IADC

IADC
ISP PROGRAM

2014

Summary of Occupational Incidents
(Asia Pacific Water Totals)

Issued 15 June 2015
Table of Contents

IADC 2014 ASIA PACIFIC WATER TOTALS (TABLE 1) ................................................................. 1

Asia Pacific Water Incidence Rates vs Man-hours (Figure 1) .................................................. 1

IADC 2014 ASIA PACIFIC WATER CHARTS .............................................................................. 2

Asia Pacific Water Total Lost Time Incidents by Month (Chart 1) ........................................... 2
Asia Pacific Water Total Recordable Incidents by Month (Chart 2) ....................................... 3
Asia Pacific Water Total Lost Time Incidents by Occupation (Chart 3) ..................................... 4
Asia Pacific Water Total Recordable Incidents by Occupation (Chart 4) ............................... 5
Asia Pacific Water Total Lost Time Incidents by Body Part (Chart 5) ....................................... 6
Asia Pacific Water Total Recordable Incidents by Body Part (Chart 6) .................................... 7
Asia Pacific Water Total Lost Time Incidents by Incident Type (Chart 7) .............................. 8
Asia Pacific Water Total Recordable Incidents by Incident Type (Chart 8) ............................ 9
Asia Pacific Water Total Lost Time Incidents by Equipment (Chart 9) .................................. 10
Asia Pacific Water Total Recordable Incidents by Equipment (Chart 10) ............................ 11
Asia Pacific Water Total Lost Time Incidents by Operation (Chart 11) ............................... 12
Asia Pacific Water Total Recordable Incidents by Operation (Chart 12) .............................. 13
Asia Pacific Water Total Lost Time Incidents by Location (Chart 13) .................................... 14
Asia Pacific Water Total Recordable Incidents by Location (Chart 14) ............................... 15
Asia Pacific Water Total Lost Time Incidents by Time in Service (Chart 15) ......................... 16
Asia Pacific Water Total Recordable Incidents by Time in Service (Chart 16) ....................... 17
Asia Pacific Water Total Lost Time Incidents by Time of Day (Chart 17) ............................. 18
Asia Pacific Water Total Recordable Incidents by Time of Day (Chart 18) .......................... 19
Asia Pacific Water Total Lost Time Incidents by Age (Chart 19) .......................................... 20
Asia Pacific Water Total Recordable Incidents by Age (Chart 20) ........................................ 21

IADC 2014 ASIA PACIFIC WATER PARTICIPANT DETAIL BY CATEGORY (TABLE 2) .......... 22
# IADC 2014 Asia Pacific Water Totals (Table 1)

<table>
<thead>
<tr>
<th>Totals</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
</tr>
<tr>
<td>Total Fatalities</td>
</tr>
<tr>
<td>Total Recordables</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Incidence Rates</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTO Incidence Rate</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
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<tr>
<td>DART Frequency Rate</td>
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<tr>
<td>Recordable Incidence Rate</td>
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<tr>
<td>Recordable Frequency Rate</td>
</tr>
</tbody>
</table>

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MANHOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MANHOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MANHOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MANHOURS

DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MANHOURS

DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MANHOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MANHOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MANHOURS

## Companies Reporting: Water – 33

### Asia Pacific Water Incidence Rates vs Man-hours (Figure 1)
IADC 2014 Asia Pacific Water Charts
Asia Pacific Water Total Lost Time Incidents by Month (Chart 1)
Based on 35 Incidents

- December: 14.29%
- November: 8.57%
- October: 8.57%
- August: 22.86%
- July: 5.71%
- June: 5.71%
- May: 8.57%
- April: 11.43%
- March: 8.57%
- February: 5.71%
- November: 8.57%
- October: 8.57%
Asia Pacific Water Total Recordable Incidents by Month (Chart 2)
Based on 105 incidents

- December: 10.48%
- November: 6.67%
- October: 13.33%
- September: 3.81%
- August: 11.43%
- July: 7.62%
- June: 5.71%
- May: 13.33%
- April: 11.43%
- March: 7.62%
- February: 6.67%
- January: 1.90%
- November: 6.67%
- October: 13.33%
- September: 3.81%
- August: 11.43%
- July: 7.62%
- June: 5.71%
- May: 13.33%
- April: 11.43%
- March: 7.62%
- February: 6.67%
- January: 1.90%
Asia Pacific Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 35 Incidents

