

# **TC250/SC7/EG8: Harmonization**

## **Progress Report No 2 for the period April-Dec 2012**

### **AGREED SCOPE OF WORK**

The remit of EG8 is to advise TC250/SC7 on possible harmonization of the rules published in the various National Annexes to Eurocode 7 Parts 1 and 2. The overall aim is to consolidate any common rules that appear in these National Annexes and to remove unnecessary differences between the rules.

EG8 will prepare a report to SC7 outlining the changes that could be made to Eurocode 7 to improve harmonization.

### **KEY ISSUES UNDER DISCUSSION**

- Review the National Annexes to EN 1997-1 and -2 that have been published by the National Standards Bodies (NSBs) in the various European member states.
- Identify and summarize the key technical impact of any non-contradictory, complementary information (NCCI) produced in each country relevant to Eurocode 7; and to differentiate between potentially restricting rules and purely complementary rules
- Consider whether the three Design Approaches could be simplified, reduced, or eliminated, without removing the flexibility in design provided by their existence in the current version of Eurocode 7.
- Identify National Determined Parameters (NDPs) that do not differ significantly between countries, with a view to elimination them from national variation.
- Identify NDPs that differ significantly between countries, in order to understand the reason for those differences. To consider what change could be made to Eurocode 7 to accommodate these differences without the need for different NDPs.
- Identify common rules that appear in National Annexes, but not in Eurocode 7, with a view to moving them to Eurocode 7.
- Prepare a report to SC7 setting out the changes to Eurocode 7 that would allow further harmonization of the standard.

### **DECISIONS/OUTCOMES**

- Proposal to replace Design Approaches with Material Strength Design (MSD) and Load and Resistance Design (LRD) approaches – agreed at Experts meeting in Brussels
  - If possible, DA1 and DA3 to be combined and replaced by MSD

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- DA2 and DA2\* to be combined and replaced by LRD
- Specify that slope design to be performed using MSD
- Specify that pile design to be performed using LRD
- Allow design of other structures to be performed using MSD or LRD
- Add serviceability criteria to next version of Eurocode 7
- Add common site investigation rules to next version of Eurocode 7
- Add allowable bearing pressures to next version of Eurocode 7
- Introduce reliability discrimination to next version of Eurocode 7

## MEETINGS HELD/PLANNED

| Tele-meeting no. | Date held/scheduled  | Available from webpage? |
|------------------|--|-------------------------|
| 2011             | 25 Oct, 22 Sep, 22 Aug                                       | Yes                     |
| 2012             | 19 Sep, 14 Aug, 25 Jun,<br>21 May, 13 Mar, 13 Feb,<br>12 Jan | Yes                     |
| 2013             | tba  |                         |

## ACTIVE MEMBERSHIP

| Name                               | Position* | Country     | Listed on webpage? |
|------------------------------------|-----------|-------------|--------------------|
| <b>Dr Andrew Bond</b>              | Convenor  | UK          | Yes                |
| <b>Tim Lansivaara</b>              | Secretary | Finland     | Yes                |
| <b>Sébastien Burlon</b>            |           | France      | Yes                |
| <b>Martin Ziegler</b>              |           | Germany     | Yes                |
| <b>Giuseppe Scarpelli</b>          |           | Italy       | Yes                |
| <b>Adriaan van Seters</b>          |           | Netherlands | Yes                |
| <b>Fernando Pardo de Santayana</b> |           | Spain       | Yes                |
| <b>Magnus Karlsson</b>             |           | Sweden      | Yes                |

|                      |  |    |     |
|----------------------|--|----|-----|
| <b>Brian Simpson</b> |  | UK | Yes |
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\*please indicate Convenor/Secretary

## REPORT PREPARED BY:

Dr Andrew Bond

21 January 2013