0 1 1 2 0 0 1.60 1.60	7440	20/6		7/5	0	172	0	8	72	815	40	85	2.99	1.25	14.14
261 477 7 1 8 0 5 4 107 22 3 3.35 1.68 55 125 1 0 1 0 1 1 2 0 0 1.60 1.60	0421	102		4	0	4	0	2	8	267	0	0	3.81	190	254 29
55 125 1 0 1 0 1 1 2 0 0 1.60 1.60	0645	261		7	-	ω	0	S	4	107	22	ı ca	3.35	. 4	44.86
	029	55		Ψ-	0	-	0	-	-	N	0	0	1.60	8 8	3.50

			Rec	Recordable Ca	Cases		Extent and	Extent and Outcome of Injury and Illness	of Injury a	sud Illness			Incidence Rates	ates
_	<u> </u>	J <u>.</u>		i				Lost Wor	Lost Workday Cases					
								-					Fatal	
								Cases				-	Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
Ž	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	ō	.⊆					Workday	From	From	Restricted	Lost	Total	Work	From
	ğ	Thousands	Injuries	Sesseull	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work
							6				9	,	Ç	Č
Total 19	19,228	38,166	216	53	245	0	122	99	1,319	838	123	1.28	0.35	6.97
4	978	1.878	16	-	17	0	13	က	6	211	4	1.81	0.32	10.33
	2.892	5,690	37	27	2	0	4	38	585	89	ଷ	2.25	1.34	20.56
	2,935	6,103	21	0	21	0	5	-	357	48	16	0.69	0.03	11.70
	5.474	9,918	53	+	54	0	53	8	=	328	53	1.09	0.04	0.22
	5.106	10,620	26	0	56	0	24	20	236	94	35	1.05	0.38	4.4
109	1,101	2,551	우	0	9	0	-	0	0	5	တ	0.78	0.00	0.00
	717	1,355	20	0	20	0	ဖ	-	80	42	4	2.95	0.15	1.18
	5	24	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

			Ræ	Recordable	Cases		Extent an	Extent and Outcome of Injury and Illness	of Injury	and Illness			Incidence Rates	lates
								Lost Wo	Lost Workday Cases	S				
													Fatal	
								Cases					Plus	Lost
							,	Involving	Number		Non-Fatal	-	Days	Workdays-
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	o	.⊑					Workday	From	From	Restricted	Lost	Total	Work	From
۵	Employees	Employees Thousands Injuries	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work
						Pipelir	Pipeline Liauid	auid						
Total		11,995 24,035	218	17	235		106	62	1,966	848	129	1.96	99.0	16.36
13	1,151	1,789	33	0	33	0	16	ĸ	72	183	17	69	0.55	8 05

	60			_		_	_	_	_	_		_		_		
	16.36	8.06	10.57	62.44	14.31	0.0	0.00	40.60	0.00	0.00	0.53	0.00	29.67	0.40	541.82	2.19
	99.0	0.56	0.65	2.04	0.74	0.00	0.00	0.75	0.00	0.00	0.27	0.00	0.17	0.40	3.64	0.29
	1.96	3.69	1.57	4.08	1.33	0.57	90.9	2.26	0.20	0.77	1.33	1.65	1.22	0.40	3.64	0.73
	129	17	4	Ξ	4	-	-	CI	0	က	ო	-	က	0	0	ဗ
	848	183	33	65	0	က	0	241	30	0	18	0	7	0	0	0
	1,966	72	81	428	26	0	0	54	0	0	7	0	170	-	149	15
ַ	62	2	5	14	5	0	0	-	0	0	-	0	-	-	-	2
	106	16	œ	17	ស	۲۵	0	-	-	0	7	0	4	-	-	7
npenne	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Τ	235	33	12	58	တ	ო	-	က	-	က	ည	- -	7	-	-	ιΩ
	17	0	-	4	0	0	0	0	0	0	0	0	0	0	0	-
	218	33	=	24	တ	က	-	ო	-	က	2	-	7	-	-	4
	24,035	1,789	1,532	1,371	1,356	1,055	33	266	266	779	752	121	1,146	504	22	1,372
	11,995	1,151	99/	625	658	207	16	128	460	371	404	22	220	255	58	869
	ota/	13	4	11	53	32	33	38	41	8	92	73	8	91	83	66

			Ra	Recordable Co	Cases		Extent and	Extent and Outcome of Injury and Illness	of Injury a	seull but			Incidence Rates	ates
								Lost Wo	Lost Workday Cases	,				
													Fatal	
								Cases					Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Average Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	jo	.⊆					Workday	From	From	Restricted	Lost	Total	Work	From
QI	Employees	Employees Thousands Injuries	Injuries	Ilnesses	Total	Fatalities	Cases*	Work	Work	Activity	Activity Workdays	Cases	Cases	Work