- Other: 20.00%
- Derrickman: 8.57%
- Driller (Asst. Dr.): 14.29%
- Toolpusher (Asst. TP, Tourpusher): 2.86%
- Mechanic: 5.71%
- Welder: 2.86%
- Subsea Engineer: 5.71%
- Barge Engineer/Ballast Control Op.: 2.86%
- Driller (Asst. Dr.): 14.29%
- Roustabout (Lease Hand): 17.14%
- Floorman: 20.00%
- Derrickman: 8.57%
Asia Pacific Water Total Recordable Incidents by Occupation (Chart 4)
Based on 105 incidents

- Roustabout (Lease Hand): 19.05%
- Driller (Asst. Dr.): 14.29%
- Floorman: 20.00%
- Derrickman: 5.71%
- Roustabout (Asst.TP, Tourpusher): 0.95%
- Toolpusher (Asst.TP, Tourpusher): 1.90%
- Electrician: 1.90%
- Mechanic: 5.71%
- Motorman: 2.86%
- Barge Engineer/Ballast Control Op.: 0.95%
- Superintendent/other Supervisors: 0.95%
- Welder: 0.95%
- Deck Supervisor (Deck Coordinator): 0.95%
- Subsea Engineer: 2.86%
- Marine Crew: 0.95%
- Other: 21.90%
Asia Pacific Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 35 Incidents

- Finger(s) 37.14%
- Hand(s) / Wrist(s) 11.43%
- Arm(s) 11.43%
- Trunk/Torso (chest, abdomen, groin) 2.86%
- Head 2.86%
- Shoulder(s) 8.57%
- Feet/Ankles 5.71%
- Leg(s) 14.29%
- Knee(s) 5.71%
- Trunk/Torso (chest, abdomen, groin) 2.86%
Asia Pacific Water Total Recordable Incidents by Body Part (Chart 6)

Based on 105 incidents

- Finger(s): 36.19%
- Leg(s): 10.48%
- Finger(s) / Wrist(s): 10.48%
- Shoulder(s): 9.52%
- Neck: 0.95%
- Elbow(s): 2.86%
- Knee(s): 2.86%
- Other: 2.86%
- Eyes (eyelid): 1.90%
- Head: 9.52%
- Back: 2.86%
- Trunk/Torso (chest, abdomen, groin): 1.90%
- Arm(s): 6.67%
- Feet/Ankles: 2.86%
Asia Pacific Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 35 Incidents

- Caught Between/In: 40.00%
- Struck Against: 8.57%
- Struck By: 11.43%
- Slip/Fall: Same Level: 8.57%
- Slip/Fall: Different Level: 8.57%
- Strain/Overexertion: 2.86%
- Flame/heat/steam (contact/exposed): 2.86%
- Contact With Chemicals/Fluids: 2.86%
- Sprain: 5.71%
- Other: 2.86%
- Cut: 5.71%
- Struck By: 11.43%
- Struck Against: 8.57%
- Slip/Fall: Same Level: 8.57%
- Slip/Fall: Different Level: 8.57%
- Strain/Overexertion: 2.86%
- Flame/heat/steam (contact/exposed): 2.86%
- Contact With Chemicals/Fluids: 2.86%
- Sprain: 5.71%
- Other: 2.86%
- Cut: 5.71%
Asia Pacific Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 105 incidents

Caught Between/In
37.14%

Struck Against
7.62%

Struck By
14.29%

Slip/Fall: Same Level
12.38%

Slip/Fall: Different Level
6.67%

Strain/Overexertion
4.76%

Contact With Chemicals/Fluids
1.90%

Flame/heat/steam (contact/exposed)
1.90%

Other
1.90%

Cut
8.57%

Sprain
2.86%

Based on 105 Incidents
Asia Pacific Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 35 Incidents

