Summary of Occupational Incidents
(Asia Pacific Land Totals)

Issued 15 June 2015
Table of Contents

(Table of Contents is Hyperlinked, Just click on Topic & go)

IADC 2014 Asia Pacific Land Totals (Table 1) ............................................................... 1
   Asia Pacific Land Total Incidence Rates vs Man-hours (Figure 1) ......................... 1
IADC 2014 Asia Pacific Land Charts ............................................................................. 2
   Asia Pacific Land Total Lost Time Incidents by Month (Chart 1) ......................... 2
   Asia Pacific Land Total Recordable Incidents by Month (Chart 2) ....................... 3
   Asia Pacific Land Total Lost Time Incidents by Occupation (Chart 3) ................. 4
   Asia Pacific Land Total Recordable Incidents by Occupation (Chart 4) ............... 5
   Asia Pacific Land Total Lost Time Incidents by Body Part (Chart 5) ................. 6
   Asia Pacific Land Total Recordable Incidents by Body Part (Chart 6) ............... 7
   Asia Pacific Land Total Lost Time Incidents by Incident Type (Chart 7) ............ 8
   Asia Pacific Land Total Recordable Incidents by Incident Type (Chart 8) ........... 9
   Asia Pacific Land Total Lost Time Incidents by Equipment (Chart 9) ............. 10
   Asia Pacific Land Total Recordable Incidents by Equipment (Chart 10) .......... 11
   Asia Pacific Land Total Lost Time Incidents by Operation (Chart 11) .............. 12
   Asia Pacific Land Total Recordable Incidents by Operation (Chart 12) .......... 13
   Asia Pacific Land Total Lost Time Incidents by Location (Chart 13) ............... 14
   Asia Pacific Land Total Recordable Incidents by Location (Chart 14) .............. 15
   Asia Pacific Land Total Lost Time Incidents by Time in Service (Chart 15) .... 16
   Asia Pacific Land Total Recordable Incidents by Time in Service (Chart 16) ... 17
   Asia Pacific Land Total Lost Time Incidents by Time of Day (Chart 17) .......... 18
   Asia Pacific Land Total Recordable Incidents by Time of Day (Chart 18) ....... 19
   Asia Pacific Land Total Lost Time Incidents by Age (Chart 19) ..................... 20
   Asia Pacific Land Total Recordable Incidents by Age (Chart 20) .................... 21
IADC 2014 Asia Pacific Land Participant Detail by Category (Table 2) ....................... 22
IADC 2014 Asia Pacific Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>22,946,866</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>17</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>8</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>27</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>52</td>
</tr>
</tbody>
</table>

- **MTO Incidence Rate**: 0.15
- **RWC Incidence Rate**: 0.07
- **LTI Incidence Rate**: 0.24
- **LTI Frequency Rate**: 1.18
- **DART Incidence Rate**: 0.31
- **DART Frequency Rate**: 1.53
- **Recordable Incidence Rate**: 0.45
- **Recordable Frequency Rate**: 2.27

Companies Reporting: Land – 14

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

Asia Pacific Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2014 Asia Pacific Land Charts
Asia Pacific Land Total Lost Time Incidents by Month (Chart 1)
Based on 27 Incidents

- January: 18.52%
- February: 14.81%
- March: 7.41%
- April: 7.41%
- May: 11.11%
- June: 14.81%
- July: 7.41%
- August: 7.41%
- September: 3.70%
- October: 7.41%
- November: 7.41%
- December: 7.41%
Asia Pacific Land Total Recordable Incidents by Month (Chart 2)
Based on 50 Incidents

- January: 10.00%
- February: 16.00%
- March: 10.00%
- April: 10.00%
- May: 10.00%
- June: 10.00%
- July: 6.00%
- August: 12.00%
- September: 6.00%
- October: 2.00%
- November: 2.00%
- December: 6.00%
Asia Pacific Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 27 Incidents

- Driller (Asst. Dr.): 55.56%
- Floorman: 14.81%
- Toolpusher (Asst.TP, Tourpusher): 3.70%
- Electrician (Electronic Technician): 3.70%
- Roustabout (Lease Hand): 7.41%
- Welder: 7.41%
- Other: 7.41%
Asia Pacific Land Total Recordable Incidents by Occupation (Chart 4)
Based on 50 Incidents

