IADC
ISP PROGRAM

2015

Summary of Occupational Incidents
(Asia Pacific Water Totals)

Issued 15 July 2016
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IADC 2015 Asia Pacific Water Totals (Table 1)

<table>
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<tr>
<td>Total Man-hours</td>
<td>44,518,774</td>
</tr>
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<td>Total Medical Treatment Incidents</td>
<td>25</td>
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<tr>
<td>Total Restricted Work Incidents</td>
<td>15</td>
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<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>52</td>
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MTO Incidence Rate 0.11
RWC Incidence Rate 0.07
LTI Incidence Rate 0.05
LTI Frequency Rate 0.27
DART Incidence Rate 0.12
DART Frequency Rate 0.61
Recordable Incidence Rate 0.23
Recordable Frequency Rate 1.17

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MANHOURS (LTI NOT INCLUDED)
RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MANHOURS (LTI NOT INCLUDED)
LOST TIME INCIDENCE RATE = (LTI+FTLs) X 200,000 / MANHOURS
LOST TIME FREQUENCY RATE = (LTI+FTLs) X 1,000,000 / MANHOURS
DART INCIDENCE RATE = (LTI+FTLs+RWCs) X 200,000 / MANHOURS
DART INCIDENCE RATE = (LTI+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 – 32

Asia Pacific Water Incidence Rates vs Man-hours (Figure 1)
Asia Pacific Water Total Lost Time Incidents by Month (Chart 1)
Based on 11 Incidents

- December: 18.18%
- November: 9.09%
- October: 9.09%
- September: 18.18%
- June: 9.09%
- April: 9.09%
- March: 9.09%
- February: 18.18%
- November: 9.09%
- October: 9.09%
- September: 18.18%
Asia Pacific Water Total Recordable Incidents by Month (Chart 2)
Based on 49 Incidents

- December: 12.24%
- November: 10.20%
- October: 12.24%
- September: 4.08%
- August: 6.12%
- July: 4.08%
- June: 8.16%
- May: 6.12%
- April: 12.24%
- March: 8.16%
- February: 10.20%
- January: 6.12%
Asia Pacific Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 11 Incidents

- Floorman: 45.45%
- Roustabout (Lease Hand): 18.18%
- Driller (Asst. Dr.): 9.09%
- Derrickman: 9.09%
- Electrician: 9.09%
- Deck Supervisor (Deck Coordinator): 9.09%
- Issued: 15 July 2016

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Asia Pacific Water Total Recordable Incidents by Occupation (Chart 4)
Based on 49 Incidents

- Subsea Engineer: 6.25%
- Driller (Asst. Dr.): 12.50%
- Floorman: 20.83%
- Roustabout (Lease Hand): 22.92%
- Derrickman: 10.42%
- Rig Helper: 2.08%
- Electrician: 4.17%
- Mechanic: 4.17%
- Toolpusher (Asst.TP, Tourpusher): 4.17%
- Barge Engineer/Ballast Control Op.: 2.08%
- Superintendent/other Supervisors: 2.08%
- Catering / Camp Personnel: 2.08%
- Welder: 2.08%
- Rig Helper: 2.08%
- Superintendent/other Supervisors: 2.08%
Asia Pacific Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 11 Incidents

- Digestive/Internal: 9.09%
- Eyes (eyelid): 9.09%
- Arm(s): 9.09%
- Hand(s) / Wrist(s): 9.09%
- Shoulder(s): 9.09%
- Feet/Ankles: 9.09%
- Leg(s): 18.18%
- Finger(s): 27.27%
Asia Pacific Water Total Recordable Incidents by Body Part (Chart 6)
Based on 47 Incidents

- Shoulder(s): 2.13%
- Elbow(s): 2.13%
- Digestive/Internal: 2.13%
- Feet/Ankles: 8.51%
- Legs: 4.26%
- Eyes (eyelid): 6.38%
- Head: 8.51%
- Back: 2.13%
- Trunk/Torso (chest, abdomen, groin): 4.26%
- Arm(s): 6.38%
- Finger(s): 31.91%
- Hand(s) / Wrist(s): 21.28%
- Trunk/Torso: 4.26%
Asia Pacific Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 11 Incidents

- Contact With Chemicals/Fluids: 9.09%
- Slip/Fall: Different Level: 18.18%
- Slip/Fall: Same Level: 9.09%
- Caught Between/In: 9.09%
- Struck Against: 9.09%
- Struck By: 27.27%
- Electrical Shock: 9.09%
- Caught Between/In: 18.18%
Asia Pacific Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 47 Incidents

- Caught Between/In: 31.91%
- Struck By: 19.15%
- Sprain: 4.26%
- Caught On: 2.13%
- Cut: 2.13%
- Debris: 2.13%
- Electrical Shock: 2.13%
- Contact With Chemicals/Fluids: 6.38%
- Strain/Overexertion: 2.13%
- Slip/Fall: Different Level: 6.38%
- Slip/Fall: Same Level: 8.51%
- Struck Against: 12.77%
Asia Pacific Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 11 Incidents

- Anchor Chains/Cables/Winches: 9.09%
- Stairs: 9.09%
- Top Drive (blocks, swivel, kelly): 9.09%
- Pressure Hoses/Lines: 9.09%
- Engines/Pumps/Machinery: 27.27%
- Hand Tools: Manual: 9.09%
- Pipes/Collars/Tubulars/Csg.: 18.18%
- Elevators: 9.09%
- Stairs: 9.09%

