



28th May 2019, Parma

The International Pipe Line & Offshore Contractors Association

HSE and CSR Committee

www.iploca.com



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PRESENTERS BIOGRAPHY

Name

- Luca Princivalli, Bonatti
- Filippo Levati, Sicim

Title

- HSE

Years Experience

- *44 overall*

Profile

- Representing Bonatti and Sicim in the IPLOCA HSE & CSR Committee, together with colleagues from major Contractors and Clients Companies – 9 Contractors, 1 Supplier and 2 Clients representatives



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All our members have to abide by the IPLOCA Occupational Health and Safety philosophy

We are committed to the Occupational Health and Safety of our people

We believe that all incidents and accidents are avoidable

We believe that leadership is the key for successful Occupational Health and Safety

We believe that everyone is responsible for Occupational Health and Safety



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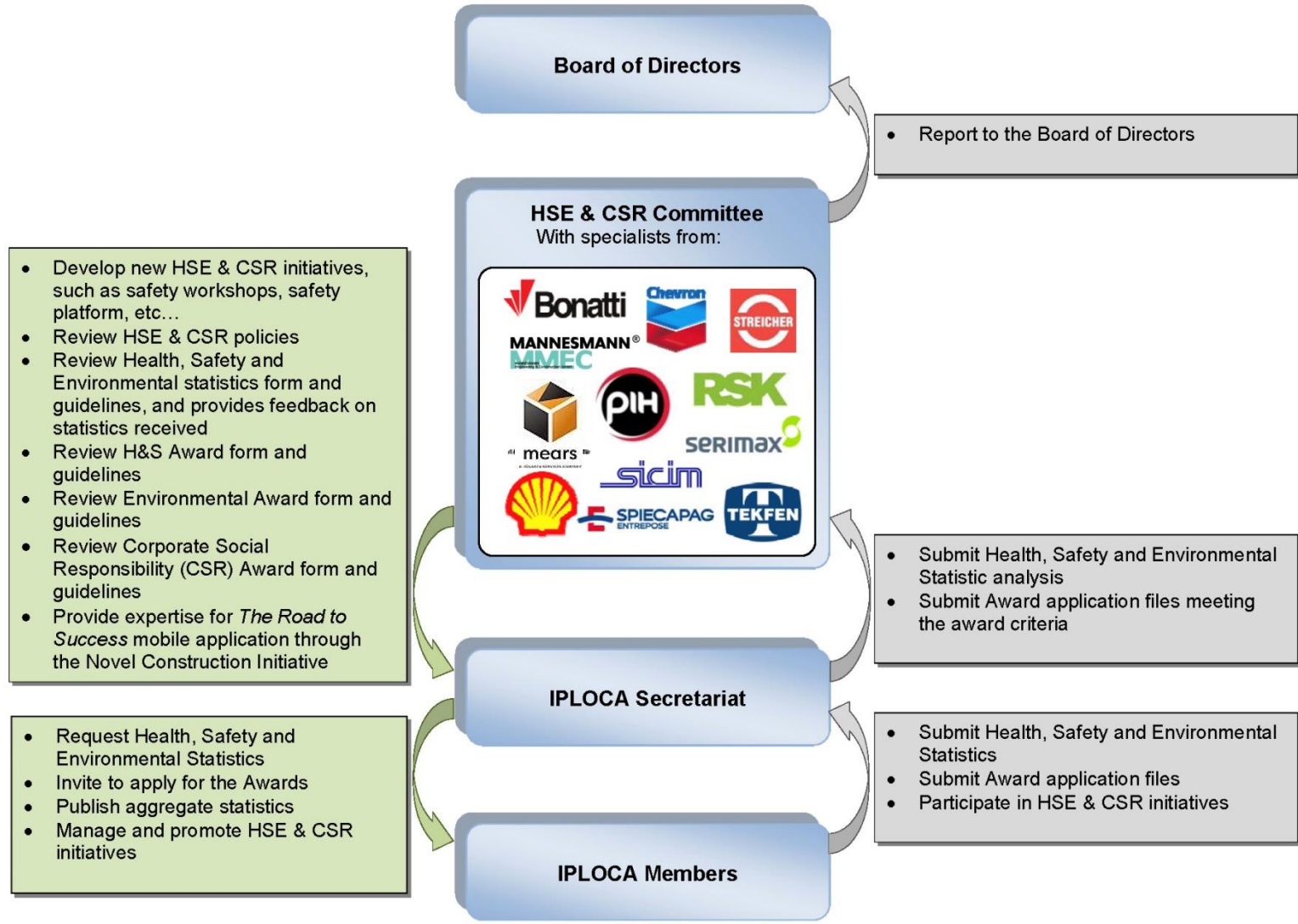


