

Petroleum Development Oman LLC

MSE3

2017-Q1 LTI Incident Analysis Study

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1. Summary

PDO's LTIF performance for 2017 Q1 was (0.16) which was a significant improvement compared with (0.22) in the first Q1 in 2016. PDO suffered 8 LTIs in this first quarter, 2 more than the same period in 2016, 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.

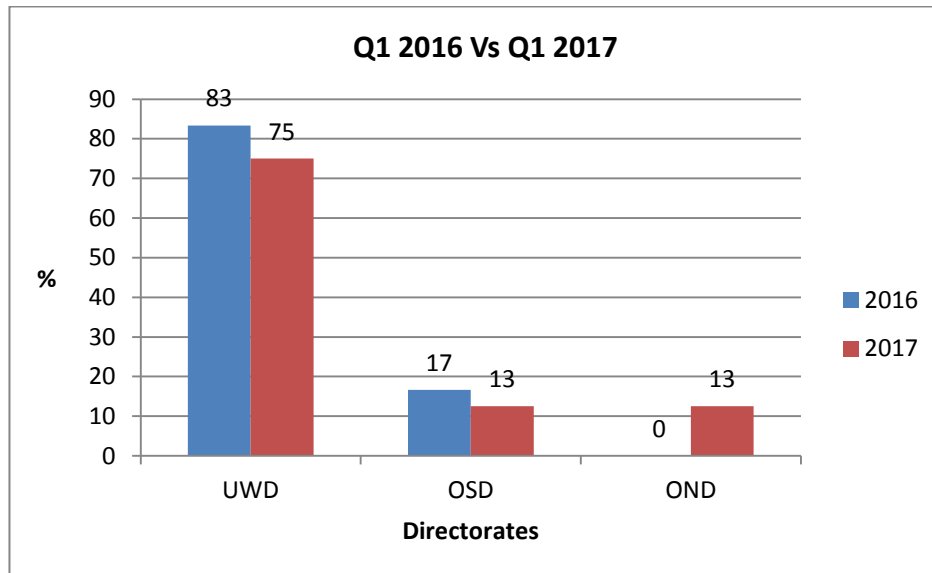
2. Analysis

2.1 Directorate Analysis

2.1.1 Directorate Breakdown

Directorate	Q1			YTD		
	2017	2016	% of change	2017	2016	% of change
UWD	6	5	20	6	5	20
OSD	1	1	0	1	1	0
OND	1	0	100	1	0	100
Total	8	6	33	8	6	33

2.1.2 PDO % LTI Profile by Directorate – Q1 2017/Q1 2016



2.2 LTIs per Operational Teams YTD:

UWD	5- UWO, 1-UWN
OSD	1-OSO
OND	1-ONE

2.3 PDO v Contractor YTD:

7	PDO contractors
1	PDO employee

2.4 Contractor information YTD:

There were 6 contractors who suffered LTI incidents YTD in addition to PDO. The breakdown is as follows:

1 incident	PDO Insourcing, Abraj, Petrogas, Sea & Land, Galfar, Halliburton
2 incidents	Shaleem Petroleum Company

2.5 LTI Incidents Descriptions YTD:

Trapped between the BOP table and BOP screws resulting in a fractured finger.
Tripped and fall from the back of the truck resulting in a fractured wrist.
Struck by a pipe which was pulling out of sand dune resulting in a fractured leg.
Struck by a falling piece of metal weighing 24 kg resulting in a fractured foot.
Motor Vehicle Incident (MVI) resulting in back injury.
Struck by a pipe which was driven over by a tanker resulting in a fractured foot.
Struck by the trailer's side panel while opening resulting in a fractured femur.
Struck by the steering wheel of the trailer resulting in fractured finger.

