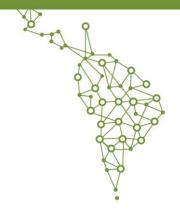
Safety Benchmarking

in the oil and gas industry in Latin America and the Caribbean

2016 Data



ARPEL PUBLICATION N° BE03-2017







ARPEL REPORT

Safety benchmarking in the oil and gas industry in Latin America and the Caribbean

2016 Statistics for ARPEL Member Companies

Safety Benchmarking in the oil and gas industry in Latin America and the Caribbean 2016 statistics for ARPEL member companies
Report BE 03-2017
October 2017

Authors

This report was prepared upon request of ARPEL and its Environment, Health and Safety Committee by Pablo Ferragut, Project Manager at ARPEL.

Review

This document was reviewed by the ARPEL Safety Benchmarking Project Team the EHS Committee.

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1. EXECUTIVE SUMMARY

This report is a compilation of safety statistics of ARPEL Member Companies. It analyzes four reactive indicators (total incidents, gravity, frequency of incidents with lost workdays and fatalities) and two proactive indicators (safety training intensity and task planned observations), broken down by business line (E&P, refining, pipelines, distribution and others) and by category (company and contractors), and also including historical data since 2001.

Scope:

For 2015, the 22 companies detailed below shared their data, with a total coverage of 676 thousands employees and 1,499 million hours worked. The reported hours fell 22% compared to 2015, which is explained by the contraction of industry activities.

ANCAP – CHEVRON – COGA – ECOPETROL – ENAP – EP PETROECUADOR – EQUIÓN – OCENSA – OLDELVAL – PCJ – PEMEX – PETROBRAS – PETROPERU – PETROTRIN – PLUSPETROL – RECOPE – REFINOR – REPSOL – STAATSOLIE – TECPETROL – YPF – YPFB Transporte

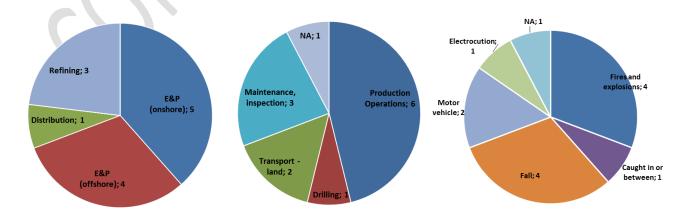
Reactive indicators:

The total incidents' rate continues to decline, registering in 2016 the lowest level for the third year in a row, since ARPEL began compiling statistics. The average was 1.24 recordable incidents per million hours worked. Gravity rate and incidents' with lost work days rate decreased compared to the values registered in 2015, falling from 61.2 to 36.3 and from 0.80 to 0.73 respectively. In 2016, 13 fatalities were registered, which represents a sharp decline compared to 2015 (47 fatalities). This represented a rate of 1 fatality per 115 million hours worked, and it is also de lowest rate registered since ARPEL compiles data.

Indicator	2014	2015	2016	var 16/15
Total incidents rate	1.74	1.49	1.24	-17%
Gravity rate	89.36	61.16	36.29	-41%
Incidents w/LWD rate	0.84	0.80	0.73	<u> </u>
Fatalities rate	0.015	0.024	0.009	-64%

Fatalities:

9 out of the 13 fatalities were registered in E&P, 3 in Refining and 1 in Distribution. There were no fatalities registered in pipelines. Falls and fires and explosions were the main causes registered with 4 cases each, and Production Operations the activity that registered the higher number of cases with 6 fatalities.



2. INDICATORS (methodological note)

This report collects four reactive indicators and two proactive indicators, which are detailed below:

2.1. Reactive

```
    Total incidents' rate = Total recordable cases (injuries+illnesses+fatalities)
        Hours worked (in millions)
    Incidents gravity rate = Number of days away from work
        Hours worked (in millions)
    Incidents' frequency rate with lost workdays = cases with lost workdays
        Hours worked (in millions)
    Fatalities' rate = Number of fatalities
        Hours worked (in millions)
```

2.2. Proactive

```
5. TPO Indicator = Number of Task Planned Observations (TPO)recorded

Average number of workers

6. Safety Training Intensity = Total number of safety trining hours

Hours worked (in millions) * 100
```

For further information on the indicators or definitions, please refer to the User's Manual (7th edition 2012) or the glossary provided at the end of this Report.

Not all companies report data for the calculation of all the rates, either because they do not have the information in the required breakdown, or simply because the requested information does not apply to the company in question. The indicators are calculated with the data reported for each particular indicator, so the basis of calculation vary depending on the number of companies that have reported their data correctly for each particular indicator.

Overall data of the companies is shown, broken down by category (company/contractors), for all the controlled operations of the companies in Latin America and the Caribbean. Proactive indicators are calculated only for company employees.

In all cases, an analysis by business line and comparisons between companies is done.

3. SCOPE OF THE INFORMATION

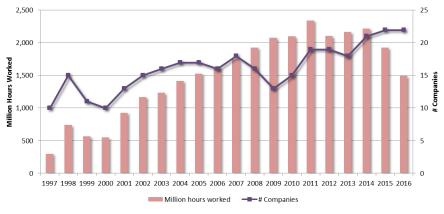
As it is shown in the following table, 22 member companies shared their 2016 safety data for this report.

	COMPANIES													
ANCAP	CHEVRON	COGA	ECOPETROL	ENAP	EP PETROECUADOR	EQUIÓN	OCENSA							
OLDELVAL	PCJ	PEMEX	PETROBRAS	PETROPERÚ	PETROTRIN	PLUSPETROL	RECOPE							
REFINOR	REPSOL	STAATSOLIE	TECPETROL	YPF	YPFB Transporte									

The following table shows the total number of employees and man-hours reported this year for this report. A total of 667 thousands employees and 1,499 million hours were considered in this report, achieving a high representativeness of the oil and gas industry in Latin America and the Caribbean 123.

		Com	pany	Contra	ictors	Total		
Function	# Companies	# Workers	Hours Worked	# Workers	Hours Worked	# Workers	Hours Worked	
runction	# Companies	# WOIKEIS	(thousands)	# WOIKEIS	(miles)	# WOIKEIS	(thousands)	
E&P	12	80,375	190,519	193,020	458,588	273,395	649,106	
Refining	Refining 14		133,841	47,143	97,884	104,682	231,725	
Pipelines	12	21,861	46,494	41,801	79,973	63,662	126,467	
Transport-maritime	3	10,656	9,750	638	1,424	11,294	11,174	
Distribution	7	30,386	63,247	13,216	25,867	43,602	89,113	
Others	12	80,845	180,161	98,494	210,861	179,340	391,022	
Total	22	281,662	624,012	394,312	874,596	675,974	1,498,608	





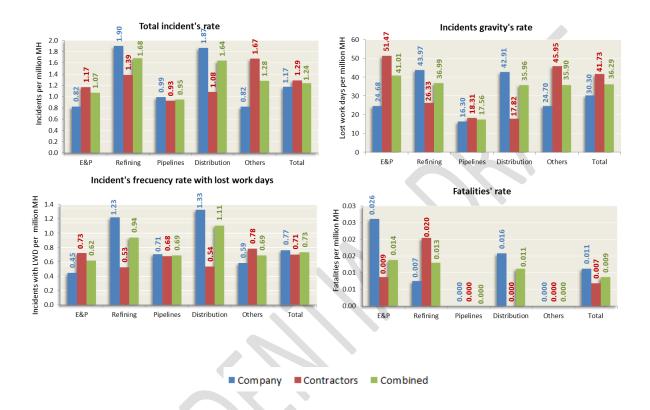
¹ Data on maritime transportation are considered only in the total as there are not enough companies for an adequate benchmarking of this business line. Data on the business line "others" is considered in the global data but a particular analysis is not made due to the heterogeneity of the activities included in that line. Data on pipelines gathers Transport-pipelines for liquids, transport-pipelines for gases, transport pipelines not separated

² The hours worked reported fell 22% between 2015 and 2016, falling from 1.9 to 1.5 billion. This significant fall is explained by the contraction of the industry activities, as the reporting companies are almost the same for 2015 and 2106.

4. RESULTS

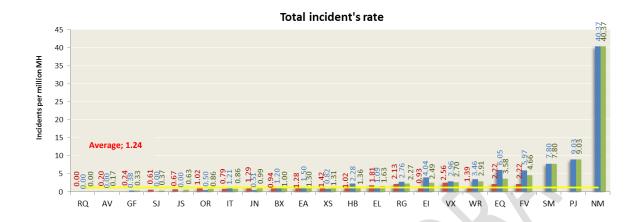
4.1. Overall Results

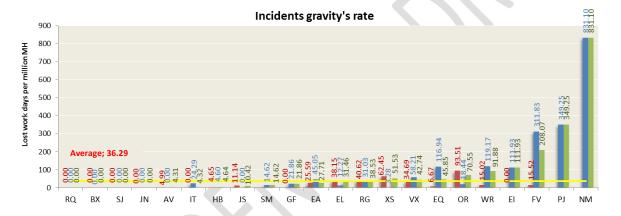
Below are shown the 2016 overall results for the four reactive indicators by business line and then by company.

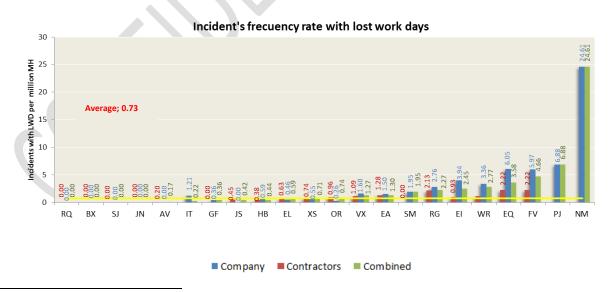


Refining was the business line with more incidents per million hours worked (2.12). However Distribution was the business line with the highest incident's frequency rate with lost workdays (1.11). E&P was the business line with most fatalities per million hours worked (0.014), but Refining (0.013) and Distribution (0.011) showed similar values. E&P showed also the highest incident's gravity rate –lost workdays per million hours worked- (40.54)

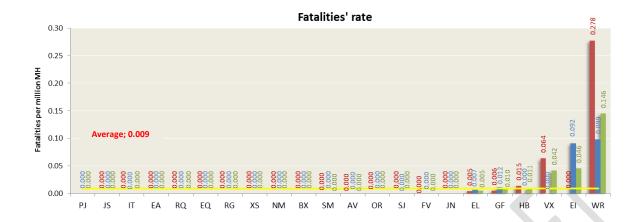
Following are shown the reactive indicators broken down by business line, sorted by ascending order according to the combined average of each company (company + contractors)⁴.





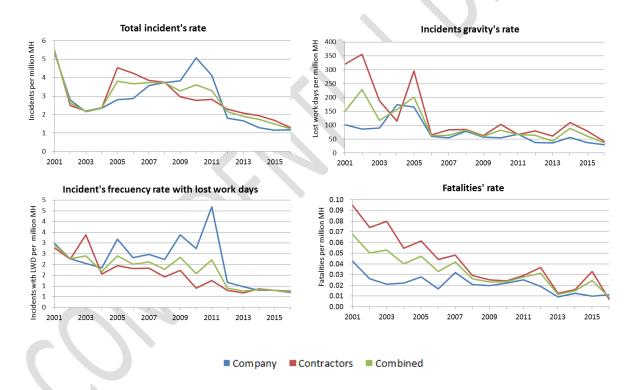


⁴ Some companies do not have the red bar in the chart because the reactive indicators for contractors were not submitted. In those cases, combined and company indicators are equal. Since the total number of incidents is calculated as the sum of injuries, diseases and fatalities; and some companies do not report the number of registered occupational diseases, the comparability of the total incident rate is partially affected.



