MANAGEMENT OF TEMPORARY WORKS

CONSTRUCTION ENGINEERING SPECIALIST TEAM
2010/11 Management of Temporary Works Project

- Promote awareness and knowledge of the importance of managing temporary works
- Improve contractors’ management arrangements of temporary works
- Increase the competency of those engaged in temporary works management and design
- Reduce accidents arising from temporary works failures
What is Temporary Works?

• Defined in BS 5975
• An ‘engineered solution’ used to
  – Support or protect an existing structure or the permanent works during construction
  – Support an item of plant or equipment
  – Support an excavation
  – Provide access
Examples of Temporary Works

• Earthworks
  – Trenches, excavations, temporary slopes and stockpiles. Cofferdams

• Structures
  – Formwork, falsework, propping, façade retention, needling, shoring, edge protection, temporary bridges, site hoarding and signage, site fencing.

• Equipment/plant foundations
  – Tower crane bases, supports, anchors and ties for hoists, MCWPs, crane and piling platforms
Guidance on Design and Management of Temporary Works

- BS5975 : 2008 Code of practice for temporary works procedures and the permissible stress design of falsework
- SIM 02/2010/04 : The management of temporary works in the construction industry
- www.temporaryworks.info
BSI British Standards

Code of practice for temporary works procedures and the permissible stress design of falsework
BS 5975:2008

- Recommendations and guidance on procedural controls to all aspects of temporary works and on design of falsework
- Cl. 5 Legislation
- Section 2 : Procedural control of temporary works
- Section 3 : Design
The management of temporary works in the construction industry

SUMMARY

The document provides guidelines on the management of temporary works in the construction industry.

http://www.occupationalhealth.co.uk/content/2/10/04.htm 02/02/2011

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Roles and Responsibilities

• Design Brief
• Temporary Works Co-ordinator
• Temporary Works Supervisor
• Temporary Works Register
• Use of specialist contractors and suppliers
• CDM-C Role?
# The Role of the Temporary Works Coordinator

- Explained in SIM and BS5975
- Qualifications and Experience
- TW Training
- Authority to stop the works without referral elsewhere
- Other roles on site
The Role of the Temporary Work Supervisor

- Explained in SIM and BS5975
- Qualifications and Experience
- TW Training
- Other roles on site
Design of the Temporary Works

• Is there a documented design brief?

• Is the design undertaken in-house, external supplier, subcontractor, permanent works engineer, combination of these?

• Standard proformas?

• Methods of communication?
Temporary Works – Proprietary Equipment

• Proprietary equipment supplier
  – Have they designed the foundations?
  – Any assumptions made that the PC has to confirm/investigate
  – Independent checking? By who?
  – Status of drawings
  – Checking procedures on site
Temporary Works Management
Arrangements Suitable for Small Contractors

• Are principles of BS5975 in place:
  – Ensuring a competent designer/adviser is in place to supply an engineered solution
  – Adequate communication
  – Design checking to an appropriate level
  – Suitable checks on erection/installation
  – Someone co-ordinating the whole process
The Role of the CDM-C in Management of Temporary Works

- Any involvement with the temporary works?
- Checks on competence on designers
- Steps taken to ensure co-operation between the permanent and temporary works designers
- Discussed at CDM co-ordination or site meetings
- Advise clients on the suitability of the initial construction phase plan. i.e. the arrangements for controlling significant site risks