IADC

IADC
ISP PROGRAM

2015

Summary of Occupational Incidents
(South America Land Totals)

Issued 15 July 2016
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IADC 2015 South America Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Manhours</td>
<td>22,377,092</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>20</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>33</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>28</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>81</td>
</tr>
</tbody>
</table>

- MTO Incidence Rate: 0.18
- RWC Incidence Rate: 0.29
- LTI Incidence Rate: 0.25
- LTI Frequency Rate: 1.25
- DART Incidence Rate: 0.55
- DART Frequency Rate: 2.73
- Recordable Incidence Rate: 0.72
- Recordable Frequency Rate: 3.62

Companies Reporting: Land – 8

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
Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
DART Incidence Rate = LTIs + RWC X 200,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Incidence Rate = RCRD X 200,000
Recordable Frequency Rate = RCRD X 1,000,000

South America Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2015 South America Land Charts
South America Land Total Lost Time Incidents by Month (Chart 1)
Based on 28 Incidents

- January: 14.29%
- February: 10.71%
- March: 3.57%
- April: 21.43%
- May: 17.86%
- June: 3.57%
- August: 7.14%
- September: 7.14%
- October: 7.14%
- December: 7.14%

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South America Land Total Recordable Incidents by Month (Chart 2)
Based on 81 Incidents

January: 9.88%
February: 9.88%
March: 7.41%
April: 11.11%
May: 16.05%
June: 12.35%
July: 6.17%
August: 4.94%
September: 8.64%
October: 2.47%
November: 4.94%
December: 6.17%
South America Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 28 Incidents

- Floorman: 25.00%
- Derrickman: 17.86%
- Electrician (Electronic Technician): 10.71%
- Electrician (Electronic Technician): 10.71%
- Toolpusher (Asst.TP, Tourpusher): 3.57%
- Rig Helper: 17.86%
- Superintendent/other Supervisors: 3.57%
- Barge Engineer/Ballast Control Op.: 3.57%
- Mechanic (Repair Technician): 7.14%
- Motorman: 3.57%
- Roustabout (Lease Hand): 7.14%
South America Land Total Recordable Incidents by Occupation (Chart 4)
Based on 81 Incidents

- Superintendent/other Supervisors: 4.94%
- Crane Operator (Forklift Operator): 3.70%
- Mechanic (Repair Technician): 6.17%
- Electrician (Electronic Technician): 4.94%
- Toolpusher (Asst. TP, Tourpusher): 3.70%
- Driller (Asst. Dr.): 2.47%
- Derrickman: 14.81%
- Rig Helper: 6.17%
- Welder: 1.23%
- Barge Engineer/Ballast Control Op.: 1.23%
- Roustabout (Lease Hand): 16.05%
- Floorman: 33.33%
- Motorman: 1.23%
- Electrician (Electronic Technician): 4.94%
- Crane Operator (Forklift Operator): 3.70%
South America Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 27 Incidents

- Finger(s) 44.44%
- Hand(s) / Wrist(s) 18.52%
- Trunk/Torso (chest, abdomen, groin) 3.70%
- Arm(s) 3.70%
- Eyes (eyelid) 3.70%
- Elbow(s) 7.41%
- Shoulder(s) 3.70%
- Feet/Ankles 7.41%
- Leg(s) 3.70%
- Knee(s) 7.41%
- Trunk/Torso (chest, abdomen, groin) 3.70%
South America Land Total Recordable Incidents by Body Part (Chart 6)
Based on 79 Incidents

- Finger(s): 62.03%
- Hand(s) / Wrist(s): 12.66%
- Head: 5.06%
- Shoulder(s): 1.27%
- Elbow(s): 1.27%
- Knee(s): 3.80%
- Eyes (eyelid): 2.53%
- Trunk/Torso (chest, abdomen, groin): 3.80%
- Arm(s): 2.53%
- Feet/Ankles: 3.80%
- Leg(s): 1.27%
- Trunk/Torso (chest, abdomen, groin): 3.80%
South America Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 28 Incidents

