Update on ASMI Safety Thrusts & Initiatives
2006/2007

31 July 2006

Abu Bakar Mohd Nor
Chairman, ASMI Safety Committee, and
General Manager (Operations), Keppel Shipyard
Halve current Fatality rate by 2015

Principles of New OSH Framework

<table>
<thead>
<tr>
<th>Country / Region</th>
<th>Occupational Fatality Rate #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sweden</td>
<td>1.2</td>
</tr>
<tr>
<td>United Kingdom</td>
<td>1.3</td>
</tr>
<tr>
<td>Australia</td>
<td>2.0</td>
</tr>
<tr>
<td>USA (2000)</td>
<td>2.2</td>
</tr>
<tr>
<td>EU15 Average</td>
<td>2.5</td>
</tr>
<tr>
<td>Japan</td>
<td>2.6</td>
</tr>
<tr>
<td>Singapore (2004)</td>
<td>4.9</td>
</tr>
<tr>
<td>Taiwan (2001)</td>
<td>6.9</td>
</tr>
<tr>
<td>Hong Kong SAR</td>
<td>8.6</td>
</tr>
<tr>
<td>Malaysia</td>
<td>10.8</td>
</tr>
</tbody>
</table>

# Occupational Death per 100,000 workers
Initiatives / Enablers To Support New Framework

WSH Advisory Committee

ProBe Program (National Intel-Led OSH Engagement)

Workplace Safety & Health Act 1st Mar 2006

Risks Management

iReport
Beyond Regulations...
ASMI Incident Free Work Environment

Beyond Regulation
Zero Tolerance Level
Better Integration of Practices
Building Safety Culture
Raising Safety Ownership Of Supervisors
Mental Model

“Safety is driven by technical knowledge and respect for each individual”
STRATEGIC THRUST
(1)

Internalise SAFETY CULTURE & Develop Shared OWNERSHIP
STRATEGIC THRUST (2)

Enhance COMPETENCIES
STRATEGIC THRUST

(3)

Increase CONNECTIVITY
Summary STRATEGIC THRUSTS

(1) Internalise SAFETY CULTURE & Develop Shared OWNERSHIP

(2) Enhance COMPETENCIES

(3) Increase CONNECTIVITY
Thruster (1)
Internalise Safety Culture & Develop Shared Ownership

Action Plans
(Mind – Body – Soul)

- Formalise Risk Management Approach
- Operationalise Risk Management
- Standardise Risk Assessment Practice
- “Risk Management Assistance Fund”
  RMAF Agent
<table>
<thead>
<tr>
<th>Trade-based</th>
<th>Champions</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scaffold (Done)</td>
<td>Sembawang Shipyard</td>
</tr>
<tr>
<td>Tank Cleaning (Done)</td>
<td>Keppel Shipyard</td>
</tr>
<tr>
<td>Steelwork (Done)</td>
<td>Keppel Shipyard</td>
</tr>
<tr>
<td>Blasting &amp; Painting (Done)</td>
<td>ST Marine</td>
</tr>
<tr>
<td>Mechanical</td>
<td>Jurong Shipyard</td>
</tr>
<tr>
<td>Piping (31 August)</td>
<td>Keppel FELS</td>
</tr>
<tr>
<td>Electrical (17 August)</td>
<td>Pan-United Marine</td>
</tr>
<tr>
<td>Transporting</td>
<td>PPL Shipyard</td>
</tr>
</tbody>
</table>
Thrust (2)
Enhance Competencies

Enhance Innovations & R&D

Develop Benchmarking

Enhance Skills, Standards & Trainings

Identify Areas for Improvement
Conduct HSE R&D
Information Sharing Database

Adopt BEST Practices
Measurements & Rating System
Develop Guides

Competency Standards
Integrate HSE into Training framework
Inter-active learning “Multi-Media”

Action Plans
(Mind – Body – Soul)
Thrust (3)
Increase Connectivity

Communication, Publicity & Promotions

“Community” Outreach Program

Recognition & Incentives Scheme
Enhance Information Sharing across “Stakeholders”

Action Plans
(Mind – Body – Soul)
### Mission

- **(Mind)** Internalise Safety Culture & Develop Shared Ownership
- **(Body)** Enhance Competencies
- **(Soul)** Increase Connectivity

### Strategic Thrusts

- **1. Operationalise Risk Management**
- **2. Enhance Innovations & R&D**
- **3. Develop Benchmarking**
- **4. Enhanced skills, standards and training**
- **5. Communications, Promotions & Publicity**

### Action Plans

- Missions:
  - **(Mind)** Internalise Safety Culture & Develop Shared Ownership
  - **(Body)** Enhance Competencies
  - **(Soul)** Increase Connectivity

- **BEYOND REGULATIONS**

**HSE Framework**
<table>
<thead>
<tr>
<th>Action Plans</th>
<th>(1) Operationalise Risk Management</th>
<th>(2) Enhance Innovations &amp; R&amp;D</th>
<th>(3) Develop Benchmarking</th>
<th>(4) Enhanced skills, standards and training</th>
<th>(5) Communications, Promotions &amp;</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sponsors</strong></td>
<td>ASMI</td>
<td>Jurong Shipyard</td>
<td>Keppel Shipyard / ST Marine</td>
<td>Sembawang Shipyard</td>
<td>Keppel FELS</td>
</tr>
<tr>
<td><strong>Main Initiatives</strong></td>
<td>Standardise risk assessment</td>
<td>Identify Area for improvements</td>
<td>Adopt Best Practices</td>
<td>Develop Competency Standards</td>
<td>Recognition and Incentives System</td>
</tr>
<tr>
<td></td>
<td>Formalise risk-management approach.</td>
<td>Conduct HSE R&amp;D.</td>
<td>HSE Measurements and Rating systems.</td>
<td>Integrate HSE into Training</td>
<td>Stakeholders' Information Sharing</td>
</tr>
<tr>
<td></td>
<td>&quot;Risk-Management Assistance Fund&quot; Agent</td>
<td>Information Sharing Database</td>
<td>Develop Guides</td>
<td>Enhanced Interactive Learning - Multimedia</td>
<td>&quot;Community&quot; Outreach Programs</td>
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</table>
"If you want to be successful, it’s just this simple: Know what you are doing, Love what you’re doing & Believe in what you are doing. It’s just this simple." - Will