IADC
ISP PROGRAM
2015
Summary of Occupational Incidents
(Africa Land Totals)

Issued 15 July 2016
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IADC 2015 **AFRICA LAND PARTICIPANT DETAIL BY CATEGORY** .......... **ERROR! BOOKMARK NOT DEFINED.**
IADC 2015 Africa Land Totals (Table 1)

<table>
<thead>
<tr>
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<th>Total</th>
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<tbody>
<tr>
<td>Total Man-hours</td>
<td>29,734,165</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>32</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>82</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>55</td>
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<tr>
<td>Total Fatalities</td>
<td>3</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>172</td>
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</tbody>
</table>

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>MTO Incidence Rate</td>
<td>0.22</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.55</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.39</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>1.95</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.94</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>4.71</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>1.16</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>5.78</td>
</tr>
</tbody>
</table>

Companies Reporting:  Land – 12

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

Africa Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2015 Africa Land Charts
Africa Land Total Lost Time Incidents by Month (Chart 1)
Based on 55 Incidents

- January: 16.36%
- February: 14.55%
- March: 18.18%
- April: 7.27%
- May: 1.82%
- June: 10.91%
- July: 7.27%
- August: 16.36%
- September: 3.64%
- October: 1.82%
- November: 1.82%
- December: 1.82%
Africa Land Total Recordable Incidents by Month (Chart 2)
Based on 171 Incidents

- January: 12.87%
- February: 14.04%
- March: 11.11%
- April: 8.77%
- May: 5.26%
- June: 8.77%
- July: 9.94%
- August: 14.62%
- September: 4.09%
- October: 2.92%
- November: 4.09%
- December: 3.51%
Africa Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 55 Incidents

- Roustabout (Lease Hand): 18.18%
- Floorman: 29.09%
- Derrickman: 12.73%
- Driller (Asst. Dr.): 18.18%
- Toolpusher / Tourpusher: 3.64%
- Electrician: 3.64%
- Superintendent / other Supervisors: 1.82%
- Catering / Camp Personnel: 1.82%
- Crane / Forklift Operator: 1.82%
- Mechanic: 9.09%
- Catering / Camp Personnel: 1.82%
- Floorman: 29.09%
Africa Land Total Recordable Incidents by Occupation (Chart 4)
Based on 171 Incidents

- Driller (Asst. Dr.) 15.79%
- Floorman 27.49%
- Derrickman 10.53%
- Floorman 27.49%
- Driller (Asst. Dr.) 15.79%
- Toolpusher / Tourpusher 2.92%
- Electrician 2.34%
- Mechanic 7.02%
- Crane / Forklift Operator 1.17%
- Superintendent/other Supervisors 2.34%
- Roustabout (Lease Hand) 23.39%
- Rig Helper 0.58%
- Truck Driver / Pusher) 1.17%
- Catering / Camp Personnel 2.92%
- Medic 0.58%
- Truck Helper 0.58%
- Welder 1.17%
- Rig Helper 0.58%
Africa Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 55 Incidents

- Finger(s) 34.55%
- Hand(s) / Wrist(s) 10.91%
- Leg(s) 16.36%
- Arm(s) 5.45%
- Trunk/Torso (chest, abdomen, groin) 1.82%
- Shoulder(s) 3.64%
- Feet/Ankles 10.91%
- Back 7.27%
- Head 7.27%

Total: 100%
Africa Land Total Recordable Incidents by Body Part (Chart 6)
Based on 171 Incidents

- Finger(s) 28.07%
- Hand(s) / Wrist(s) 14.62%
- Arm(s) 5.26%
- Back 5.26%
- Trunk/Torso (chest, abdomen, groin) 2.34%
- Head 11.70%
- Shoulder(s) 5.26%
- Neck 0.58%
- Feet/Ankles 9.36%
- Leg(s) 8.19%
- Skin 0.58%
- Eyes (eyelid) 2.34%
- Digestive/Internal 1.17%
- Lungs/Respiratory 1.17%
- Knee(s) 1.75%
- Elbow(s) 2.34%
- Shoulders 5.26%

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Africa Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 55 Incidents