- Struck By: 39.29%
- Struck Against: 7.14%
- Caught Between/In: 28.57%
- Slip/Fall: Different Level: 10.71%
- Slip/Fall: Same Level: 7.14%
- Contact With Chemicals/Fluids: 3.57%
- Flame/heat/steam (contact/exposed): 3.57%
South America Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 861 Incidents

- Caught Between/In: 40.74%
- Struck By: 27.16%
- Struck Against: 8.64%
- Slip/Fall: Same Level: 8.64%
- Slip/Fall: Different Level: 7.41%
- Contact With Chemicals/Fluids: 2.47%
- Flame/heat/steam (contact/exposed): 1.23%
- Sprain: 1.23%
- Cut: 2.47%
South America Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 26 Incidents

Engines/Pumps/Machinery: 19.23%
Hand Tools: Power: 3.85%
Hand Tools: Manual: 3.85%
Slings (rope, cable, chain, web): 11.54%
Pipes/Collars/Tubulars/Csg.: 11.54%
Well Control (BOP) Stack (well head, tree): 11.54%
Material: 11.54%
Stairs: 3.85%
Pressure Hoses/Lines: 3.85%
Forklift: 3.85%
Ladders: 3.85%
Slips (drill collar clamp): 7.69%
Decks (grating, walkway): 3.85%
South America Land Total Recordable Incidents by Equipment (Chart 10)
Based on 76 Incidents

- Tongs: 6.58%
- Elevators: 5.26%
- Slips (drill collar clamp): 3.95%
- Iron Roughneck, Pipe Spine: 2.63%
- Pipes/Collars/Tubular: 14.47%
- Cathead/Drawwo: 3.95%
- Slings (rope, cable, chain, wet): 5.26%
- Hand Tools: Power: 3.95%
- Hand Tools: Manual: 7.89%
- Engines/Pumps/Machinery: 9.21%
- Stairs: 1.32%
- Material: 6.58%
- Pressure Hoses/Lines: 6.58%
- Ladders: 1.32%
- Forklift: 2.63%
- Chemcats (sack, drum, pail, bulk hopper): 1.32%
- Decks (grating, walkway): 6.58%
South America Land Total Lost Time Incidents by Operation (Chart 11)
Based on 28 Incidents

- Tripping in/out (makeup/brakeout BHA, test tools, etc.) 14.29%
- Making Connection 3.57%
- Routine Drilling Operations 21.43%
- Rig/Equipment Repairs or Maintenance 25.00%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance 7.14%
- Training 3.57%
- Material Handling: Forklift 3.57%
- Rigging Up/Down (rig move preparation, rig move) 21.43%

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South America Land Total Recordable Incidents by Operation (Chart 12)
Based on 81 Incidents

- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 7.41%
- Rigging Up/Down (rig move preparation, rig move): 20.99%
- Material Handling: Forklift: 2.47%
- Material Handling: Manual: 2.47%
- Laying Down/Picking up Pipe/Tubulars: 7.41%
- Running Casing/Tubing (rig up/down csg. tools): 3.70%
- Routine Drilling Operations: 18.52%
- Making Connection: 1.23%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.): 20.99%
- Rig/Equipment Repairs or Maintenance: 12.35%
- Travel/Transportation: 1.23%
- Training: 1.23%
South America Land Total Lost Time Incidents by Location (Chart 13)
Based on 28 Incidents

- Engine Room/Generator Room: 10.71%
- Rig Pad/Rig Decks: 17.86%
- Cellar / Substructure / Moonpool: 10.71%
- Mud Pump Room: 7.14%
- SCR/Electrical Room: 3.57%
- Mud Mixing Tank/Area: 7.14%
- Well Control (BOP Stack, well head/tree) Area: 7.14%
- Stairs/Ladders: 3.57%
- Shale Shaker: 3.57%
- Rig Floor (rotary, pipe set back area): 14.29%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 7.14%
- Machinery Spaces: 3.57%
- Rig Pad/Rig Decks: 17.86%
South America Land Total Recordable Incidents by Location (Chart 14)
Based on 79 Incidents

