

2018 IPLOCA Health, Safety & Environmental Statistics Report

issued September 2019

Message from the HSE & CSR Committee

This report combines IPLOCA members's health, safety and environmental statistics received for 2018.

The good news is that the number of fatalities is decreasing; however, six fatal accidents on our work sites are still too many. This shows that we have not yet achieved our 2020 target of zero fatalities.

We all need to promote near-miss reporting and health & safety training, which were still below the targets set. The HSE & CSR Committee strongly encourages IPLOCA members to focus on these matters while adopting behavioral safety programmes which are considered best practice in our industry. Significant work still needs to be done to totally eliminate fatalities in the pipeline industry.

There was only a minor increase in the total recordable incident rates since last year. The committee recognizes these results and highly recommends all members to focus on training and share industry best practice, using the IPLOCA shared experience portal www.iploca.com/hseplatform

Special attention should be put in the 22% of incidents involving falls. On the environmental incidents reporting, the frequency of incidents has decreased for liquid releases and shows a decrease for air and waste releases. The slight increase in the overall training hours (for environment) still falls short of expectations.

There has been a good increase in training hours (for safety) that goes over the 2020 target. It is worth mentioning the increase in the CO_2 calculation and Emission Policies shown this year.

There is no doubt that a commitment to a formal environmental management system (EMS) leads to a reduction in accidental releases, but the statistics indicate an overall increase in applying a formal system such as ISO 14001 or similar. A growing requirement on many pipeline projects is to implement a formal EMS to protect natural resources and minimise the potential for prosecution.

The committee is also seeking to gain a better understanding of the type of environmental incidents occurring and will be collecting more detailed information on the nature of incidents to improve reporting of major and minor environmental incidents. We encourage members to submit best practice environmental case studies onto the HSE portal.

The committee would like to remind members' of the introduction of ISO 45001 in March 2018, which replaces OHSAS 18001. The new standard is the first occupational health and safety standard that is recognised globally and is designed to provide a safe and healthy workplace for employees. The new standard has also been updated to allow smoother integration with other ISO standards such as ISO 9001 (quality) and ISO 14001 (environmental). Organisations already certified to OHSAS 18001 will have until March 2021 to transition to the new ISO 45001 standard, although certification of conformity to ISO 45001 is not a requirement of H&S legislation. The committee is seeking to assist companies to adopt best practice by working together and providing training and networking within the industry to minimise the risks associated with design, construction, operation and decommissioning of pipeline projects.



The 2018 IPLOCA HSE statistics were derived from data provided by 80 Regular Members (96,6% of total Regular Membership), and 7 Associate Members. We encourage you to read through this report in detail and take appropriate, purposeful action for the future.



The number of hours worked during which the employee is present in the work environment as a condition of his or her employment, plus the extra hours put in as overtime.

Leading Indicators



Near Miss: Any event which had the potential to cause injury and/or damage and/or loss but which was avoided by circumstances. The term "incident" includes "near misses".





H&S Training Hours are the number of hours spent by personnel to get trained to H&S standards (includes all the hours spent by all the personnel to get trained).

Lagging Indicators



A fatality is a death resulting from a work injury or occupational illness, regardless of the time intervening between injury and death.

Total Recordable Incidents



Total Recordable Incident cases are calculated with number of Lost Time Injuries (LTI), Medical Treatment Cases (MTC), and Restricted Work Cases (RWC).



Fatality frequency rate (per million worked hours)



2013 2014 2015 2016 2017 **TRIR:** number of TRI x 1 000 000

2018

total worked hours

Lost Time Injury Cases (LTI)



Lost Time Injuries are the sum of fatalities, permanent total disabilities, permanent partial disabilities and lost workday cases. Note: if in a single incident 20 personnel receive Lost Time Injuries, then it is accounted for corporate reporting purposes as 20 LTIs (not 1 LTI).





Description of Incidents/Accidents







Lost Work Days (LWD)



Lost Work Days are the sum of calendar days lost as a result of a work-related accident.

Restricted Work Cases (RWC)



A Restricted Work Case is any work injury, which results in an employee not being able to conduct normal duties, after the day the Incident occurred.

Medical Treatment Cases (MTC)



A medical treatment case is any work related injury that involves neither Lost Work Days nor Restricted Workdays but which required treatment by medical personnel.

Road Traffic Incidents / Accidents (RTA)



A road traffic incident/accident is any incident involving one or more moving vehicles which result in injuries and/or damage to property, vehicle(s) or loads being moved or carried by vehicles. Incidents during travel from camp, home or any other location to and back from the worksite should be included.









4

Health & Safety Management Systems



The ISO 9001 and OHSAS 18001 management system certifications have a high adoption rate – clearly leading certifications in the pipeline industry.

Environment

Environmental Training Hours

Environmental Training Hours 2 1.628 1.314 1.284 millions 0.930 1 0.718 0.692 0 2017 2013 2014 2015 2016 2018

Environmental Training Hours are the number of worked-hours spent by personnel to get trained to environmental standards (includes all the hours spent by all the personnel to get trained).





Environmental Training frequency rate: number of Environmental Training hours x 1 000 000 total worked hours



The ISO 14001 environmental management system certification has a high adoption rate – clearly a leading certification in the pipeline industry.

Environment

Environmental Incidents



Carbon Emissions Calculation

Below is an extract of various methods used by the respondents to calculate their carbon emissions.

 'In accordance with the Australian Federal Government National Greenhouse and Energy Act 2007 (NGER Act)' 'Using an ISO 14064 based software'
'Using US EPA (Environmental Protection Agency) estimation methods'
'Using DEFRA GHG conversion factors' 'Using IPCC Methodology and GHG Protocol Calculation Tools' 'Based on total energy consumption (fuel, gas, electricity)' 'Using the OMEGA TP software' 'Using the Panama Oil Record Book and Emissions according to MARPOL Annex VI'

Disclaimer

Whilst every effort has been made to ensure the accuracy of the information contained in this publication, neither IPLOCA nor any of its members past, present or future warrants its accuracy or will they, regardless of its or their negligence, assume liability for any foreseeable or unforeseeable use made thereof, which liability is hereby excluded. Consequently, such use is at the recipient's own risk on the basis that any use by the recipient constitutes agreement to the terms of this disclaimer. The recipient is obliged to inform any subsequent recipient of such terms.