Caught Between/In 30.91%
Vehicle 1.82%
Slip/Fall: Same Level 21.82%
Struck Against 5.45%
Struck By 21.82%
Slip/Fall: Different Level 14.55%
Cut 3.64%
Vehicle 1.82%
Africa Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 169 Incidents

- Struck By: 29.99%
- Struck Against: 3.55%
- Caught Between/In: 26.04%
- Slip/Fall: Same Level: 15.38%
- Slip/Fall: Different Level: 9.47%
- Strain/Overexertion: 3.55%
- Contact With Chemicals/Fluids: 1.18%
- Electrical Shock: 0.59%
- Heat/Steam (contact/exposed): 1.18%
- Vehicle: 2.37%
- Cut: 1.78%
- Debris: 1.78%
- Jump: 0.59%
- Exposure to Gas: 1.18%
- Sprain: 1.78%
- Struck By: 29.59%
Africa Land Total Recordable Incidents by Equipment (Chart 10)
Based on 152 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic): 1.97%
- Boat Cargo (skids, tubulars, containers, etc.): 0.66%
- Anchor Chains/Cables/Winches: 0.66%
- Welding, Cutting, Grinding Equipment: 0.66%
- Chemicals (sack, drum, pail, bulk hopper): 0.66%
- Decks (grating, walkway): 2.63%
- Ladders: 2.63%
- Welding, Cutting, Grinding Equipment: 0.66%
- Chemicals (sack, drum, pail, bulk hopper): 0.66%
- Forklift: 1.97%
- Crane: 1.97%
- Pressure Hoses/Lines: 3.95%
- Material: 7.89%
- Well Control (BOP) Stack (well head, tree): 3.95%
- Stairs: 4.61%
- Car, truck, bus: 4.61%
- Engines/Pumps/Machinery: 6.58%
- Hand Tools: Power: 1.97%
- Hand Tools: Manual: 13.16%
- Elevators: 4.61%
- Slips (drill collar clamp): 1.32%
- Spinning Chain: 0.66%
- Iron Roughneck, Pipe Spinner, etc.: 1.32%
- Pipes/Collars/Tubulars/Csg.: 10.53%
- Cathead/Drawworks: 1.32%
- Slings (rope, cable, chain, web): 7.24%
Africa Land Total Lost Time Incidents by Operation (Chart 11)
Based on 54 Incidents

- Walking 11.11%
- Travel/Transport 3.70%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.) 9.26%
- Making Connection 9.26%
- Routine Drilling Operations 5.56%
- Running Casing/Tubing (rig up/down csg. tools) 7.41%
- Laying Down/Picking up Pipe/Tubulars 9.26%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance 1.85%
- Rigging Up/Down (rig move preparation, rig move) 5.56%
- Material Handling: Forklift 5.56%
- Material Handling: Manual 1.85%
- Material Handling: Crane/Cherry Picker 3.70%
- Mud Mixing/Pumping 1.85%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance 1.85%
- Rig/Equipment Repairs or Maintenance 22.22%
- Routine Drilling Operations 5.56%
- Making Connection 9.26%
- Rigging Up/Down (rig move preparation, rig move) 5.56%
- Material Handling: Forklift 5.56%
- Material Handling: Manual 1.85%
- Material Handling: Crane/Cherry Picker 3.70%
Africa Land Total Recordable Incidents by Operation (Chart 12)
Based on 165 Incidents

- Travel/Transportation: 4.24%
- Rig/Equipment Repairs or Maintenance: 18.18%
- Mud Mixing/Pumping: 1.21%
- Special Operations (wireline, perforating, etc.): 0.61%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 4.24%
- Rigging Up/Down (rig move preparation, rig move): 7.27%
- Material Handling Rig Floor: 2.42%
- Material Handling Forklift: 3.64%
- Material Handling Crane/Cherry Picker: 3.63%
- Material Handling Manual: 7.88%
- Routine Drilling Ops: 7.88%
- Running Casing/Tubing (rig up/down csg. tools): 6.06%
- Laying Down/Picking up Pipe/Tubulars: 4.24%
- Making Connection: 6.67%
- Cementing: 0.61%
- Walking: 6.67%
- Tripping in/out: 15.15%
- Routine Drilling Ops: 7.88%
Africa Land Total Lost Time Incidents by Location (Chart 13)
Based on 53 Incidents