IPLOCA recognizes the pipeline industry's responsibility to the community regarding social and environmental protection and will commit to actively promote the adoption of all practicable measures to ensure that pipeline planning, engineering and construction are conducted efficiently in a sustainable, social and environmentally responsible manner



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- Meet 3 times per year - Two meetings typically with Novel
- Tentatively in March/June, and
- October with HSE Workshop and Novel

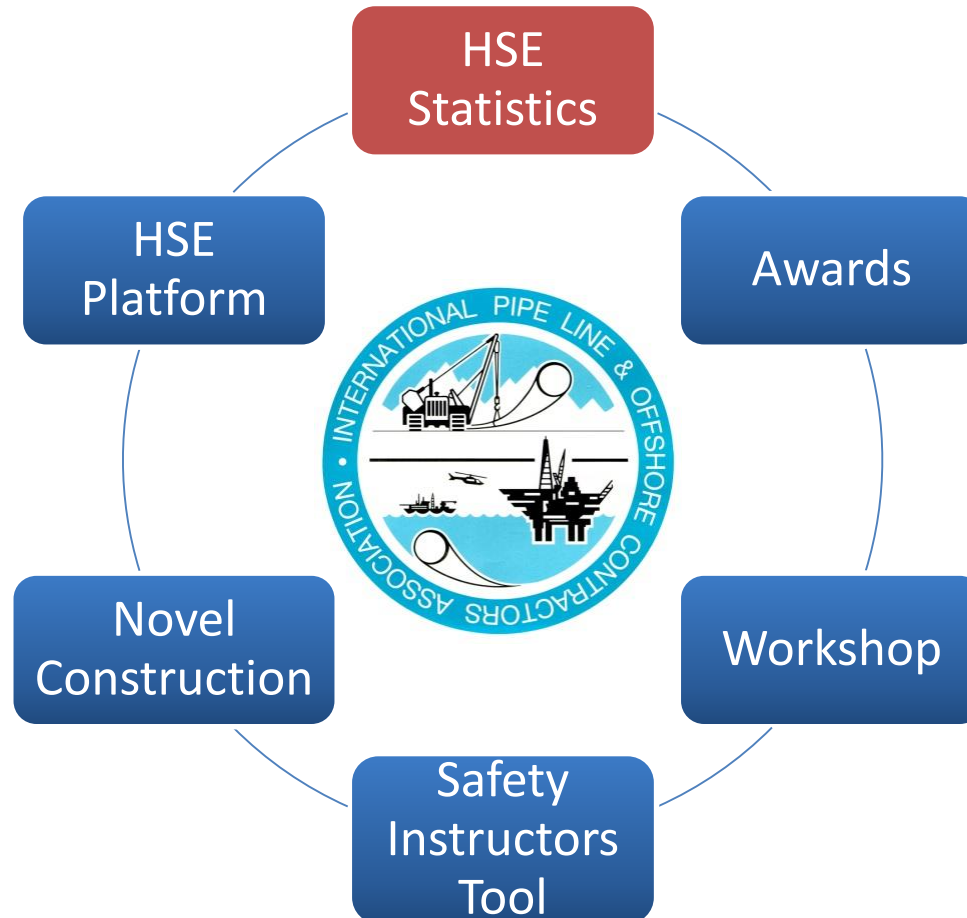


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HSE and CSR Committee Initiatives





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Health, Safety, and Environmental Statistic Annual Reports

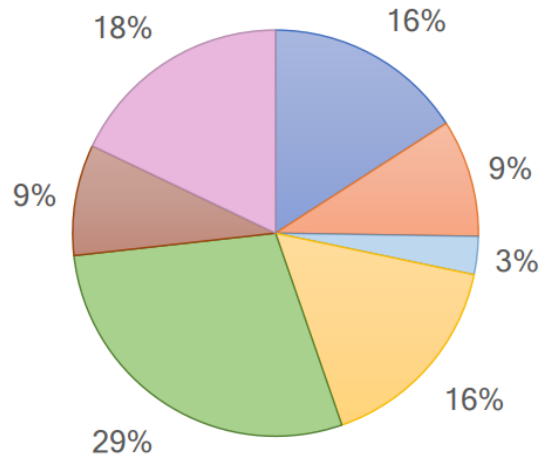
Health & Safety (H&S)