(Cont.)
Liquid
Pipeline I

<u>18</u>	20.06	10.51	10.78	12.50	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.90	125.74	5.71	15.08
0.35	0.28	0.50	0.20	4.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.09	3.38	1.43	1.34
1.04	2.81	1.59	1.02	4.17	3.88	0.00	0.00	0.65	0.00	1.56	0.00	3.31	0.00	1.63	9.28	2.86	3.35
ဖ	18	Ξ	4	0	α	0	0	_	0		0	7	0	-	9	-	9
36	0	0	0	Ŋ	0	0	0	0	0	0	0	0	0	2	22	0	24
16	143	106	53	က	0	0	0	0	0	0	0	0	0	20	149	4	45
ო	8	เว	-	-	0	0	0	0	0	0	0	0	0	8	4	-	4
က	7	2	-	_	0	0	0	0	0	0	0	0	0	8	S	-	4
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
6	20	16	ιO	-	7	0	0	_	0	-	0	N	0	က	=	8	10
0	4	4	0	0	0	0	0	0	0	0	0	0	0	α	0	0	0
თ	16	12	5	-	8	0	0	-	0	-	0	2	0	-	Ξ	8	10
1,736	1,426	2,017	983	84	103	92	က	308	26	128	53	121	241	367	237	140	262
834	728	980	485	50	20	30	22	124	58	69	12	28	118	177	124	28	273
106	126	233	239	258	260	261	301	10001	10014	10015	10403	10544	10570	10575	10616	10620	10622

			Recordal	Recordable Cases	ases		Extent and	Outcome	Extent and Outcome of Injury and Illness	and Illness			Incidence Rates	ates
								Lost Wo	ost Workday Cases	S				
													Fatal	
								Cases					Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	ð	.⊆			-		Workday	From	From	Restricted	Lost	Total	Work	From
۵	Employees 1	Thousands	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

					ā	ipeline -	Liquid		(Cont.)					
11564	84	101	-	0	-	0	0	0	0	0	-	1.98	0.00	0.00
12421	102	240	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
13421	34	84	-	0	-	0	0	0	0	0	-	2.38	00:0	0.00
20029	14	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20035	72	151	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20037	2	10	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20050	2	က	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20051	52	29	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
20111	4	18	-	0	-	0	, -	0	0	33	0	11.11	0.00	0.00
30101	48	110	က	0	ო	0	0	0	0	0	ღ	5.45	0.00	0.00
90001	124	307	-	0	-	0	0	0	0	0	-	0.65	0.00	0.00
90041	460	266	-	0	-	0	-	0	0	30	0	0.20	0.00	0.00
66006	200	1,370	4		ß	0	7	Ø	239	0	က	0.73	0.29	34.89
90118	9	131	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
99118	15	30	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

			Rec	Recordable C	Cases		Extent an	Extent and Outcome of Injury and Illness	of Injury 8	and Illness			Incidence Rates	lates
								Lost Wo	Lost Workday Cases	,				
													Fatal	
								Cases					Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	ţo	. ⊆					Workday	From	From	Restricted	Lost	Total	Work	From
۵	Employees	Thousands Injuries	Injuries	llnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

			2	Marine Tanker	- Tanke	<u>_</u>						
1,202	17	B	50	0	_ω	B	194	0	17	3.33	0.50	32.28
1,202	17	ო	50	0	ღ	ო	194	0	17	3.33	0.50	32.28
			2	Marine Infand	- Inland	_						
612	23	1	24	0	6	4	181	19	15	7.84	1.31	59.15
550	8	-	21	0	8	ო	179	19	13	7.64	1.09	62.09
ડ	-	0	-	0	0	0	0	0	-	4.65	0.00	0.00

Recordable
sses Total Fatalities

	33.10					5 10.16
	0.44	c	מים) C		0.25
	1.38	3.61	164	0.53	241	0.25
	9	-	4	0	•	. 0
	20	17	23	0		0
ated	599	0	556	8	0	4
Not Separated		0	9	-	0	-
- Not	19	4	5	-	0	
Marine	0	0	0	0	0	0
	52	Ŋ	17	-	-	-
	0	0	0	0	0	0
	25	ស	17	-	-	-
	3,619	277	2,077	375	83	807
	1,469	133	968	180	45	218
	Total	32	4	106	118	10420