2.6 Incident classification YTD:

Type of Incident causing LTI	No of LTIs YTD 2017	No of LTIs YTD 2016	% change from 2016
Crush/Trapped	1	2	-50
Slip, Trip, Fall	1	0	+100
Fall from height	0	3	-100
Struck by object	5	1	+400
MVI	1	0	+100
Total	8	6	+33

2.7 Actual Severity YTD:

		Q1 2017	Q1 2016
a.	Severity 2 (minor injury)	0	0
b.	Severity 3 (major injury)	8	6
c.	Severity 4 (fatality)	0	0

2.8 Potential Severity YTD:

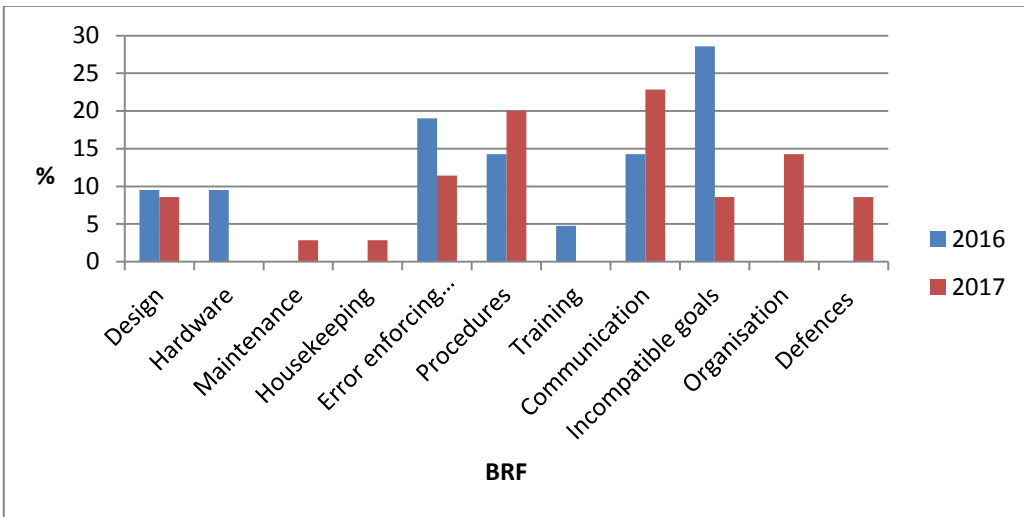
		Q1 2017	Q1 2016
B3	Major injury, heard of in the industry	0	0
C3	Major injury, has happened in the company	4	6
C4	Fatal injury, has happened in the company	1	0
D3	Major injury, has happened more than once a year in the company	2	0
D4	PTD or up to 3 fatality, has happened more than once in the industry	1	0

2.9 BASIC RISK FACTORS (BRF's) YTD:

2.9.1 Comparison table of the BRF Q 2016 – Q1 2017:

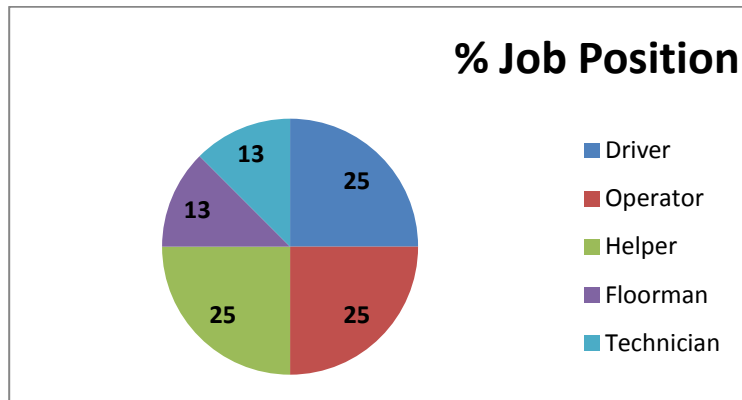
BRF	2017%	2016%
Design	9	10
Hardware	0	10
Maintenance	3	0
Housekeeping	3	0
Error enforcing conditions	11	19
Procedures	20	14
Training	0	5
Communication	23	14
Incompatible goals	9	29
Organisation	14	0
Defences	9	0