- Anchor Chains/Cables/Winches: 2.86%
- Rig Floor Winch/Deck Winch (air/hydraulic): 2.86%
- Other: 22.86%
- Ladders: 5.71%
- Top Drive (blocks, swivel, kelly): 2.86%
- Decks (grating, walkway): 2.86%
- Crane: 5.71%
- Kelly Bushings (master bushings): 2.86%
- BOP Stack (well head, tree): 2.86%
- Tongs: 5.71%
- Elevators: 2.86%
- Slips (drill collar clamp): 2.86%
- Iron Roughneck, Pipe Spinner, etc.: 5.71%
- Slings (rope, cable, chain, web): 8.57%
- Pipes/Collars/Tubulars/Csg.: 17.14%
- Engines/Pumps/Machinery: 5.71%
Asia Pacific Water Total Recordable Incidents by Equipment (Chart 10)
Based on 105 Incidents

- Other 29.62%
- Anchor Chains/Cables/Winches 0.95%
- Rig Floor Winch/Deck Winch (air/hydraulic) 2.86%
- Anchor Chains/Cables/Winches 0.95%
- Boat Cargo (skids, tubulars, containers, etc.) 0.95%
- Top Drive (blocks, swivel, kelly) 1.90%
- Chemicals (sack, drum, pail, bulk hopper) 1.90%
- Decks (grating, walkway) 5.71%
- Ladders 2.66%
- Crane 3.81%
- Pressure Hoses/Lines 2.86%
- Cranes 3.81%
- Engines/Pumps/Machinery 5.71%
- Kelly Bushings (master bushings) 0.95%
- Iron Roughneck, Pipe Spinner, etc. 2.86%
- Pipes/Collars/Tubulars/Csg. 10.48%
- Slings (rope, cable, chain, web) 6.67%
- Hand Tools: Manual 0.95%
- Hand Tools: Power 1.90%
- Stairs 3.81%
- BOP Stack (well head, tree) 1.90%
- Material 0.95%
Asia Pacific Water Total Lost Time Incidents by Operation (Chart 11)
Based on 35 Incidents

- Tripping in/out: 11.43%
- Running Casing/Tubing: 11.43%
- Equipment Repairs or Maintenance: 8.57%
- Material Handling: Rig Floor Winch: 5.71%
- Material Handling: Crane/Cherry Picker: 2.86%
- Material Handling: Manual: 5.71%
- Making Connection: 5.71%
- Routine Drilling Oper.: 8.57%
- Laying Down/Picking up Tubing: 2.86%
- Handling Riser: 2.86%
- Running/Retrieving Anchors: 2.86%
- Walking: 2.86%
- Special Operations: 2.86%
- Travel/Transportation: 5.71%
- Other: 8.57%
- Rigging Up/Down: 11.43%
- Routine Drilling Oper.: 8.57%
Asia Pacific Water Total Recordable Incidents by Operation (Chart 12)
Based on 105 Incidents

- Tripping in/out: 8.57%
- Making Connection: 1.90%
- Routine Drilling Oper.: 10.48%
- Running Casing/Tubing: 9.52%
- Laying Down/Picking up Tubulars: 3.81%
- Material Handling: Manual: 7.62%
- Material Handling: Crane/Cherry Picker: 4.76%
- Material Handling: Rig Floor Winch: 1.90%
- Equipment Repairs or Maintenance: 14.29%
- BOP Stack Install/Maintenance: 2.86%
- Rigging Up/Down: 3.81%
- Building/Stacking Rig: 2.86%
- Handling Riser: 0.95%
- Running/Retrieving Anchors: 0.95%
- Walking: 5.71%
- Special Operations: 5.71%
- Cementing: 0.95%
- Mud Mixing/Pumping: 0.95%
- Rigging Up/Down: 3.81%
- Painting (painting related tasks): 1.90%
- Routine Drilling Oper.: 10.48%
- Running Casing/Tubing: 9.52%
- Laying Down/Picking up Tubulars: 3.81%
- Material Handling: Manual: 7.62%
- Material Handling: Crane/Cherry Picker: 4.76%
- Material Handling: Rig Floor Winch: 1.90%
- Equipment Repairs or Maintenance: 14.29%
- BOP Stack Install/Maintenance: 2.86%
- Rigging Up/Down: 3.81%
- Building/Stacking Rig: 2.86%
- Handling Riser: 0.95%
- Running/Retrieving Anchors: 0.95%
- Walking: 5.71%
- Special Operations: 5.71%
- Cementing: 0.95%
- Mud Mixing/Pumping: 0.95%
- Routine Drilling Oper.: 10.48%
Asia Pacific Water Total Lost Time Incidents by Location (Chart 13)
Based on 35 Incidents