Average Hours Number Worked of in Employees Thousands Injuries Illnesses Total 7,614 15,433 66 14 80 0 378 754 9 2 111 0 448 897 5 1 6 0 1,907 3,966 14 7 21 0 370 769 1 2 3 0 1,028 2,138 4 1 5 3 0 1,194 2,334 2 1 3 0 448 1,022 13 0 13 0			Rec	Recordable Ca	Cases		Extent and	Extent and Outcome of Injury and	of Injury s	and Illness			Incidence Rates	ates
Average Hours Number Worked of in Character Interest Injuries Illnesses Total 7,614 15,433 66 14 80 7,614 15,433 66 14 80 132 258 4 0 4 378 754 9 2 11 448 897 5 1 6 1,907 3,966 14 7 21 370 769 1 0 1 181 320 1 2 3 25 52 0 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 481 1,022 13		ا		H				Lost Wo	Lost Workday Cases	S				
Average Hours Number Worked in Employees Thousands Injuries Illnesses Total 7,614 15,433 66 14 80 1,907 3,966 14 7 21 370 769 1 0 1 11,028 2,138 4 1 5 1,194 2,334 2 1 3 14 7 7 21 1,194 2,334 2 1 3 14 7 7 21 1,194 2,334 2 1 3 1,192 1,192 13													Fatal	
Average Hours Number Worked of in Employees Thousands Injuries Illnesses Total 7,614 15,433 66 14 80 1,907 3,966 14 7 21 370 769 1 0 1 181 320 1 2 3 25 52 0 0 0 1,028 2,138 4 1 1,194 2,334 2 1 3 481 1,022 13								Cases					Plus	Lost
Average of Inumber of		<u></u>	-					Involving	Number		Non-Fatal		Days	Workdays
Number of in of in of in of in of in of in livings Illnesses Total 7,614 15,433 66 14 80 7,614 15,433 66 14 80 132 258 4 0 4 378 754 9 2 11 448 897 5 1 6 1,907 3,966 14 7 21 370 769 1 0 1 1,028 2,138 4 1 5 1,194 2,334 2 1 5 1,194 2,334 2 1 3 481 1,022 13 0 13	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
of in Employees in Thousands lininies Illnesses Total 7,614 15,433 66 74 80 132 258 4 0 4 378 754 9 2 11 448 897 5 1 6 1,907 3,966 14 7 21 370 769 1 0 1 1,028 2,138 4 1 5 1,194 2,334 2 1 5 481 1,022 13 0 13	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Employees Thousands Injuries Illnesses Total 7,614 15,433 66 14 80 7,614 15,433 66 14 80 1 132 258 4 0 4 2 378 754 9 2 11 4 48 897 5 1 6 1 1,907 3,966 14 7 21 2 370 769 1 0 1 2 181 320 1 2 3 2 5 52 0 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 4 481 1,022 13 0 13		ع.	-				Workday	From	From	Restricted	Lost	Total	Work	From
7,614 15,433 66 14 80 1,132 258 4 0 4 1,1907 3,966 14 7 21 2 370 769 1 0 1 2 370 769 1 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 1,102 13 0 13	Employees	Thousands	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work
7,614 15,433 66 14 80 0 20 1 132 258 4 0 4 0 2 1 148 897 5 1 6 0 1 1 1,907 3,966 14 7 21 0 8 2 370 769 1 0 1 0 0 3 181 320 1 2 3 0 0 1,028 2,138 4 1 5 0 0 1,194 2,334 2 1 3 0 1 481 1,022 13 0 13 0 1						Reseal	rch & [Jevelo	oment					
132 258 4 0 4 378 754 9 2 11 448 897 5 1 6 1,907 3,966 14 7 21 370 769 1 0 1 181 320 1 2 3 25 52 0 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 481 1,022 13 0 13 481 1,022 13 0 13		15,433	99	14	80	0	20	16	94	486	09	1.04	0.21	1.22
378 754 9 2 11 448 897 5 1 6 1,907 3,966 14 7 21 370 769 1 0 1 181 320 1 2 3 25 52 0 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 481 1,022 13 0 13	1 132	258	4	0	4	0	2	-	S.	91	64	3.10	0.78	3.88
448 897 5 1 6 1,907 3,966 14 7 21 370 769 1 0 1 181 320 1 2 3 25 52 0 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 481 1,022 13 0 13		754	တ	8	Ξ	0	-	-	7	0	10	2.92	0,27	1.86
1,907 3,966 14 7 21 370 769 1 0 1 181 320 1 2 3 25 52 0 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 481 1,022 13 0 13		897	ς,	-	9	0	•	-	က	0	2	1.34	0.22	0.67
370 769 1 0 1 181 320 1 2 3 25 52 0 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 481 1,022 13 0 13		3,966	14	7	21	0	80	80	18	366	13	1.06	0.40	0.91
181 320 1 2 3 25 52 0 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 481 1,022 13 0 13		269	-	0	-	0	0	0	0	0	-	0.26	0.00	0.00
25 52 0 0 0 0 1,028 2,138 4 1 5 1,194 2,334 2 1 3 4 13 0 13		320	-	7	ဗ	0	0	0	0	0	ဇ	1.88	0.00	0.00
1,028 2,138 4 1 5 1,194 2,334 2 1 3 481 1,022 13 0 13		52	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00
1,194 2,334 2 1 3 481 1,022 13 0 13		2,138	4	-	2	0	-	-	14	0	4	0.47	0.09	1.3
481 1,022 13 0 13		2,334	8	-	ო	0	-	0	0	_	8	0.26	0.00	0.00
1 170 0000 10		1,022	5	0	13	0	•	-	80	0	12	2.54	0.20	1.57
2,923 13 0 13		2,923	13	0	13	0	ល	က	33	88	8	0.89	0.21	2.67

		[Rec	Recordable (Cases		Extent an	Extent and Outcome of Injury and Illness	of Injury a	and Illness			Incidence Rates	ates
								Lost Wo	Lost Workday Cases					
													Fatal	
								Cases					Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays
Aver	tverage Hours	€					Total	Days	of Days	Number	Cases		Away	Days
Num	Number Worked	p _e					Lost	Away	Away	of Days of	Without		From	Away
o duec	. <u>e</u>						Workday	From	From	Restricted	Lost	Total	Work	From
Emplo	Employees Thousa	Thousands	Injuries	Illnesses	Total	Fatalities	Cases	Work	Work	Activity	Workdays	Cases	Cases	Work