The following four graphs show the evolution of reactive indicators since 2001.

Although there is a clear downward trend in all four indicators, its decreasing pace has slowed or stagnated in the last few years.



4.1.1. Proactive indicators

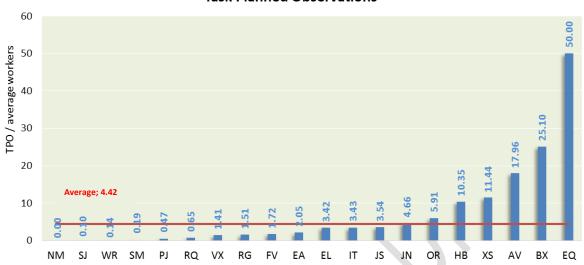
Finally, the proactive indicators are shown by business line and their overall evolution since 2005 (4.1.1) and a comparison between companies for 2016 (4.1.2).

Both indicators recorded an increasing trend, which is desirable since it shows a growth in preventive measures such as training and task observation actions.

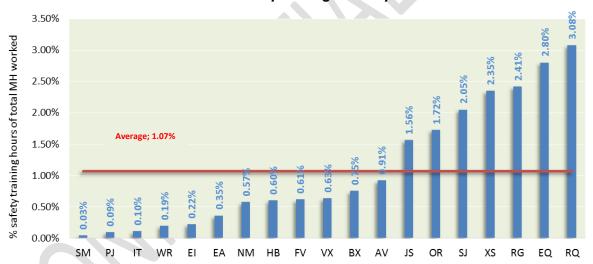


4.1.2. Proactive indicators by company

Task Planned Observations



Safety training intensity

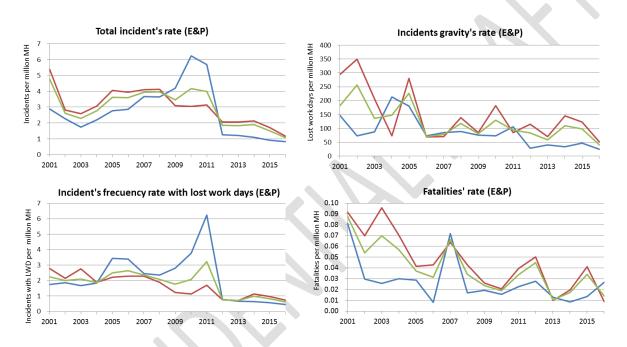


4.2. Exploration and Production

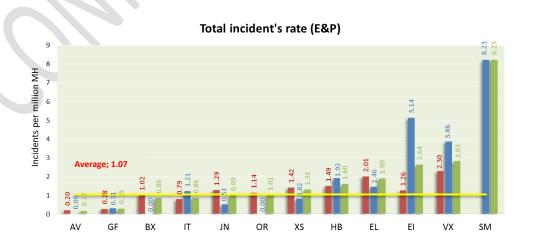
Below is shown the evolution of the reactive indicators (4.2.1), a comparison between companies for the year 2016 (4.2.2), and the historical evolution of proactive indicators for E&P (4.2.3)

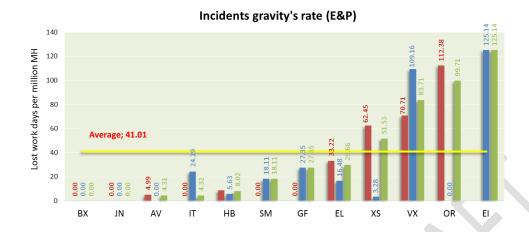
E&P total data includes onshore and offshore operations, in sections 4.2.4 and 4.2.5 there is an analysis of the historical evolution and comparisons between companies of the reactive indicators only for E&P offshore. Section 4.2.6 shows a comparison between ARPEL group of companies and IOGP group of companies for E&P.

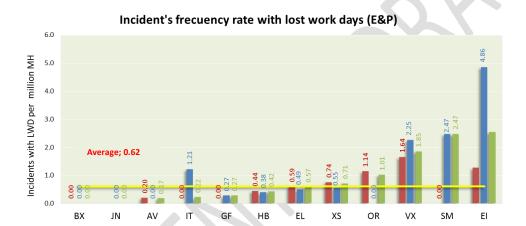
4.2.1. Evolution of reactive indicators (E&P total)

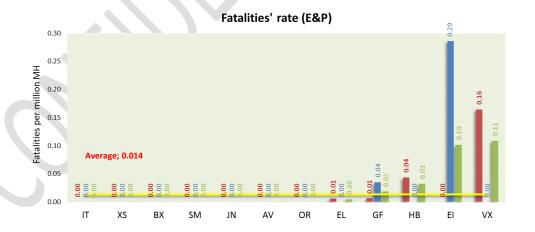


4.2.2. Indicadores reactivos por compañía (E&P total)

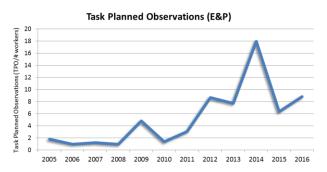






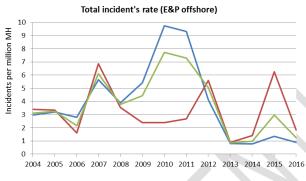


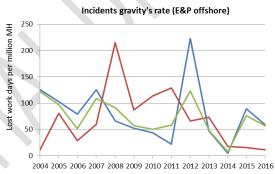
4.2.3. **Proactive Indicators (E&P total)**

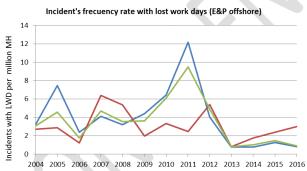


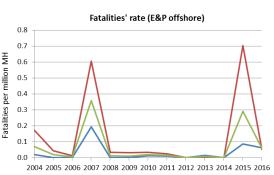


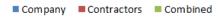
4.2.4. Reactive Indicators E&P (offshore)



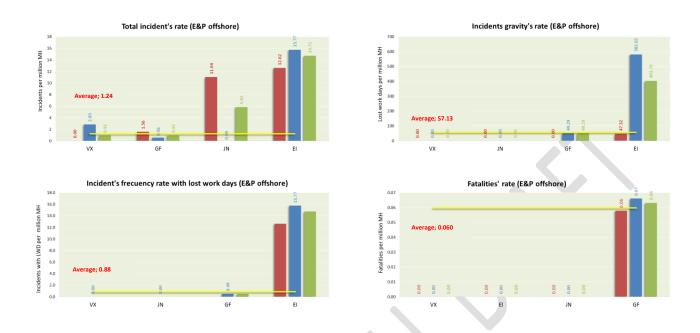








4.2.5. Reactive indicators by company E&P (offshore)



4.2.6. Comparison with international references

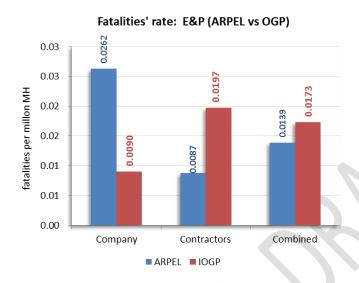
Following is a comparison between the data of fatalities in E&P for ARPEL and IOGP (International Oil and Gas Producers Association) member companies.

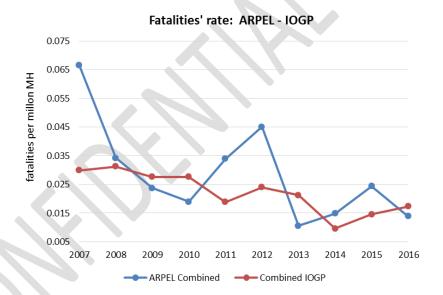
The overall rate of fatalities in E&P for ARPEL companies in 2016 was 0.0139 fatalities per million hours worked, which is lower to the average fatalities per million hours worked registered by IOGP companies for the same period (0.0173).

Breaking down the data in company and contractors, it is observed that ARPEL member companies group shows a higher value in company category (0.0262 ARPEL vs 0.0090 IOGP) and a lower value in contractors category (0.0087 ARPEL vs 0.0197 IOGP).

The three main causes of fatality presented by IOGP were "transport - air" (38%), "struck by" (20%) and "fires and burns" (18%). Only one of these causes is similar to the main fatalities causes of ARPEL member companies group

Below are shown the results for 2016 and the historical evolution of the fatalities rate (combined) for IOGP and ARPEL since 2007.

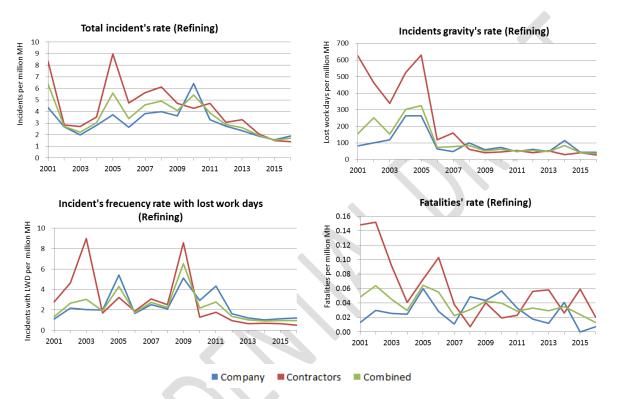




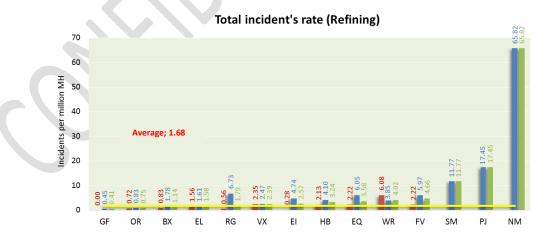
4.3. Refining

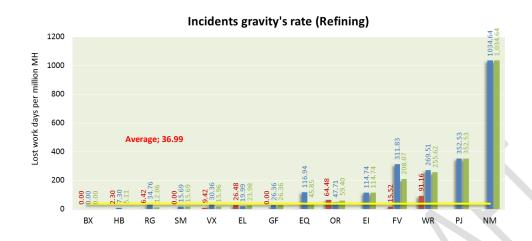
Below is the historical evolution of the reactive indicators (4.3.1), a comparison between companies for the year 2016 (4.3.2) and a historical evolution of proactive indicators (4.3.3) for the business line Refining.