Description of Incidents/Accidents

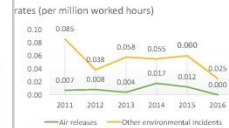
Causes of Incidents/Accidents

- Vehicle accidents
- Lifting Operations
- Work at height / scaffolding
- Hand tool
- Involving fall
- Impact with construction equipment
- Others

Split of LTI

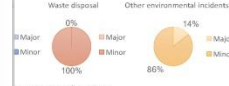


Environment

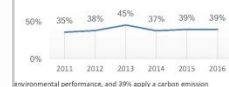


Frequency rates: Incidents x 1,000,000 / hours

Major vs. Minor Environmental Incidents



Application of a Carbon Emission Reduction Policy



2016 IPLOCA Health, Safety & Environment

Message from the HSE Committee

Last year the IPLOCA Board of Directors decided to make the submission of Regular Members as was already the case for the Health & Safety Statistics combined and you will find all the aggregate statistics in one single report.

In 2016, the HSE Committee adopted long term targets for H&S key performance indicators to be undertaken:

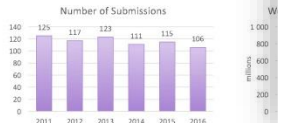
- Lagging indicators: zero fatalities and total recordable incidents rate (TRIR)
- Leading indicators: minimum 30 000 near misses recorded per year and per million worked hours

After an alarming 2015 year, the number of fatalities has more than halved accidents on our work sites, and we are far from the 2020 target. This is definitely a real concern. There is no doubt that accidental releases are likely to increase in our industry, which also remain far from the targets set. There is significant concern in our industry.

The good news is that Lost Time Injuries (LTI) and TRIR have significantly improved by our members. The HSE committee recognises these remarkable achievements.

On the environmental side, there is a general decrease in the number of incidents towards the preservation of the environment, and again the HSE committee recognises these remarkable achievements. However, the continuous reduction, over the last two years, is a real concern. There is no doubt that accidental releases are likely to increase in our industry, which also remain far from the targets set. There is significant concern in our industry.

We encourage you to diligently read through this report in detail and take the necessary actions to improve your performance.



The 2016 IPLOCA HSE statistics were derived from data provided by 94 Regular Members (97% of total Regular Membership), and 12 Associate Members.

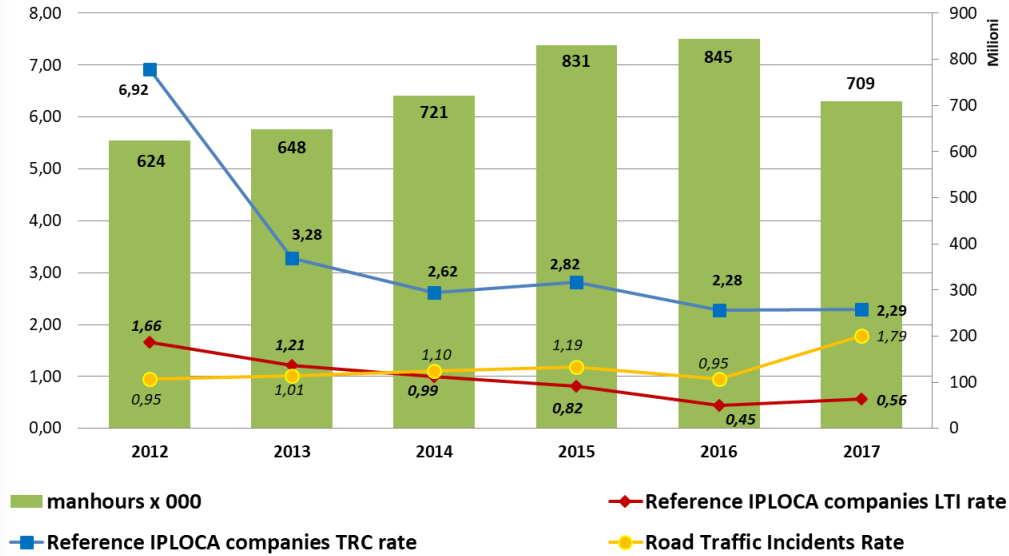
The number of hours worked during which the employee is present in the work environment as a condition of his or her employment, plus the extra hours put in as overtime.



