

# **Petroleum Development Oman LLC**

## **MSE3**

### **2018 Q2 LTI Incidents Analysis Study**

## 2 Contents

1	Summary .....	3
2	Analysis .....	3
2.1	Directorate Analysis: .....	3
2.1.1	Directorate Breakdown .....	3
2.1.2	PDO % LTI Profile by Directorate – Q2 2018/Q2 2017 .....	3
2.2	LTIs per Operational Teams: .....	4
2.3	PDO v Contractor: .....	4
2.4	Contractor information: .....	4
2.5	LTI Incidents Descriptions: .....	4
2.6	Incident classification : .....	5
2.7	Actual Severity: .....	5
2.8	Potential Severity: .....	5
2.9	BASIC RISK FACTORS (BRF's): .....	6
2.9.1	Comparison table of the BRF Q2 2018 – Q2 2017: .....	6
2.9.2	Comparison graph of the BRF: .....	6
2.10	Job positions:- .....	7
2.11	Parts of body injured:- .....	7
2.12	Time of incidents: .....	8
2.13	Age of IP: .....	8
2.14	Conclusion .....	9

## 1 Summary

PDO's Lost Time Injury Factor (LTIF) performance for the second quarter of 2018 was (0.13), which was a good improvement compared with (0.23) in the same period in 2017. PDO suffered 8 LTIs in this second quarter, 6 less than second quarter in 2017, but with more man-hours worked in the second quarter in 2018.

The following analysis of the incidents is designed to identify trends and points of statistical interests to target future resources.

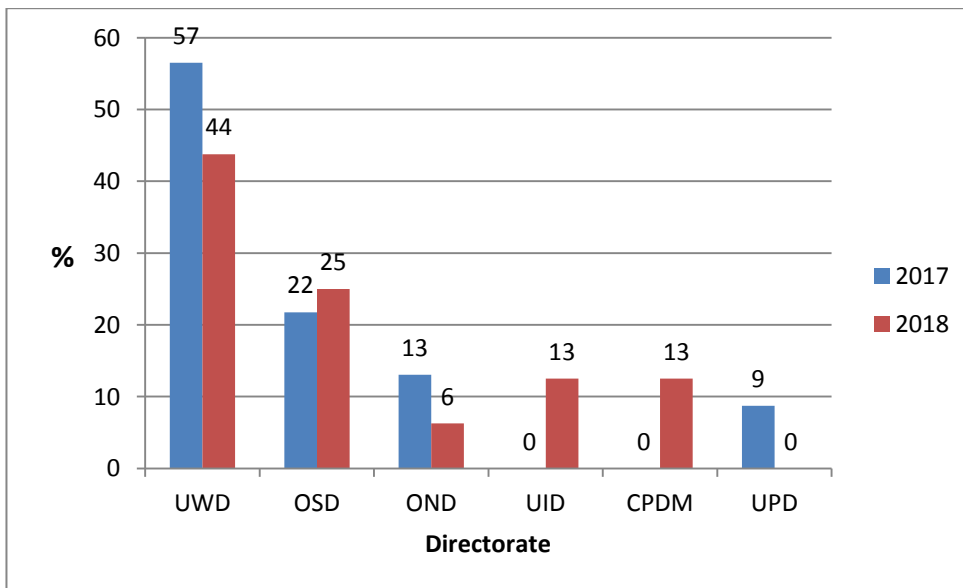
## 2 Analysis

### 2.1 Directorate Analysis:

#### 2.1.1 Directorate Breakdown

Directorate	Q2			YTD of Report		
	2018	2017	% of change	2018	2017	% of change
UWD	3	7	-57	7	13	-46
OSD	2	4	-33	4	5	-20
OND	0	2	-200	1	3	-67
UID	0	0	0	2	0	+100
CPDM	3	0	+300	2	0	+100
UPD	0	1	-100	0	2	-200
<b>Total</b>	<b>8</b>	<b>14</b>	<b>-39</b>	<b>16</b>	<b>23</b>	<b>-30</b>

#### 2.1.2 PDO % LTI Profile by Directorate - Q2 2018/Q2 2017



## 2.2 LTIs per Operational Teams (YTD):

UWD	<b>UWO (7)</b>
OSD	<b>OSE (4)</b>
OND	<b>ONE (1)</b>
UID	<b>UIB (2)</b>
CPD	<b>CKC (2)</b>

