

Annex B

Fact Sheet on Construction 2011 Initiatives

To address the continued high number of fatalities in the construction sector, WSH Council and MOM will roll out more initiatives in 2011, aligned to the key strategies outlined in Construction WSH sectoral plan launched in 2010.

Design for Safety (DfS) Mark

2 Following the launch of the Guidelines on Design for Safety in Buildings and Structures in Nov 2008, and the roll-out of the DfS Coordinator (previously named Project Safety and Health Coordinator) Course in Aug 2010, WSH Council will be introducing the DfS Mark in 2011. This is a recognition scheme for developers who have adopted DfS and will be awarded on project basis upon assessment. Details for the scheme are being finalised at the moment and will be released at a later date.

Additional info for DfS:

[Guidelines on Design for Safety in Buildings and Structures](#)

WSH Council launched the Guidelines on Design for Safety (DfS) in Buildings and Structures in Nov 2008. The Guidelines serve to assist key stakeholders (client, DfS coordinator, designer and main contractor) on the process of design safety and the transfer of vital safety information along the construction process chain, from conceptualisation to design, construction, maintenance and demolition. In particular, the Guidelines introduced a new role, the DfS Coordinator, who is key in helping to implement and manage DfS for worksites.

Since the launch of the Guidelines, multiple agencies and developers have taken the move to include DfS in selected projects. They include City Developments Limited, Frasers Centrepoint Homes, MOE and JTC Corporation.

DfS Coordinator Course

To equip the industry with relevant competencies to effectively implement DfS, WSHC and MOM jointly developed and introduced the competency-based DfS

Coordinator Course in Aug 2010 This was done with the support of various associations, including Real Estate Developers' Association of Singapore (REDAS), Singapore Institute of Architects, the Institution of Engineers Singapore (IES), Association of Consulting Engineers Singapore (ACES), the Singapore Contractors Association Limited (SCAL) and Singapore Institute of Surveyors and Valuers (SISV).

Initiatives under Pledge-for-Zero CEO Commitment Charter

3 The "Pledge-for-Zero (PfZ) CEO Commitment Charter" was launched at the inaugural Construction CEO Summit organised by WSHC in November 2008. 19 developers and contractors (see Annex B1 below for the list) adopted the pledge and committed to establish a zero injury workplace. As signatories of the pledge, these companies (PfZ companies) are required to report, in concrete terms, their safety and health challenges, progress, successes, initiatives and statistics.

4 Since the adoption of the pledge, PfZ companies have been fostering an environment of zero tolerance to workplace incidents within their own organisations. Total WSH investment by these companies in 2010 was S\$60m, up from S\$40m in 2009. The median minimum WSH training hours among employees of these companies as well as those involved in their projects was nearly 14 hours in 2010, up slightly from 12 hours in 2009. All PfZ companies have also put in place WSH management plans for contractors, and most have implemented a system of tracking lead indicators of incidents such as near-misses. In 2011, the top WSH focus areas for these companies include falling from height; and stepping on, striking against or struck by objects. These are largely in line with the top incident types for Construction fatality in 2010. In terms of WSH performance, the number of Construction related fatalities accounted for by these companies was 7 in 2010, down from 13 in 2009. The median Accident Frequency Rate (AFR) of these companies of 0.2 were also well below the industry AFR of 2.2.

5 Top management of these companies share best practices every year at the Construction CEO Roundtable to share their progress and discuss initiatives they can implement to create a safer environment for their organisation and the

construction industry. Today, the PfZ companies are already able to influence a significant proportion of the industry players as they account for many construction activities in Singapore. As more companies to adopt the pledge, the influence of the PfZ companies will effect more extensive changes in the industry.

6 For 2011, the PfZ companies will engage in these initiatives:

(i) Safety and Health Active Review (SHARe) for PfZ

Safety and Health Active Review (SHARe) is a programme developed by the WSHC to promote self regulation and enhance WSH performance through inter-workplace visitations. During these visits, participants will observe WSH implementation at workplaces, share best practices and knowledge, examine unsafe acts and condition, and provide recommendations and feedback for improvement

Through this engagement, the WSHC aims to inspire greater WSH ownership amongst industry stakeholders. It also creates an opportunity for participating workplaces to proactively share WSH management systems, lessons learnt as well as good practices across the industry.

A pilot for the programme has been ongoing since April 2010 in the Marina Bay area among 5 developments and it has recently entered its second phase. Through the pilot, we saw benefits such as stronger support from developers for contractors in terms of WSH, and cascading of good practices across projects. This year, the programme will be extended to selected projects under the PfZ companies.

Additional info for SHARe:

Programme Details

There are 3 phases to SHARe. Phase 1 is carried out between projects. Phase 2 is carried out between main contractors. Phase 3 is carried out between sub-contractors.

SHARe adopts a theme-based approach to help companies address specific concerns at their workplaces. This programme is carried out regularly with a different theme. Examples of such themes are *work at height* and *equipment safety*. The work scope and process that SHARe will cover include the following:

- Each visit is conducted by a team of 3 members, e.g. 1 Management Staff from the developer, 1 Management Staff from the contractor, and 1 WSH Personnel involved in the project.
- The participants will:
 - Observe WSH implementations at workplaces;
 - Share best practices and knowledge;
 - Examine unsafe acts and condition;
 - Provide recommendations and feedback for improvement.

An example of what happens at a visit could be as follows:

- Team A visits Team B's site and makes WSH observations based on session theme.
- Team B immediately follows up on any recommendation for improvement.
- Team A shares findings at Sub-committee meeting with photographs.
- Team A and other Sub-committee members bring back select good practices to own sites for implementation.
- Developer of Team B site is requested to assist in WSH follow up where necessary.

(ii) Adoption of DfS

Recognising the importance of incorporating risk management throughout the construction life cycle (from conceptualisation to design, construction, maintenance and demolition), PfZ companies have committed to include DfS in at least one new project in FY 2011. To facilitate the adoption of DfS, the companies will also be sending a staff / consultant for the DfS Coordinator course.

Construction WSH Study

7 WSHC commenced a Construction WSH Study early this year to understand the systemic issues and challenges that contractors face. The study will focus on SMEs as they account for a significant proportion of the workers employed as well as work performed in the sector. In addition, among SMEs, the larger and micro ones also face different sets of challenges. The study will interview stakeholder groups in the construction value chain to understand the challenges for different types of construction work, from large building projects to simpler alteration and addition works. Knowledge gained from the study will allow WSHC to develop specific measures to help SMEs as well as allow developers and larger contractors to play a bigger role in supporting their subcontractors to raise WSH management standards. WSHC will formulate specific measures based on the study's findings later this year.

Annex B1

LIST OF PLEDGE FOR ZERO COMPANIES

Category	Organisation
Developer	Allgreen Properties Limited
Developer / Contractor	Lend Lease Singapore Pte. Ltd
Developer	City Developments Ltd
Contractor	Dragages Singapore Pte Ltd
Developer	Far East Organization
Developer	Frasers Centrepoint Homes
Contractor	Gammon Pte. Limited
Contractor	Hexacon Construction Pte Ltd
Developer	Housing & Development Board
Developer	JTC Corporation
Developer	Land Transport Authority
Contractor	Penta Ocean Construction Co. Ltd.
Contractor	Rotary Engineering Limited
Contractor	Sembawang Engineers and Constructors Pte Ltd
Contractor	Shimizu Corporation
Contractor	Tiong Seng Contractors (Private) Limited
Developer / Contractor	United Engineers Limited
Developer	Wing Tai Land Pte Ltd
Developer / Contractor	Woh Hup (Private) Limited