IADC

IADC ISP PROGRAM 2015

Summary of Occupational Incidents (Middle East Water Totals)

Issued 15 July 2016
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## IADC 2015 Middle East Water Totals (Table 1)

<table>
<thead>
<tr>
<th>Total Man-hours</th>
<th>41,917,040</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>18</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>27</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>20</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>65</td>
</tr>
</tbody>
</table>

### Incidence Rates

- **MTO Incidence Rate**: 0.09
- **RWC Incidence Rate**: 0.13
- **LTI Incidence Rate**: 0.10
- **LTI Frequency Rate**: 0.48
- **DART Incidence Rate**: 0.22
- **DART Frequency Rate**: 1.12
- **Recordable Incidence Rate**: 0.31
- **Recordable Frequency Rate**: 1.55

Companies Reporting: Water – 19

Medical Treatment Incidence Rate = MTOs X 200,000  
Restricted Work Incidence Rate = RWCs X 200,000  
Lost Time Incidence Rate = LTI X 200,000  
Lost Time Frequency Rate = LTI X 1,000,000  
DART Incidence Rate = LTI + RWC X 200,000  
DART Frequency Rate = LTI + RWC X 1,000,000  
Recordable Incidence Rate = RCRD X 200,000  
Recordable Frequency Rate = RCRD X 1,000,000

## Middle East Water Total Incidence Rates vs Man-hours (Figure 1)
IADC 2015 Middle East Water Charts

Middle East Water Total Lost Time Incidents by Month (Chart 1)
Based on 19 Incidents

- October: 5.26%
- November: 5.26%
- September: 5.26%
- July: 15.79%
- June: 10.53%
- May: 10.53%
- April: 5.26%
- March: 10.53%
- February: 26.32%
- December: 5.26%
- November: 5.26%
- September: 5.26%
- July: 15.79%
- June: 10.53%
- May: 10.53%
- April: 5.26%
- March: 10.53%
- February: 26.32%
- December: 5.26%
Middle East Water Total Recordable Incidents by Month (Chart 2)
Based on 64 Incidents

- December 6.25%
- January 7.81%
- February 12.50%
- March 10.94%
- April 14.06%
- May 6.25%
- June 9.38%
- July 7.81%
- August 6.25%
- September 9.38%
- October 4.69%
- November 4.69%
- December 6.25%
Middle East Water Total Lost Time Incidents by Occupation (Chart 3)
Based on 19 Incidents

- Superintendent/other Supervisors: 5.26%
- Crane Operator (Forklift Operator): 10.53%
- Toolpusher (Asst.TP, Tourpusher): 5.26%
- Derrickman: 10.53%
- Floorman: 26.32%
- Roustabout (Lease Hand): 26.32%
- Mechanic (Repair Technician): 15.79%
- Crane Operator (Forklift Operator): 10.53%
Middle East Water Total Recordable Incidents by Occupation (Chart 4)
Based on 64 Incidents

- **Roustabout (Lease Hand)**: 25.00%
- **Floorman**: 26.56%
- **Derrickman**: 10.94%
- **Electrician (Electronic Technician)**: 3.13%
- **Toolpusher (Asst. TP, Tourpusher)**: 3.13%
- **Driller (Asst. Dr.)**: 3.13%
- **Motorman**: 4.69%
- **Mechanic (Repair Technician)**: 10.94%
- **Crane Operator (Forklift Operator)**: 4.69%
- **Superintendent/other Supervisors**: 3.13%
- **Welder**: 4.69%
- **Floorman**: 26.56%
Middle East Water Total Lost Time Incidents by Body Part (Chart 5)
Based on 19 Incidents

- Head: 5.26%
- Neck: 5.26%
- Back: 5.26%
- Trunk/Torso: 5.26%
- Arm(s): 15.79%
- Hand(s) / Wrist(s): 21.05%
- Finger(s) (thumb(s)): 31.58%
- Leg(s): 10.53%
Middle East Water Total Recordable Incidents by Body Part (Chart 6)
Based on 64 incidents

- Finger(s) (thumb(s)) 39.06%
- Shoulder(s) 3.13%
- Knee(s) 1.56%
- Elbow(s) 1.56%
- Lungs/Respiratory 1.56%
- Digestive/Internal 1.56%
- Neck 3.13%
- Head 7.81%
- Back 3.13%
- Trunk/Torso 3.13%
- Arm(s) 7.81%
- Hand(s) / Wrist(s) 15.63%
- Legs 6.25%
- Feet/Ankles 4.69%
Middle East Water Total Lost Time Incidents by Incident Type (Chart 7)
Based on 19 Incidents