	13.56	0.00	0.00	51.61	0.00	0.00	38.87	2.56	1.52
	0.68	0.14	0:00	2.14	0.00	0.00	1.62	1.71	0.17
	1.58	1.41	0.00	2.72	0.71	0.39	3.24	6.84	0.67
es	21	5	0	က	-	-	7	9	ဗ
	389	17	0	333	Ŋ	0	34	0	0
	421	0	0	361	0	0	48	က	6
	21	-	0	15	0	0	8	Q	-
Services	<i>58</i>	5	0	16	-	-	8	0	-
General	0	0	0	0	0	0	0	0	0
g	49	10	0	19	7	2	4	æ	4
	1	0	0	-	0	0	0	0	0
	48	10	0	48	01	7	4	80	4
	6,210	1,418	108	1,399	561	1,019	247	234	1,188
	3,131	689	25	96/	270	490	137	109	571
	Tota/	13	4	24	35	4	65	74	06

			Re	Recordable Cases	ases		Extent and	Extent and Outcome of Injury and Illness	of Injury	and Illness			Incidence Rates	ates
								Lost Wo	Lost Workday Cases	S				
													Fatal	
								Cases					Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	ō	2.					Workday	From	From	Restricted	Lost	Total	Work	From
Q	Employees	Employees Thousands Injuries	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

	2.00	0.00	0.00	9.57	22.10	0.0	00.0	2.72	0.22	0.00	0.00	0.00	0.00	1.67	0.23
	0.20	0.00	0:00	0.23	0.55	0.00	0.00	0.24	0.07	0.00	0.00	0.00	0.00	0.12	0.23
	0.61	0.68	0.30	0.62	1.18	0.80	0.11	0.45	0.29	0.89	0.62	0.10	0.00	0.40	0.23
	130	က	4	10	2	4	ო	4	က	_	-	-	0	9	0
	1,114	0	3	83	356	0	0	281	0	19	0	0	0	0	0
er	1,808	0	0	248	99/	0	0	79	ო	0	0	0	0	58	-
& Other	23	0	0	9	19	0	0	7	-	0	0	0	0	4	-
Engineering, & (91	0	ო	9	50	0	0	თ	-	7	0	0	0	4	-
Engine	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Admin.,	221	ო	7	16	41	4	ო	13	4	က	-	-	0	4	-
•	64	-	-	-	52	-	0	4	0	0	0	0	0	7	0
	157	8	9	15	16	က	က	တ	4		-	_	0	7	-
	72,338	883	4,680	5,185	6,932	995	5,560	5,812	2,749	9/9	324	1,955	34	6,954	873
	35,849	556	2,344	2,111	3,833	493	2,673	2,757	1,563	310	168	940	19	3,564	420
	Tota/	F	1 3	4	24	27	35	4	65	73	74	06	93	66	106

			Ræ	Recordable C	Cases		Extent and	Extent and Outcome of Injury and Illness	of Injury a	and Illness			Incidence Rates	ates
								Lost Wo	ost Workday Cases					
													Fatal	
								Cases				-	Plus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	ō	.⊑				•	Workday	From	From	Restricted	Lost	Total	Work	From
۵	Employees	Employees Thousands Injuries	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work

(Cont.)
Other
Engineering, &
Admin., E

1.15	3.77	0.00	8.61	0.00	0.00	133.33	0.00	1.50	0.00	17.76	0.00	0.00	0.00	0.00
0.33	0.18	00:00	0.08	0.00	0.00	33.33	0.00	0.37	0.00	1.32	0.00	0.00	0.00	0.00
69.0	0.70	0.40	0.36	0.00	0.00	133.33	0.00	3.74	0.00	4.61	0.00	0.72	0.00	0.00
75	Ŋ	ო	13	0	0	0	0	7	0	2	0	_	0	0
S)	100	06	7	0	0	ო	0	54	0	0	0	0	0	0
48	43	0	428	0	0	4	0	4	0	27	0	0	0	0
1	7	0	4	0	0	-	0	-	0	2	0	0	0	0
1	ო	0	3	0	0	4	0	ဗ	0	2	0	0	0	0
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
59	ω	က	48	0	0	4	0	10	0	^	0	-	0	0
-	0	2	8	0	0	4	0	က	0	0	0	-	0	0
58	œ	-	16	0	0	0	0	7	0	7	0	0	0	0
8,373	2,281	1,486	9,941	-	13	9	79	535	246	304	58	278	75	თ
4,095	1,198	640	4,926		တ	8	5	268	118	152	57	134	36	7
109	118	10001	10420	10519	10560	10607	10616	10617	10620	10622	10629	10645	90118	99118

U.S. Occupational Injuries and Illnesses for 1996 Covering Petroleum and Petrochemical Operations of Reporting Companies Offshore Functions

