



EUROPEAN COMMISSION

DIRECTORATE-GENERAL III

INDUSTRY

Legislation and standardization; telematics networks

Standardisation, including industrial aspects of electronic trading

Brussels, 31 March 1998

III/B-2/EB D(98)

M/265 en

Addendum n°3

BC/CEN/10-90 - "EUROCODES: EXECUTION OF STANDARDISATION WORKS CONCERNING THE STRUCTURAL AND GEOTECHNICAL DESIGN OF BUILDINGS AND CIVIL ENGINEERING WORKS": MANDATE FOR THE CONVERSION OF THE EUROCODES FROM ENV INTO EN.

1. INTRODUCTION

- 1.1 This mandate is intended to carry forward the works undertaken within the framework of the EUROCODES, as stated in the framework-mandate BC/CEN/11-89 and in the initial specific mandate BC/CEN/10-90, sent to CEN on 27 December 1991 and which received a positive opinion from the 83/189 Committee at its meeting of 14 December 1989.
- 1.2 Following point III.1 of the framework-mandate BC/CEN/11-89, EUROCODES drafts had to be published as European pre-standards ENV for experimental period of application, the duration of which was to be determined by agreement between the Commission and CEN, after consultation with Member States. As this period, according to CEN internal rules, is foreseen to be valid for a term of three years, the Commission and CEN therefore agreed at the end of 1995 to consult Member States on the conversion of EUROCODES from ENV pre-standards into EN standards. At the meeting of the Standing Committee on Construction on 22 November 1995, Member States expressed their positive opinion with regard to this conversion.
- 1.3 Further, point III.1 of BC/CEN/10-90 states the following:

"The standardisation works consist of:

 - I. the drafting of ENV Experimental Standards and their publication;
 - II. the drafting of EN European Standards, based upon the comments received after a thorough examination and the experimental application of the ENV standards in Member

States; this step covers the works carried out until the publication of the national standards transposing the EN standards”.

- 1.4 The BC/CEN/10-90 mandate and its two amendments of 20 December 1992 and 20 December 1993 are related to the carrying out of works covered by part i) above, i.e. the drafting and the publication of the ENV standards.

2 OBJECT OF THE PRESENT MANDATE

- 2.1 As foreseen in point 12 of the mandate BC/CEN/10-90, the present conversion mandate, which constitutes amendment n°3 to the same specific mandate, covers part II) above, which means:

2.1.1 the revision of the ENV Experimental European Standards drafted within the framework of the above mandate; this revision will consider the experience acquired during the experimental phase within Member States and the comments received;

2.1.2 the revision of ENV Experimental European Standards to produce EN European Standards.

3 CONDITIONS OF THE PRESENT MANDATE

- 3.1 This addendum falls within the legal, administrative and financial conditions of the framework-mandate signed on 15 September 1992.
- 3.2 Representatives of the authorities responsible for national regulations have the right and shall be able to participate in the activities of CEN through their national delegations and to present their points of view at all stages of the drafting process of the European standards.
- 3.3 The Commission may participate in standardisation activities as observer and has the right to receive all relevant documents.
- 3.4 CEN will immediately inform the Commission of any problem relating to the implementation of the mandate and will present a six-monthly progress report on work within the framework of the mandate.
- 3.5 The progress report will include a description of work carried out and information on any difficulties being met, whether political or technical, with particular reference to those that might lead the Authorities of a Member State to raise objections.

4 PROGRAMME

- 4.1 CEN will be requested to produce a programme of work, to be prepared by fixing priority groups, and a justified timetable for the conversions, within 3 months of the mandate being issued. The work programme and the timetable will be subject to endorsement by the Commission.
- 4.2 CEN will draft the EN European Standards on the basis of the existing ENV Experimental European Standards, considering and evaluating all the comments received from the respective ENV enquiry.
- 4.3 The Commission, after consultation with CEN, reserves the right to modify the present mandate, should the need arise.
- 4.4 CEN members will publish the standards transposing the European standards at the latest one year after a positive vote in CEN.

5 SPECIFIC CONSIDERATIONS

5.1 “Boxed values”

In principle the “boxed values” in the ENV texts (which are variable according to national regulations in the Member States) will be eliminated wherever possible. In exceptional and justified¹ cases where such values are to remain, they may be expressed as “classes of convenience” with a range of values specified in the text.