- Reliable benchmarking within Pipeline industry – helps Companies globalization
- Based on wide man-hours db – based on common incidents definition
- More specific than IOGP
- Benchmark both for Sicim and Bonatti

Health, Safety, and Environmental Statistic Annual Reports

INCIDENTS TREND LAST 5 YEARS



IPLOCA STAT 2017

LTIFR	0,56
TRCFR	2,29

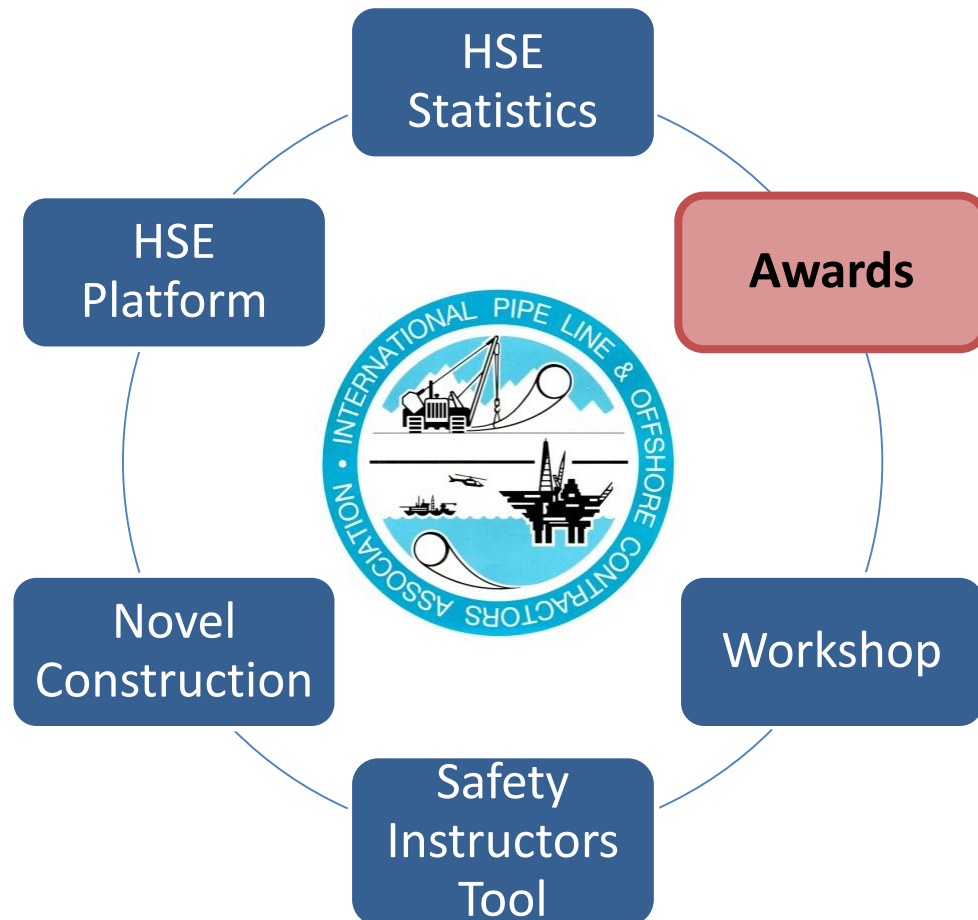


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HSE and CSR Committee Initiatives





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IPLOCA HSE and CSR AWARDS

Giving “value” to our members

- Rewarding those members who are “Leading by example”
- Sharing with all our members all these initiatives
- Helping to identify “what else could be done”



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IPLOCA HSE and CSR AWARDS

Why Participating?

- Easy enrolling process
- Promoting existing innovative company initiatives
- Winners and runner-ups attend the award ceremony that takes place during the annual convention



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**IPLOCA Health & Safety Award
sponsored by Chevron**



- Annual Award
- Rewarding members who submit innovative systems or initiatives
- HSE & CSR Committee reviews entries and designates winner and runners-up
- Entries of the winners are published in our website www.iploca.com



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Health & Safety Award
last Winner





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IPLOCA Environmental Award sponsored by Shell



- Every alternate year Award: 2008 - 2010 – 2012 – 2014 – 2016 - 2018
- Rewarding members who submit innovative systems or initiatives
- HSE & CSR Committee reviews entries and designates winner and runners-up
- Entries of the winners are published in our website www.iploca.com



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Environmental Award last Winner

Go-Green 100% Portable Power Cabin





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Corporate Social Responsibility
Award sponsored by Total



TOTAL



- Every alternate year Award: 2011 – 2013 – 2015 – 2017 - 2019...
- Rewarding creative initiatives with large community impact with small investment
- HSE & CSR Committee reviews entries and designates winner and runners-up
- Entries of the winners will published in our website www.iploca.com



