Creating Healthy & Safe work Place in Oil & Gas Sector

14 December, 2013

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Safety as a Core Value

- “Every life has equal value” - Focus not just on employees but also on contractors and local community

- Integrated approach based on international best practices
  - Process Safety
  - Personal Safety
HSE incidents have put the spotlight on the Oil and Gas industry

SELECTED HSE INCIDENTS IN THE PAST DECADE

<table>
<thead>
<tr>
<th>Year</th>
<th>Country</th>
<th>Incident</th>
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</thead>
<tbody>
<tr>
<td>1988</td>
<td>UK</td>
<td>Piper Alpha</td>
</tr>
<tr>
<td>1988</td>
<td>Brazil</td>
<td>Petrobras 36</td>
</tr>
<tr>
<td>2001</td>
<td>Mexico</td>
<td>Usumacinta</td>
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<tr>
<td>2007</td>
<td>Australia</td>
<td>Montara</td>
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<td>2009</td>
<td>USA</td>
<td>Deepwater Horizon</td>
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<tr>
<td>2010</td>
<td>Nigeria</td>
<td>Bonga</td>
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<tr>
<td>2011</td>
<td>Brazil</td>
<td>Frade</td>
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<tr>
<td>2011</td>
<td>Russia</td>
<td>Kolskoya, Sakhaline</td>
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</tbody>
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Source: Ministry of Labor's (MoL) Indian Labor Statistics
Oil companies do not want headlines with Disasters!!

In India, we have an average annual incidence of 1,400 fatal and one lakh non-fatal accidents in non-domestic workplaces*

MORE THAN 90% OF ALL ACCIDENTS ARE AVOIDABLE, CAUSED BY HUMAN ERROR RATHER THAN BY MECHANICAL FAILURE

Source: Ministry of Labor's (MoL) Indian Labor Statistics
Top 5 Recommendations from Global HSE Conference (1/2)

1. Leadership and Management Commitment

2. Work Force Engagement
   - Fundamental to improve the Safety Performance
   - Step Change in Safety - “a UK Government initiative based on equal partnership among the regulator (UK HSE), Industry body and the employee unions”
Top 5 Recommendations - Contd (2/2)

3. Emergency Preparedness
   - Collaboration between industry and the Government is critical
   - NDMA’s responsibility should be expanded to cover Industrial Disasters along with Natural Disasters

4. Occupational Health
   - Every Organization must have a robust occupational health management system to improve the overall wellbeing of the employees.

5. Single Regulatory Body
   - OISD to be made the sole regulator for Oil & Gas industry in India.
HSE spend is not an expense, but an investment!

OUR INDUSTRY IS A HAZARDOUS INDUSTRY SO WE HAVE MORE RESPONSIBILITY TO PROMOTE HSE CULTURE !!
Thank You