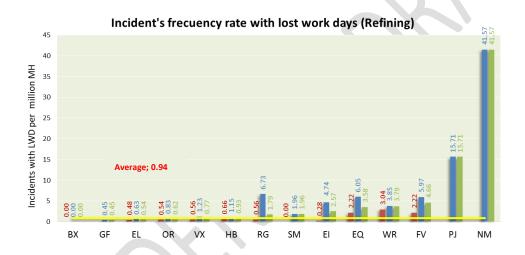
4.3.1. Evolution of reactive indicators

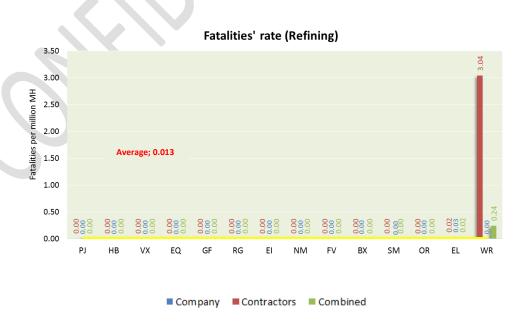


4.3.2. Reactive indicators by company

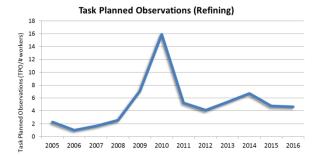








4.3.3. **Proactive indicators**



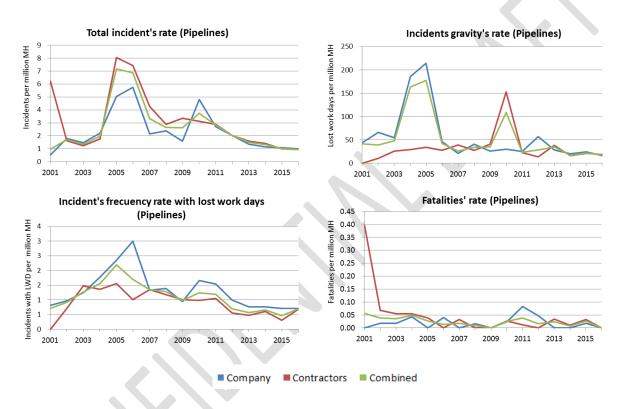


4.4. Pipelines

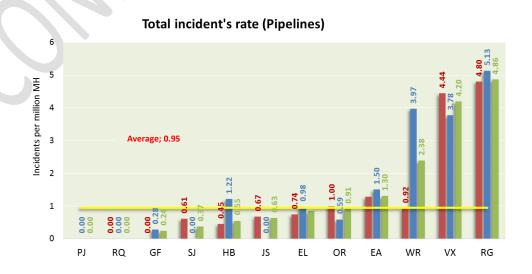
Below is the historical evolution of the reactive indicators (4.4.1), a comparison between companies for the year 2016 (4.4.2) and the historical evolution of proactive indicators (4.4.3) for the business line Pipelines.

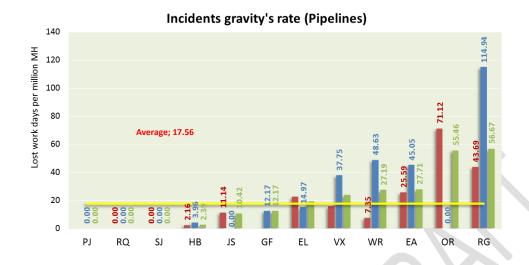
The data includes the information reported in "transport – pipelines for liquids", "transport – pipelines for gases" and "transport – pipelines not separated". Data prior to 2009 corresponds only to "transport - pipelines for liquids".

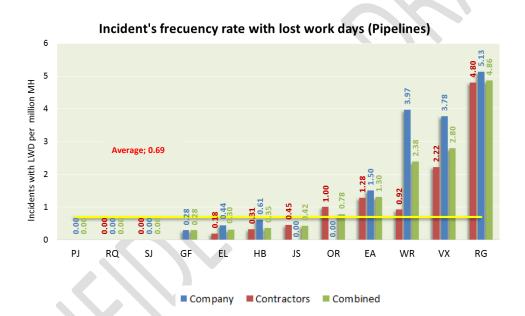
4.4.1. Evolution of reactive indicators



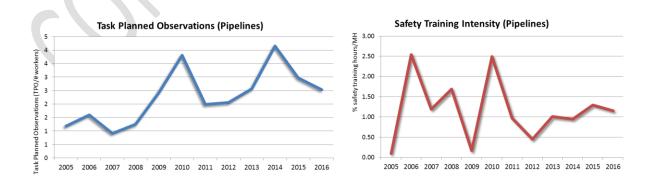
4.4.2. Reactive indicators by company







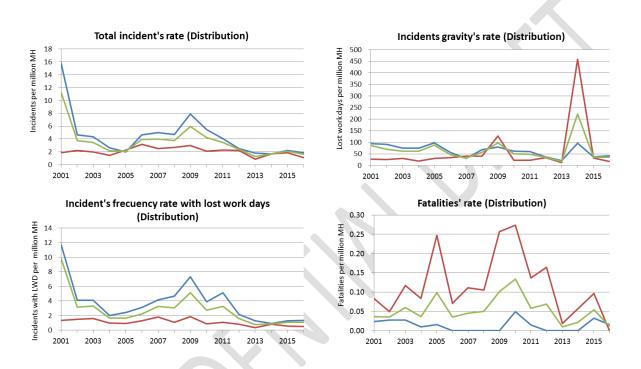
4.4.3. Proactive indicators



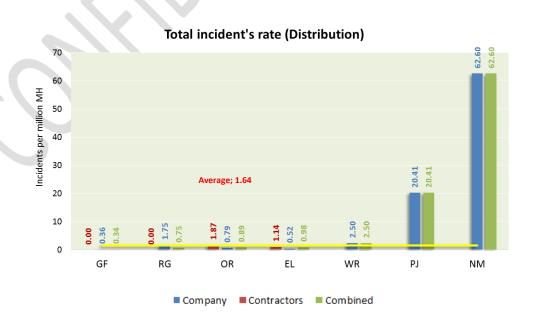
4.5. Distribution

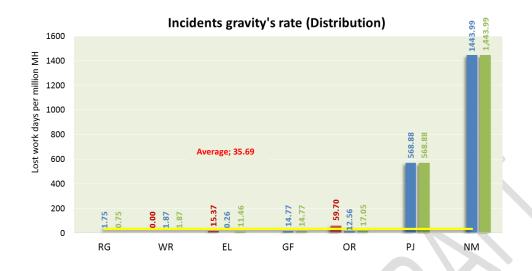
Below is shown the historical evolution of the reactive indicators (4.5.1), a comparison between companies for the year 2016 (4.5.2) and a historical evolution of proactive indicators (4.5.3) for the business line Distribution.

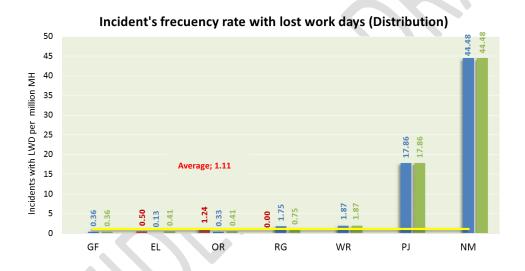
4.5.1. Reactive indicators

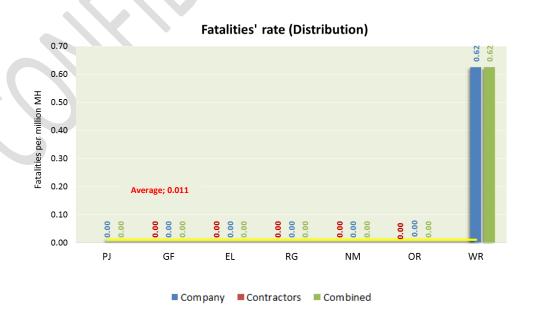


4.5.2. Reactive indicators by company

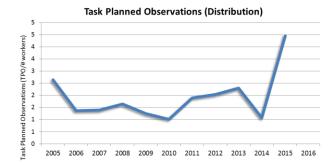








4.5.3. **Proactive indicators**





5. CAUSES OF FATALITIES

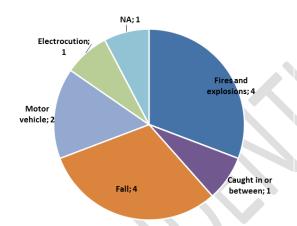
This chapter presents an analysis of the fatalities reported in 2016 by companies and contractors broken down by cause, type of activity and function. Additionally, it presents a historical comparative analysis of the causes of fatalities reported from 2001 to date.

In 2016, a total of 13 fatalities were reported, corresponding to 0.009 fatalities per million hours worked, representing a decrease of 64% compared to 2015. Fatalities cases decreased from 47 to 13.

The main causes of fatalities in 2016 were Fires and Explosions and falls with 4 cases each. Fires and explosions is also the main historical cause of fatalities since data has been collected (2001) with 23% of the total cases.

5.1. Fatalities by cause

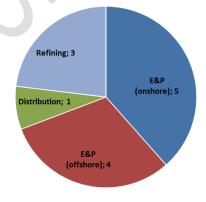
The pie chart shows the causes of fatalities reported for 2016. Fires and explosions (4 cases), falls (4), motor vehicle accident (2), caught in or between (1), electrocution (1) were the causes reported. The table below in the right shows the causes of fatalities registered from 2001 to 2016.

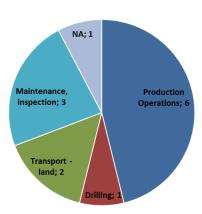


Cause	# fat	%
Fires and explosions	182	23%
Struck by equipment	117	15%
Motor Vehicle	115	14%
Fall	83	10%
Caught in or between	65	8%
Drowning	61	8%
Electrocution	54	7%
Toxic gas or liquid	43	5%
Other transportation	38	5%
Other	37	5%
NA	2	0%
Total	797	100%

5.2. Fatalities by activity and function

In 2016, production operations was the activity that recorded the highest number of fatalities (6 cases), while E&P was the most affected business line with 9 cases, 5 of them onshore and 4 offshore.





6. GLOSSARY

Case involving lost workdays

All non-fatal cases that result in the worker being away from work at least one business day after the day of the injury or disease. The day on which the worker goes home before the end of his workday is not considered in this item. Fatalities, as well as restricted labor activity days are excluded, since they are recorded separately.

Case involving restricted workdays

All non-fatal cases implying days of restricted activity of the usual tasks after the day of the injury or disease. Fatalities must be excluded.

Case involving medical treatment

All treatment cases of injuries / diseases administered by doctors, registered professionals or non-medical personnel. The medical treatment does not include first aids (one single treatment and the following observation of scratches, cuts, burns, splinters, and other episodes without gravity that generally do not require medical attention) even if a doctor or a registered professional provides them.

Company worker

Any person employed by the reporting company or included in its payroll.

Contractor

Any person directly involved in the execution of an assigned work for the reporting company, according to a contract.

Number of days away from work

The total number of days (consecutive or not) after the day when the injury or disease occurred, on which the workers involved (according to the definition of case involving lost workdays) should have worked but did not, as a result of the occupational injury or disease, until the day they get back to work. The day the person starts to work is excluded. Weekends and holidays are included, even if the employee was not scheduled to work.

This definition has to be distinguished from 'cases with lost work days' which include those incidents that generated lost work days –the number of incidents, not the number of days- and which is used to calculate the 'frequency of incidents with lost work days'

Recordable case - disease

Any occupational incident resulting from a disease (according to the provided classification by the legislation/regulation [if applicable] of the country where the company reports its activities). Occupational diseases resulting in fatalities are included.

Recordable case - fatality

A fatality resulting from an occupational injury or disease. The fatality should be loaded to the year in which the injury occurred or the occupational disease was recorded.

Recordable case - injury

Any occupational incident resulting in an injury (according to the provided classification by the legislation/regulation [if applicable] of the country where the company reports its activities). Occupational injuries resulting in fatalities are included.

Recordable cases - total

The sum of Recordable cases – Injury, Recordable cases – Disease and Recordable cases – Fatalities.

