IADC
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ISP PROGRAM

2017

Summary of Occupational Incidents
(Asia Pacific Water Totals)

Issued 15 June 2018
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IADC 2017 Asia Pacific Water Totals (Table 1)

<table>
<thead>
<tr>
<th>Totals</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>35,689,082</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>13</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>15</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>12</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>40</td>
</tr>
</tbody>
</table>

- **MTO Incidence Rate**: 0.07
- **RWC Incidence Rate**: 0.08
- **LTI Incidence Rate**: 0.07
- **LTI Frequency Rate**: 0.34
- **DART Incidence Rate**: 0.15
- **DART Frequency Rate**: 0.76
- **Recordable Incidence Rate**: 0.22
- **Recordable Frequency Rate**: 1.12

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 Frequency 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 – 30

Asia Pacific Water Incidence Rates vs Man-hours (Figure 1)
IADC 2017 Asia Pacific Water Charts
Asia Pacific Water Total Lost Time Incidents by Month (Chart 1)
Based on 12 Incidents

- November: 16.67%
- September: 25.00%
- August: 8.33%
- June: 8.33%
- May: 16.67%
- April: 16.67%
- March: 8.33%
- February: 8.33%

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Asia Pacific Water Total Recordable Incidents by Month (Chart 2)
Based on 40 Incidents

- December: 2.50%
- November: 10.00%
- October: 5.00%
- September: 7.50%
- August: 12.50%
- July: 5.00%
- June: 15.00%
- May: 12.50%
- April: 15.00%
- March: 5.00%
- February: 7.50%
- January: 2.50%
- January: 2.50%

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Asia Pacific Water Total Lost Time Incidents by Occupation (Chart 3)

Based on 12 Incidents

- Roustabout (Lease Hand): 25.00%
- Floorman: 41.67%
- Driller (Asst. Dr.): 16.67%
- Derrickman: 8.33%
- Medic: 8.33%
Asia Pacific Water Total Recordable Incidents by Occupation (Chart 4)
Based on 40 Incidents

- Catering / Camp Personnel: 2.50%
- Mechanic: 10.00%
- Motorman: 2.50%
- Driller (Asst. Dr.): 10.00%
- Derrickman: 5.00%
- Crane / Forklift Operator: 2.50%
- Medic: 2.50%
- Roustabout (Lease Hand): 25.00%
- Floorman: 40.00%
Asia Pacific Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 12 Incidents

- Leg(s) 41.67%
- Finger(s) 16.67%
- Arm(s) 8.33%
- Back 8.33%
- Head 8.33%
- Eyes (eyelid) 8.33%
- Toes 8.33%
Asia Pacific Water Total Recordable Incidents by Body Part (Chart 6)
Based on 40 Incidents

- Shoulder(s): 2.50%
- Toes: 2.50%
- Feet/Ankles: 5.00%
- Finger(s): 30.00%
- Leg(s): 17.50%
- Hand(s)/Wrist(s): 10.00%
- Back: 5.00%
- Head: 17.50%
- Eyes (eyelid): 7.50%
- Arm(s): 2.50%
Asia Pacific Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 12 Incidents

- Exposure to Gas: 8.33%
- Contact With Chemicals/Fluids: 8.33%
- Slip/Fall: Different Level: 16.67%
- Slip/Fall: Same Level: 8.33%
- Caught Between/In: 41.67%
- Struck By: 16.67%
Asia Pacific Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 39 Incidents

- Caught Between/In: 51.28%
- Struck By: 20.51%
- Exposure to Gas: 2.56%
- Flame/heat/steam (contact/exposed): 2.56%
- Strain/Overexertion: 2.56%
- Contact With Chemicals/Fluids: 5.13%
- Slip/Fall: Different Level: 7.69%
- Slip/Fall: Same Level: 5.13%
- Struck Against: 2.56%
Asia Pacific Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 11 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic): 9.09%
- Stairs: 9.09%
- Ladders: 9.09%
- Chemicals (sack, drum, pail, bulk hopper): 9.09%
- Crane: 27.27%
- Pipes/Collars/Tubulars/Csg.: 36.36%
- Stairs: 9.09%
Asia Pacific Water Total Recordable Incidents by Equipment (Chart 10)
Based on 37 Incidents

- Forklift: 2.70%
- Ladders: 5.41%
- BOP Stack (well head, tree): 2.70%
- Hand Tools: Power: 5.41%
- Elevators: 2.70%
- Slips (drill collar clamp): 2.70%
- Iron Roughneck, Pipe Spinner, etc.: 2.70%
- Pipes/Collars/Tubulars/Csg.: 13.51%
- Cranes: 10.81%
- Pressure Hoses/Lines: 2.70%
- Cathead/Drawworks: 2.70%
- Slings (rope, cable, chain, web): 13.51%
- Engines/Pumps/Machinery: 13.51%
- Material: 2.70%
- BOP Stack (well head, tree): 2.70%
- Stairs: 2.70%
Asia Pacific Water Total Lost Time Incidents by Operation (Chart 11)
Based on 12 Incidents