- Struck By: 15.79%
- Cut: 5.26%
- Jump: 5.26%
- Contact With Chemicals/Fluids: 5.26%
- Slip/Fall: Different Level: 15.79%
- Slip/Fall: Same Level: 21.05%
- Caught Between/In: 31.58%
Middle East Water Total Recordable Incidents by Incident Type (Chart 8)
Based on 64 Incidents

- Heat Exhaustion/Heat Stroke: 4.69%
- Struck Between/In: 29.69%
- Struck By: 14.06%
- Slip/Fall: Same Level: 10.94%
- Slip/Fall: Different Level: 10.94%
- Sprain: 1.56%
- Cut: 10.94%
- Flame/heat/steam exposed: 3.13%
- Electrical Shock: 1.56%
- Contact With Chemicals/Fluids: 1.56%
- Struck Against: 3.13%
- Debris: 1.56%
- Strain/Overexertion: 4.69%
- Jump: 1.56%
- Sprain: 1.56%
Middle East Water Total Recordable Incidents by Equipment (Chart 10)
Based on 61 Incidents

- Rig Floor Winch/Deck Winch: 6.56%
- Boat Cargo: 1.64%
- Tongs: 6.56%
- Elevators: 6.56%
- Welding, Cutting, Grinding Equipment: 3.28%
- Decks (grating, walkway): 9.84%
- Ladders: 1.64%
- Forklift: 1.64%
- Winch Truck: 1.64%
- Pressure Hoses/Lines: 4.92%
- Material: 4.92%
- BOP Stack (well head, tree): 3.28%
- Stairs: 4.92%
- Engines/Pumps/Machinery: 9.84%
- Hand Tools: Power: 1.64%
- Hand Tools: Manual: 3.28%
- Slings (rope, cable, chain, web): 1.64%
- Iron Roughneck, Pipe Spinner, etc.: 3.28%
- Slips (drill collar clamp): 1.64%
- Pipes/Collars/Tubulars/Casing: 18.03%
- Elevators: 6.56%

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Middle East Water Total Lost Time Incidents by Operation (Chart 11)
Based on 19 Incidents

- Jacking Up/Down Operations: 5.26%
- Tripping in/out: 10.53%
- Routine Drilling Operations: 5.26%
- Running Casing/Tubing: 15.79%
- Laying Down/Picking up Pipe: 10.53%
- Equipment Repairs or Maintenance: 5.26%
- Walking: 15.79%
- BOP Stack Install/Maintenance: 10.53%
- Rigging Up/Down Rig Move: 5.26%
- Material Handling: Crane/Cherry Picker: 5.26%
- Material Handling: Manual: 10.53%
Middle East Water Total Recordable Incidents by Operation (Chart 12)
Based on 63 Incidents

- Jacking Up/Down Operations: 1.59%
- Tripping In/out: 6.35%
- Making Connection: 3.17%
- Routine Drilling Operations: 3.17%
- Running Casing/Tubing: 6.35%
- Laying Down/Picking up Pipe/Tubing: 11.11%
- Material Handling: Manual: 11.11%
- Material Handling: Crane/Cherry Picker: 6.35%
- Material Handling: Forklift: 3.17%
- Material Handling: Rig Floor Winch: 1.59%
- Rigging Up/Down Rig Move: 3.17%
- BOP Stack Install/Maintenance: 6.35%
- Mud Mixing/Pumping: 3.17%
- Equipment Repairs or Maintenance: 17.46%
- Walking: 11.11%
- Cementing: 1.59%
- Well Test: 1.59%
- Training: 1.59%
- Equipment Repairs or Maintenance: 17.46%
- Well Testing: 1.59%
- Making Connection: 3.17%
- Routine Drilling Operations: 3.17%
- Running Casing/Tubing: 6.35%
- Laying Down/Picking up Pipe/Tubing: 11.11%
- Material Handling: Manual: 11.11%
- Material Handling: Crane/Cherry Picker: 6.35%
- Material Handling: Forklift: 3.17%
- Material Handling: Rig Floor Winch: 1.59%
- Rigging Up/Down Rig Move: 3.17%
- BOP Stack Install/Maintenance: 6.35%
- Mud Mixing/Pumping: 3.17%
- Equipment Repairs or Maintenance: 17.46%
- Walking: 11.11%
- Cementing: 1.59%
- Well Testing: 1.59%
- Training: 1.59%