2.9.2 Comparison graph of the BRF:



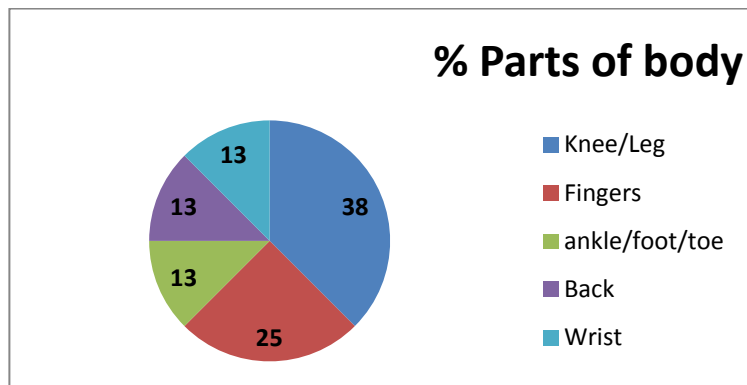
2.10 Job positions YTD:-

Driver	2
Operator	2
Helper	2
Floorman	1
Technician	1



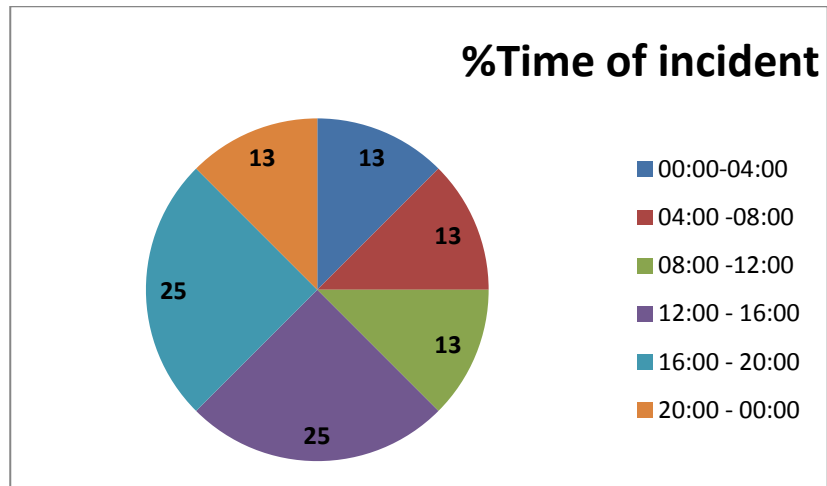
2.11 Parts of body injured YTD:-

Knee/Leg	3
Fingers	2
ankle/foot/toe	1
Back	1
Wrist	1



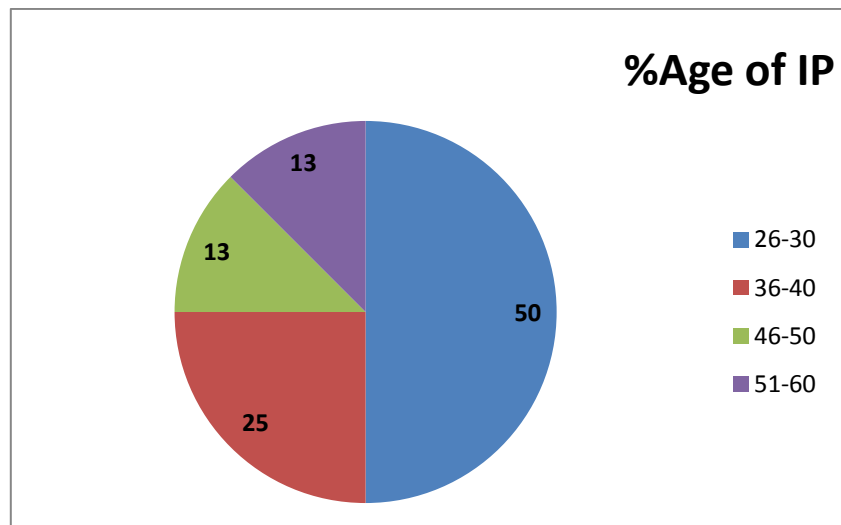
2.12 Time of incidents YTD:

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



2.13 Age of IP YTD:

26-30	4
36-40	2
46-50	1
51-60	1



2.14 General Observation

Quarter 1 2017 has seen a different incident profile emerging, with struck by an object constituting more than half of our LTI performance and we have suffered only two finger injuries. The main cause of incidents has been from communication and procedural issues. All other parameters displayed no clustering.

End of Analysis