



## **CIGRÉ - STUDY COMMITTEE B2 – WG23 FOUNDATIONS**

### **Report on the WG23 B2 CIGRE meeting.**

From 24<sup>th</sup> to 29<sup>th</sup> of April 2012 in Kyiv in Boutique-hotel "Vozdvizhensky" has taken place the final meeting of working group WG23 "Geotechnical and structural design of the foundations of HV & UHV Lines, application to the updating to the refurbishment and upgrading guide" of committee B2 "Overhead Lines" CIGRE.

10 experts have taken part in session of working group

Neil Cuer, Convenor	UK
Eddie O' Connor, Secretary	Ireland
John-Petter Sivertsen	Norway
Asim Haldar	Canada
Aureo Ruffier	Brazil
David Richards	UK
Boud Boucemid	UK
Anna Dubina	Ukraine
Oleg Semenko, Guest	Ukraine
Marina Ermoshina, Guest	Russia

Besides, representatives of Slovenia, France, USA, New Zealand and Germany have acted as member-correspondents.

The main purpose of WG session was the final approval of technical brochure «Dynamic loadings on foundations» presented for edition to participants of a meeting.

Let's remind that the given document assumes generalization of experience of different countries in definition of dynamic loadings on foundations. The primary goal of working group is to receive the technical brochure (TB), containing basic concepts about behavior of foundations under the influence of dynamic loadings of different character and nature, such as wind loadings, earthquakes, soil liquefaction, wire breakage etc. Besides, TB should be accessible to understanding for engineers of different technological level.

At the heart of TB lie common and general for all countries types of OHL supports and their foundations. For each support type are considered general principles of transfer of dynamic loadings from support to the base. In corresponding section are resulted soil characteristics, which are necessary for calculation of dynamic loadings influence on the bases. Also TB contains a data array of testing results of various types of foundations collected by results of long-term technical tests in field conditions.

During a meeting it was decided to add the missing data and to bring corrections accepted at the session till the end of June 2012 in order to give the definitive version of the document for approval in committee B2 CIGRE not later than August 2012 on the threshold of 44th session CIGRE in Paris.

In conclusion of session the convenor rise the question of participation of WG current members in editing of already existing (published in 1992) TB «Refurbishment of OHL supports foundations».

Thanks to assistance of Ukrainian national committee CIGRE, within the limits of a meeting, WG participants have made technical tour on SS 750кВ "Kyivs'ka", and also the top level of Dneprovsky cascade of HPS. On all objects experts have led fine excursions with detailed discussion of technological aspects and working processes.



*SS 750 kV "Kyivs'ka"*



*Kyivs'ka HPS & HAPS*





*WG Members during the excursion at Kyiv's'ka HPS & HAPS*

Let's notice that acquaintance with objects of such scale and quality haven't left indifferent any of the present.

In conclusion of WG meeting, national committee CIGRE-Ukraine have organize a buffet in which course WG convenor Neil Cuer (UK) has informed that all members of session have highly appreciated the meeting and he will recommend Ukraine as a venue of following meeting of committee B2.