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**Corporate Social Responsibility
Award last Winner**

Global Community Project Fund

IPLOCA
2017 Corporate Social
Responsibility Award



GLOBAL COMMUNITY RELATIONS



FLUOR

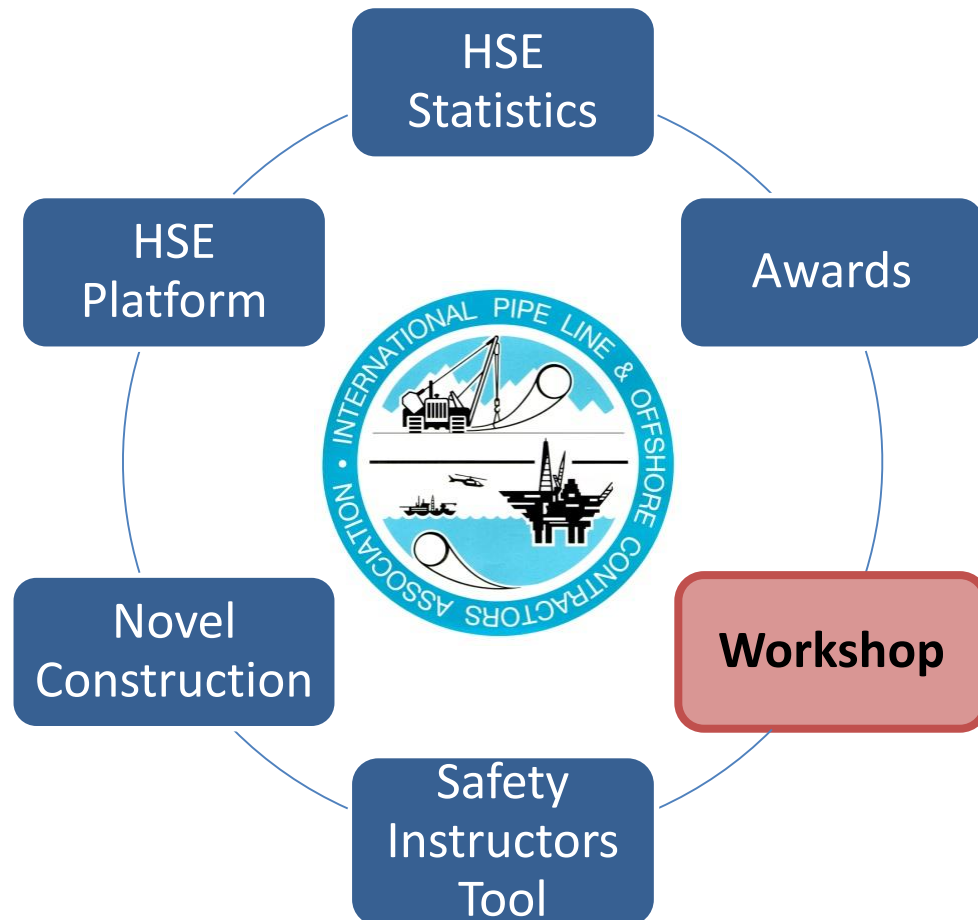


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HSE and CSR Committee Initiatives





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Health, Safety, Environmental Workshop

One day
immersion
22 October 2019

- Targeted to all managers and executives of members
- Clients also invited to attend
- International expert speakers and facilitators



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Health, Safety, Environmental Workshop

One day
immersion
22 October 2019

- Members share lessons learned and actions
- All information posted on the IPLOCA website

www.iploca.com/hseworkshop

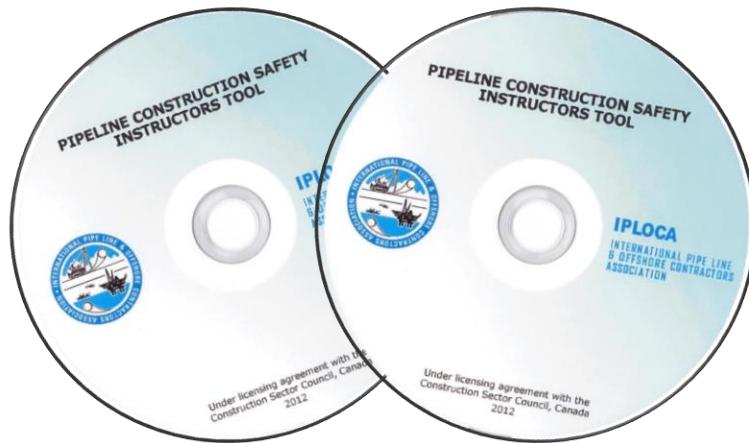


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HSE E-Learning Program



- Training tool for all workers
- Specifically developed for Pipelines
- Includes images and videos
- Adapted to all countries
- Created with the support of Canada
- Can be uploaded on Intranets