		0	(abd)	abd)	abd)	, 'O'	apq	, D		(abd)	, p		abd)	apq)	
	15.27	40.83	7.86	2.01	0.00	0.29	1.12	3.32	34.28	22.55 (0.00	0.00	141.67	43.24 (0.00 b
	0.78	2.29	0.93	1.01	0.00	0.14	0.37	0.27	0.94	1.49	0.00	0.00	8.33	2.70	00:0
	2.03	3.67	1.68	1.01	2.54	2.31	3.37	0.86	0.94	2.98	7.30	0.00	8.33	5.41	11.11
	71	ო	16	0	-	ო	2	10	0	=	ო	0	0	-	0
	950	^	0	0	17	359	=======================================	-	-	42	37	0	0	0	ಜ
	1,221	89	178	7	0	2	က	85	109	212	0	0	17	16	0
	29	5	21	-	0	-	-	Ю	က	4	0	0	-	-	0
tions	91	2	23	-	ო	13	7	9	ო	17	2	0	-	-	-
All Functions	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
4	162	8	38	-	4	16	O	16	က	28	Ŋ	0	-	8	
	89	0	-	0	-	0	0	က	0	0	0	0	0	0	0
	154	80	37	-	ო	14	ග	5	က	28	Ŋ	0	-	7	-
	15,987	436	4,530	199	315	1,386	534	3,739	929	1,880	137	26	24	74	18
	7,643	184	2,286	89	151	929	151	1,798	306	1,010	83	58	Ξ	45	4
	Tota/	14	24	27	32	4	65	66	106	118	10001	10570	20032	20038	20111

			F.	Recordable C	Cases		Extent and	Extent and Outcome of Injury and Illness	of Injury	and Illness			Incidence Rates	ates
								Lost Wo	ost Workday Cases	S				
				- 1.5									Fatal	
								Cases					Pfus	Lost
								Involving	Number		Non-Fatal		Days	Workdays-
	Average	Average Hours					Total	Days	of Days	Number	Cases		Away	Days
	Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company	jo	<u>.</u> ⊆					Workday	From	From	Restricted	Lost	Total	Work	From
Ω	Employees	Employees Thousands Injuries	Injuries	Illnesses	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work
						Offsho	re Exp	Offshore Exploration	č					
Total	16	32	0	0	0	0	0	0	0	0	0	0.00	0.00	0.00

	23.92	40.83	0.31	3.89	34.28	0.00	0.00	0.00
	0.71	2.29	0.15	0.31	0.94	00.0	0.00	0.00
	2.23	3.67	2.47	1.00	0.94	9.35	0.00	11.11
	31	က	က	10	0	ო	0	0
	438	7	329	-	-	37	0	33
	741	88	61	62	109	0	0	0
ıction	22	2	-	2	က	0	0	0
Produ	38	ß	13	9	က	2	0	-
Offshore Production	0	0	0	0	0	0	0	0
Ō	69	æ	16	16	က	S	0	
	9	0	2	ဗ	0	0	0	0
	63	∞	4	13	ო	rv	0	
	6,195	436	1,295	3,190	929	107	26	8
	2,887	184	611	1,534	306	49	78	4
	Total	4	4	66	106	10001	10570	20111

		Re	Recordable C	Cases		Extent an	Extent and Outcome of Injury and Illness	of Injury	and Illness			Incidence Rates	Pates
							Lost Wo	Lost Workday Cases	S				
												Fatal	
							Cases					Plus	Lost
							Involving	Number		Non-Fatal		Days	Workdays-
Average	Hours					Total	Days	of Days	Number	Cases		Away	Days
Number	Worked					Lost	Away	Away	of Days of	Without		From	Away
Company of	. ⊆					Workday	From	From	Restricted	Lost	Total	Work	From
ID Employees	S Thousands	Injuries	Sesseull	Total	Fatalities	Cases*	Work	Work	Activity	Workdays	Cases	Cases	Work
					Offsho	Offshore Drilling	lling						
Total 360	721	G	0	(L)	0	0	0	0	0	E	0.83	0.00	0.00
	91	0	0	0	0	0	0	0	0	0	0.00	0.00	0
99 264		0	0	0	0	0	0	0	0	· c	000		
10001	ဓ	0	0	0	0	C	C	· C	· c				

ates			Lost	Workdays-	Days	Away	From	Work		10.62	7.86	2.01	0.00	1.12	22.55	141.67	
Incidence Rates		Fatal	Plus	Days	Away	From	Work	Cases		0.89	0.93	1.01	0.00	0.37	1.49	8.33	1
							Total	Cases		1.99	1.68	1.01	2.54	3.37	2.98	8.33	
				Non-Fatal	Cases	Without	Lost	Workdays		37	9	0	_	N	Ξ	0	
nd Illness					Number	of Days of	Restricted	Activity		182	0	0	17	111	42	0	
Extent and Outcome of Injury and Illness	Lost Workday Cases			Number	of Days	Away	From	Work	arated	480	178	7	0	က	212	17	
Outcome	Lost Wor		Cases	Involving	Days	Away	From	Work	Comb. of Above Not Separated	40	2	-	0	_	4	-	
Extent and					Total	Lost	Workday	Cases*	ve - N	23	52	-	က	7	17	-	
								Fatalities	of Abc	0	0	0	0	0	0	0	
Cases		1411						Total	Comb.	90	38	_	4	6	58		
Recordable Ca								sesseull		0	-	0	+	0	0	0	
Reco								Injuries		88	37	-	ဇ	6	78	-	
	I <u> </u>				Hours	Worked	<u>.c</u>	Thousands		9,039	4,530	199	315	534	1,880	24	
			•		Average	Number	jo	Employees		4,380	2,286	89	151	151	1,010	Ŧ	
							Company	· <u>0</u>		Total	24	27	32	65	118	20032	