Tasks planned observations (TPO)

"Tasks planned observations" (TPO) are safety observations performed according to a systematic method. They constitute a recorded visual analysis in which the sequence of tasks, maneuvers and operations required to obtain a certain result of the service which is pre-established within the company, is studied by well trained and qualified personnel. The referred study includes hazard identification and risk management during normal task performance and comprises observations of immediate and basic aspects as well as systematic ones. Observations are recorded in a pre-established form according to a given procedure to determine all deviations that result in an increased probability of any human resources or material loss.

Worked hours

Hours worked by both the company workers and contractors' workers (separately recorded).

Work relatedness

An injury or disease is to be considered to be work-related if an event or exposure in the work environment caused or contributed to the resulting condition or significantly aggravated a pre-existing injury or disease. Work-relatedness is defined for injuries and diseases resulting from events or exposures occurred in the work environment, defining the work environment as the physical place where one or more employees work or are present due to work reasons. The work environment includes not only physical locations, but also the equipment or materials used by the employee during the course of his/her work.

7. ANNEXES

7.1.2016 data (reactive indicators)

Form	Category	Function	#incidents (TIR)	HW (TIR)	# days away from work (TGR)	HW (TGR)	# incidents (TILWDR)	WH (TILWDR)	#incidents (TFR)	WH (TFR)	TIR	TGR	TILWDR	TFR
OIC/PI	Company	E&P	157	190,519	4,702	190,519	85	190,519	5	190,519	0.82	24.68	0.45	0.026
OIC/PI	Company	Refining	254	133,841	5,885	133,841	164	133,841	1	133,841	1.90	43.97	1.23	0.007
OIC/PI	Company	Pipelines	46	46,494	758	46,494	33	46,494	0	46,494	0.99	16.30	0.71	0.000
OIC/PI	Company	Transport-maritime	9	9,750	399	9,750	6	9,750	0	9,750	0.92	40.92	0.62	0.000
OIC/PI	Company	Distribution	118	63,247	2,714	63,247	84	63,247	1	63,247	1.87	42.91	1.33	0.016
OIC/PI	Company	Others	148	180,161	4,450	180,161	106	180,161	0	180,161	0.82	24.70	0.59	0.000
OIC/PI	Company	Total	732	624,012	18,908	624,012	478	624,012	7	624,012	1.17	30.30	0.77	0.011

Form	Category	Function	# incidents (TIR)	HW (TIR)	# days away from work (TGR)	HW (TGR)	# incidents (TILWDR)	WH (TILWDR)	#incidents (TFR)	WH (TFR)	TIR	TGR	TILWDR	TFR
OIC/PI	Contractors E	&P	537	458,588	15,318	297,636	221	303,972	4	458,588	1.17	51.47	0.73	0.009
OIC/PI	Contractors R	efining	136	97,884	2,307	87,602	48	91,192	2	97,884	1.39	26.33	0.53	0.020
OIC/PI	Contractors P	ipelines	74	79,973	1,420	77,566	53	77,566	0	79,973	0.93	18.31	0.68	0.000
OIC/PI	Contractors Ti	ransport-maritime	0	1,424	0	0	0	0	0	1,424	0.00	NA	NA	0.000
OIC/PI	Contractors D	istribution	28	25,867	432	24,242	13	24,242	0	25,867	1.08	17.82	0.54	0.000
OIC/PI	Contractors O	thers	353	210,861	9,220	200,644	158	201,488	0	210,861	1.67	45.95	0.78	0.000
OIC/PI	Contractors To	otal	1128	874,596	28,697	687,689	493	698,459	6	874,596	1.29	41.73	0.71	0.007

Form	Category	Function	#incidents (TIR)	HW (TIR)	# days away from work (TGR)	HW (TGR)	# incidents (TILWDR)	WH (TILWDR)	#incidents (TFR)	WH (TFR)	TIR	TGR	TILWDR	TFR
OIC/PI	Combined	E&P	694	649,106	20,020	488,154	306	494,490	9	649,106	1.07	41.01	0.62	0.014
OIC/PI	Combined	Refining	390	231,725	8,192	221,443	212	225,033	3	231,725	1.68	36.99	0.94	0.013
OIC/PI	Combined	Pipelines	120	126,467	2,178	124,060	86	124,060	0	126,467	0.95	17.56	0.69	0.000
OIC/PI	Combined	Transport-maritime	9	11,174	399	9,750	6	9,750	0	11,174	0.81	40.92	0.62	0.000
OIC/PI	Combined	Distribution	146	89,113	3,146	87,488	97	87,488	1	89,113	1.64	35.96	1.11	0.011
OIC/PI	Combined	Others	501	391,022	13,670	380,805	264	381,649	0	391,022	1.28	35.90	0.69	0.000
OIC/PI	Combined	Total	1860	1,498,608	47,605	1,311,701	971	1,322,471	13	1,498,608	1.24	36.29	0.73	0.009

E&P Offshore

Form	Category	Function	# incidents (TIR)	HW (TIR)	# days away from work (TGR)	HW (TGR)	# incidents (TILWDR)	WH (TILWDR)	# incidents (TFR)	WH (TFR)	TIR	TGR	TILWDR	TFR
 010	Company E	&P	28	31,540	1,863	31,540	25	31,540	2	31,540	0.89	59.07	0.79	0.063
 010	Contractors E	&P	34	18,622	15	1,330	4	1,330	1	18,622	1.83	11.28	3.01	0.054
 010	Combined E	&P	62	50,162	1,878	32,870	29	32,870	3	50,162	1.24	57.13	0.88	0.060

7.2. 2016 data (proactive indicators)

Form	Category	Function	#TPO	# workers TPO	# Safety training hours	#WH STI	ТРО	STI
OIC/PI	Company	E&P	303,904	34,268	672,313	29,724	8.87	2.3%
OIC/PI	Company	Refining	131,268	28,454	231,387	29,690	4.61	0.8%
OIC/PI	Company	Pipelines	38,710	15,281	161,500	14,072	2.53	1.1%
OIC/PI	Company	Transport-maritime	13	55	128	115	0.24	0.1%
OIC/PI	Company	Distribution	10,570	12,029	86,364	19,059	0.88	0.5%
OIC/PI	Company	Others	70,274	35,362	237,999	36,878	1.99	0.6%
OIC/PI	Company	Total	554,739	125,448	1,389,690	129,539	4.42	1.1%

7.3. Historical data 2001-2016 (reactive indicators)

| Part

 | Function | Category | Indicator | 2000 | 2001
 | 2002 | 2003 | 2004 | 2005
 | 2006 | 2007 | 2008
 | 2009 | 2010 | 2011
 | 2012 | 2013 | 2014 | 2015
 | 2016 |

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Mathematical Content

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 | | | 3.654 | 2.779 | 2.133
 | 2.746 | 1.893 | 2.210
 | 2.289 | 2.289 | 1.878
 | 1.224 | 1.131 | 1.705 | 0.760
 | | 1.143 | | 0.73 |
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 | Refining | Company | Gravity | 87.293 | 81.486
 | 99.711 | 118.139 | 262.201 | 263.005
 | 64.077 | 47.367 | 101.506
 | 60.388 | 73.248 | 48.707
 | 61.117 | 47.402 | 113.196 | 42.314
 | 43.97 |
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| Path

 | Refining | Combined | Lost Workdays | |
 | | 3.038 | |
 | 1.738 | 2.743 | 2.255
 | 6.523 | 2.170 | 2.786
 | 1.369 | 1.023 | 0.934 |
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 | | | 8.153 | 0.000 | 10.192
 | 26.136 | 29.478 | 33.931
 | 27.681 | 38.982 | 27.730
 | 40.909 | 152.685 | 22.808 | 14.090
 | 38.364 | 15.882 | 21.074 | 18.31 |
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 | Pipelines | Company | Fatalities | 0.026 | 0.000
 | 0.017 | 0.018 | 0.042 | 0.000
 | 0.039 | 0.000 | 0.017
 | 0.000 | 0.024 | 0.082
 | 0.047 | 0.000 | 0.000 | 0.017
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| Distribution Combined Contractors Co
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 | | Combined | Fatalities | 0.100 | 0.056
 | 0.038 | 0.036 | 0.049 | 0.027
 | 0.013 | 0.018 | 0.008
 | 0.000 | 0.025 | 0.038
 | 0.016 | 0.023 | 0.007 | 0.026
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| Destribution Company Control
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| Distribution Company Grawity 7.870 9.830 9.207 7.879 7

 | | Company | | | 15.857
 | 4.642 | 4.364 | 2.617 | 2.024
 | 4.662 | 4.985 | 4.700
 | 7.881 | 5.485 | 4.081
 | 2.540 | 1.806 | 1.684 | 2.242
 | 1.87 |
| Property state Prop
 | Distribution
 | | Total | 10.013 | |
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| Distribution Company Contractors Contractors Contractors Control Contractors Control Contractors Control Contr
 | Distribution Distribution Distribution
 | Contractors
Combined | Total
Total
Total | 10.013
2.483
7.268 | 1.867
11.296 | 2.203
3.773
 | 1.991
3.467 | 1.439
2.189 | 2.266
2.110
 | 3.162
3.917 | 2.530
3.987 | 2.691
3.771
 | 2.970
5.934 | 2.104
4.211 | 2.289
3.446 | 2.234
2.412
 | 0.850
1.297 | 1.727
1.700 | 1.891
2.125 | 1.08
1.64 |
| Distribution Combined Combi
 | Distribution Distribution Distribution Distribution
 | Contractors
Combined
Company | Total
Total
Total
Gravity | 10.013
2.483
7.268
78.701 | 1.867
11.296
95.350 | 2.203
3.773
92.071
 | 1.991
3.467
74.798 | 1.439
2.189
74.511 | 2.266
2.110
98.448
 | 3.162
3.917
56.815 | 2.530
3.987
30.489 | 2.691
3.771
69.055
 | 2.970
5.934
79.820 | 2.104
4.211
62.334 | 2.289
3.446
60.666 | 2.234
2.412
37.623
 | 0.850
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21.143 | 1.727
1.700
96.943 | 1.891
2.125
37.791 | 1.08
1.64
42.91 |
| Distribution Combined Let Workday S.429 S.30 S.30 S.30 S.25 S.62 S
 | Distribution Distribution Distribution Distribution Distribution
 | Contractors Combined Company Contractors | Total Total Total Total Gravity Gravity | 10.013
2.483
7.268
78.701
33.557 | 1.867
11.296
95.350
28.241 | 2.203
3.773
92.071
26.401
 | 1.991
3.467
74.798
31.468 | 1.439
2.189
74.511
19.532 | 2.266
2.110
98.448
30.793
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3.917
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34.618 | 2.530
3.987
30.489
40.859 | 2.691
3.771
69.055
40.878
 | 2.970
5.934
79.820
127.176 | 2.104
4.211
62.334
22.337 | 2.289
3.446
60.666
23.255 | 2.234
2.412
37.623
34.973
 | 0.850
1.297
21.143
12.347 | 1.727
1.700
96.943
458.961 | 1.891
2.125
37.791
32.731 | 1.08
1.64
42.91
17.82 |
| Distribution Company Fatalities 0.024 0.024 0.027 0.027 0.027 0.010 0.010 0.000

 | Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution Distribution | Contractors Combined Company Contractors Combined Company | Total Total Total Gravity Gravity Gravity Lost Workdays | 10.013
2.483
7.268
78.701
33.557
62.248
7.640 | 1.867
11.296
95.350
28.241
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 | 2.203
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2.189
74.511
19.532
62.087
2.006 | 2.266
2.110
98.448
30.793
87.951
2.420
 | 3.162
3.917
56.815
34.618
47.456
3.119 | 2.530
3.987
30.489
40.859
33.278
4.149 | 2.691
3.771
69.055
40.878
57.873
4.664
 | 2.970
5.934
79.820
127.176
97.948
7.287 | 2.104
4.211
62.334
22.337
49.745
3.882 | 2.289
3.446
60.666
23.255
48.087
5.115
 | 2.234
2.412
37.623
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36.606
2.187 | 0.850
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17.987 | 1.727
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96.943
458.961
223.265
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2.125
37.791
32.731
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42.91
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| Distribution Combined Company Contactors Co
 | Distribution
 | Contractors Combined Company Contractors Combined Company Contractors | Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays | 10.013
2.483
7.268
78.701
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11.296
95.350
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1.339 | 2.203
3.773
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70.102
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31.468
61.742
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74.511
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62.087
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2.970
5.934
79.820
127.176
97.948
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4.211
62.334
22.337
49.745
3.882
0.881 | 2.289
3.446
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| Others Company Total 1.030 6.879 3.441 2.011 1.784 1.880 2.235 2.903 3.701 2.403 2.350 2.180 1.402 1.669 0.993 0.840 0.82 Others Combined Total 0.046 2.775 1.877 1.573 1.050 3.425 3.959 2.767 2.530 2.323 2.217 2.033 2.501 2.167 0.169 0.993 0.840 0.82 Others Combined Total 0.559 4.318 2.441 1.718 1.320 2.933 3.368 2.807 2.846 2.330 2.253 2.066 2.777 2.039 1.554 1.523 1.28 Others Company Gravity 0.000 4.030 746-88 0.6377 13.799 83.378 84.50 1.910 48.379 17.594 1.669 0.695 2.666 2.777 2.039 1.554 1.523 1.28 Others Company Gravity 1.039 84.015 4.6648 80.217 13.799 83.378 84.50 1.914 84.262 48.340 57.390 62.079 73.495 63.372 81.113 43.779 45.95 Others Company Lost Workdays 1.724 2.755 2.652 1.756 1.499 1.648 1.013 2.010 1.525 1.384 0.871 2.213 1.091 1.178 0.783 1.719 4.595 Others Company Lost Workdays 2.661 3.144 2.252 2.652 1.560 0.852 0.907 0.769 0.601 0.566 0.583 0.803 0.840 0.671 0.636 0.782 0.798 Others Company Fatallites 0.00 0.035 0.034 0.041 0.008 0.085 0.005

 | Distribution | Contractors Combined Company Contractors Combined Company Contractors Combined | Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays | 10.013
2.483
7.268
78.701
33.557
62.248
7.640
1.572
5.429 | 1.867
11.296
95.350
28.241
85.829
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1.339
9.830
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4.089
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3.184 | 1.991
3.467
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31.468
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1.601
3.292 | 1.439
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48.087
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1.092
3.252
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2.412
37.623
34.973
36.606
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21.143
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1.274
0.577
1.059
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1.64
42.91
17.82
35.96
1.33
0.54
1.11 |
| Others Company Total 1.030 6.879 3.441 2.011 1.784 1.880 2.235 2.903 3.701 2.403 2.350 2.180 1.402 1.669 0.993 0.840 0.82 Others Contractors Total 0.046 2.775 1.877 1.573 1.050 3.425 3.999 2.767 2.530 2.323 2.217 2.033 2.501 2.176 1.763 1.933 1.67 Others Combined Total 0.559 4.318 2.441 1.718 1.320 2.933 3.368 2.807 2.846 2.340 2.253 2.066 2.277 2.039 1.554 1.523 1.280 Others Company Gravity 30.757 59.755 80.054 62.328 70.119 58.436 28.111 2.9100 48.379 17.594 1.669 6.26965 2.1655 28.111 27.450 27.760 24.70 Others Company Gravity 16.039 8.015 406.346 80.217 67.041 59.707 31.010 28.035 44.011 41.326 46.015 53.944 62.411 56.163 65.651 37.193 35.90 Others Company Lost Workdays 1.724 3.552 1.669 5.1556 1.499 1.694 8.0852 0.997 0.769 0.601 0.546 0.583 0.803 0.840 0.671 0.636 0.782 0.788 Others Combined Lost Workdays 2.428 3.521 1.619 5.919 1.050 0.852 0.997 0.769 0.601 0.546 0.583 0.803 0.840 0.671 0.636 0.782 0.788 Others Company Fatalities 0.000 0.035 0.014 0.004 0.002 0.009 0.009 0.009 0.000 0.000 0.005 0.013 0.000 0.000 0.000 0.005 0.000 Others Company Fatalities 0.022 0.044 0.040 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.005 0.000 Others Company Fatalities 0.022 0.044 0.040 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.000 0.000 Others Company Fatalities 0.022 0.044 0.040 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.000 0.000 Others Company Gravity 119.188 10.106 88.615 89.521 1.519 1

 | Distribution | Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors | Total Total Total Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Lost Workdays | 10.013
2.483
7.268
78.701
33.557
62.248
7.640
1.572
5.429 | 1.867
11.296
95.350
28.241
85.829
11.789
1.339
9.830
0.024
 | 2.203
3.773
92.071
26.401
70.102
4.089
1.497
3.184 | 1.991
3.467
74.798
31.468
61.742
4.117
1.601
3.292
0.027 | 1.439
2.189
74.511
19.532
62.087
2.006
1.004
1.642
0.010 | 2.266
2.110
98.448
30.793
87.951
2.420
0.946
1.634
0.016
 | 3.162
3.917
56.815
34.618
47.456
3.119
1.314
2.223
0.000 | 2.530
3.987
30.489
40.859
33.278
4.149
1.811
3.246 | 2.691
3.771
69.055
40.878
57.873
4.664
1.093
3.066
0.000
 | 2.970
5.934
79.820
127.176
97.948
7.287
1.880
5.143
0.000 | 2.104
4.211
62.334
22.337
49.745
3.882
0.881
2.750
0.050 | 2.289
3.446
60.666
23.255
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223.265
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 | 1.08
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0.54
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| Others Combined Total 0.559 4.318 2.441 1.718 1.320 2.933 3.368 2.807 2.846 2.340 2.253 2.066 2.277 2.039 1.554 1.523 1.284 Others Company Gravity 30.757 59.755 80.546 62.328 70.119 58.348 28.131 29.100 48.379 1.754 16.696 26.965 21.655 28.111 24.750 24.700 Others Combined Gravity 0.000 40.384 80.217 67.019 83.388 88.501 19.148 42.262 48.340 57.396 66.017 57.799 31.090 28.035 40.101 41.326 46.015 50.079 73.495 63.372 81.131 43.7193 35.99 0.001 0.002 0.0601 0.546 0.583 0.803 0.840 0.671 0.636 0.782 0.601 0.546 0.583 0.803 0.840 0.671 0.636 0.752 0.08

 | Distribution | Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors | Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities | 10.013
2.483
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11.296
95.350
28.241
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 | 2.203
3.773
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26.401
70.102
4.089
1.497
3.184
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3.467
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4.117
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74.511
19.532
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98.448
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87.951
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 | 3.162
3.917
56.815
34.618
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3.987
30.489
40.859
33.278
4.149
1.811
3.246
0.000
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3.771
69.055
40.878
57.873
4.664
1.093
3.066
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 | 2.970
5.934
79.820
127.176
97.948
7.287
1.880
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0.257 | 2.104
4.211
62.334
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49.745
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0.273 | 2.289
3.446
60.666
23.255
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 | 2.234
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| Others Company Gravity 30.75 59.755 80.54 62.32 70.19 58.436 28.131 29.100 48.379 17.594 16.696 26.695 21.655 28.111 27.450 27.760 24.705 Others Combined Gravity 0.000 40.304 26.327 13.799 83.278 81.70 31.018 22.025 40.014 41.326 40.510 50.079 73.495 63.77 13.193 35.79 Others Company Lost Workdays 1.742 27.55 2.652 1.756 1.699<

 | Distribution | Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors Combined | Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Fatalities | 10.013
2.483
7.268
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 | 2.203
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70.102
4.089
1.497
3.184
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3.467
74.798
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61.742
4.117
1.601
3.292
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2.189
74.511
19.532
62.087
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2.110
98.448
30.793
87.951
2.420
0.946
1.634
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 | 3.162
3.917
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3.987
30.489
40.859
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3.771
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40.878
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4.664
1.093
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 | 2.970
5.934
79.820
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37.623
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| Others Contractors Gravity 0.00 40.38 749.648 206.377 13.799 83.78 84.504 19.148 42.262 48.340 57.390 62.079 73.495 63.372 81.113 43.779 45.95 Others Combined Gravity 16.039 84.015 406.346 80.217 67.041 59.707 31.00 28.035 44.011 41.326 46.015 33.44 62.411 56.63 65.511 37.739 35.90 Others Company Lost Workdays 1.724 2.755 2.652 1.756 1.649 1.648 1.013 2.100 1.525 1.384 0.801 1.041 0.782 0.782 0.782 0.782 0.782 0.782 0.782 0.782 0.782 0.050 0.090 0.000 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.000 0.001 0.001 0.001 0.001 0.001 0.001 0.000 0.000 0.001 <td< td=""><td>Distribution Distribution Distribution</td><td>Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors</td><td>Total Total Total Gravity Gravity Gravity Gravity Stavity Gravity Grav</td><td>10.013
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 | Distribution | Contractors Combined Company Contractors
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37.623
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| Others Combined Gravity 16.03 84.015 46.346 80.217 67.041 59.707 31.010 28.035 44.011 41.326 46.015 33.94 62.411 56.63 65.651 37.193 35.90 Others Company Lost Workdays 1.724 2.755 2.652 1.756 1.699 1.648 0.013 2.100 1.525 1.384 0.871 2.213 1.091 1.178 0.782 0.083 0.083 0.093 0.090 0.000 0.009 0.000 0.009 0.000 0.009 0.000 0.009 0.000 0.009 0.000 0.001 0.011 0.013 0.013 0.014 0.004 0.000 0.000 0.000 0.001

 | Distribution Others Others Others | Contractors Combined Company Contractors Combined | Total Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Total Total Total | 10.013
2.483
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 | 2.203
3.773
92.071
26.401
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4.089
1.497
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3.441
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3.467
74.798
31.468
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1.718 | 1.439
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3.368 | 2.530
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30.489
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| Others Company Lost Workdays 1.724 2.755 2.652 1.756 1.499 1.648 1.013 2.100 1.525 1.384 0.871 2.213 1.091 1.178 0.783 0.710 0.59 Others Contractors Lost Workdays 2.428 3.521 1.619 5.919 1.050 0.852 0.907 0.769 0.601 0.546 0.583 0.803 0.840 0.671 0.636 0.782 0.78 Others Combined Lost Workdays 2.061 3.144 2.262 2.071 1.212 1.214 0.943 1.195 0.865 0.728 0.660 1.022 0.891 0.773 0.678 0.752 0.69 Others Company Fatalities 0.000 0.035 0.014 0.000 0.009 0.000 0.009 0.000 0.000 0.007 0.005 0.013 0.000 0.000 0.000 0.000 0.000 Others Combined Fatalities 0.002 0.044 0.040 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.014 0.004 0.006 0.000 0.000 Others Combined Fatalities 0.022 0.044 0.040 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.002 0.000 Others Combined Fatalities 0.022 0.044 0.040 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.002 0.000 Others Combined Fatalities 0.022 0.044 0.040 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.002 0.000 Others Combined Fatalities 0.022 0.044 0.040 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.002 0.000 Others Combined Fatalities 0.022 0.044 0.040 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.002 0.000 Others Combined Fatalities 0.022 0.044 0.040 0.048 0.028 0.016 0.031 0.015 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.002 0.000 Others Combined Fatalities 0.022 0.044 0.040 0.048 0.048 0.048 0.055 0.016 0.008 0.005 0.010 0.013 0.012 0.003 0.004 0.002 0.000 Others Combined Fatalities 0.022 0.044 0.040 0.048 0.048 0.048 0.055 0.016 0.008 0.055 0.016 0.008 0.055 0.016 0.008 0.055 0.016 0.008 0.055 0.016 0.008 0.055 0.016 0.008 0.055 0.016 0.008 0.055 0.016 0.008 0.055 0.016 0.008 0.055 0.021 0.022 0.025 0.024 0.029 0.037 0.013 0.016 0.038 0.000 0.

