**Petroleum Development Oman LLC**

**MSE3**

**2018 Q1 LTI Incident Analysis Study**

2nd May 2018

Contents

[1 Summary 2](#_Toc515261158)

[2 Analysis 3](#_Toc515261159)

[2.1 Directorate Analysis: 3](#_Toc515261160)

[2.1.1 Directorate Breakdown 3](#_Toc515261161)

[2.1.2 PDO % LTI Profile by Directorate – Q1 2018/Q1 2017 3](#_Toc515261162)

[2.2 LTIs per Operational Teams: 3](#_Toc515261163)

[2.3 PDO v Contractor: 4](#_Toc515261164)

[2.4 Contractor information: 4](#_Toc515261165)

[2.5 LTI Incidents Descriptions: 4](#_Toc515261166)

[2.6 Incident classification : 4](#_Toc515261167)

[2.7 Actual Severity: 5](#_Toc515261168)

[2.8 Potential Severity: 5](#_Toc515261169)

[2.9 BASIC RISK FACTORS (BRF's): 5](#_Toc515261170)

[2.9.1 Comparison table of the BRF Q1 2018 – Q1 2017: 5](#_Toc515261171)

[2.9.2 Comparison graph of the BRF: 6](#_Toc515261172)

[2.10 Job positions:- 6](#_Toc515261173)

[2.11 Parts of body injured:- 6](#_Toc515261174)

[2.12 Time of incidents: 7](#_Toc515261175)

[2.13 Age of IP: 7](#_Toc515261176)

[2.14 Conclusion 8](#_Toc515261177)

# Summary

PDO’s LTIF performance for 2018 Q1 was (0.14), which was a good improvement compared with (0.17) in the Q1 in 2017. PDO suffered 8 LTIs in this first quarter, same as in 2017, but with more man-hours worked in quarter 1 2018. The following analysis of the incidents is designed to identify trends and points of statistical interests to target future resource.

# Analysis

## Directorate Analysis:

### Directorate Breakdown

|  |  |  |
| --- | --- | --- |
| **Directorate** | **Q1** | **YTD of Report** |
| **2018** | **2017** | **% of change** | **2018** | **2017** | **% of change** |
| **UWD** | **4** | **6** | **-33** | **5** | **7** | **-29** |
| **OSD** | **1** | **1** | **0** | **2** | **1** | **+100** |
| **OND** | **1** | **1** | **0** | **1** | **2** | **-50** |
| **UID** | **1** | **0** | **+100** | **1** | **0** | **+100** |
| **CPDM** | **1** | **0** | **+100** | **1** | **0** | **+100** |
| **Total** | **8** | **8** | **0** | **10** | **10** | **0** |

### PDO % LTI Profile by Directorate – Q1 2018/Q1 2017

## LTIs per Operational Teams:

|  |  |
| --- | --- |
| UWD | **4- UWO** |
| OSD | **1-OSE** |
| OND | **1-ONE** |
| UID | **1-UIB** |
| CPD | **1-CKC** |

## PDO v Contractor:

|  |  |
| --- | --- |
|  8  |  PDO contractors  |
| 0  |  PDO employee**s** |

## Contractor information:

There were 8 contractors who suffered LTI incidents YTD.
The breakdown is as follows:-

|  |  |
| --- | --- |
| 1 incident  | ATE, FES, AlHaditha, Galfar, Gulf Drilling, Ba Omar, MBPS, Carillion |

## LTI Incidents Descriptions:

|  |
| --- |
| Burned by a chemical drops into his eyes and cheek resulting in burns to eye |
| Burned by a flash arc from live electrical cable resulting in face and hands burns |
| Fall from a tanker’s ladder while descending resulting in fractured heel |
| Struck by fall arrestor post due to failed piston resulting in fractured left index finger |
| Struck by the JCB’s bucket while disconnecting it resulting in fractured right foot |
| Working platform fall, crushing Rig Managers finger resulting in fracture |
| Slipped while walking on top of pipes, falling between them resulting in fractured leg |
| Struck by the scaffold tube while dismantling it resulting in fractured ring finger |

## Incident classification :

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Incident causing LTI** | **No of LTIs****2018** | **No of LTIs** **2017** | **% change from****2017** |
| **Crush/Trapped** | **1** | **1** | **0** |
| **Slip, Trip, Fall** | **1** | **1** | **0** |
| **Fall from height** | **1** | **0** | **+100** |
| **Struck by object** | **3** | **5** | **-40** |
| **Chemical burns** | **1** | **0** | **+100** |
| **Electrical burn** | **1** | **0** | **+100** |
| **MVI** | **0** | **1** | **-100** |
| **Total** | **8** | **8** | **0** |

## Actual Severity:

|  |  |  |
| --- | --- | --- |
|  | Q1 2018 | Q1 2017 |
| a. | Severity 2 (minor injury) | 1 | 0 |
| b. | Severity 3 (major injury)  | 7 | 8 |

## Potential Severity:

|  |  |  |
| --- | --- | --- |
|  | Q1 2018 | Q1 2017 |
| B4 | Fatality injury, heard of in the industry | 2 | 0 |
| C3  | Major injury, has happened in the company | 4 | 4 |
| C4  | Fatal injury, has happened in the company  | 2 | 1 |
| D3 | Major injury, has happened more than once a year in the company | 0 | 2 |
| D4 | PTD or up to 3 fatality, has happened more than once in the industry | 0 | 1 |

## BASIC RISK FACTORS (BRF's):

### Comparison table of the BRF Q1 2018 – Q1 2017:

|  |  |  |
| --- | --- | --- |
| **BRF** | 2018% | 2017% |
| Design | 3 | 3 |
| Hardware | 3 | 0 |
| Maintenance | 1 | 1 |
| Housekeeping | 0 | 1 |
| Error enforcing conditions | 4 | 4 |
| Procedures | 6 | 7 |
| Training | 2 | 0 |
| Communication | 5 | 8 |
| Incompatible goals | 2 | 3 |
| Organisation | 2 | 5 |
| Defences  | 4 | 3 |

### Comparison graph of the BRF:

## Job positions:-

|  |  |
| --- | --- |
| Driver | 1 |
| Supervisor | 1 |
| Operator | 1 |
| Roustabout | 1 |
| Manager | 1 |
| Electrician | 1 |
| A. Driller | 1 |
| Carpenter | 1 |

## Parts of body injured:-

|  |  |
| --- | --- |
| Fingers | 3 |
| ankle/foot/toe | 2 |
| Eye/face/nose | 2 |
| Knee/Leg  | 1 |

## Time of incidents:

|  |  |
| --- | --- |
| 00:00-04:00 | 1 |
| 08:00 -12:00 | 3 |
| 12:00 - 16:00 | 2 |
| 16:00 - 20:00 | 2 |

## Age of IP:

|  |  |
| --- | --- |
| 20 - 25 | 3 |
| 26 - 30 | 2 |
| 36 - 40 | 3 |

## Conclusion

Although the number of LTIs in the first quarter of 2018 is the same as the last year, we registered the lowest LTIF in recent years. LTI of struck by an object constituting most of our LTI performance. We also have seen a reduction in finger injuries, suffering only three year to date (YTD). The main cause of incidents has been from communication and procedural failures. All other parameters displayed no clustering.

**End of Analysis**