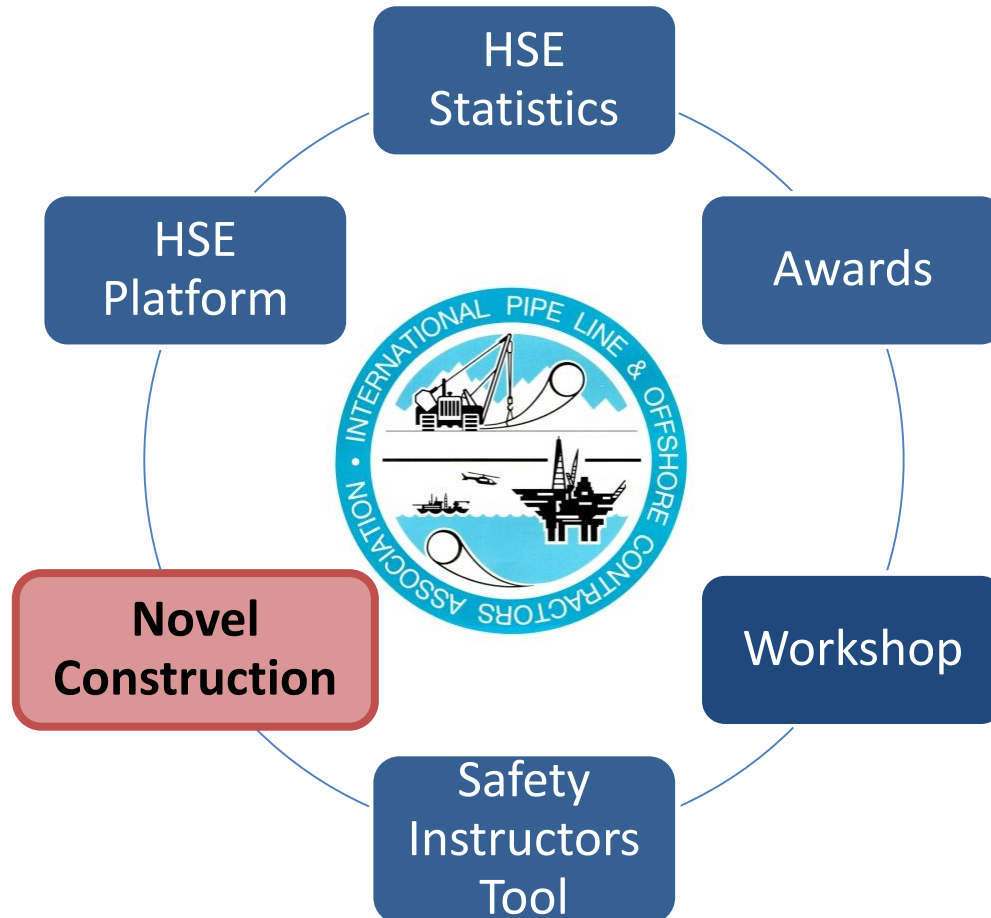


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Novel Construction Initiative

Road To Success

7:32

Staged-Gated Project System

- FEL 1: Business Planning
- FEL 2: Facility Planning
- FEL 3: Project Planning
- Project Execution
- Start-up/Close Operations

Owner/Developer: Engineer, Construction Input, Construction Contractor, Operator

Active Participants

Active participants through the lifecycle of the project have been highlighted above.

2.1 Front-End Loading (FEL) Phases

Some of the key considerations that need to be considered during the three FEL phases include:

2.1.1 Facility Planning FEL1

Before starting a project, the pipeline owner/investor (the body funding the project) must prove the economic viability and need for the project i.e. will the project produce the required revenues and profit? This paragraph captures the reasoning behind initiating the project.

Chapter 2. Development Phases of a Pipeline Project (Page 1 of 16)

Log in

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Bookmarks

A-Z Glossary

About

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LOG IN

Forgot password or no account ?

Read the free part

Contributors to the pipeline construction supply chain from all around the world gather for collaborative sessions to discuss new technologies.

Pipeline specialists shared experiences have been summarized in the format of a smartphone/tablet application.