 | Distribution Others Others Others Others Others | Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors Company Contractors Combined Company Contractors Combined Company Contractors Combined | Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Fatalities Total Total Total Gravity | 10.013
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3.773
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2.235
3.959
3.368
28.131 | 2.530
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127.176
97.948
7.287
1.880
5.143
0.000
0.257
0.101
2.403
2.323
2.340
17.594 | 2.104
4.211
62.334
22.337
49.745
3.882
0.881
2.750
0.273
0.134
2.350
2.217
2.253 | 2.289
3.446
60.666
23.255
48.087
5.115
1.092
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0.136
0.058
2.180
2.033
2.066
26.965
 | 2.234
2.412
37.623
34.973
36.606
2.187
0.821
1.617
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0.164
0.069
1.402
2.501
2.277
21.655 | 0.850
1.297
21.143
12.347
17.987
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0.333
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1.669
2.176
2.039 | 1.727
1.700
96.943
458.961
223.265
0.943
0.817
0.899
0.000
0.057
0.021 | 1.891
2.125
37.791
32.731
36.228
1.274
0.577
1.059
0.096
0.054
0.840
1.933
1.523
27.760
 | 1.08
1.64
42.91
17.82
35.96
1.33
0.54
1.11
0.016
0.000
0.011 |
| Others Combined Lost Workdays 2.061 3.144 2.262 2.071 1.212 1.212 1.214 0.943 1.195 0.865 0.728 0.660 1.022 0.891 0.773 0.678 0.752 0.69 Others Company Fatalities 0.000 0.035 0.014 0.000 0.009 0.008 0.000 0.005 0.013 0.000 0.000 0.000 0.000 0.000 0.000 0.001 0.011 0.004 0.013 0.014 0.000 0.000 0.000 0.000 0.000 0.001 0.013 0.014 0.004 0.002 0.000 0.000 0.001 0.013 0.014 0.004 0.002 0.000 0.000 0.000 0.001 0.013 0.014 0.004 0.002 0.000 0.000 0.001 0.013 0.014 0.004 0.002 0.000 0.000 0.001 0.013 0.014 0.004 0.002 0.000 0.001 0.013 0.014 </td <td>Distribution Distribution Others Others Others Others Others Others</td> <td>Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors Combined Contractors Contractors Combined Company Contractors Combined Company Contractors Combined</td> <td>Total Total Total Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Fatalities Total Total Gravity Gravity Gravity</td> <td>10.013
2.483
7.268
78.701
33.557
62.248
7.640
1.572
5.429
0.024
0.000
0.015
1.030
0.046
0.559
30.757</td> <td>1.867
11.296
95.350
28.241
85.829
11.789
1.339
9.830
0.024
0.037
6.879
2.775
4.318
59.755
40.308</td> <td>2.203
3.773
92.071
26.401
70.102
4.089
1.497
3.184
0.027
0.049
0.035
3.441
1.877
2.441
80.054
749.648</td> <td>1.991
3.467
74.798
31.468
61.742
4.117
1.601
3.292
0.027
0.117
0.060
2.011
1.573
1.718
62.328
206.377</td> <td>1.439
2.189
74.511
19.532
62.087
2.006
1.004
1.642
0.010
0.084
0.036
1.784
1.050
1.320
70.119</td> <td>2.266
2.110
98.448
30.793
87.951
2.420
0.946
1.634
0.016
0.247
0.098
1.880
3.425
2.933
58.436
83.378</td> <td>3.162
3.917
56.815
34.618
47.456
3.119
1.314
2.223
0.000
0.071
0.035
2.235
3.959
3.368
28.131
84.504</td> <td>2.530
3.987
30.489
40.859
33.278
4.149
1.811
3.246
0.000
0.111
0.045
2.903
2.767
2.807
29.100
19.148</td> <td>2.691
3.771
69.055
40.878
57.873
4.664
1.093
3.066
0.000
0.105
0.050
3.701
2.530
2.846
48.379
42.262</td> <td>2.970
5.934
79.820
127.176
97.948
7.287
1.880
5.143
0.000
0.257
0.101
2.403
2.323
2.340
17.594
48.340</td> <td>2.104
4.211
62.334
22.337
49.745
3.882
0.881
2.750
0.273
0.134
2.350
2.217
2.253
16.696
57.390</td> <td>2.289
3.446
60.666
23.255
48.087
5.115
1.092
3.252
0.015
0.136
0.058
2.180
2.033
2.066
26.965
62.079</td> <td>2.234
2.412
37.623
34.973
36.606
2.187
0.821
1.617
0.000
0.164
0.069
1.402
2.501
2.277
21.655
73.495</td> <td>0.850
1.297
21.143
12.347
17.987
1.302
0.333
0.786
0.000
0.018
0.010
1.669
2.176
2.039
28.111
63.372</td> <td>1.727
1.700
96.943
458.961
223.265
0.943
0.817
0.899
0.000
0.057
0.021
0.993
1.763
1.554
27.450
81.113</td> <td>1.891
2.125
37.791
32.731
36.228
1.274
0.577
1.059
0.032
0.096
0.054
0.840
1.933
1.523
27.760
43.779</td> <td>1.08
1.64
42.91
17.82
35.96
1.33
0.54
1.11
0.016
0.000
0.011
0.82
1.67
1.28</td>

 | Distribution Others Others Others Others Others Others | Contractors Combined Company Contractors Combined Company Contractors Combined Company Contractors Combined Contractors Contractors Combined Company Contractors Combined Company Contractors Combined | Total Total Total Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Fatalities Total Total Gravity Gravity Gravity | 10.013
2.483
7.268
78.701
33.557
62.248
7.640
1.572
5.429
0.024
0.000
0.015
1.030
0.046
0.559
30.757 | 1.867
11.296
95.350
28.241
85.829
11.789
1.339
9.830
0.024
0.037
6.879
2.775
4.318
59.755
40.308
 | 2.203
3.773
92.071
26.401
70.102
4.089
1.497
3.184
0.027
0.049
0.035
3.441
1.877
2.441
80.054
749.648 | 1.991
3.467
74.798
31.468
61.742
4.117
1.601
3.292
0.027
0.117
0.060
2.011
1.573
1.718
62.328
206.377 | 1.439
2.189
74.511
19.532
62.087
2.006
1.004
1.642
0.010
0.084
0.036
1.784
1.050
1.320
70.119 | 2.266
2.110
98.448
30.793
87.951
2.420
0.946
1.634
0.016
0.247
0.098
1.880
3.425
2.933
58.436
83.378
 | 3.162
3.917
56.815
34.618
47.456
3.119
1.314
2.223
0.000
0.071
0.035
2.235
3.959
3.368
28.131
84.504 | 2.530
3.987
30.489
40.859
33.278
4.149
1.811
3.246
0.000
0.111
0.045
2.903
2.767
2.807
29.100
19.148 | 2.691
3.771
69.055
40.878
57.873
4.664
1.093
3.066
0.000
0.105
0.050
3.701
2.530
2.846
48.379
42.262
 | 2.970
5.934
79.820
127.176
97.948
7.287
1.880
5.143
0.000
0.257
0.101
2.403
2.323
2.340
17.594
48.340 | 2.104
4.211
62.334
22.337
49.745
3.882
0.881
2.750
0.273
0.134
2.350
2.217
2.253
16.696
57.390 | 2.289
3.446
60.666
23.255
48.087
5.115
1.092
3.252
0.015
0.136
0.058
2.180
2.033
2.066
26.965
62.079
 | 2.234
2.412
37.623
34.973
36.606
2.187
0.821
1.617
0.000
0.164
0.069
1.402
2.501
2.277
21.655
73.495 | 0.850
1.297
21.143
12.347
17.987
1.302
0.333
0.786
0.000
0.018
0.010
1.669
2.176
2.039
28.111
63.372 | 1.727
1.700
96.943
458.961
223.265
0.943
0.817
0.899
0.000
0.057
0.021
0.993
1.763
1.554
27.450
81.113 | 1.891
2.125
37.791
32.731
36.228
1.274
0.577
1.059
0.032
0.096
0.054
0.840
1.933
1.523
27.760
43.779
 | 1.08
1.64
42.91
17.82
35.96
1.33
0.54
1.11
0.016
0.000
0.011
0.82
1.67
1.28 |
| Others Company Fatalities 0.000 0.035 0.014 0.000 0.009 0.009 0.009 0.008 0.000 0.007 0.005 0.013 0.000 0.000 0.000 0.005 0.000 0.000 0.005 0.000 0.00

 | Distribution Others Others Others Others Others Others Others | Contractors Combined Company Contractors Combined | Total Total Total Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Fatalities Total Total Gravity Gravity Gravity Gravity | 10.013
2.483
7.268
78.701
33.557
62.248
7.640
1.572
5.429
0.024
0.000
0.015
1.030
0.046
0.559
30.757
0.000
16.039 | 1.867
11.296
95.350
28.241
85.829
11.789
1.339
9.830
0.024
0.084
0.037
6.879
2.775
4.318
59.755
40.308
84.015
 | 2.203
3.773
92.071
26.401
70.102
4.089
1.497
3.184
0.027
0.035
3.441
1.877
2.441
80.054
749.648
406.346 | 1.991
3.467
74.798
31.468
61.742
4.117
1.601
3.292
0.027
0.117
0.060
2.011
1.573
1.718
62.328
206.377
80.217 | 1.439
2.189
74.511
19.532
62.087
2.006
1.004
1.642
0.010
0.084
0.036
1.784
1.050
1.320
70.119
13.799
67.041 | 2.266
2.110
98.448
30.793
87.951
2.420
0.946
1.634
0.016
0.247
0.098
1.880
3.425
2.933
58.436
83.378
59.707
 | 3.162
3.917
56.815
34.618
47.456
3.119
1.314
2.223
0.000
0.071
0.035
2.235
3.959
3.368
28.131
84.504
31.010 | 2.530
3.987
30.489
40.859
33.278
4.149
1.811
3.246
0.000
0.111
0.045
2.903
2.767
2.807
29.100
19.148
28.035 | 2.691
3.771
69.055
40.878
57.873
4.664
1.093
3.066
0.000
0.105
0.050
3.701
2.530
2.846
48.379
42.262
44.011
 | 2.970
5.934
79.820
127.176
97.948
7.287
1.880
5.143
0.000
0.257
0.101
2.403
2.323
2.340
17.594
48.340
41.326 | 2.104
4.211
62.334
22.337
49.745
3.882
0.881
2.750
0.273
0.134
2.350
2.217
2.253
16.696
57.390
46.015 | 2.289
3.446
60.666
23.255
48.087
5.115
1.092
3.252
0.015
0.136
0.058
2.180
2.033
2.066
26.965
62.079
53.944
 | 2.234
2.412
37.623
34.973
36.606
2.187
0.821
1.617
0.000
0.164
0.069
1.402
2.501
2.277
21.655
73.495
62.411 | 0.850
1.297
21.143
12.347
17.987
1.302
0.333
0.786
0.000
0.018
0.010
1.669
2.176
2.039
28.111
63.372
56.163 | 1.727
1.700
96.943
458.961
223.265
0.943
0.817
0.899
0.000
0.057
0.021
0.993
1.763
1.554
27.450
81.113
65.651 | 1.891
2.125
37.791
32.731
36.228
1.274
0.577
1.059
0.032
0.096
0.054
0.840
1.933
1.523
27.760
43.779
37.193
 | 1.08
1.64
42.91
17.82
35.96
1.33
0.54
1.11
0.016
0.000
0.011
0.82
1.67
1.28
24.70
45.95
35.90 |
| Others Contractors Fatalities 0.046 0.051 0.054 0.041 0.020 0.045 0.019 0.020 0.011 0.004 0.011 0.013 0.014 0.004 0.004 0.006 0.000