- Driller (Asst. Dr.) 40.00%
- Floorman 14.00%
- Electrician (Electronic Technician) 6.00%
- Toolpusher (Asst. TP, Tourpusher) 2.00%
- Mechanic 4.00%
- Truck Driver (Truck Pusher) 2.00%
- Rig Helper 2.00%
- Other 8.00%
- Driller (Asst. Dr.) 40.00%
- Roustabout (Lease Hand) 14.00%
- Floorman 14.00%
- Electrician (Electronic Technician) 6.00%
- Toolpusher (Asst. TP, Tourpusher) 2.00%
- Mechanic 4.00%
- Truck Driver (Truck Pusher) 2.00%
- Rig Helper 2.00%
- Other 8.00%
Asia Pacific Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 27 Incidents

- Finger(s) 25.93%
- Hand(s) / Wrist(s) 14.81%
- Arm(s) 7.41%
- Trunk/Torso (chest, abdomen, groin) 7.41%
- Head 14.81%
- Legs 18.52%
- Feet/Ankles 7.41%
- Eyes (eyelid) 3.70%
Asia Pacific Land Total Recordable Incidents by Body Part (Chart 6)
Based on 50 Incidents

- Finger(s): 34.00%
- Hand(s) / Wrist(s): 8.00%
- Arm(s): 4.00%
- Trunk/Torso (chest, abdomen, groin): 6.00%
- Back: 2.00%
- Head: 12.00%
- Eyes (eyelid): 4.00%
- Neck: 2.00%
- Feet/Ankles: 8.00%
- Leg(s): 18.00%
- Other: 2.00%
Asia Pacific Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 27 Incidents

Caught Between/In 44.44%

Struck By 11.11%

Struck Against 7.41%

Flame/heat/steam (contact/exposed) 7.41%

Contact With Chemicals/Fluids 7.41%

Slip/Fall: Different Level 11.11%

Slip/Fall: Same Level 7.41%

Other 3.70%

Based on 27 Incidents
Asia Pacific Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 50 Incidents

- Caught Between/In: 44.00%
- Struck By: 20.00%
- Struck Against: 4.00%
- Slip/Fall: Same Level: 8.00%
- Slip/Fall: Different Level: 12.00%
- Contact With Chemicals/Fluids: 4.00%
- Flame/heat/steam (contact/exposed): 4.00%
- Other: 2.00%
- Cut: 2.00%
Asia Pacific Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 27 Incidents

- Other: 29.63%
- Rig Floor Winch/Deck Winch (air/hydraulic): 3.70%
- Welding, Cutting, Grinding Equipment: 3.70%
- Chemicals (sack, drum, pail, bulk hopper): 3.70%
- Pressure Hoses/Lines: 7.41%
- Cathead/Drawworks: 3.70%
- Hand Tools: Manual: 3.70%
- Iron Roughneck, Pipe Spinner, etc.: 3.70%
- Pipes/Collars/Tubulars/Csg.: 14.81%
- Well Control (BOP) Stack (well head, tree): 3.70%
- Top Drive (blocks, swivel, kelly): 3.70%
- Tongs: 14.81%
- Stairs: 3.70%
Asia Pacific Land Total Recordable Incidents by Equipment (Chart 10)
Based on 50 Incidents

- Other 32.00%
- Boats Cargo (skids, tubulars, containers, etc.) 2.00%
- Rig Floor Winch/Deck Winch (air/hydraulic) 2.00%
- Top Drive (blocks, swivel, kelly) 2.00%
- Chemicals (sack, drum, pail, bulk hopper) 2.00%
- Welding, Cutting, Grinding Equipment 2.00%
- Ladders 2.00%
- Pressure Hoses/Lines 6.00%
- Well Control (BOP) Stack (well head, tree) 2.00%
- Stairs 4.00%
- Iron Roughneck, Pipe Spinner, etc. 4.00%
- Cathead/Drawworks 2.00%
- Hand Tools: Manual 2.00%
- Hand Tools: Power 4.00%
- Engines/Pumps/Machinery 4.00%
- Car, truck, bus 2.00%
- Kelly Bushings (master bushings) 2.00%
- Rotary 2.00%
- Pipes/Collars/Tubulars/Csg. 10.00%
- Engines/Pumps/Machinery 4.00%
- Cathead/Drawworks 2.00%
- Hand Tools: Manual 2.00%
- Hand Tools: Power 4.00%
- Engines/Pumps/Machinery 4.00%
- Car, truck, bus 2.00%
- Kelly Bushings (master bushings) 2.00%
Asia Pacific Land Total Lost Time Incidents by Operation (Chart 11)
Based on 27 Incidents