## 2.3 PDO v Contractor:

PDO contractors	16
PDO employees	0

## 2.4 Contractor information:

There were 11 contractors who suffered LTI incidents YTD. The breakdown is as follows:-

4 incidents	ATE
2 incidents	Abraj, Gulf Drilling
1 incident	FES, AlHaditha, Galfar, Ba Omar, MBPS, Carillion, AIP, BE

## 2.5 LTI Incidents Descriptions (YTD):

1	Burned by a chemical drops into his eyes and cheek resulting in burns to eye
2	Burned by a flash arc from live electrical cable resulting in face and hands burns
3	Fall from a tanker's ladder while descending resulting in fractured heel
4	Struck by fall arrestor post due to failed piston resulting in fractured left index finger
5	Struck by the JCB's bucket while disconnecting it resulting in fractured right foot
6	Working platform fall, crushing Rig Managers finger resulting in fracture
7	Slipped while walking on top of pipes, falling between them resulting in fractured leg
8	Struck by the scaffold tube while dismantling it resulting in fractured ring finger
9	Crushed by the drilling pipe falling from the catwalk resulting in fractured leg.
10	Struck by a concrete pole while unloading from a trailer resulting in fatality.
11	Fall on the arm from the trailer while landing resulting in fractured wrist.
12	MVI of a tanker at the roundabout resulting in multiples injuries.
13	Crushed by the guy line in the rig resulting in fractured little finger.
14	Struck by the winch line while aligning them resulting in fractured forearm.
15	Burned while making Chapatti in the kitchen resulting in 3 <sup>rd</sup> degree burns.
16	Trapped by the water tanker's pump resulting in fingers amputation.

## 2.6 Incident classification (YTD):

Type of Incident causing LTI	No of LTIs 2018	No of LTIs 2017	% change from 2017
Crush/Trapped	4	10	-60
Slip, Trip, Fall	1	6	-83
Fall from height	2	0	+100
Struck by object	5	5	0
Chemical burns	1	0	+100
Electrical burns	1	0	+100
Fire burns	1	0	+100
MVI	1	2	-50
<b>Total</b>	<b>16</b>	<b>23</b>	<b>-30</b>

## 2.7 Actual Severity (YTD):

		Q2 2018	Q2 2017
a.	Severity 2 (minor injury)	1	0
b.	Severity 3 (major injury)	14	23
c.	Severity 4 (Fatality)	1	0

## 2.8 Potential Severity :

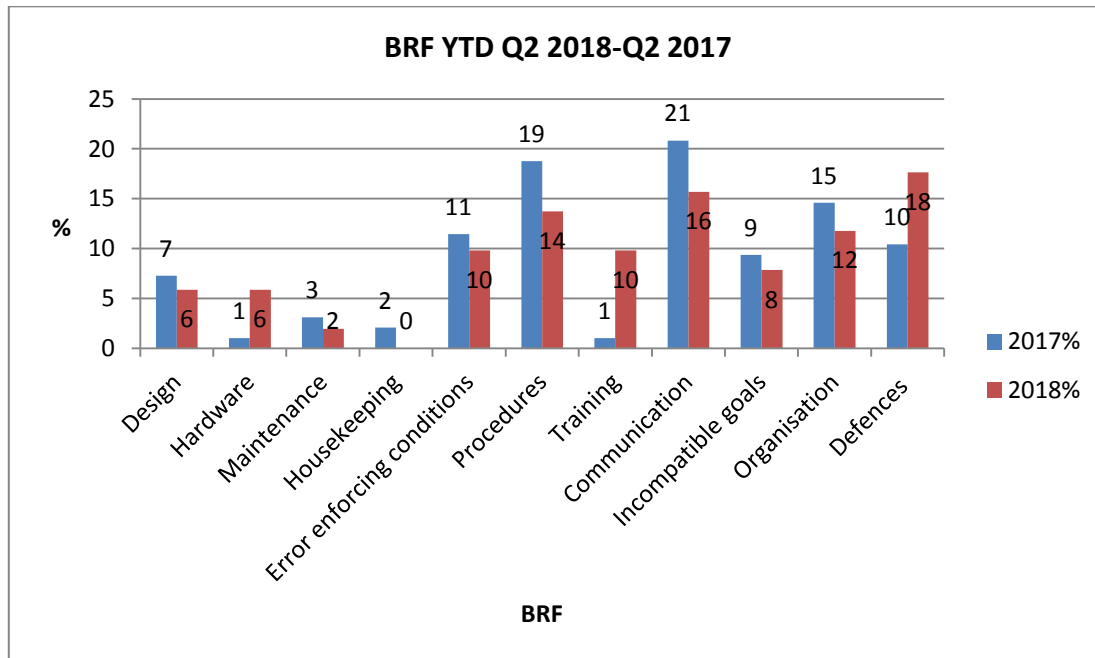
		Q2 2018	Q2 2017
B4	Fatality injury, heard of in the industry	0	0
C3	Major injury, has happened in the company	9	19
C4	Fatal injury, has happened in the company	5	1
D3	Major injury, has happened more than once a year in the company	1	2
D4	PTD or up to 3 fatality, has happened more than once in the industry	1	1

