IADC ISP PROGRAM
2013

Summary of Occupational Incidents
(Middle East Land Totals)

Issued 20 May 2014
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IADC 2013 Middle East Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>91,602,953</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>117</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>113</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>62</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>4</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>296</td>
</tr>
</tbody>
</table>

**Incidence Rates:**
- MTO Incidence Rate: 0.26
- RWC Incidence Rate: 0.25
- LTI Incidence Rate: 0.14
- LTI Frequency Rate: 0.72
- DART Incidence Rate: 0.39
- DART Frequency Rate: 1.95
- Recordable Incidence Rate: 0.65
- Recordable Frequency Rate: 3.23

**Companies Reporting:** Land – 23

Medical Treatment Incidence Rate = MTOs X 200,000
Restricted Work Incidence Rate = RWCs X 200,000
Lost Time Incidence Rate = LTIs + FTLs X 200,000
DART Incidence Rate = LTIs + RWC X 200,000
Recordable Incidence Rate = RCRD X 200,000

Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Frequency Rate = RCRD X 1,000,000

Middle East Land Total LTI & Recordable Incidence Rates vs Man-hours (Figure 1)
Middle East Land Total Lost Time Incidents by Month (Chart 1)

Based on 62 Incidents

- December: 3.23%
- November: 11.29%
- October: 8.06%
- September: 8.06%
- August: 8.06%
- July: 9.68%
- June: 11.29%
- May: 8.06%
- April: 6.45%
- March: 8.06%
- February: 11.29%
- January: 6.45%
Middle East Land Total Recordable Incidents by Month (Chart 2)
Based on 296 incidents

- December: 5.41%
- November: 9.46%
- October: 9.80%
- September: 7.43%
- August: 8.11%
- July: 9.80%
- June: 9.80%
- May: 9.46%
- April: 7.77%
- March: 9.12%
- February: 7.43%
- January: 6.42%
- October: 9.80%
- September: 7.43%
Middle East Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 62 Incidents

- Catering / Camp Personnel: 1.61%
- Maintenance Super: 1.61%
- Crane / Forklift Operator: 1.61%
- Mechanic: 4.84%
- Electrician: 4.84%
- Toolpusher (Asst.TP, Tourpusher): 4.84%
- Driller (Asst. Dr.): 9.68%
- Derrickman: 8.06%
- Truck Driver / Pusher: 3.23%
- Floorman: 32.26%
- Roustabout (Lease Hand): 16.13%
- Other: 11.29%
Middle East Land Total Recordable Incidents by Occupation (Chart 4)
Based on 296 Incidents

- Floorman: 33.78%
- Catering / Camp Personnel: 5.07%
- Derrickman: 8.78%
- Driller (Asst. Dr.): 7.09%
- Toolpusher (Asst. TP, Tourpusher): 3.38%
- Electrician: 3.04%
- Mechanic: 5.74%
- Motorman: 0.68%
- Electrician: 3.04%
- Crane / Forklift Operator: 1.69%
- Rig Helper: 0.34%
- Truck Driver / Pusher: 2.36%
- Welder: 1.69%
- Maintenance Super: 0.68%
- Deck Supervisor (Deck Coordinator): 0.34%
- Medic: 0.34%
- Other: 6.08%
- Roustabout (Lease Hand): 18.58%
- Catering / Camp Personnel: 5.07%

Based on 296 Incidents.
Middle East Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 62 Incidents

- Finger(s) 24.19%
- Finger(s) 24.19%
- Hand(s) / Wrist(s) 8.06%
- Head 4.84%
- Back 4.84%
- Trunk/Torso (chest, abdomen, groin) 8.06%
- Arm(s) 6.45%
- Hand(s) / Wrist(s) 8.06%
- Arm(s) 6.45%
- Toes 1.61%
- Shoulder(s) 1.61%
- Elbow(s) 1.61%
- Knee(s) 3.23%
- Other 4.84%
- Other 4.84%
- Feet/Ankles 17.74%
- Leg(s) 12.90%
- Back 4.84%
- Head 4.84%

Based on 62 Incidents:

- Shoulder(s) 1.61%
- Toes 1.61%
- Elbow(s) 1.61%
- Knee(s) 3.23%
- Other 4.84%
- Head 4.84%
- Back 4.84%
- Trunk/Torso (chest, abdomen, groin) 8.06%
- Arm(s) 6.45%
- Hand(s) / Wrist(s) 8.06%
- Feet/Ankles 17.74%
- Leg(s) 12.90%
- Finger(s) 24.19%
Middle East Land Total Recordable Incidents by Body Part (Chart 6)
Based on 296 Incidents

- Finger(s): 37.50%
- Hand(s) / Wrist(s): 10.14%
- Trunk/Torso (chest, abdomen, groin): 3.38%
- Back: 3.38%
- Head: 12.84%
- Eyes (eyelid): 2.36%
- Other: 3.38%
- Other: 3.38%
- Arm(s): 3.38%
- Leg(s): 7.77%
- Feet/Ankles: 11.15%
- Toes: 1.01%
- Neck: 0.34%
- Elbow(s): 0.34%
- Shoulder(s): 2.03%
- Knee(s): 1.01%
Middle East Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 62 Incidents

