**TC250/SC7/EG2: Ease of use**

**(draft) Final Report 2014**

# Agreed Scope of work

* Remove material readily available in text books and other NCCI documents.
* Remove repetition of principles and application rules across the two parts of EN 1997.
* Restructure the two parts with respect to ground investigations: with the provisions for planning, execution and evaluation of derived geotechnical parameters in EN 1997-2 and the evaluation of characteristic geotechnical parameters based on the derived values in EN 1997-1

# Key issues under discussion

* Principles to improve the ease of use of EC 7
* Discussion of Section 2 *Planning* of EN 1997-2
* Discussion of Section 4 *Field tests* of EN 1997-2
* Discussion of Section 5 Laboratory tests of EN 1997-2
* Discussion of the Annexes of EN 1997-1 and EN 1997-2

# Decisions/outcomes

* Principles to improve the ease of use (see Annex 1 to this report).
* Detailed principles to be applied for EN 1997-2 and specifically for Section 4 *Field tests* and5 *Laboratory tests* (see Annex 2 to this report).
* For EN 1997-1 EG2 proposes to delete Section 3 Geotechnical data as it is covered by EN 1997-2. In the next version on EN 1997-1 Section 3 should contain the provisions describing the establishment of characteristic values.
* Decisions which informative annexes of EN 1997-2 should be kept in EN 1997-2, and which should be dealt with in future EN 1997-3 (see Annex 3 to this report).
* Sections 4 *Field tests* and 5 *Laboratory tests* have been improved and reduced according to the above mentioned principles as two-column-version (see Annex 4, 5 and 6 to this report).

# Meetings held/planned

|  |  |  |
| --- | --- | --- |
| Meeting no. | Date held/scheduled | Available from webpage? |
| 1 | 26th April 2012 | Yes |
| 2 | 21th June 2012 | Yes |
| 3 | 11th September 2012 | Yes |
| 4 | 24th October 2012 | Yes |
| 5 | 11th December 2012 | Yes |
| 6 | 5th February 2013 |  |
| 7 | 19 March 2013 | YES |
| 8 | 23 April 2013 | YES |
| 9 | 27 May 2013 | Yes |
| 11 | 14 October 2013 | yes |
| 12 | 29 November 2013 | yes |
| 13 | 17 January 2014 | yes |
| 14 | 21 February 2014 | yes |
| 15 | 27. March | yes |
| 16 | 25. April | yes |
| 17 | 2. June | yes |
| 18 | 3. July | yes |
| 19 | 28. August |  |

# Active membership

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Position\* | Country | Listed on webpage? |
| Bernd Schuppener (BS), | Convenor | GE |  |
| Vincenzo Pane (VP), |  | IT |  |
| Chris Danilewicz (CD), | Secretary | UK |  |
| John Powell (JP), |  | UK |  |
| Frederic Rocher-Lacoste |  | F |  |
| Herbert Walter (HW) |  | AUT |  |
| Jose Estaire, (JE), |  | ES |  |
| Wolfgang Hazivar (WH) |  | AUT |  |

# Report prepared by:

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**Annex 1:** Principles to improve the ease of use of EC 7

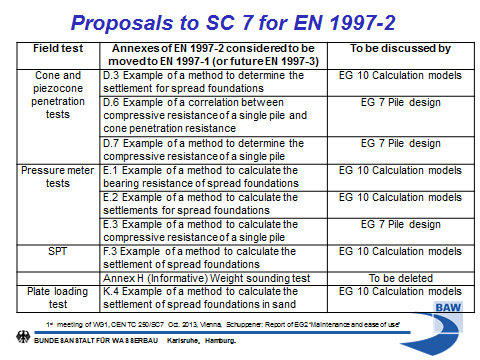
* It is agreed by all: the ease of use of a code is increasing with its shortness (conciseness). Repetitions should/shall be avoided.
* Basis for the improvement of the ease of use of the two parts of EC 7 are the current versions of the code. The improvements should be retraceable, preferably by a two-column-documentation of the current and the new version.
* Existing Principles (P) that do not give explicit and practical instruction (for example, give explanation instead) shall be converted to Application Rules or moved to Informative Annexes, or eliminated completely.
* Textbook material and explanations which an “appropriately qualified and geotechnical experienced personnel”**[[1]](#footnote-1)** knows, should be eliminated.
* Section 3 *Geotechnical Data* of EN 1997-1 is covered by EN 1997-2. It should therefore be deleted. ~~In the next version on EN 1997-1 Section 3 should contain the provisions describing the establishment of characteristic values~~.

In the next version on EN 1997, Section 3 should be the link between the design and the ground investigation parts, so it must state: a) the designer has to give some input values to perform the tests and b) the results expected from the ground investigation. Besides that Section 3 should contain the provisions describing the establishment of characteristic values.

**Annex 2:** Principles for the revision of EN 1997-2 and specifically for Sections 4 and 5 of EN 1997-2

* EN 1997-2 should address the designer – not the personnel for laboratory or the field tests.
* Section 2 on planning should state that the designer has to provide all input-values for the execution of field and laboratory tests. In the subsections on the different tests guidance will be given for the designer on the criteria for selection of the input values for the tests.
* All paragraphs describing the tests and their execution should be deleted. Reference to the test standard will be made.
* The subsections on the different tests should in general comprise only the two headings: “General” and “Derived values”.
* Items to be specified by the designer shall be included in “General”.
* All paragraphs and annexes dealing with design should be deleted or moved to EC 7-1 (or future EC 7-3)

**Annex 3:** Proposal for the work on the informative annexes of EN 1997-2



1. ) see 1.3 *Assumptions* in all Eurocodes [↑](#footnote-ref-1)