5.2 Coexistence

The European Prestandards, once transformed into European Standards, shall be transposed into national standards. The existing national standards in the corresponding field, may coexist with the ‘Eurocode’ European Standards during a transition period to be determined by the Commission in consultation with the member States and CEN.

6 ANNEXES

- 6.1 This mandate includes 2 annexes:
 - 6.1.1 annex I: proposed Priority groups, with titles;
 - 6.1.2 annex II: proposed dates for issue of Order Vouchers for the Priority Groups A, B and C (pages 1 and 2).

¹ justified with regard to the Treaty of Rome

ANNEX I Proposed Priority Group by CEN TC 250

A. BASIC BUILDINGS GROUP (STAGE 64 TARGET : 31.12.98)

EN 1991-1	Basis of Design	(ENV dav 9-94) (2yr ENQ - 1-96)
EN 1991-2-1	Densities etc.	(ENV dav 2-95) (2yr ENQ - 11-96)
EN 1991-2-3	Snow	(ENV dav 2-95) (2yr ENQ - 11-96)
EN 1991-2-4	Wind	(ENV dav 5-95) (2yr ENQ - 11-96)
EN 1992-1-1	Concrete - General	(ENV dav 12-91) (2yr ENQ - 9-95)
EN 1993-1-1	Steel - General	(ENV dav 4-92) (2yr ENQ - 9-95)
EN 1994-1-1	Composite - General	(ENV dav 10-92) (2yr ENQ - 9-95)

B. FIRE GROUP (STAGE 6d TARGET:- 31.12.99) (2YR ENQ: - 4-97)

EN 1991-2-2	Fire Actions	(ENV dav 2-95)
EN 1992-1-2	Concrete	(ENV dav 11-95)
EN 1993-1-2	Steel	(ENV dav 9-95)
EN 1994-1-2	Composite	(ENV dav 10-94)
EN 1995-1-2	Timber	(ENV dav 10-94)
EN 1996-1-2	Masonry	(ENV dav 8-95)

C. SEISMIC GROUP (STAGE 64 TARGET :- 31.12.99) (2YR ENQ: 10-96)

EN 1998-1-1	General	(ENV dav 10-94)
EN 1998-1-2	Buildings	(ENV dav 10-94)
EN 1998-1-3	Specific	(ENV dav 2-95)
EN 1998-5	Foundations etc.	(ENV dav 10-94)

D - BRIDGES GROUP (STAGE 64 TARGET: 31-12-01)

EN 1991-3	Traffic loads	(ENV dav 3-95)
EN 1991-2-5	Thermal actions	(ENV dav *2-97)
EN 1991-2-6	Construction loads	(ENV dav *2-97)
EN 1992-2	Concrete bridges	(ENV dav 4-96)
EN 1993-2	Steel bridges	(ENV dav *2-97)
EN 1994-2	Composite bridges	(ENV dav *10-97)
EN 1995-2	Timber bridges	(ENV dav *8-97)
EN 1998-2	Bridges (Seismic)	(ENV dav *12-94)

E - FURTHER BUILDINGS GROUP (STAGE 64 LATEST TARGET: - 31/12/99)

+	EN 1992-1-3	Precast Concrete	(ENV dav 10-94)
+	EN 1992-1-4	Lightweight aggregate concrete	(ENV dav 10-94)
+	EN 1992-1-5	Tendons in buildings	(ENV dav 10-94)
+	EN 1992-1-6	Plain Concrete	(ENV dav 10-94)
	EN 1992-3	Concrete Foundations	(ENV dav *10-96)
	EN 1992-5	Piling	(ENV dav *1-97)
	EN 1995-1-13	General rules - Timber	(ENV dav 12-93)
**	EN 1996-1-1	General rules - Masonry	(ENV dav 6-95)
	EN 1996-1-3	Lateral loading masonry	(ENV dav *1-98)
	EN 1997-1	General rules - Geotechnics	(ENV dav 10-94)
++	EN 1998-1-4	Seismic-Strengthening & repair	(ENV dav 1-96)