- Tripping in/out: 33.33%
- Equipment Repairs or Maintenance: 8.33%
- BOP Stack Install/Maintenance: 8.33%
- Cementing: 8.33%
- Walking: 8.33%
- Material Handling: Rig Floor Winch: 8.33%
- Material Handling: Manual: 8.33%
- Material Handling: Crane/Cherry Picker: 16.67%

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Asia Pacific Water Total Recordable Incidents by Operation (Chart 12)
Based on 38 Incidents

- Making Connection: 5.26%
- Routine Drilling Oper.: 13.16%
- Running Casing/Tubing: 2.63%
- Material Handling: Manual: 5.26%
- Material Handling: Crane/Cherry Picker: 15.79%
- Material Handling: Rig Floor Winch: 7.89%
- BOP Stack Install/Maintenance: 5.26%
- Equipment Repairs or Maintenance: 18.42%
- Tripping in/out: 18.42%
- Abrasive Blasting/Paint/Scale Removal: 2.63%
- Walking: 2.63%
- Cementing: 2.63%
- Material Handling: Crane/Cherry Picker: 15.79%
Asia Pacific Water Total Lost Time Incidents by Location (Chart 13)
Based on 12 Incidents

- Rig Pad/Rig Decks: 25.00%
- Cherry Picker/Crane: 8.33%
- Rig Floor: 50.00%
- Derrick/Mast: 8.33%
- Stairs/Ladders: 8.33%
Asia Pacific Water Total Recordable Incidents by Location (Chart 14)
Based on 39 Incidents

- Engine Generator Room: 5.13%
- Shale Shaker: 5.13%
- Derrick/Mast: 7.69%
- Living/Camp Areas/Accommodations: 2.56%
- Work Rooms change, storage, room: 2.56%
- Cellar/Sub/Moonpool: 2.56%
- Mud Pump Room: 2.56%
- Mud Mixing Tank/Area: 2.56%
- Cherry Picker/Crane: 5.13%
- Helicopter: 2.56%
- Rig Pad/Rig Decks: 17.95%
- Rig Floor: 33.33%
- Pipe Rack/Pipe Deck: 5.13%
- Catwalk/V-door: 2.56%
- Stairs/Ladders: 2.56%
- Engine Generator Room: 5.13%
- Shale Shaker: 5.13%
- Mud Mixing Tank/Area: 2.56%
- Cherry Picker/Crane: 5.13%
Asia Pacific Water Total Lost Time Incidents by Time in Service (Chart 15)

Based on 12 Incidents

- >1 yr. < 5 yrs. 58.33%
- >6 mos. < 1 yr. 8.33%
- >5 yrs. < 10 yrs. 16.67%
- 10+ yrs. 16.67%
- >0 mos. < 1 yr. 8.33%
Asia Pacific Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 12 Incidents

- 23:00: 16.67%
- 18:00: 8.33%
- 14:00: 8.33%
- 13:00: 8.33%
- 10:00: 8.33%
- 9:00: 8.33%
- 8:00: 8.33%
- 5:00: 8.33%
- 4:00: 16.67%
- 3:00: 8.33%
- 2:00: 8.33%
- 1:00: 8.33%
Asia Pacific Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 39 Incidents

24:00: 2.56%
23:00: 7.69%
22:00: 2.56%
21:00: 2.56%
20:00: 2.56%
19:00: 2.56%
18:00: 5.13%
17:00: 5.13%
16:00: 5.13%
15:00: 5.13%
14:00: 12.82%
13:00: 2.56%
12:00: 2.56%
11:00: 2.56%
10:00: 2.56%
09:00: 2.56%
08:00: 12.82%
07:00: 2.56%
06:00: 2.56%
05:00: 2.56%
04:00: 10.26%
03:00: 2.56%
02:00: 2.56%
01:00: 2.56%
00:00: 2.56%

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Asia Pacific Water Total Lost Time Incidents by Age (Chart 19)
Based on 11 Incidents

- 26 - 35: 72.73%
- 36 - 45: 9.09%
- 46 - 55: 18.18%
Asia Pacific Water Total Recordable Incidents by Age (Chart 20)
Based on 34 Incidents

- 26 - 35: 55.88%
- 36 - 45: 26.47%
- 46 - 55: 11.76%
- 18 - 25: 5.88%