- Tripping in/out (makeup/brakeout BHA, test tools, etc.) 14.81%
- Routine Drilling Operations 11.11%
- Making Connection 3.70%
- Running Casing/Tubing (rig up/down csg. tools) 7.41%
- Laying Down/Picking up Pipe/Tubulars 7.41%
- Material Handling: Manual 11.11%
- Walking 11.11%
- Well Control (BOP Stack (well head/tree) Install/Maintenance 3.70%
- Rigging Up/Down (rig move preparation, rig move) 7.41%
- Material Handling: Crane/Cherry Picker 7.41%
- Material Handling: Manual 11.11%
- Mud Mixing/Pumping 7.41%
- Other 7.41%
Asia Pacific Land Total Recordable Incidents by Operation (Chart 12)
Based on 50 Incidents

- Travel/Transportation: 2.00%
- Walking: 10.00%
- Cementing: 2.00%
- Mud Mixing/Pumping: 4.00%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.): 12.00%
- Making Connection: 2.00%
- Routine Drilling Operations: 10.00%
- Running Casing/Tubing (rig up/down csg. tools): 8.00%
- Laying Down/Picking up Pipe/Tubulars: 6.00%
- Rigging Up/Down (rig move preparation, rig move): 14.00%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 2.00%
- Material Handling: Manual: 6.00%
- Material Handling Crane/Cherry Picker: 6.00%

Other: 4.00%
Asia Pacific Land Total Lost Time Incidents by Location (Chart 13)
Based on 27 Incidents

- Rig Pad/Rig Decks: 11.11%
- Stairs/Ladders: 3.70%
- Mud Mixing Tank/Area: 7.41%
- Well Control (BOP) Stack (well head/tree) Area: 3.70%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 3.70%
- Catwalk/V-door: 7.41%
- Pipe Rack/Pipe Deck: 11.11%
- Rig Floor (rotary, pipe set back area): 51.85%
Asia Pacific Land Total Recordable Incidents by Location (Chart 14)
Based on 50 Incidents

- Rig Floor (rotary, pipe set back area) 44.00%
- Mud Pump Room 4.00%
- Other 8.00%
- Truck, Car, Bus 4.00%
- Work Rooms (change house, storage house/room) 2.00%
- Rig Pad/Rig Decks 10.00%
- Stairs/Ladders 2.00%
- Engine / Generator Rooms 4.00%
- Shale Shaker 2.00%
- Mud Mixing Tank/Area 4.00%
- Well Control (BOP) Stack (well head/tree) Area 2.00%
- Derrick/Mast (crown, monkey/stabbing board, a-frame) 2.00%
- Catwalk/V-door 4.00%
- Pipe Rack/Pipe Deck 8.00%
Asia Pacific Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 27 Incidents

- 0 mo. < 3 mos. 7.41%
- >3 mos. < 6 mos. 7.41%
- >6 mos. < 1 yr. 22.22%
- >5 yrs. < 10 yrs. 3.70%
- >1 yr. < 5 yrs. 51.85%
- 10+ yrs. 7.41%
Asia Pacific Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 50 Incidents

- >1 yr. < 5 yrs.: 58.00%
- >6 mos. < 1 yr.: 20.00%
- >3 mos. < 6 mos.: 4.00%
- >1 yr. < 10 yrs.: 4.00%
- >5 yrs. < 10 yrs.: 4.00%
- 0 mo. < 3 mos.: 8.00%
- >6 mos. < 1 yr.: 20.00%
- >3 mos. < 6 mos.: 4.00%
- >1 yr. < 5 yrs.: 58.00%
- Other: 2.00%
- 0 mo. < 3 mos.: 8.00%
Asia Pacific Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 27 Incidents
Asia Pacific Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 50 Incidents
Asia Pacific Land Total Lost Time Incidents by Age (Chart 19)
Based on 17 Incidents

- 26 - 35: 52.94%
- 18 - 25: 35.29%
- 36 - 45: 11.76%
Asia Pacific Land Total Recordable Incidents by Age (Chart 20)
Based on 31 Incidents

- 26 - 35: 58.06%
- 36 - 45: 9.68%
- 46 - 55: 6.45%
- 18 - 25: 25.81%