- Caught Between/In: 30.65%
- Struck By: 29.03%
- Slip/Fall: Different Level: 16.13%
- Slip/Fall: Same Level: 4.84%
- Contact With Chemicals/Fluids: 1.61%
- Cut: 1.61%
- Sprain: 1.61%
- Other: 3.23%
- Struck Against: 9.68%
Middle East Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 295 Incidents

- Struck Against: 7.12%
- Slip/Fall: Same Level: 4.07%
- Slip/Fall: Different Level: 10.51%
- Strain/Overexertion: 1.02%
- Contact With Chemicals/Fluids: 0.68%
- Electrical Shock: 0.34%
- Debris: 0.34%
- Cut: 4.75%
- Sprain: 4.75%
- Vehicle: 0.68%
- Sprain: 4.75%
- Caught On: 0.34%
- Other: 2.37%
- Heat Exhaustion/Heat Stroke: 0.34%
- Struck By: 27.12%
- Caugh Between/In: 35.25%
- Struck Against: 7.12%
Middle East Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 62 Incidents

Other 32.26%
Rig Floor Winch/Deck Winch (air/hydraulic) 3.23%
Top Drive (blocks, swivel, kelly) 3.23%
Chemicals (sack, drum, pail, bulk hopper) 1.61%
Decks (grating, walkway) 1.61%
Ladders 3.23%
Forklift 1.61%
Crane 6.45%
Pressure Hoses/Lines 1.61%
Tongs 6.45%
Slips (drill collar clamp) 1.61%
Pipes/Collars/Tubulars/Csg. 6.45%
Slings (rope, cable, chain, web) 1.61%
Hand Tools: Manual 4.84%
Engines/Pumps/Machinery 3.23%
Boat 1.61%
Car, truck, bus 8.06%
Kelly Bushings (master bushing) 1.61%
Stairs 4.84%
BOP Stack (well head, tree) 3.23%
Material 1.61%
Middle East Land Total Recordable Incidents by Equipment (Chart 10)
Based on 296 Incidents

Anchor Chains/Cables/Winches 0.68%
Rig Floor Winch/Deck Winch (air/hydraulic) 2.36%
Other 30.74%
Anchor Chains/Cables/Winches 0.68%
Top Drive (blocks, swivel, kelly) 2.03%
Chemicals (sack, drum, pail, bulk hopper) 1.35%
Welding, Cutting, Grinding Equipment 0.68%
Decks (grating, walkway) 3.04%
Forklift 1.35%
Crane 2.36%
Ladders 2.70%
Pressure Hoses/Lines 1.01%
Material 0.68%
Slips (drill collar clamp) 0.68%
Slings (rope, cable, chain, web) 4.73%
Cathead/Drawworks 1.01%
Pipes/Collars/Tubulars/Csg. 10.47%
Engines/Pumps/Machinery 3.04%
Hand Tools: Manual 9.80%
Hand Tools: Power 0.34%
Boat 1.01%
Car, truck, bus 3.04%
Iron Roughneck, Pipe Spinner, etc. 1.01%
Rotary 1.01%
BOP Stack (well head, tree) 2.70%
Kelly / Master Bushings 0.68%
Elevators 1.35%
Spinning Chain 0.68%
Middle East Land Total Lost Time Incidents by Operation (Chart 11)
Based on 62 Incidents

- Other: 12.90%
- Travel/Transportation: 9.68%
- Making Connection: 8.06%
- Routine Drilling Oper.: 3.23%
- Running Casing/Tubing: 4.84%
- Laying Down/Picking up Tubulars: 1.61%
- Material Handling: Manual: 1.61%
- Material Handling: Crane/Cherry Picker: 1.61%
- Rigging Up/Down: 22.58%
- BOP Stack Install/Maintenance: 4.84%
- Equipment Repairs or Maintenance: 8.06%
- Cementing: 3.23%
- Mud Mixing/Pumping: 3.23%
- Walking: 4.84%
Middle East Land Total Recordable Incidents by Operation (Chart 12)
Based on 296 Incidents

- **Travel/Transportation**: 3.72%
- **Other**: 10.14%
- **Tripping in/out**: 9.80%
- **Making Connection**: 3.72%
- **Routine Drilling Oper.**: 5.07%
- **Running Casing/Tubing**: 4.39%
- **Laying Down/Picking up Tubulars**: 5.74%
- **Material Handling: Manual**: 5.07%
- **Material Handling: Crane/Cherry Picker**: 3.04%
- **Material Handling: Forklift**: 0.68%
- **Material Handling: Rig Floor Winch**: 0.34%
- **BOP Stack Install/Maintenance**: 7.09%
- **Rigging Up/Down**: 16.89%
- **Equipment Repairs or Maintenance**: 8.78%
- **Mud Mixing/Pumping**: 2.36%
- **Cementing**: 1.35%
- **Special Operations**: 0.68%
- **Training**: 0.34%
- **Walking**: 10.81%
Middle East Land Total Lost Time Incidents by Location (Chart 13)
Based on 62 Incidents