Asia Pacific Water Total Recordable Incidents by Equipment (Chart 10)
Based on 48 Incidents

- Slips (drill collar clamp) 4.17%
- Elevators 2.08%
- Tongs 4.17%
- Boat Cargo (skids, tubulars, containers, etc.) 2.08%
- Rig Floor Winch/Deck Winch (air/hydraulic) 2.08%
- Anchor Chains/Cables/Winches 2.08%
- Top Drive (blocks, swivel, kelly) 4.17%
- Chemicals (sack, drum, pail, bulk hopper) 4.17%
- Decks (grating, walkway) 6.25%
- Crane 8.33%
- Pressure Hoses/Lines 6.25%
- Material 4.17%
- Stairs 4.17%
- Engines/Pumps/Machinery 12.50%
- Hand Tools: Manual 14.58%
- Cathead/Drawworks 2.08%
- Slings (rope, cable, chain, web) 4.17%
- Pipes/Collars/Tubulars/Csg. 12.50%
- Engines/Pumps/Machinery 12.50%
Asia Pacific Water Total Lost Time Incidents by Operation (Chart 11)
Based on 11 Incidents

- Rigging Up/Down: 18.18%
- Laying Down/Picking up Tubulars: 9.09%
- Running Casing/Tubing: 9.09%
- Travel/Transportation: 18.18%
- Walking: 9.09%
- Equipment Repairs or Maintenance: 36.36%
Asia Pacific Water Total Recordable Incidents by Operation (Chart 12)
Based on 47 Incidents

- Repairs or Maintenance: 27.66%
- Routine Drilling Oper.: 8.51%
- Laying Down/Picking up Tubing: 8.51%
- Material Handling: Crane/Cherry Picker: 8.51%
- Material Handling: Man: 14.89%
- Rigging Up/Down: 6.38%
- Tripping in/out: 6.38%
- Running Casing/Tubing: 2.13%
- Cementing: 2.13%
- Jacking Up/Down Oper.: 2.13%
- Walking: 8.51%
- Travel/Transportation: 4.26%
Asia Pacific Water Total Lost Time Incidents by Location (Chart 13)
Based on 10 Incidents

- Rig Pad/Rig Decks: 10.00%
- Mud Pits/Tanks: 10.00%
- Derrick/Mast: 10.00%
- Pipe Rack/Pipe Deck: 20.00%
- Machinery Spaces: 10.00%
- Rig Floor: 40.00%
Asia Pacific Water Total Recordable Incidents by Location (Chart 14)
Based on 48 Incidents

- Engine Generator Room: 6.25%
- Mud Pits/Tanks: 4.17%
- Derrick/Mast: 6.25%
- Mud Mixing Tank/Area: 6.25%
- Cellar/Sub/Moonpool: 6.25%
- Work Rooms change, storage, room: 6.25%
- Rig Pad/Rig Decks: 14.58%
- Rig Floor: 27.08%
- Pipe Rack/Pipe Deck: 10.42%
- Cherry Picker/Crane: 2.08%
- Catwalk/V-door: 2.08%
- Living/Camp Areas/Accommodations: 2.08%
- Machinery Spaces: 2.08%
- Jacking House: 2.08%
- Mud Pump Room: 2.08%
- Cellar/Sub/Moonpool: 6.25%
Asia Pacific Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 11 Incidents

- 10+ yrs.: 18.18%
- >5 yrs. < 10 yrs.: 18.18%
- >1 yr. < 5 yrs.: 45.45%
- >6 mos. < 1 yr.: 9.09%
- 0 mo. < 3 mos.: 9.09%
Asia Pacific Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 49 Incidents

- >1 yr. < 5 yrs. 55.10%
- >6 mos. < 1 yr. 14.29%
- >3 mos. < 6 mos. 6.12%
- 0 mo. < 3 mos. 4.08%
- 10+ yrs. 12.24%
- 5 yrs. < 10 yrs. 8.16%

Total: 100%
Asia Pacific Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 11 Incidents

- 18:00: 9.09%
- 17:00: 18.18%
- 15:00: 9.09%
- 14:00: 9.09%
- 12:00: 9.09%
Asia Pacific Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 49 Incidents

- 22:00: 2.04%
- 21:00: 6.12%
- 20:00: 2.04%
- 19:00: 2.04%
- 18:00: 4.08%
- 17:00: 8.16%
- 16:00: 12.24%
- 15:00: 8.16%
- 14:00: 8.16%
- 13:00: 8.16%
- 12:00: 6.12%
- 11:00: 4.08%
- 10:00: 8.16%
- 09:00: 4.08%
- 08:00: 4.08%
- 07:00: 2.04%
- 06:00: 2.04%
- 05:00: 2.04%
- 04:00: 2.04%
- 03:00: 4.08%
- 02:00: 2.04%
- 01:00: 2.04%
- 00:00: 2.04%
Asia Pacific Water Total Lost Time Incidents by Age (Chart 19)
Based on 11 Incidents

- 26 - 35: 54.55%
- 18 - 25: 27.27%
- 36 - 45: 9.09%
- 46 - 55: 9.09%
Asia Pacific Water Total Recordable Incidents by Age (Chart 20)
Based on 47 Incidents

- 26 - 35: 48.94%
- 36 - 45: 21.28%
- 46 - 55: 10.64%
- 56 - 65: 6.38%
- 66 & Above: 2.13%
- 18 - 25: 10.64%