"The Road to Success" app provides the basic knowledge necessary to improve the delivery of a pipeline construction project.

Health and Safety specialists from the Committee review/comment on health/safety/environmental specific material in chapters.

Most chapters contain "task" or activity specific operative and safety material.

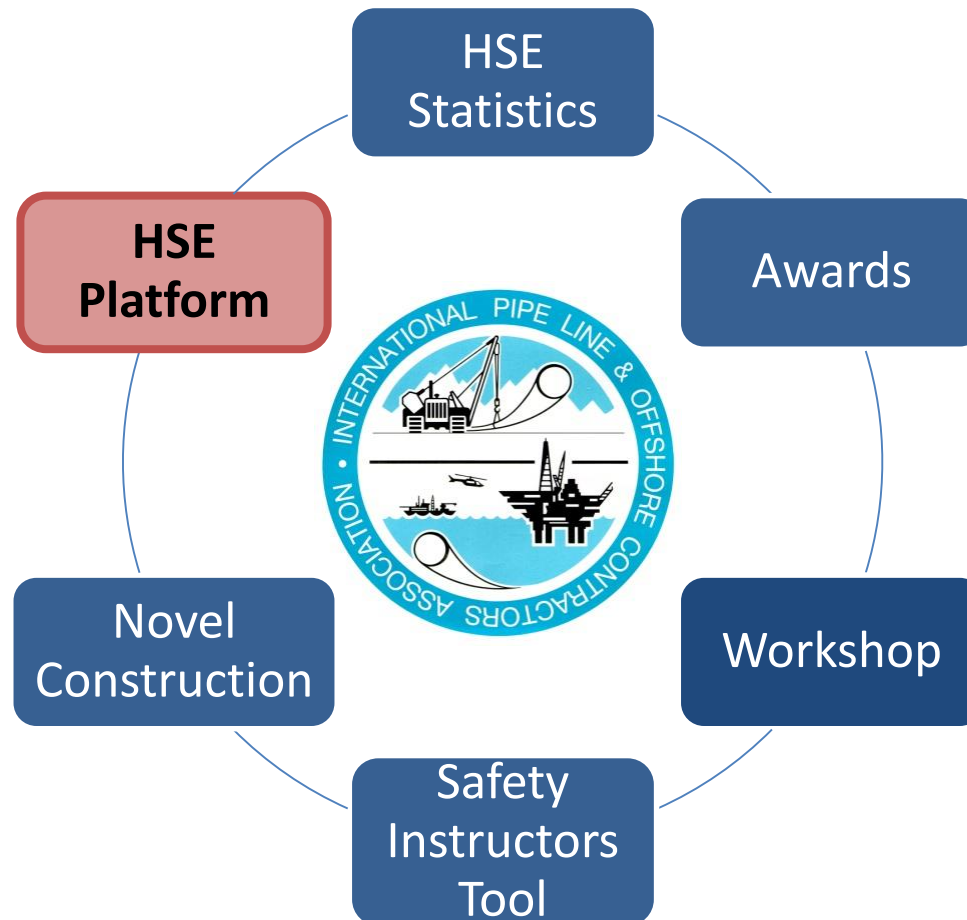


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IPLOCA HSE Shared Experiences

Giving “value” to our members

- On-line system to share HSE experiences
- 260 documents already uploaded
- Available to everyone
- IPLOCA Members can subscribe to notifications



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IPLOCA HSE Shared Experiences

Objectives:

- ✓ Raise awareness of potential HSE issues
- ✓ Avoid common mistakes
- ✓ Reduce illnesses, incidents, accidents and injuries
- ✓ Improve early discovery of emerging events and issues
- ✓ Encourage communication and sharing
- ✓ Consider HSE & CSR solutions and best practices
- ✓ Improve safe work processes and productivity
- ✓ Promote innovative initiatives