- Rig Floor: 35.48%
- Rig Pad/Rig Decks: 9.68%
- Cherry Picker/Crane: 1.61%
- Fuel/Water Storage Tanks: 1.61%
- Other: 4.84%
- Catwalk/V-door: 3.23%
- Derrick/Mast: 3.23%
- BOP Stack /well head/tree Area: 3.23%
- Mud Mixing Tank/Area: 4.84%
- Mud Pits/Tanks: 1.61%
- Work Rooms change, storage, room: 1.61%
- Engine Generator Room: 1.61%
- Cellar / Sub / Moonpool: 8.06%
- Stairs/Ladders: 1.61%
- Camp / Accommodation Areas: 3.23%
- Truck, Car, Bus: 9.68%
- Pipe Rack/Pipe Deck: 4.84%
- Engine Generator Room: 1.61%
Middle East Land Total Recordable Incidents by Location (Chart 14)
Based on 296 incidents

- Rig Floor: 32.09%
- Work Rooms change, storage, room: 1.35%
- Cellar / Sub / Moonpool: 6.08%
- Engine Generator Room: 1.35%
- Stairs/Ladders: 1.69%
- Mud Pump Room: 2.03%
- Cherry Picker/ Crane: 1.69%
- Fuel/Water Storage Tanks: 0.68%
- Pontoon: 0.68%
- Living/Camp Areas/Accommodations: 10.81%
- Mud Mixing Tank/Area: 3.04%
- Mud Pits/Tanks: 2.70%
- Shale Shaker: 1.35%
- BOP Stack /well head/tree Area: 4.05%
- Staircase/Ladders: 1.69%
- Cherry Picker/Crane: 1.69%
- Fuel/Water Storage Tanks: 0.68%
- Pontoon: 0.68%
- Living/Camp Areas/Accommodations: 10.81%
- Engine Generator Room: 1.35%
- Stairs/Ladders: 1.69%
- Mud Pump Room: 2.03%
- Cellar / Sub / Moonpool: 6.08%
- Work Rooms change, storage, room: 1.35%
- Rig Pad/Rig Decks: 9.46%
- Catwalk/V-door: 5.07%
- Derrick/Mast: 3.04%
- BOP Stack /well head/tree Area: 4.05%
- Staircase/Ladders: 1.69%
- Fuel/Water Storage Tanks: 0.68%
- Other: 5.41%
- Mud Mixing Tank/Area: 3.04%
- Mud Pits/Tanks: 2.70%
Middle East Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 56 Incidents

- 0 mo. < 3 mos.: 16.07%
- >3 mos. < 6 mos.: 7.14%
- >6 mos. < 1 yr.: 10.71%
- >1 yr. < 5 yrs.: 32.14%
- >5 yrs. < 10 yrs.: 21.43%
- >10 yrs.: 12.50%
Middle East Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 283 Incidents

- 0 mo. < 3 mos.: 9.19%
- >3 mos. < 6 mos.: 8.48%
- >6 mos. < 1 yr.: 10.95%
- >1 yr. < 5 yrs.: 38.52%
- >5 yrs. < 10 yrs.: 22.61%
- 10+ yrs.: 10.25%
Middle East Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 62 Incidents

14:00 9.68%
13:00 8.06%
22:00 3.23%
24:00 1.61%
1:00 4.84%
2:00 1.61%
3:00 1.61%
5:00 1.61%
6:00 1.61%
7:00 1.61%
8:00 4.84%
10:00 4.84%
11:00 4.84%
12:00 8.06%
13:00 8.06%
14:00 9.68%
15:00 3.23%
16:00 6.45%
17:00 9.68%
18:00 9.68%
19:00 1.61%
20:00 6.45%
21:00 3.23%
22:00 1.61%
23:00 1.61%
24:00 1.61%

Middle East Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 294 Incidents

- 7:00: 4.76%
- 8:00: 4.76%
- 9:00: 4.08%
- 10:00: 4.76%
- 11:00: 7.82%
- 12:00: 5.10%
- 13:00: 5.10%
- 14:00: 4.76%
- 15:00: 4.76%
- 16:00: 4.76%
- 17:00: 6.12%
- 18:00: 4.08%
- 19:00: 2.38%
- 20:00: 4.42%
- 21:00: 4.76%
- 22:00: 3.06%
- 23:00: 2.72%
- 24:00: 1.36%
- 0:00: 1.36%
- 1:00: 4.08%
- 2:00: 4.08%
- 3:00: 3.06%
- 4:00: 3.06%
- 5:00: 3.74%
- 6:00: 3.06%
- 7:00: 4.76%

Based on 294 Incidents