GITDE FOR ASSESSING THE NETWORK HARMONIC IMPEDANCE

A. Robert 1, 1. Deflundre, Joint CIGRE / CIRED Working Group OC02 1.

1 INTRODUCTION

WG CC02 (CNRE 36.05' CRED 2) loss poblished recommendations for the consection of harmonic producing leads in MV and HV power systems which have been no important input for the new BiC Technical Report 1000-2-6 "Aspertment of crossion limits for distorting leads in MV and HV power systems" (1996). The size of this Basic BMC Publication is to limit the harmonic currents and volcages in the network to avoid distortions to transitive equipment.

Non-linear leads are generally characterized by barmente corrents, and therefore, it is often preferred to express the emission limits to terms of currents rather than voltages. In order to translate the injected languagic currents into harmonic voltages though, one mode to know the harmonic impedance of the system.

However, assessing the network harmonic impedance is a very complex and difficult task. There is no interpressive, simple and antiversal measurement or computational method available, powerful computer progeness may be used, but a full knowledge of the network clustrateristics is lacking. Mescower, the impedance is continuously clumging with loads, necrock alternate and visions conditions.

The objective of this report is to provide practical guidance for assessing the system harmonic supedance, taking into account the contidered network (L.V. MV or HV), the distortion, lead importance (small or great contribution to the network pollution), the snalytical and compactional tools available.

Due to space limitations, we only present an extensive summery of the paper here. The full paper, with all fellerance and appendices, may be obtained on request at the CTRED Secretaria. It may also be found in ELECTRA. No.167, August 1996, 96-111.

2 CHOICE OF REPRESENTATIVE NETWORK CONDITIONS

For most studies, it will be sufficient to consider normal operating conditions.

However, in particular cases, e.g. when studying the connection of a big disturbing load bringing some risk that the resulting total baranosis veltages could exceed the planning limits, also renormable emergency conditions (i.e. a N-1 configuration) should be considered.

In both cases, at least heavy- and light-load conditions should be taken into account.

3 MEASUREMENT METHODS

3.1 General principles

The basic principle is to make use of (inter)harmonic currents I_h injected at the point where the (inter)harmonic impedance Z_h is to be measured, then using Obar's law.

$$S^{\mu} = \frac{I^{\mu}}{\Pi^{\mu}} \tag{1}$$

assuming that no (interstumment voltage was present to the network prior to the current injection (Fig. 1). In cases where this assumption is not valid, Π_n and Γ_n should be replaced by ΔU_n and ΔV_n .



Fig. 1: Haris principle of enountrement mothods

N.B. Z₂, U_n and I_n are obviously complex quantities but, to order to simplify the notation, the symbols have not been underlined.

In practice however, the power system is 3-phase and is not symmetrical. Purthernore, in most cases, the injected harmonic currents are far from symmetrical. Thus, even if we assume the system is symmetrical (more correct in MV them in UHV), we have to study the practicability of

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Working Group CC62 (CIGSE 36.25) CIGGD 2): I. Guether (Converse), US₁, R. Bergaren (CA), T. Deffances (9.6), A. Ivrasmad (197), A. Ivrasmad (197), A. Ivrasmad (197), A. Ivrasmad (197), A. Guerichi (198), J.L. Guetherer Iglenius (IS), D. Hartmann (US), M. Luktasen (191), H. Murchall (ZA), S. Ovassen (IP), C. Prosella (IT), S. Fresham (ISC), P. Ribeiro (US), M. Sannely, (128), K. Sand (NO), I Santi (US), P. Weight (AV), Y.S. Zacicake (617).

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