 | Distribution Others | Contractors Combined Company Contractors Combined | Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Total Total Gravity Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays | 10.013
2.483
7.268
78.701
1.572
5.429
0.002
0.0015
1.030
0.046
0.559
30.757
0.0039
1.724
2.428 | 1.867
11.296
95.350
28.241
85.829
11.789
1.339
9.830
0.024
0.084
0.037
6.879
2.775
4.318
59.755
40.308
84.015
2.755
3.521
 | 2.203
3.773
92.071
26.401
70.102
4.089
1.497
0.049
0.035
3.441
1.877
2.441
80.054
749.648
406.346
2.652
1.619 | 1.991
3.467
74.798
31.468
61.742
4.117
1.601
3.292
0.027
0.117
0.060
2.011
1.573
1.718
62.328
206.377
80.217 | 1.439
2.189
74.511
19.532
62.087
2.006
1.004
0.084
0.036
1.784
1.050
1.320
70.119
13.799
67.041
1.499
1.050 | 2.266
2.110
98.448
30.793
87.951
2.420
0.946
1.634
0.016
0.247
0.098
1.880
3.425
2.933
58.436
83.378
83.378
83.378
 | 3.162
3.917
56.815
34.618
47.456
3.119
1.314
2.223
0.000
0.071
0.035
2.235
3.959
3.368
28.131
84.504
31.010
1.013
0.907 | 2.530
3.987
30.489
40.859
33.278
4.149
1.811
3.246
0.000
0.111
0.045
2.903
2.767
2.807
29.100
19.148
28.035
2.100
0.769 | 2.691
3.771
69.055
40.878
57.873
4.664
1.093
3.066
0.000
0.105
0.050
3.701
2.530
2.846
48.379
42.262
44.011
1.525
0.601
 | 2.970
5.934
79.820
127.176
97.948
7.287
1.880
0.257
0.101
2.403
2.323
2.340
41.326
1.384
0.546 | 2.104
4.211
62.334
22.337
49.745
0.881
2.750
0.050
0.273
0.134
2.350
2.217
2.253
16.696
57.390
46.015
0.871
0.583 | 2.289
3.446
60.666
23.255
48.087
5.115
1.092
0.015
0.136
0.058
2.180
2.033
2.066
62.079
53.944
2.213
0.803
 | 2.234
2.412
37.623
34.973
36.6006
0.821
1.617
0.000
0.164
0.069
1.402
2.501
2.277
21.655
73.495
62.411
1.091
0.840 | 0.850
1.297
21.143
12.347
17.987
1.302
0.333
0.786
0.000
0.018
0.010
1.669
2.176
2.039
28.111
63.372
56.163
1.178 | 1.727
1.700
96.943
458.961
223.265
0.943
0.817
0.899
0.000
0.057
0.021
0.993
1.763
1.554
27.450
81.113
65.651
0.783 | 1.891
2.125
37.791
32.731
36.228
1.274
0.577
1.059
0.032
0.096
0.054
0.840
1.933
1.523
27.760
43.779
37.193
0.710
 | 1.08
1.64
42.91
17.82
35.96
1.33
0.54
1.11
0.016
0.001
0.011
0.82
1.67
1.28
24.70
45.95
35.90
0.59 |
| Total Company Total 5.320 5.319 2.784 2.167 2.351 2.811 2.869 3.579 3.723 3.835 5.061 4.130 1.805 1.658 1.296 1.164 1.17 Total Contractors Total 2.709 5.462 2.484 2.167 2.381 4.542 4.232 3.842 3.748 2.967 2.772 2.828 2.297 2.071 1.949 1.690 1.29 Total Combined Total 4.494 5.415 2.632 2.183 2.386 3.808 3.671 3.738 3.738 3.738 3.287 3.609 3.291 2.149 1.895 1.700 1.494 1.24 Total Company Gravity 119.188 101.406 85.611 89.572 174.093 166.014 60.290 54.995 78.952 57.608 54.537 68.018 38.087 36.546 55.542 37.789 30.30 Total Compined Gravity 92.562 150.936 228.74 118.290 157.41 20.007 62.30 64.096 82.174 60.496 82.393 66.925 64.34 42.983 89.356 61.160 36.29 Total Company Lost Workdays 2.668 2.973 2.276 2.054 1.838 3.183 2.313 2.479 2.226 3.387 2.38 4.695 1.167 0.999 0.800 0.805 0.77 Total Company Lost Workdays 2.715 2.907 2.299 2.410 1.555 1.952 1.817 1.824 1.431 1.733 0.904 1.251 0.795 0.671 0.829 0.800 0.805 0.77 Total Combined Lost Workdays 2.715 2.907 2.299 2.410 1.679 2.402 2.028 0.017 0.032 0.021 0.020 0.022 0.025 0.09 0.09 0.09 0.013 0.010 0.031 Total Company Fatalities 0.034 0.043 0.026 0.021 0.022 0.028 0.017 0.032 0.021 0.020 0.025 0.024 0.029 0.037 0.013 0.016 0.033 0.007

 | Distribution Others | Contractors Combined Company Contractors Combined Contractors Combined | Total Total Total Gravity Gravity Gravity Gravity Lost Workdays Fatalities Fatalities Fatalities Total Total Gravity Gravity Gravity Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Gravity Gravity Lost Workdays Lost Workdays Lost Workdays | 10.013
2.483
7.268
78.701
1.572
5.429
0.002
0.015
1.030
0.046
0.559
30.757
0.000
1.724
2.428
2.061 | 1.867
11.296
95.350
28.241
85.829
11.789
9.830
0.024
0.084
0.037
6.879
2.775
4.318
59.755
40.308
84.015
2.755
3.521
 | 2.203
3.773
92.071
26.401
70.102
4.089
1.497
3.184
0.027
0.049
0.035
3.441
1.877
2.441
80.054
749.648
406.346
2.652
1.619
2.262 | 1.991
3.467
74.798
31.468
61.742
4.117
1.601
3.292
0.027
0.117
0.060
2.011
1.573
1.718
62.328
206.377
80.217
1.756
5.919
2.071 | 1.439
2.189
74.511
19.532
62.086
1.004
1.642
0.010
0.084
0.036
1.784
1.050
1.320
70.119
13.799
67.041
1.499
1.050
1.212 | 2.266
2.110
98.448
30.793
87.951
2.420
0.946
1.634
0.016
0.247
0.098
1.880
3.425
2.933
58.436
83.378
59.707
1.648
0.852
1.241
 | 3.162
3.917
56.815
34.618
47.456
3.119
1.314
2.223
0.000
0.071
0.035
2.235
3.959
3.368
28.131
84.504
31.010
0.907
0.943 | 2.530
3.987
30.489
40.859
33.278
4.149
1.811
0.045
2.903
2.767
2.807
29.100
0.119
1.48
28.035
2.100
0.769
1.195 | 2.691
3.771
69.055
40.878
57.873
4.664
1.093
3.066
0.000
0.105
0.050
3.701
2.530
2.846
48.379
42.62
44.011
1.525
0.601
0.865
 | 2.970
5.934
79.820
127.176
97.948
7.287
1.880
5.143
0.000
0.257
0.101
2.403
2.323
2.340
17.594
48.340
41.326
1.384
0.546
0.728 | 2.104
4.211
62.334
22.337
49.745
0.881
2.750
0.050
0.273
0.134
2.350
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| Total Company Total 5.320 5.319 2.784 2.167 2.351 2.811 2.869 3.579 3.723 3.835 5.061 4.130 1.805 1.658 1.296 1.164 1.17 Total Contractors Total 2.709 5.462 2.484 2.196 2.381 4.542 4.232 3.842 3.748 2.967 2.772 2.828 2.297 2.071 1.949 1.690 1.29 Total Combined Total 4.494 5.415 2.632 2.183 2.368 3.808 3.671 3.738 3.738 3.287 3.609 3.291 2.149 1.895 1.740 1.494 1.24 Total Company Gravity 119.188 101.406 85.615 89.572 174.093 166.014 60.290 54.595 78.608 54.537 68.018 38.087 36.546 55.542 37.789 30.30 Total Comtactors Gravity 34.963 320.162 356.408 188.257 15.214 295.429 65.242 83.563 84.600 62.625 102.874 66.155 79.891 61.238 109.592 79.583 41.73 Total Combined Gravity 92.562 15.0936 228.874 18.290 157.413 202.007 62.330 64.096 82.174 60.496 82.393 66.925 64.34 42.983 89.356 61.160 36.29 Total Company Lost Workdays 2.668 2.973 2.276 2.054 1.838 3.138 2.313 2.479 2.226 3.387 2.738 4.695 1.167 0.996 0.800 0.805 0.77 Total Comtractors Lost Workdays 2.817 2.783 2.260 3.390 1.555 1.952 1.817 1.834 1.431 1.733 0.904 1.251 0.795 0.671 0.862 0.803 0.71 Total Combined Combined Gravity 9.2562 1.0943 2.003 2.296 2.410 1.679 2.402 2.023 2.120 1.771 2.343 1.573 2.150 0.907 0.760 0.839 0.804 0.73 Total Company Fatalities 0.034 0.045 0.025 0.021 0.022 0.028 0.017 0.032 0.021 0.020 0.025 0.024 0.029 0.037 0.013 0.016 0.033 0.007