* Estimated from Action Plan

+ Action Plans programme end of Formal Vote (Stage 52) in July 1998

** Action Plan programmes end of Formal Vote (Stage 52) in February 2000

++ Action Plan programmes end of Formal Vote (Stage 52) in December 2000

ANNEX II : Proposed date for issue of Order Voucher by CEN TC 250

CEN/TC250 STRUCTURAL EUROCODES

ASSESSMENT OF ORDER VOUCHER ISSUE REQUIREMENTS TO ACHIEVE CLOSEST PUBLICATION WITHIN EACH OF THE INITIAL EUROCODE PRIORITY GROUPS

This assessment of order voucher issue requirements to achieve closest publication within each of the initial EUROCODE priority groups.

This assessment takes account of :

- the requirement to have earliest possible availability of
 - a) Basis of Design
 - b) Essential Actions (loading) parts necessary for priority groups A, B and C
 - c) General rules and rules for buildings parts of Material related Eurocodes
 - d) Fire parts
 - e) General Seismic parts
- 2-year Enquiry results (known and programmed)
- recognition of the impracticability of commencing further conversions during 1997 and 1998, due to the absence of an agreed base document (no further 2-year Enquiry results are programmed before the end of 1998).

NOTE : This initial priority programme includes all Eurocode parts within priority Groups A, B and C.

i.e. Basic building design and seismic, general parts for buildings and design for structural resistance to fire.

The 'Bridges' Group and part dealing with other special structures will be subject to later assessment as dates for 2 year enquiry results become definitive.

Eurocode Part	Subject	Eurocode Priority Code	2-Yr Enquiry Result	Recommended Order Voucher Issue Time	Conversion Period (mths)O.V. to D.A.V. (Publication)	Comment
EN 1991-1	Basis /Design	A-General	Positive	A.S.A.P.	34	
EN 1991-2-1	Self Loads	A-General	July 1997	1997	30	
EN 1991-2-3	Snow Loads	A-General	July 1997	1997	30	
EN 1991-2-4	Wind Loads	A-General	July 1997	1997	30	
EN 1992-1-1	Concrete En	A-General	Positive	A.S.A.P.	44	Incorporates ENV Parts 1-1, 1-3, 1-4 and 1-5
EN 1993-1-1	Steel Gen.	A-General	Positive	A.S.A.P.	44	
EN 1993-1-8	Steel Joints	A-General	Positive	A.S.A.P.	44	Split from Pt. 1-1
EN 1993-1-9	Steel Fatigue	A-General	Positive	A.S.A.P.	44	Split from Pt. 1-1
EN 1994-1-1	Composite-Gen	A-General	Positive	A.S.A.P.	44	
EN 1995-1-1	Timber Gen	B-General	Positive	A.S.A.P.	40	
EN 1997-1	Geotechnics-Gen	B-General	July 97	97	35	
EN 1996-1-1	Masonry -Gen	B-General	February 98	early 98	39	
EN 1998-1-1	Seismic-Gen	A-Seismic	February 98	early 98	32	Incorporates ENV
EN 1998-2	Seismic-Bridges	A-Seismic	February 98	early 98	38	
EN 1998-5	Seismic-Foundations	A-Seismic	February 98	early 98	32	
EN1991-2-2	Fire Actions	C-Fire	February 98	early 98	26	
EN 1992-1-2	Fire-Concrete	C-Fire	February 98	early 98	26	
EN 1992-1-2	Fire-Steel	C-Fire	February 98	early 98	26	
EN 1994-1-2	Fire-Composite	C-Fire	February 98	early 98	26	
EN 1995-1-2	Fire-Timber	C-Fire	February 98	early 98	26	
EN 1996-1-2	Fire-Masonry	C-Fire	February 98	early 98	26	
EN 1991-3	Traffic Loads	D-Bridges	February 98	early 98	28	In advance of other bridge parts
EN 1991-4	Actions, Silos & Tanks	-	February 98	early 98	28	In advance of Silo and Tank parts
EN 1998-1-4	Seismic-Strengthening	A-Seismic	August 1998	late 98	32	
EN 1993-1-3	Steel-Cold Formed	-	November 98	early 99	34	