## 2.9 BASIC RISK FACTORS (BRF's):

### 2.9.1 Comparison table of the BRF Q2 2018 – Q2 2017 YTD:

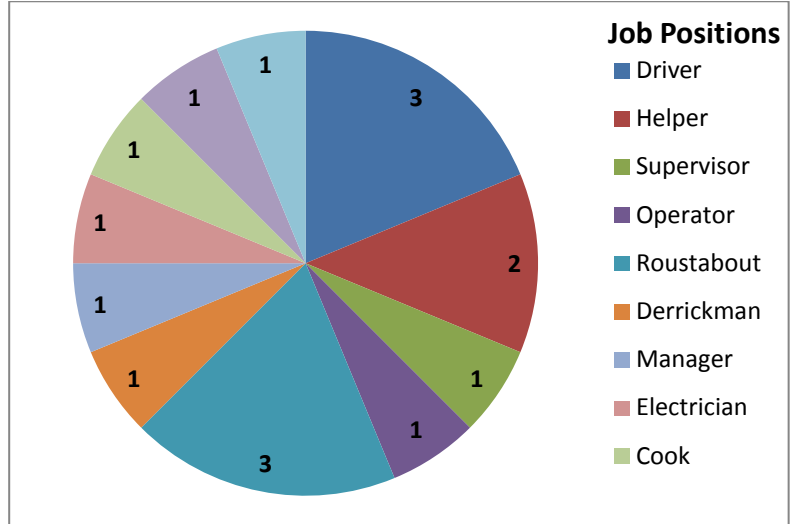
BRF	YTD 2018	YTD 2017
Design	3	7
Hardware	3	1
Maintenance	1	3
Housekeeping	0	2
Error enforcing conditions	5	11
Procedures	7	18
Training	5	1
Communication	8	20
Incompatible goals	4	9
Organisation	6	14
Defences	9	10

### 2.9.2 Comparison graph of the BRF YTD:



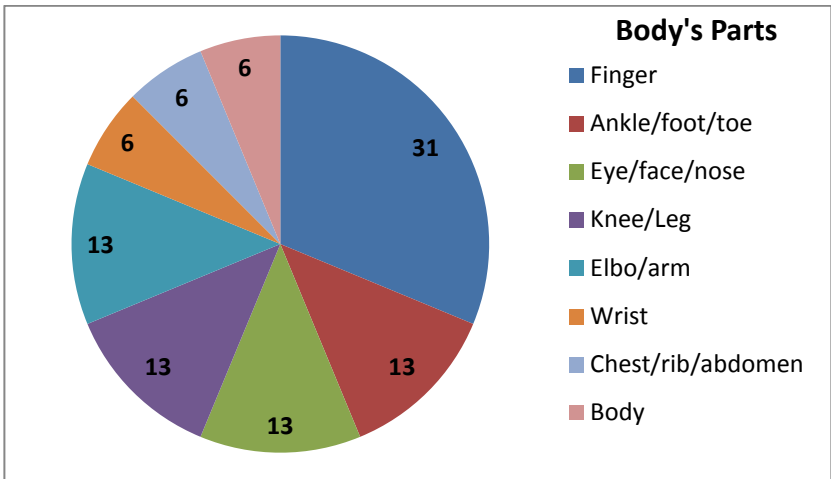
## 2.10 Job positions:-

Driver	3
Helper	2
Supervisor	1
Operator	1
Roustabout	3
Manager	1
Electrician	1
A. Driller	1
Carpenter	1
Derrickman	1
Cook	1



