IADC
ISP PROGRAM
2014

Summary of Occupational Incidents
(European Water Totals)

Issued 15 June 2015
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IADC 2014 European Water Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
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</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>39,307,901</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>67</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>38</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>38</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>143</td>
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<table>
<thead>
<tr>
<th>Rate</th>
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<tbody>
<tr>
<td>MTO Incidence Rate</td>
<td>0.34</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.19</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.19</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>0.97</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.39</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>1.93</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.73</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>3.64</td>
</tr>
</tbody>
</table>

Companies Reporting: Water – 22

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

European Water Total Incidence Rates vs Man-hours (Figure 1)
IADC 2014 European Water Charts
European Water Total Lost Time Incidents by Month (Chart 1)
Based on 39 Incidents

- October: 17.95%
- November: 7.69%
- September: 7.69%
- July: 5.13%
- June: 7.69%
- May: 5.13%
- April: 7.69%
- March: 5.13%
- February: 7.69%
- January: 15.38%
- December: 12.82%

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European Water Total Recordable Incidents by Month (Chart 2)
Based on 144 Incidents

August 9.03%
September 11.11%
October 9.03%
November 8.33%
December 12.50%
January 8.33%
February 6.25%
March 5.56%
April 8.33%
May 8.33%
June 7.64%
July 5.56%
August 9.03%
September 11.11%
European Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 39 Incidents

- Roustabout (Lease Hand): 17.95%
- Floorman: 20.51%
- Driller (Asst. Dr.): 7.69%
- Derrickman: 7.69%
- Barge Engineer/Ballast Control Op.: 2.56%
- Crane Operator (Forklift Operator): 2.56%
- Mechanic (Repair Technician): 2.56%
- Electrician (Electronic Technician): 2.56%
- Subsea Engineer: 7.69%
- Welder: 2.56%
- Rig Helper: 5.13%
- Deck Supervisor (Deck Coordinator): 5.13%
- Marine Crew: 5.13%
- Other: 10.26%
- Mechanic (Repair Technician): 2.56%

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European Water Total Recordable Incidents by Occupation (Chart 4)
Based on 144 Incidents
European Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 39 Incidents

- Finger(s) 23.08%
- Leg(s) 17.95%
- Feet/Ankles 7.69%
- Head 2.56%
- Shoulder(s) 2.56%
- Elbow(s) 2.56%
- Back 7.69%
- Trunk/Torso (chest, abdomen, groin) 7.69%
- Hand(s) / Wrist(s) 7.69%
- Other 5.13%
- Knee(s) 5.13%
- Toes 10.26%
European Water Total Recordable Incidents by Body Part (Chart 6)
Based on 144 Incidents

- Finger(s) 34.72%
- Hand(s) / Wrist(s) 8.33%
- Legs 7.64%
- Feet/Ankles 7.64%
- Trunk/Torso (chest, abdomen, groin) 3.47%
- Arm(s) 3.47%
- Eyes (eyelid) 3.47%
- Back 5.56%
- Head 10.42%
- Neck 0.69%
- Shoulder(s) 2.08%
- Elbows 2.08%
- Trunk/Torso (chest, abdomen, groin) 3.47%
- Lungs/Respiratory 0.69%
- Other 2.08%
- Toes 2.78%
- Knee(s) 4.86%
- Other 2.08%

Based on 144 Incidents
European Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 39 Incidents

Slip/Fall: Different Level 7.69%
Slip/Fall: Same Level 20.51%
Caught On 2.56%
Caught Between/In 23.08%
Struck By 25.64%
Struck Against 12.82%
Other 7.69%
Caught On 2.56%
European Water Total Lost Time Incidents by Equipment (Chart 9)
Based on 39 Incidents

- Other: 20.51%
- Boat Cargo (skids, tubulars, containers, etc.): 2.56%
- Top Drive (blocks, swivel, kelly): 2.56%
- Material: 2.56%
- Pipes/Collars/Tubulars/Csg.: 20.51%
- Tongs: 2.56%
- Elevators: 5.13%
- Spinning Chain: 2.56%
- Iron Roughneck, Pipe Spinner, etc.: 5.13%
- Pipes/Collars/Tubulars/Csg.: 20.51%
- Elevators: 5.13%
- Spinning Chain: 2.56%
- Iron Roughneck, Pipe Spinner, etc.: 5.13%
- BOP Stack (well head, tree): 5.13%
- Kelly Bushings (master bushi): 5.13%
- Stairs: 10.26%
- Forklift: 5.13%
- Ladders: 2.56%
- Decks (grating, walkway): 7.69%
European Water Total Recordable Incidents by Equipment (Chart 10)
Based on 144 Incidents