IPLOCA HSE Shared Experiences

Share your Experience

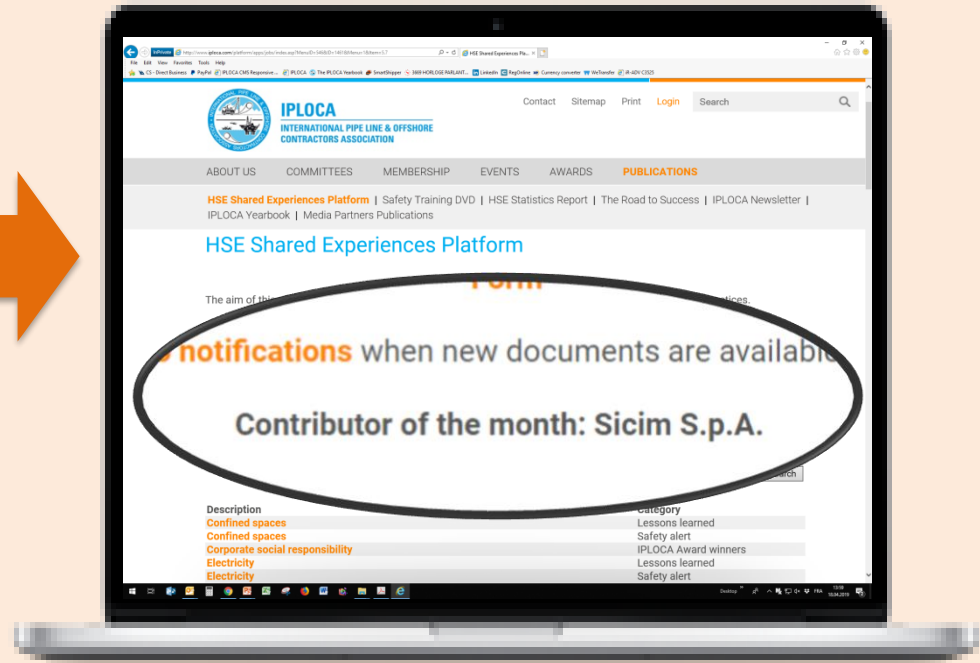
Guidelines
Do's and don't's

Form
Basic information on submission

Template
Sample document for a submission

Notifications
Subscribe to receive updates

Recognition
Monthly contributor





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IPLOCA HSE Shared Experiences

Learn from the Experiences of Others

1) Select a section

2) Review the content

3) Learn and promote



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IPLOCA HSE Shared Experiences

LOCATION : Greece Construction Site	INCIDENT TYPE: RESTRICTED DUTY	DATE: 21/06/2017
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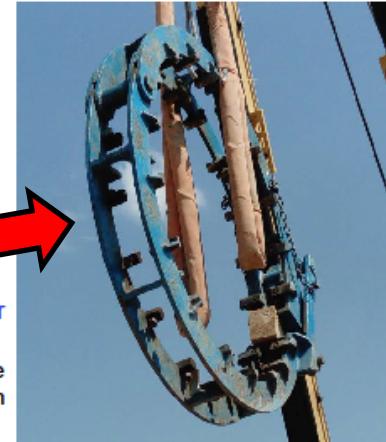
What happened?

During the removal of an external line up clamp on a 48 inches pipeline, the front-end pipe crew – 4 workers - rotated manually the clamp in order to remove it and to place it in another position. Before the clamp was completely removed from the pipe, the finger of one of the worker was trapped among the pipe and the clamp. The worker suffered an injury of the right index finger. The worker was using gloves.

Incident location

Why did it happen?

- ❑ The pipe crew operating the clamp from both sides of the pipe did not have a direct visual contact between themselves.
- ❑ The work was performed inside the canopy, causing restriction in the movements of the workers.
- ❑ Poor communication between the team members operating the clamp, unsynchronized actions, without direct visual contact.
- ❑ The external clamp weight was not considered in the effortless handling to the workers.



External clamp

How to prevent recurrence of similar incidents?

- ❑ The task planning and the level of supervision are critical to raise the awareness of workers involved in such operations.
- ❑ The collection of improvement suggestions from workers, tied in with the incentive scheme and with a reward for the best suggestion should be encouraged.
- ❑ Classroom and on site hand safety training sessions for all personnel specifically involved in tie-ins and in general in the use of clamps, including foremen must be planned.
- ❑ Possible alternative methods for the use of the clamp during alignment and line up of the pipes should be verified.
- ❑ Impact gloves for aligning and coupling activities may provide additional protection for similar activities.
- ❑ Colour coding of the zones on the clamp where is safe to put hands is also recommended



Anti impact gloves

Specific for Pipeline activities

- Confined spaces
- Environment
- Excavation/earth collapse
- Falling and moving objects
- Grinding - Welding operations
- Hand tools
- Hazardous substances
- Hot work
- Hydro tests - Pneumatic tests
- Impact with construction equipment
- Lifting operations
- Lock-out Tag-out (LOTO)
- Manual handling
- Road traffic accidents
- Weather conditions
- Working at height / scaffolding

HSE – is not just what you say, it's what you do!



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Thank You





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