- Rig Floor (rotary, pipe set back area): 35.44%
- Living / Camp Areas / Accommodations: 1.27%
- Cellar / Substructure / Moonpool: 6.33%
- Rig Pad/Rig Decks: 12.66%
- Stairs/Ladders: 1.27%
- SCR/Electrical Room: 1.27%
- Engine Room/Generator Room: 3.80%
- Mud Pits/Tanks: 3.80%
- Shale Shaker: 2.53%
- Mud Mixing Tank/Area: 6.33%
- Well Control (BOP) Stack (well head/tree) Area: 7.59%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 6.33%
- Catwalk/V-door: 1.27%
- Pipe Rack/Pipe Deck: 2.53%
- Halliburton Inc. Mud Pump Room: 5.06%
- Machinery Spaces: 1.27%
South America Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 28 Incidents

- 10+ yrs.: 10.71%
- 0 mo. < 3 mos.: 21.43%
- >5 yrs. < 10 yrs.: 39.29%
- >3 mos. < 6 mos.: 7.14%
- >6 mos. < 1 yr.: 17.86%
- >1 yr. < 5 yrs.: 3.57%
- 0 mo. < 3 mos.: 21.43%
South America Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 81 Incidents

- 10+ yrs. 7.41%
- >5 yrs. < 10 yrs. 22.22%
- >1 yr. < 5 yrs. 19.75%
- >6 mos. < 1 yr. 13.58%
- >3 mos. < 6 mos. 12.35%
- 0 mo. < 3 mos. 24.69%
South America Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 28 Incidents

- 9:00: 21.43%
- 10:00: 17.86%
- 11:00: 7.14%
- 12:00: 3.57%
- 13:00: 3.57%
- 14:00: 3.57%
- 15:00: 3.57%
- 16:00: 3.57%
- 17:00: 7.14%
- 18:00: 7.14%
- 19:00: 7.14%
- 20:00: 3.57%
- 21:00: 3.57%
- 22:00: 3.57%
- 23:00: 3.57%
- 00:00: 3.57%
- 01:00: 3.57%
- 02:00: 3.57%
- 03:00: 3.57%
- 04:00: 3.57%
- 05:00: 3.57%
- 06:00: 3.57%
- 07:00: 3.57%
- 08:00: 14.29%
South America Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 81 Incidents

- 14:00: 6.17%
- 13:00: 7.41%
- 22:00: 2.47%
- 21:00: 3.70%
- 20:00: 6.17%
- 18:00: 8.64%
- 17:00: 7.41%
- 16:00: 1.23%
- 15:00: 1.23%
- 14:00: 6.17%
- 13:00: 7.41%
- 12:00: 8.64%
- 11:00: 4.84%
- 10:00: 8.64%
- 9:00: 9.88%
- 8:00: 8.64%
- 7:00: 3.70%
- 6:00: 2.47%
- 5:00: 2.47%
- 4:00: 2.47%
- 3:00: 1.23%
- 2:00: 4.94%
- 1:00: 4.94%
- 12:00: 2.47%
- 23:00: 1.23%
- 24:00: 1.23%
- 4:00: 4.94%
- 00:00: 1.23%
- 23:00: 1.23%
- 22:00: 1.23%
South America Land Total Lost Time Incidents by Age (Chart 19)

Based on 27 Incidents

- 18 - 25: 18.52%
- 26 - 35: 44.44%
- 36 - 45: 33.33%
- 46 - 55: 3.70%
South America Land Total Recordable Incidents by Age (Chart 20)
Based on 68 Incidents

- 26 - 35: 38.24%
- 36 - 45: 32.35%
- 46 - 55: 13.24%
- 56 - 65: 1.47%
- 18 - 25: 14.71%