- **Boat Cargo (skids, tubulars, containers, etc.)**: 1.39%
- **Rig Floor Winch/Deck Winch (air/hydraulic)**: 0.69%
- **Anchor Chains/Cables/Winches**: 0.69%
- **Top Drive (blocks, swivel, kelly)**: 0.69%
- **Chemicals (sack, drum, pail, bulk hopper)**: 1.39%
- **Welding, Cutting, Grinding Equipment**: 1.39%
- **Decks (grating, walkway)**: 6.25%
- **Ladders**: 2.08%
- **Crane**: 2.78%
- **Pressure Hoses/Lines**: 4.17%
- **BOP Stack (well head, tree)**: 2.78%
- **Material**: 1.39%
- **Kelly Bushings (master bushings)**: 1.39%
- **Stairs**: 4.17%
- **Engines/Pumps/Machinery**: 2.78%
- **Boat**: 0.69%
- **Hand Tools: Manual**: 8.33%
- **Hand Tools: Power**: 1.39%
- **Slings (rope, cable, chain, web)**: 4.86%
- **Iron Roughneck, Pipe Spinner**: 2.08%
- **Spinning Chain**: 0.69%
- **Iron Roughneck, Pipe Spinner, materials**: 2.08%
- **Anchor Chains/Cables/Winches**: 0.69%
- **Forklift**: 1.39%
- **Welding, Cutting, Grinding Equipment**: 1.39%
- **Boat Cargo (skids, tubulars, containers, etc.)**: 1.39%
- **Other**: 28.47%
European Water Total Lost Time Incidents by Operation (Chart 11)
Based on 39 Incidents

- Routine Drilling Oper. 15.38%
- Tripping in/out 10.26%
- Material Handling: Forklift 10.26%
- Making Connection 2.56%
- BOP Stack Install/Maintenance 5.13%
- Material Handling: Manual 7.69%
- Laying Down/Picking up Tubulars 5.13%
- Running Casing/Tubing 5.13%
- Equipment Repairs or Maintenance 5.13%
- Walking 12.82%
- Cementing 2.56%
- Mud Mixing/Pumping 2.56%
- Painting (painting related tasks) 2.56%
- Other 12.82%
European Water Total Lost Time Incidents by Location (Chart 13)
Based on 39 Incidents
European Water Total Recordable Incidents by Location (Chart 14)
Based on 144 Incidents

- Rig Floor: 25.00%
- Crew/Work Boats: 0.69%
- Pontoon: 1.39%
- Mains: 2.08%
- Cellar/Sub/Moonpool: 5.56%
- Living/Camp Areas/Accommodations: 3.47%
- Engine Generator Room: 2.08%
- Mud Pits/Tanks: 2.78%
- Shale Shaker: 2.08%
- Mud Mixing Tank/Area: 2.08%
- BOP Stack/well head/tree Area: 2.78%
- Work Rooms change, storage, room: 2.08%
- Stairs/Ladders: 4.17%
- SCR/Electrical Room: 0.69%
- Rig Pad/Rig Decks: 11.11%
- Stair/Ladder: 4.17%
- Engine Generator Room: 2.08%
- Living/Camp Areas/Accommodations: 3.47%
- Other: 8.33%
European Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 33 Incidents

- 10+ yrs. 12.12%
- >5 yrs. < 10 yrs. 15.15%
- >1 yr. < 5 yrs. 51.52%
- >6 mos. < 1 yr. 6.06%
- >3 mos. < 6 mos. 6.06%
- 0 mo. < 3 mos. 9.09%

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European Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 126 incidents

- >1 yr. < 5 yrs.: 48.39%
- >5 yrs. < 10 yrs.: 18.55%
- 10+ yrs.: 6.45%
- >6 mos. < 1 yr.: 9.68%
- >3 mos. < 6 mos.: 10.48%
- >6 mos. < 1 yr.: 9.68%
- 0 mo. < 3 mos.: 6.45%
European Water Total Lost Time Incidents by Time of Day  (Chart 17)
Based on 39 Incidents
European Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 140 Incidents

- 24:00:00 - 2.86%
- 23:00 - 2.14%
- 22:00 - 2.86%
- 21:00 - 3.57%
- 20:00 - 5.71%
- 19:00 - 3.57%
- 18:00 - 5.71%
- 17:00 - 3.57%
- 16:00 - 4.29%
- 15:00 - 2.86%
- 14:00 - 5.00%
- 13:00 - 8.57%
- 12:00 - 4.29%
- 11:00 - 7.14%
- 10:00 - 7.14%
- 9:00 - 3.57%
- 8:00 - 4.29%
- 7:00 - 2.14%
- 6:00 - 2.86%
- 5:00 - 6.43%
- 4:00 - 5.00%
- 3:00 - 2.86%
- 2:00 - 7.14%
- 1:00 - 2.14%
European Water Total Lost Time Incidents by Age (Chart 19)
Based on 28 Incidents

- 25 - 35: 39.29%
- 18 - 25: 14.29%
- 46 - 55: 17.86%
- 56 - 65: 3.57%
- 36 - 45: 25.00%
European Water Total Recordable Incidents by Age (Chart 20)
Based on 93 Incidents

- 26 - 35: 41.94%
- 36 - 45: 25.81%
- 46 - 55: 12.90%
- 56 - 65: 3.23%
- 18 - 25: 16.13%