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Middle East Water Total Lost Time Incidents by Location (Chart 13)
Based on 19 Incidents

- Rig Pad/Rig Decks (rig/well site/location, yard) 21.05%
- Cherry Picker/Crane 5.26%
- Jacking House 10.53%
- Work, change, storage room 5.26%
- Rig Floor 36.84%
- Pipe Rack/Pipe Deck 10.53%
- Derrick/Mast 5.26%
- BOP Stack (well head/tree) Area 5.26%
- Rig Pad/Rig Decks (rig/well site/location, yard) 21.05%

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Middle East Water Total Recordable Incidents by Location (Chart 14)
Based on 63 Incidents

- Mud Pump Room: 3.17%
- Jacking House: 3.17%
- Cherry Picker/Crane: 1.59%
- Rig Floor: 33.33%
- Pipe Rack/Pipe Deck: 12.70%
- Catwalk/V-door: 3.17%
- Derrick/Mast: 3.17%
- BOP Stack (well head/tree) Area: 4.76%
- Camp/Accommodations Areas: 3.17%
- Rig Pad/Rig Decks (rig/well site/location, yard): 15.87%
- Machinery Spaces: 6.35%
- Work, change, storage room: 3.17%
- Stairs/Ladders: 1.59%
- SCR/Electrical Room: 1.59%
- Mud Pits/Tanks: 1.59%
- Mud Mixing Tank/Area: 1.59%

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Middle East Water Total Lost Time Incidents by Time in Service (Chart 15)
Based on 19 Incidents

- 10+ yrs. 21.05%
- >5 yrs. < 10 yrs. 26.32%
- >1 yr. < 5 yrs. 31.58%
- >6 mos. < 1 yr. 10.53%
- >3 mos. < 6 mos. 5.26%
- 0 mo. < 3 mos. 5.26%
Middle East Water Total Recordable Incidents by Time in Service (Chart 16)
Based on 63 Incidents

- 10+ yrs.: 14.29%
- >5 yrs. < 10 yrs.: 20.63%
- >1 yr. < 5 yrs.: 44.44%
- >6 mos. < 1 yr.: 7.94%
- >3 mos. < 6 mos.: 4.76%
- 0 mo. < 3 mos.: 7.94%
- >6 mos. < 1 yr.: 7.94%
Middle East Water Total Lost Time Incidents by Time of Day (Chart 17)
Based on 19 Incidents

- 20:00: 5.26%
- 19:00: 5.26%
- 16:00: 10.53%
- 4:00: 5.26%
- 1:00: 5.26%
- 3:00: 5.26%
- 7:00: 5.26%
- 10:00: 5.26%
- 11:00: 5.26%
- 12:00: 5.26%
- 14:00: 15.79%
- 15:00: 10.53%
- 21:00: 5.26%
- 22:00: 5.26%
- 4:00: 5.26%
- 7:00: 5.26%
- 18:00: 5.26%
- 21:00: 5.26%
- 22:00: 5.26%

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Middle East Water Total Recordable Incidents by Time of Day (Chart 18)
Based on 64 Incidents

- 22:00: 3.13%
- 1:00: 4.69%
- 7:00: 6.25%
- 4:00: 6.25%
- 3:00: 3.13%
- 9:00: 6.25%
- 6:00: 1.56%
- 17:00: 3.13%
- 18:00: 1.56%
- 21:00: 1.56%
- 20:00: 2.27%
- 10:00: 6.30%
- 19:00: 1.56%
- 15:00: 6.25%
- 16:00: 10.94%
- 14:00: 9.38%
- 13:00: 6.25%
- 12:00: 7.81%

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Middle East Water Total Lost Time Incidents by Age (Chart 19)
Based on 18 Incidents

- 26 - 35: 55.56%
- 46 - 55: 11.11%
- 56 - 65: 5.56%
- 18 - 25: 5.56%
- 36 - 45: 22.22%
- 26 - 35: 55.56%
Middle East Water Total Recordable Incidents by Age (Chart 20)
Based on 53 Incidents

- 26 - 35: 56.60%
- 36 - 45: 19.87%
- 46 - 55: 15.09%
- 56 - 65: 1.89%
- 18 - 25: 7.55%