**Petroleum Development Oman LLC**

**YTD Q2 2015 Incident analysis LTI study**

**Summary**

PDO’s LTIF performance YTD 2015 Q2 was (0.31) which was an improvement compared with the rates in Q2 2014 (0.33). By the end of Q2 PDO had suffered 29 LTIs which was one more than in 2014 but with more man-hours worked. The following analysis of the incidents is designed to identify trends and points of statistical interest to target future resource.

**Analysis**

1. **Directorate**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Directorate** | **Q2** | | | **YTD** | | |
| **2015** | **2014** | **% Change** | **2015** | **2014** | **% Change** |
| **UWD** | **13** | **4** | **+225** | **21** | **17** | **+24** |
| **OSD** | **1** | **1** | **0** | **1** | **6** | **-83** |
| **OND** | **0** | **1** | **+100** | **0** | **1** | **-100** |
| **XD** | **1** | **0** | **-100** | **1** | **0** | **-100** |
| **UID** | **3** | **4** | **-25** | **4** | **6** | **-33** |
| **GD** | **0** | **1** | **+100** | **0** | **1** | **+100** |
| **UEOD** | **0** | **0** | **0** | **0** | **0** | **0** |
| **CPDM** | **0** | **0** | **0** | **2** | **0** | **+100** |
| **Total** | **18** | **11** | **+64** | **29** | **31** | **-7** |

1. **LTIs per Operational Teams YTD:-**

|  |  |  |
| --- | --- | --- |
| Sr. No | Directorate | No of LTIs -Team |
| 1 | UWD | **1**- UWX, **10**- UWO, **2**-UWL, **2**-UWB, **1**-UWS, **1**-UWI, **4**-UWC |
| 2 | CPDM | **2-**CRC |
| 3 | UID | **1-**UIR, **2**-UIB, **1**-UIE |
| 4 | XD | **1-**XGO |
| 5 | OSD | **1-**OSC |

1. **PDO v Contractor YTD:-**
   1. 29 - PDO contractors
   2. 0 - PDO employee
2. **Contractor information YTD:-**

There are 22 contractors who suffered LTI incidents YTD  
The breakdown is as follows:-

* 3 incidents – Ba Omar
* 2 incidents – WG-CCC, Ensign, Midwesco, Bahwan Exel.
* 1 incident – MBPS, NDSC, Al Hajiry, Al Turki, Shivani, KCA Deutag, Sahara, Carillion, Powertech, Desert Byrne, Ardiseis, SOFS, Baker Hughes, Worley Parsons, Medco, SPC, Schlumberger, ADS.

1. **Incident description – Action and Injury YTD:-**
   1. Slipped while descending staircase resulting in an injured knee.
   2. Trapped between hose and hand tools board resulting in a fractured finger.
   3. Fell 1.5m from the top of shovel wheel resulting in a fractured wrist.
   4. Fell 1.8m from the top of a trailer resulting in a fractured wrist.
   5. Crushed by a concrete block resulting in a fractured leg.
   6. Trapped between corrosive ring and the tubing hanger resulting in amputated & fractured finger.
   7. Trapped finger between flow line and shale shaker pipe fracturing it.
   8. Prime mover rolled over resulting in a fractured pelvis.
   9. Fell over on moving vehicle (HDU – Hose Deployment Unit) causing fatal head injury.
   10. Struck by a co-flex hose end causing fractures to two toes.
   11. Fell from an engine skid resulting in fractured wrist.
   12. Trapped finger in the radiator fan causing a deep cut.
   13. Trapped finger between the slip handle and his boot causing amputation.
   14. Slipped while walking across the roadway resulting in fractured leg.
   15. Crushed by a metal pipe unloading metal barriers fracturing thumb.
   16. Struck by a chain binder under tension resulting in eye and cheek injury.
   17. Struck by a hose due to residual pressure resulting in fractured jaw.
   18. Trapped finger between the elevator and the tong resulting in fractured finger.
   19. Crushed between supporting leg and catwalk resulting in fractured finger.
   20. Slipped and fell on the x-mas tree fracturing his arm.
   21. Fell from height filling a diesel tank injuring his knee.
   22. Vehicle incident resulted in a fractured forearm.
   23. Struck by top drives lifting loop resulting in fracture arm.
   24. Electrical flash over resulting in burns to the face, neck and hands.
   25. Trapped finger between the mast and the BOP fracturing finger.
   26. Vehicle incident between a pickup & a canter resulting in multiple fractures.
   27. Crushed by a falling pipe resulting in an ankle fracture.
   28. Trapped between a cable and a clamp resulting in finger amputation.
   29. Crushed fingers between substructure and the THS fracturing them.
2. **Parts of body injured YTD:-**