1996 —Summary of On-Duty Fatal Injuries in the Petroleum Industry — 1996 As Reported to the American Petroleum Institute

1996

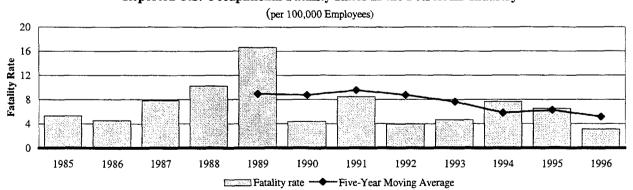
Summary of Fatal Injuries in the Petroleum Industry as Reported to the American Petroleum Institute for 1996

One hundred and forty oil and gas companies and their subsidiaries, employing 228,209 workers reported 7 onduty fatal accidents during 1996. This is equivalent to one fatality for every 32,601 workers employed. Comparatively, in 1995, the industry experienced one fatality for every 15,364 employees. The graph below shows the number of fatalities reported in this publication for the last 12 years.

50 Number of Fatalities 40 30 20 0 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996

Reported U.S. Occupational Fatalities in the Petroleum Industry

The change in the number of employees represented by this survey every year accounts for some of the variation in the data. Therefore, the following graph shows the fatality rate¹ for the past 12 years. However, as with any data, the factors that cause variations over time can also be cyclical, seasonal, trend, or irregular (random). Any combination of these factors can further cloud any visual interpretation of the data. Because this is annual data, cyclical and seasonal variations may be discounted. By calculating a moving average² for each year, we can smooth-out the effect of irregular variations and can thus observe a trend. The trend in the rate of fatalities in the petroleum industry is shown below using a five-year moving average.



Reported U.S. Occupational Fatality Rates in the Petroleum Industry

Fatality rate = (number of fatalities*100,000)/number of employees. This is the number of fatalities per 100,000 employees

² A five-year moving average for a given year is the average of that year and the 4 preceding years. For example, the 5-year moving average for 1990, using rounded numbers, shown on the graph equals (4+17+10+8+5)/5=8.8

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1996 —Summary of On-Duty Fatal Injuries in the Petroleum Industry — 1996 As Reported to the American Petroleum Institute

FATALITIES

Five of the 6 companies experiencing at least one fatality submitted detailed information on the circumstances surrounding 5 of 7 reported on-duty fatal accidents.

The American Petroleum Institute(API) has published information provided by member companies on fatal accidents in the petroleum industry since 1933. Each incident is described in a brief narrative and is intended to provide information that could be used to avoid the occurrence of similar accidents in the future.

MARKETING RETAIL

01/04/96 — Vehicle Accident

An employee was fatally injured when his vehicle was struck by another vehicle traveling in the same direction. The employee was traveling on an interstate highway to a convenience store to perform maintenance when his vehicle was struck by another vehicle on the highway. The employee was thrown from the vehicle when it flipped over sustaining fatal injuries. The accident was caused by poor judgment of other driver while changing lanes.

PRODUCTION

8/19/96 — Struck by Equipment

An employee was working on a pumping unit and was struck by a counter-weight arm. The employee was installing a ground wire on a pumping unit. The employee was struck on the back of the head by the counterweight arm. This situation can be prevented by stopping the pumping unit with the counter-weight arms in the lowest position, by setting the pumping unit brake, by performing lockout/tagout/blockout of the pumping unit before performing any maintenance or repairs.

REFINING

07/12/96 - Fire and Explosion

The employee was in the area at the time of the explosion and received burns over 95% of his body. Shortly after charging, the reactor experienced a rapid internal pressure buildup, which resulted in a separation of the reactor head from the reactor shell. The flammable contents of the reactor were released and subsequently ignited, resulting in a fire. Incomplete understanding of consequences of deviation and MOC procedures as they related to process deviations.

02/08/96 — Pressure Build-up

Maintenance was having difficulty removing an exchange shell cover from the floating head. They asked operations personnel to heat the cover with steam to expand the metal cover to facilitate it's removal. Steam was slowly

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1996 —Summary of On-Duty Fatal Injuries in the Petroleum Industry — 1996 As Reported to the American Petroleum Institute

opened up via a hose to the bottom drain valve on the cover. The steam entering the shell cover built up in the vapor space between the cover and the floating head. Pressure build-up was sufficient to overcome two bolts that held the cover in place onto the exchanger. The shell cover's rapid release occurred while an operator employee was in front of it, striking her and killing her instantly.

Prevention:

- (1) Report tightfitting equipment for inspection/engineering
- (2) Ensure that utilities are being properly vented and not building pressure
- (3) Train employees on the hazards of not following #1 & #2.