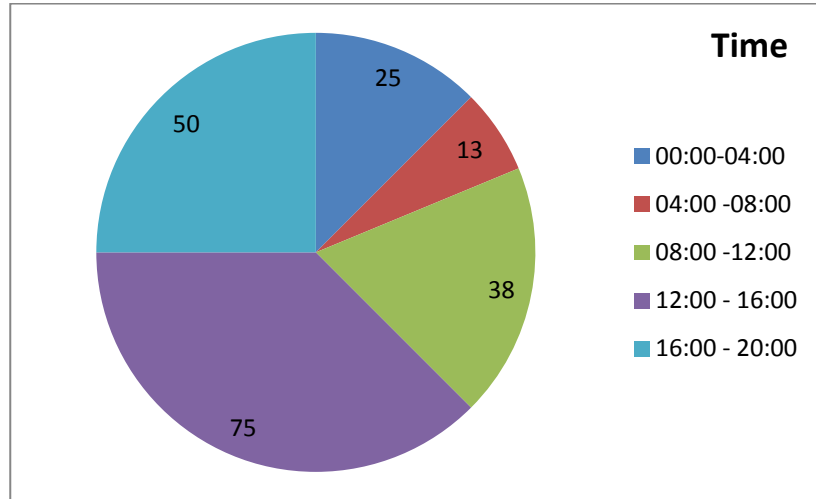
## 2.11 Parts of body injured:-

Fingers	5
ankle/foot/toe	2
Eye/face/nose	2
Knee/Leg	2
Elbow/arm	2
Wrist	1
chest/rib/abdomen	1
Body	1



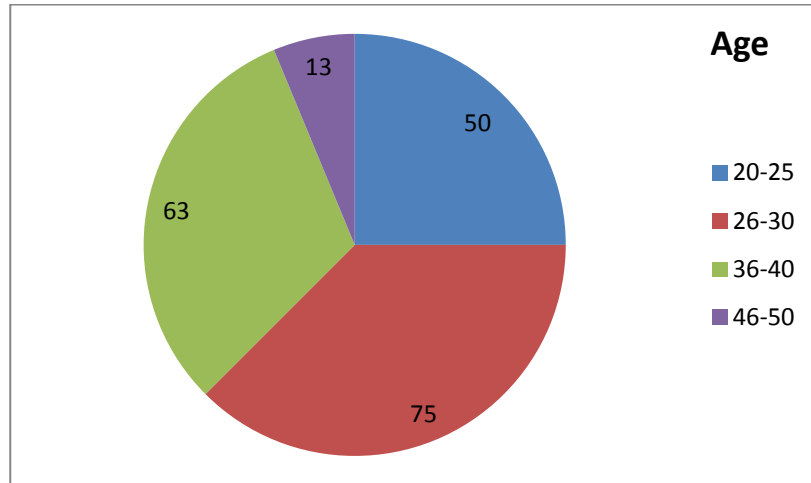
## 2.12 Time of incidents:

00:00-04:00	2
04:00 -08:00	1
08:00 - 12:00	3
12:00 - 16:00	6
16:00 – 20:00	4



## 2.13 Age of IP:

20 - 25	4
26 - 30	6
36 - 40	5
46-50	1





## 2.14 Conclusion

- PDO achieved the lowest LTIF ever in the PDO history this quarter.
- UWD has the credit for reducing their incidents rate by 11% comparing to Q2 2017.
- The Central Project Delivery directorate (CPDM) and Infrastructure directorate (UID) saw an increase in their incidents both by 13%.
- The Gas directorate (GD) had a successful YTD records with ZERO LTIs.
- No PDO incidents YTD for this year comparing with 4 incidents same period in 2017.
- “Struck by object” is the most activity that caused the LTIs.
- The most risk factor which caused the incidents were still “Communication” followed by “Procedure”.
- “Fingers” continue to be the most injured body part.
- All other parameters displayed no clustering.

**End of Analysis**