|  |  |  |  |
| --- | --- | --- | --- |
| Hands/fingers | 10 | Knee/Leg | 4 |
| wrist | 3 | pelvis | 1 |
| ankle/foot/toe | 2 | head/neck | 1 |
| eyes/face/nose | 1 | jaw/teeth | 1 |
| thumb | 1 | Elbow/arm | 3 |
| Body | 2 |  |  |

1. **Incident classification YTD:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Type of Incident causing LTI** | **No of LTIs**  **YTD 2015** | **No of LTIs**  **YTD 2014** | **% change from**  **2014** |
| **Crush/Trapped** | **13** | **10** | **30** |
| **Slip, Trip, Fall** | **6** | **7** | **-14** |
| **MVI** | **3** | **4** | **-25** |
| **Struck by object** | **5** | **3** | **66** |
| **Fall from height** | **1** | **2** | **-100** |
| **chemical/heat burns** | **0** | **1** | **-100** |
| **Electrical Burns** | **1** | **0** | **100** |
| **Rotating Equipment** | **0** | **1** | **-100** |
| **Total** | **29** | **31** | **-7** |

1. **Actual Severity YTD:**
2. Severity 2 (minor injury) **0**
3. Severity 3 (major injury) **28**
4. Severity 4 (fatality) **1**

1. **Potential Severity YTD:**

B3 - major injury, Heard of in the industry **0**

C3 - major injury, has happened in the company **28**

C4 - fatal injury, has happened in the company **1**

D2 - minor injury, has happened in the company **0**

D3 - major injury, has happened more than once a year in the company **0**

D4 - PTD or up to 3 fatality, has happened more than once in the industry **0**

1. **Types of underlying causes YTD:**

|  |  |  |  |
| --- | --- | --- | --- |
| **Underlying Cause** | **% Q2 2015** | **% Q2 2014** | **Description of Underlying Cause - Tripod Beta - (Casual review)** |
| **Training** | 14 | 17 | Deficiencies in systems providing knowledge and skills |
| **Incompatible goals** | 18 | 19 | Failure to manage conflict: between formal rules & informal rules of a work group or between demand of a task and personal preoccupations or distractions. |
| **Communication** | 11 | 15 | Failure in effectively transmitting information |
| **Procedures** | 20 | 20 | Unavailable, incorrect, outdated or otherwise unusable |
| **Design** | 14 | 7 | Deficiencies in layout or design of facilities, plant or equipment |
| **Organisation** | 11 | 2 | Deficiencies in company structure or way tasks/responsibilities are assigned |
| **Error enforcing conditions** | 5 | 9 | Time pressure, macho behavior, physical working conditions (hot, noisy etc) promoting errors or violations |
| **Hardware** | 3 | 9 | Inadequate quality or non availability of materials or equipment |
| **Housekeeping** | 3 | 2 | Failures in systems for reduction of the consequences |
| **Maintenance** | 3 | 0 | Failures in the system for ensuring technical integrity of facilities, plant, equip tools. |

1. **Time of incidents YTD:**

|  |  |
| --- | --- |
| 00:00-04:00 | 1 |
| 04:00 -08:00 | 3 |
| 08:00 -12:00 | 13 |
| 12:00 - 16:00 | 5 |
| 16:00 - 20:00 | 4 |
| 20:00 - 00:00 | 3 |

1. **Age of IP YTD:**

|  |  |
| --- | --- |
| 20-25 | 4 |
| 26-30 | 8 |
| 31-35 | 6 |
| 36-40 | 4 |
| 41-45 | 3 |
| 46-50 | 1 |
| 51-60 | 3 |

**Summary**

Q2 has been a very bad month for PDO, with 64% more lost time injuries than last year, wiping out the improved performance from Q1. Well Engineering and injuries to their hands and fingers remain a major concern and the majority can be avoided by being more mindful of the hazards. The morning hours have seen by far the most incidents and most are down to people taking shortcuts or not following the rules

**End of Analysis**