PRODUCTION

9/15/96 — Electrical Shock

Rather than bring a truck to town and take it back the next day, the truck was parked near a rancher's home for security. The ginpoles had been left down. The first two employees to arrive started the truck and began to raise the ginpoles. One employee was in the truck and the other was holding tension on the cable as the poles were raised. The gin poles came into contact with primary electrical lines while the employee was holding the cable. Being used to working on relatively open well locations, neither employee took a minute to look around to be sure there was clearance for the poles. All employees should take a couple of minutes to be sure everyone knows the tasks, have proper tools and is safe.

Appendix A

Participating Companies Alpha Listing

(list includes ID only for companies that agreed to have their numbers published individually) (ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

14	ARCO
233	Aleyska Pipeline Service Company
	All American Pipeline Co.
	American Refining Group
106	Amoco Corporation
20038	Anadarko Petroleum Corporation
20037	Anschutz Ranch East Pipeline Inc.
13	Ashland Inc.
	Ashland Pipe Line L.L.C.
10645	BHP (Hawaii) Inc.
	BHP Petroleum (Americas) Inc.
10001	BP America
90001	
	BWOC Inc.
20051	Badger Pipeline Co.
	Basic Earth Science Systems Inc.
	Basis Petroleum Inc.
10617	<u> •</u>
20035	• • •
17	Buckeye Pipe Line Company
	Burlington Resources (formerly Meridian Oil Inc.)
	Butte Pipe Line
10421	CITGO Petroleum Corporation
12421	CITGO Pipeline Company
13421	CITGO Products Pipeline Company
	Cabot Oil & Gas Corporation
10015	Calnev Pipe Line Company
	Cenex Pipe Line Co.
10014	Central Florida Pipeline Corporation
10203	Charles B. Wilson
30103	Chermac Energy Corporation
24	"
90024	Chevron Pipe Line Company
99118	Chicap Pipeline
	Ciniza Pipe Line Company
40.40=	Clearfield Energy Inc.
10403	Collins Pipeline Co.

Appendix A

Participating Companies Alpha Listing

(list includes ID only for companies that agreed to have their numbers published individually)
(ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

- 29 Colonial Pipeline Company
- 32 Conoco Inc.
- 33 Cook Inlet Pipe Line Company
 Devon Energy Corporation
 Dixie Pipeline Company
 Dome EnergiCorp
- Dome Pipeline Corp.Eberly and Meade Inc.Elf Exploration Inc.
- 10030 Energy Pro Inc.
- 10620 Enterprise Products Company Ergon Inc.
- 20111 Ewing Bank Pipeline Co. (BP)
- 10509 Excalibur Exploration Inc.
 - 38 Explorer Pipeline Company
 - 41 Exxon Company U.S.A.
- 90041 Exxon Pipeline Company
 - 43 Farmland Industries Inc.
 - 11 Fina Oil and Chemical Company
- 10540 Giant Refining Co. Bloomfield Refinery
 Green Energy Inc.
 H & C Oil Operating Inc.
 Hanley Petroleum Inc.
 Heartland Exploration Inc.
- 20032 Howell Petroleum Corporation
 - 301 Howell Pipeline Companies
 Hunt Oil Company
 Hunt Refining Co./Trading & Transportation
 Justiss Oil Company Inc.
- 10616 Kaneb Pipe Line Operating Partnership L.P. Kentucky Hydrocarbon
- 20006 Keoughans Producing Company
 - 58 Kerr-McGee Corporation
- 10570 LOOP LLC
 - 60 Lakehead Pipe Line Company Inc. Lone Mountain Production Co.
- 10611 Long Drilling Company

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1996 Occupational Injuries , Illnesses, and Fatalities in the Petroleum Industry

Appendix A Participating Companies Alpha Listing

(list includes ID only for companies that agreed to have their numbers published individually) (ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

10523	Long Oil Company
10626	Lyondell-Citgo Refining Company Ltd.
	Mack Energy Corp.
65	Marathon Oil Company
	Marathon Pipe Line Company
10608	McFarland Energy Inc.
	McGowan Working Partners
	Mesa Inc.
10218	Michael D. Lillis
10622	Mid-America Pipeline Co.
10420	Mobil Oil Corporation
	Mobil Pipeline
•	Murphy Oil Corporation
10575	National Cooperative Refinery Association
11564	Navajo - Pipeline Division
27	Occidental Oil & Gas Corporation
10544	Olympic Pipe Line Co.
	Oryx Energy Company
10534	Ouachita Exploration Inc.
	Oxy Chem Pipe Line
	Par-Co Drilling Inc.
90	Phillips Petroleum Company
	Phillips Pipe Line
	Placid Refining Company
91	Plantation Pipeline Company
	Pogo Producing Company
93	Portland Pipe Line Corporation
73	Quaker State Corporation
74	Questar Pipeline Company
20050	Razorback Pipeline Company
	Reserve Petroleum Company
140	Santa Fe Energy Resources Inc.
239	Santa Fe Pacific Pipelines
	Seadrift Pipeline Corporation
10560	Shakespeare Oil Company Inc.
99	
90099	Shell Pipe Line Corporation

Appendix A Participating Companies Alpha Listing

(list includes ID only for companies that agreed to have their numbers published individually) (ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

