NATIONAL ANNEX TO CYS EN 1998-6:2005

Eurocode 8: Design of structures for earthquake resistance

Part 6: Towers, masts and chimneys

CYPRUS ORGANISATION FOR STANDARDISATION

NATIONAL ANNEX

TO

CYS EN 1998-6:2005

Eurocode 8: Design of structures for earthquake resistance

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This National Annex has been approved by the Board of Directors of the Cyprus Organisation for Standardisation (CYS) on 12.07.2019.

INTRODUCTION

This National Annex has been prepared by the CYS TC 18 National Standardisation Technical Committee of Cyprus Organisation for Standardisation. (CYS)

NA 1 SCOPE

This National Annex is to be used together with CYS EN 1998-6:2005

This National Annex gives:

(a) Nationally determined parameters for the following clauses of CYS EN 1998-6:2005 where National choice is allowed (see Section NA 2)

- 1.1(2)
- 3.1(1)
- 3.5(2)
- 4.1(5)P
- 4.3.2.1(2)
- 4.7.2(1)P
- 4.9(4)

(b) Decisions on the use of the Informative Annexes A to F (see Section NA 3)

(c) References to non-contradictory complementary information to assist the user to apply CYS EN 1998-6:2005. In this National Annex such information is provided for the following clauses in CYS EN 1998-6:2005 (see Section NA 4)

NA 2 NATIONALLY DETERMINED PARAMETERS

NA 2.1 Clause 1.1 (2) Scope of CYS EN 1998-6:2005

Annexes A to F are informative and can be used in the design of towers, masts and chimneys.

NA 2.2 Clause 3.1 (1) Definition of the seismic input

The rotational component of the ground motion should be taken into account for structures taller than 80m in regions where the product a_gS exceeds 0,25g.

NA 2.3 Clause 3.5 (2) Long period components of the motion at a point

In the cases where site-specific studies have been carried out with particular reference to the long-period content of the motion, the value of the lower bound factor β is 0,1.

NA 2.4 Clause 4.1 (5)P Importance factors

The value of the importance factor γ_I for towers, masts and chimneys is:

1. Importance Class I, $\gamma_I = 0,8$
2. Importance Class II, $\gamma_I = 1,0$
3. Importance Class III, $\gamma_I = 1,2$
4. Importance Class IV, $\gamma_I = 1,4$

NA 2.5 Clause 4.3.2.1 (2) Lateral force method - General

The detailed or additional conditions to be applied for the lateral force method of analysis are a total height H not greater than 60m and an importance class I or II.

NA 2.6 Clause 4.7.2 (1)P Partial safety factors for materials

Refer to CYS EN 1998-1:2004 subclauses 5.2.4(3), 6.1.3(1), 7.1.3(1) and 9.6(3) and its National Annex for the partial safety values of steel, concrete, structural steel and masonry.

NA 2.7 Clause 4.9 (4) Reduction factor at damage limitation state

The reduction factor ν that may be applied to the design seismic action is:

1. Importance Class I and II, ν=0,5
2. Importance Class III and IV, ν=0,4

NA 3 DECISION ON USE OF THE INFORMATIVE ANNEXES A , B, C, D, E AND F

NA 3.1 Annex A

Annex A may be used.

NA 3.2 Annex B

Annex B may be used.

NA 3.3 Annex C

Annex C may be used.

NA 3.4 Annex D

Annex D may be used.

NA 3.5 Annex E

Annex E may be used.

NA 3.6 Annex F

Annex F may be used.

NA 4 REFERENCES TO NON-CONTRADICTORY COMPLEMENTARY INFORMATION

None

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NA to
CYS EN
1998-6:2005

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