 | Distribution Others | Contractors Combined Company | Total Total Total Gravity Gravity Gravity Gravity Gravity Lost Workdays Fatalities Fatalities Total Total Gravity Gravity Gravity Gravity Gravity Gravity Gravity Lost Workdays | 10.013
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 | 2.203
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| Total Contractors Total 2.709 5.462 2.484 2.196 2.381 4.542 4.232 3.842 3.748 2.967 2.772 2.828 2.297 2.071 1.949 1.690 1.29 Total Combined Total 4.494 5.415 2.632 2.183 2.368 3.808 3.671 3.738 3.738 3.287 3.609 3.291 2.149 1.895 1.740 1.494 1.424 Total Company Gravity 119.188 10.140 55.610 18.8257 15.409 16.014 60.29 54.950 78.952 75.608 54.512 88.807 36.749 3.738 3.887 3.699 32.91 2.149 1.895 15.749 1.424 Total Comtractors Gravity 92.52 150.301 18.8257 15.741 20.207 62.30 64.096 82.174 66.155 79.891 61.238 10.929 79.583 41.73 79.71 2.908 2.908 <td>Distribution Distribution Distr</td> <td>Contractors Combined Company Contractors Combined Company Contractors</td> <td>Total Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Total Total Total Total Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Lost Workdays Lost Workdays Lost Workdays Lost Workdays Fatalities Fatalities Fatalities</td> <td>10.013
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65.651
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| Total Combined Total 4.49 5.415 2.632 2.183 2.368 3.698 3.671 3.738 3.738 3.287 3.699 2.91 2.149 1.895 1.740 1.494 1.424 Total Company Gravity 119.188 10.140 8.515 8.572 17.409 16.014 60.29 5.495 78.952 57.68 54.37 60.18 38.087 36.30 35.30 36.30 36.30 36.30 36.30 36.30 36.30 36.30 36.40 5.524 37.789 30.30 Total Combined Gravity 92.562 150.93 22.871 18.210 157.12 29.00 65.243 86.00 6.2625 10.287 66.10 36.29 18.21 157.21 29.00 65.243 86.00 62.625 10.287 66.10 36.29 18.21 16.23 86.20 62.625 10.284 62.93 42.983 89.356 61.100 36.292 17.71 2.81

 | Distribution Others | Contractors Combined Company Contractors Combined | Total Total Total Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Total Total Gravity Gravity Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities | 10.013
2.483
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78.701
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61.742
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| Total Combined Gravity 34.96 320.162 35.6408 18.257 15.214 295.429 65.242 83.563 46.009 62.625 102.87 66.155 79.891 61.238 10.952 79.583 41.73 Total Combined Gravity 92.562 150.936 228.74 118.290 157.413 202.00 62.300 64.096 82.174 60.496 82.973 66.95 64.44 42.983 89.356 61.600 36.29 Total Company Lost Workdays 2.688 2.973 2.276 2.054 1.838 3.183 2.313 2.479 2.226 3.387 2.38 4.695 1.167 0.990 0.800 0.803 0.77 Total Combined Lost Workdays 2.817 2.783 2.266 3.99 2.402 2.022 1.817 1.431 1.733 0.904 1.575 0.076 0.833 0.71 Total Combined Lost Workdays 2.715 2.907

 | Distribution Others | Contractors Combined Company Contractors Combined | Total Total Total Gravity Gravity Gravity Gravity Staticus Fatalities Fatalities Fatalities Total Total Gravity Lost Workdays Fatalities | 10.013
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| Total Combined Gravity 92.56 150.98 228.87 118.290 157.413 20.007 62.300 64.096 82.174 60.995 64.096 82.933 66.925 64.344 42.983 89.356 61.160 36.29 Total Company Lost Workdays 2.668 2.973 2.26 2.054 1.838 3.183 2.313 2.479 2.226 3.38 1.617 0.909 0.000 0.805 0.77 Total Combined Lost Workdays 2.817 2.783 2.60 3.90 1.555 1.952 1.817 1.834 1.431 1.733 0.904 1.251 0.795 0.610 0.803 0.71 Total Combined Lost Workdays 2.787 2.60 2.021 0.022 0.021 0.021 2.126 1.031 1.331 1.311 1.733 0.904 1.051 0.906 0.806 0.803 0.731 Total Company Fatalities 0.034 0.035<

 | Distribution Others | Contractors Combined Company Contractors Combined | Total Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Total Total Total Total Gravity Gravity Gravity Gravity Lost Workdays Fatalities Fatalities Fatalities Fatalities | 10.013
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| Total Company Lost Workdays 2.688 2.973 2.276 2.054 1.838 3.183 2.313 2.479 2.226 3.387 2.738 4.695 1.167 0.969 0.800 0.805 0.77 Total Contractors Lost Workdays 2.817 2.783 2.260 3.390 1.555 1.952 1.817 1.834 1.431 1.733 0.904 1.251 0.795 0.671 0.862 0.803 0.71 Total Combined Lost Workdays 2.715 2.907 2.269 2.410 1.679 2.402 2.023 2.120 1.771 2.343 1.573 2.216 0.907 0.760 0.839 0.804 0.73 Total Company Fatalities 0.034 0.043 0.026 0.021 0.022 0.028 0.017 0.032 0.021 0.020 0.022 0.025 0.019 0.099 0.013 0.010 0.011 Total Contractors Fatalities 0.074 0.095 0.074 0.080 0.055 0.061 0.044 0.048 0.029 0.025 0.024 0.029 0.037 0.013 0.016 0.033 0.007

 | Distribution Distr | Contractors Combined Company Contractors Combined | Total Total Total Total Gravity Gravity Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Total Total Gravity Gravity Gravity Gravity Gravity Lost Workdays Lost Workdays Lost Workdays Lost Workdays Lost Workdays Fatalities Fatalities Fatalities Fatalities Fatalities Fatalities Fatalities Fatalities Total | 10.013
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| Total Contractors Lost Workdays 2.817 2.783 2.260 3.390 1.555 1.952 1.817 1.834 1.431 1.733 0.904 1.251 0.795 0.671 0.862 0.803 0.71 Total Combined Lost Workdays 2.715 2.907 2.269 2.410 1.679 2.402 2.023 2.120 1.771 2.343 1.573 2.216 0.907 0.60 0.839 0.804 0.73 Total Company Fatalities 0.034 0.024 0.022 0.028 0.017 0.032 0.021 0.022 0.023 0.021 0.024 0.029 0.021 0.025 0.011 0.004 0.025 0.021 0.024 0.020 0.024 0.029 0.025 0.024 0.029 0.025 0.024 0.029 0.025 0.024 0.029 0.025 0.024 0.029 0.025 0.024 0.029 0.025 0.029 0.035 0.010 0.044 0

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| Total Company Fatalities 0.034 0.043 0.026 0.021 0.022 0.028 0.017 0.032 0.021 0.020 0.022 0.025 0.019 0.009 0.013 0.010 0.011 Total Contractors Fatalities 0.074 0.095 0.074 0.080 0.055 0.061 0.044 0.048 0.029 0.025 0.024 0.029 0.037 0.013 0.016 0.033 0.007

 | Distribution Others | Contractors Combined Company Contractors Combined | Total Total Total Gravity Gravity Gravity Lost Workdays Lost Workdays Fatalities Fatalities Total Total Total Total Total Total Total Gravity Gravity Lost Workdays Lost | 10.013
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| Total Contractors Fatalities 0.074 0.095 0.074 0.080 0.055 0.061 0.044 0.048 0.029 0.025 0.024 0.029 0.037 0.013 0.016 0.033 0.007

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7.4. Historical data 2003-2016 (reactive indicators -offshore-)

Indicator	Category	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Total (TIR)	Company	2.03	2.98	3.20	2.79	5.64	3.90	5.43	9.75	9.31	4.123	0.810	0.769	1.347	0.89
Total (TIR)	Contractors	1.46	3.40	3.35	1.62	6.86	3.55	2.39	2.38	2.68	5.586	0.893	1.421	6.250	1.83
Total (TIR)	Combined	1.73	3.11	3.27	2.17	6.13	3.77	4.43	7.72	7.29	5.053	0.849	0.990	2.967	1.24
Gravity (TGR)	Company	114.22	126.48	103.24	79.26	125.55	66.57	52.69	43.74	22.06	223.027	47.365	5.059	89.068	59.07
Gravity (TGR)	Contractors	11.29	10.58	81.04	28.58	59.84	215.16	87.12	113.89	129.24	65.938	73.474	17.915	15.861	11.28
Gravity (TGR)	Combined	110.27	122.46	97.37	52.12	108.88	91.38	57.73	50.36	58.06	123.142	49.240	8.029	76.730	57.13
Lost Workdays (TILWDR)	Company	1.97	3.25	7.44	2.36	4.10	3.18	4.41	6.41	12.19	4.022	0.767	0.769	1.260	0.79
Lost Workdays (TILWDR)	Contractors	1.03	2.71	2.85	1.20	6.39	5.36	1.95	3.32	2.44	5.413	0.813	1.751	2.358	3.01
Lost Workdays (TILWDR)	Combined	1.93	3.07	4.58	1.74	4.68	3.55	3.60	6.12	9.49	4.907	0.789	0.996	1.445	0.88
Fatalities (TFR)	Company	0.06	0.02	0.00	0.00	0.19	0.00	0.00	0.01	0.01	0.000	0.014	0.000	0.087	0.063
Fatalities (TFR)	Contractors	0.09	0.17	0.04	0.01	0.61	0.03	0.03	0.04	0.03	0.000	0.000	0.000	0.704	0.054
Fatalities (TFR)	Combined	0.08	0.07	0.02	0.01	0.36	0.01	0.01	0.02	0.02	0.000	0.008	0.000	0.291	0.060

7.1. Historical data 2005-2016 (proactive indicators)

	Task Planned Observations (company)														
Function	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016			
E&P	1.83	1.07	1.28	1.01	4.87	1.45	3.12	8.69	7.76	17.98	6.39	8.87			
Refining	2.21	0.99	1.60	2.51	7.05	15.93	5.22	4.06	5.36	6.69	4.71	4.61			
Pipelines	1.18	1.59	0.92	1.25	2.42	3.81	1.98	2.05	2.56	4.16	2.97	2.53			
Distribution	2.63	1.36	1.38	1.64	1.24	1.01	1.88	2.02	2.29	1.07	4.45	0.88			
Others	0.28	1.44	0.57	1.41	3.23	1.29	2.19	2.56	2.98	2.64	2.16	1.99			
Total	1.96	1.15	1.12	1.35	3.93	3.70	3.27	4.59	4.98	8.39	4.14	4.42			

	Safety Training Intensity (company)														
Function	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016			
E&P	0.62	0.21	0.22	0.14	0.10	0.32	0.30	0.29	0.51	0.63	0.40	2.26			
Refining	0.29	0.26	0.21	0.21	0.30	0.83	0.35	0.59	0.80	0.81	0.65	0.78			
Pipelines	0.10	2.54	1.19	1.68	0.16	2.49	0.97	0.45	1.00	0.94	1.29	1.15			
Distribution	0.08	0.15	0.10	1.13	0.10	0.19	0.19	0.28	0.58	0.58	0.39	0.45			
Others	0.19	0.11	0.02	0.10	0.26	0.32	0.18	0.44	0.62	0.21	0.33	0.65			
Total	0.36	0.24	0.18	0.20	0.17	0.45	0.30	0.42	0.57	0.59	0.55	1.07			

8. REFERENCES

- 1. ARPEL (2017) User's Manual –ARPEL Database- Safety benchmarking in the oil and gas industry in Latin America and the Caribbean 7th edition, 2017.
- 2. Safety statistics provided by ARPEL member companies.
- 3. IOGP (2017) "Safety Performance Indicators 2016 data"



Safety Benchmarking

in the oil and gas industry in Latin America and the Caribbean

2016 Data



ARPEL is a non-profit association gathering oil, gas and biofuels sector companies and institutions in Latin America and the Caribbean. Founded in 1965 as a vehicle of cooperation and reciprocal assistance among sector companies, its main purpose is to actively contribute to industry integration and competitive growth, and to sustainable energy development in the region. Its membership currently represents over 90% of the upstream and downstream activities in the region and includes national, international and independent operating companies, providers of technology, goods and services for the value chain, and national and international sector institutions.



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