	Shepler & Thomas Inc.
	Southland Oil Co Lumberton Refinery
	Southland Oil Co Sandersville Refinery
	Southland Oil Co Vicksburg Terminal
10607	Stokes Production
258	Sunniland Pipe Line Co. Inc.
	TOTAL Minatome Corp.
261	Tepsco
109	Texaco Inc.
	Texaco Trading and Transportation Inc.
	Tosco Refining Company - Avon Refinery
	Trans Mountain Pipeline Corporation Ltd.
30107	TransAmerican Refining Corp.
30101	TransMontaigne Transportation Services Inc.
	Union Pacific Resources
10629	Union Texas Petrochemicals Corp.
20029	United Refining Co.
118	Unocal Corporation
90118	Unocal Pipeline
10519	Venada National
10412	Vis-Op Oil
	Weal Drilling Company Inc.
	Westico Energy Co.
	Wheless Industries Inc.
126	Williams Pipe Line Company
	Withrow Engineering Inc.
	Woolsey Petroleum Corporation
30111	Wynnewood Refining Co.
	Wyoming PipeLine Company

Appendix B

Participating Companies Numeric Listing

(list includes ID only for companies that agreed to have their numbers published individually)
(ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

- 11 Fina Oil and Chemical Company
- 13 Ashland Inc.
- 14 ARCO
- 17 Buckeye Pipe Line Company
- 24 Chevron Corporation
- 27 Occidental Oil & Gas Corporation
- 29 Colonial Pipeline Company
- 32 Conoco Inc.
- 33 Cook Inlet Pipe Line Company
- 38 Explorer Pipeline Company
- 41 Exxon Company U.S.A.
- 43 Farmland Industries Inc.
- 58 Kerr-McGee Corporation
- 60 Lakehead Pipe Line Company Inc.
- 65 Marathon Oil Company
- 73 Quaker State Corporation
- 74 Questar Pipeline Company
- 90 Phillips Petroleum Company
- 91 Plantation Pipeline Company
- 93 Portland Pipe Line Corporation
- 99 Shell Oil Company
- 106 Amoco Corporation
- 109 Texaco Inc.
- 118 Unocal Corporation
- 126 Williams Pipe Line Company
- 140 Santa Fe Energy Resources Inc.
- 233 Aleyska Pipeline Service Company
- 239 Santa Fe Pacific Pipelines
- 258 Sunniland Pipe Line Co. Inc.
- 260 Dome Pipeline Corp.
- 261 Tepsco
- 301 Howell Pipeline Companies
- 10001 BP America
- 10014 Central Florida Pipeline Corporation
- 10015 Calnev Pipe Line Company
- 10030 Energy Pro Inc.
- 10203 Charles B. Wilson

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Participating Companies Numeric Listing

(list includes ID only for companies that agreed to have their numbers published individually) (ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

10218	Michael D. Lillis
10403	Collins Pipeline Co.
10412	Vis-Op Oil
10420	Mobil Oil Corporation
10421	CITGO Petroleum Corporation
10509	Excalibur Exploration Inc.
10519	Venada National
10523	Long Oil Company
10534	Ouachita Exploration Inc.
10540	Giant Refining Co Bloomfield Refinery
10544	Olympic Pipe Line Co.
10560	Shakespeare Oil Company Inc.
10570	LOOP LLC
10575	National Cooperative Refinery Association
10607	Stokes Production
10608	McFarland Energy Inc.
10611	Long Drilling Company
10616	Kaneb Pipe Line Operating Partnership L.P.
10617	Bechtel Petroleum Operations Inc.
10620	Enterprise Products Company
10622	Mid-America Pipeline Co.
10626	Lyondell-Citgo Refining Company Ltd.
10629	Union Texas Petrochemicals Corp.
10645	BHP (Hawaii) Inc.
11564	Navajo - Pipeline Division
12421	CITGO Pipeline Company
13421	CITGO Products Pipeline Company
20006	Keoughans Producing Company
20029	United Refining Co.
20032	Howell Petroleum Corporation
20035	Belle Fourche Pipeline Company
20037	Anschutz Ranch East Pipeline Inc.
20038	Anadarko Petroleum Corporation
20050	Razorback Pipeline Company
20051	Badger Pipeline Co.
20111	Ewing Bank Pipeline Co. (BP)
20101	TransMontaigne Transportation Services Inc

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Participating Companies Numeric Listing

(list includes ID only for companies that agreed to have their numbers published individually)
(ID greater than 90000 represents a subsidiary of a larger company. Subsidiary numbers are not included in totals)

30103	Chermac Energy Corporation
30107	TransAmerican Refining Corp.
30111	Wynnewood Refining Co.
90001	BP Oil Pipeline Co.
90024	Chevron Pipe Line Company
90041	Exxon Pipeline Company
90099	Shell Pipe Line Corporation
90118	Unocal Pipeline
99118	Chicap Pipeline

Appendix C

Shift Information for Offshore Employees

(list includes ID only for companies that agreed to have their numbers published individually)

		Duty Cycle	
Company ID	Hours Worked or Exposure Hours per Day While on Duty	Days On	Day Off
24	12	7	7
27	16	7	7
32	12	7	7
41	12	7	7
65	12	7	7
106	12	7	7
10001	12	7	7
10570	12	7	7
20032	16	7	7
20111	12	7	7
20038	12	7	7

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