- Forklift: 1.89%
- Rig Floor (rotary, pipe set back area): 39.62%
- Catwalk/V-door: 7.55%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 3.77%
- Pipe Rack/Pipe Deck: 3.77%
- Stairs/Ladders: 3.77%
- Well Control (BOP) Stack (well head/tree) Area: 5.66%
- Mud Mixing Tank/Area: 5.66%
- Mud Pits/Tanks: 3.77%
- Engine Room/Generator Room: 1.89%
- Living/Camp Areas/Accommodations: 3.77%
- Rig Pad/Rig Decks (rig/well site/location, yard): 5.66%
- Work Rooms (change house, storage house/room): 1.89%
- Machinery Spaces: 1.89%
- Jacking House: 1.89%
- Fuel/Water Storage Tanks: 1.89%
- Mud Pump Room: 3.77%
Africa Land Total Recordable Incidents by Location (Chart 14)
Based on 167 Incidents

- Rig Floor (rotary, pipe set back area): 33.33%
- Cherry Picker/Crane: 1.21%
- Forklift: 0.61%
- Catwalk/V-door: 5.45%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 3.64%
- Rig Pad/Rig Decks (rig/well site/location, yard): 8.48%
- Truck, Boat, Car, Bus, Vehicle: 4.85%
- Cellar/Substructure/Moonpool: 4.85%
- Living/Camp Areas/Accommmodations: 4.85%
- Work Rooms (change house, storage house/room): 3.03%
- Shale Shaker: 1.82%
- Engine Room/Generator Room: 1.21%
- Mud Pits/Tanks: 3.03%
- Well Control (BOP) Stack (well head/free) Area: 6.06%
- Mud Mixing Tank/Area: 4.24%
- Machinery Spaces: 2.42%
- Fuel/Water Storage Tanks: 1.21%
- Stairs/Ladders: 2.42%
- Engine Room/Generator Room: 1.21%
- Cellar/Substructure/Moonpool: 4.85%
- Living/Camp Areas/Accommmodations: 4.85%
- Work Rooms (change house, storage house/room): 3.03%
- Shale Shaker: 1.82%
- Engine Room/Generator Room: 1.21%
- Mud Pits/Tanks: 3.03%
- Well Control (BOP) Stack (well head/free) Area: 6.06%
- Machinery Spaces: 2.42%
- Fuel/Water Storage Tanks: 1.21%
- Stairs/Ladders: 2.42%
Africa Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 55 Incidents

- 10+ yrs.: 30.91%
- >5 yrs. < 10 yrs.: 30.91%
- >1 yr. < 5 yrs.: 21.82%
- >6 mos. < 1 yr.: 12.73%
- >3 mos. < 6 mos.: 1.82%
- 0 mo. < 3 mos.: 1.82%
Africa Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 171 Incidents
Africa Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 55 Incidents

12:00 9.09%
13:00 3.64%
14:00 7.27%
15:00 3.64%
16:00 7.27%
17:00 7.27%
18:00 5.45%
19:00 5.45%
20:00 3.64%
21:00 3.64%
22:00 1.82%
23:00 9.09%
01:00 3.64%
02:00 1.82%
03:00 3.64%
04:00 1.82%
05:00 1.82%
06:00 3.64%
07:00 1.82%
08:00 1.82%
09:00 5.45%
10:00 5.45%
11:00 5.45%
12:00 9.09%
Africa Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 170 Incidents
Africa Land Total Lost Time Incidents by Age (Chart 19)
Based on 54 Incidents

- 26 - 35: 44.44%
- 36 - 45: 35.19%
- 46 - 55: 14.81%
- 56 - 65: 3.70%
- 18 - 25: 1.85%
Africa Land Total Recordable Incidents by Age (Chart 20)
Based on 159 Incidents

- 18 - 25: 8.18%
- 26 - 35: 52.20%
- 36 - 45: 28.30%
- 46 - 55: 8.81%
- 56 - 65: 2.52%