- Rig Floor: 37.14%
- Derrick/Mast: 14.29%
- Engine Generator Room: 5.71%
- Catwalk/V-door: 8.57%
- Pipe Rack/Pipe Deck: 5.71%
- Rig Pad/Rig Decks: 11.43%
- Stairs/Ladders: 2.86%
- Cellar/Sub/Moonpool: 2.86%
- Other: 11.43%

Based on 35 Incidents.
Asia Pacific Water Total Recordable Incidents by Location (Chart 14)
Based on 105 incidents

- Rig Floor: 32.38%
- Rig Pad/Rig Decks: 10.48%
- Engine Generator Room: 1.90%
- Mud Pumps/Rig Decks: 2.86%
- Rig Pad/Rig Decks: 10.48%
- Catwalk/V-door: 3.81%
- Derrick/Mast: 6.67%
- BOP Stack/Wellhead/Tree Area: 4.76%
- Man portable: 2.86%
- Shale Shaker: 1.90%
- Work Rooms change, storage, room: 2.86%
- Cellar/Sub/Moonpool: 3.81%
- Machinery Spaces: 1.90%
- Mud Mixing Tank/Area: 1.90%
- Mud Pits/Tanks: 0.95%
- Other: 13.33%
- Rig Floor: 32.38%
Asia Pacific Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 32 Incidents

- 0 mo. < 3 mos.: 3.13%
- >3 mos. < 6 mos.: 18.75%
- >1 yr. < 5 yrs.: 34.38%
- >6 mos. < 1 yr.: 12.50%
- >5 yrs. < 10 yrs.: 15.63%
- 10+ yrs.: 15.63%
Asia Pacific Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 102 Incidents

- 0 mo. < 3 mos. 11.76%
- >3 mos. < 6 mos. 8.82%
- >6 mos. < 1 yr. 16.67%
- >1 yr. < 5 yrs. 45.10%
- >5 yrs. < 10 yrs. 8.82%
- >10 yrs. 8.82%
- >5 yrs. < 10 yrs. 8.82%
- >10 yrs. 8.82%
Asia Pacific Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 35 Incidents

- 23:00: 5.71%
- 22:00: 8.57%
- 21:00: 8.57%
- 20:00: 2.86%
- 19:00: 2.86%
- 18:00: 2.86%
- 17:00: 8.57%
- 16:00: 8.57%
- 15:00: 11.43%
- 14:00: 8.57%
- 13:00: 2.86%
- 12:00: 2.86%
- 11:00: 2.86%
- 10:00: 5.71%
- 09:00: 2.86%
- 08:00: 5.71%
- 07:00: 2.86%
- 06:00: 2.86%
- 05:00: 2.86%
- 04:00: 2.86%
- 03:00: 5.71%
- 02:00: 2.86%
- 01:00: 8.57%
Asia Pacific Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 105 Incidents

23:00: 4.76%
22:00: 3.81%
21:00: 6.67%
20:00: 3.81%
19:00: 3.81%
18:00: 4.76%
17:00: 6.67%
16:00: 3.81%
15:00: 3.81%
14:00: 3.81%
13:00: 3.81%
12:00: 5.71%
11:00: 2.86%
10:00: 4.76%
09:00: 5.71%
08:00: 4.76%
07:00: 2.86%
06:00: 1.90%
05:00: 3.81%
04:00: 4.76%
03:00: 3.81%
02:00: 4.76%
01:00: 5.71%
10:00: 4.76%

Asia Pacific Water Total Lost Time Incidents by Age (Chart 19)
Based on 31 Incidents

- 26 - 35: 38.71%
- 18 - 25: 12.90%
- 36 - 45: 22.58%
- 46 - 55: 19.35%
- 56 - 65: 6.45%
Asia Pacific Water Total Recordable Incidents by Age (Chart 20)
Based on 91 Incidents

- 26 - 35: 45.05%
- 36 - 45: 25.27%
- 46 - 55: 14.29%
- 56 - 65: 4.40%
- 66 & Above: 1.10%
- 18 - 25: 9.89%