

Enaldiev V. G., Merkushev D. V.

Analysis of short- time disturbances of electric power quality indicators.

The analysis of the registered disturbances of electric power quality indicators at an industrial plant was made. The presence of voltage dips that disrupt the normal operation of sensitive equipment is shown. Voltage sag compensation by using dynamic voltage restorer with accumulating supercapacitor unit is considered. The histogram of distribution of necessary capacities of supercapacitor units is made.

Keywords: power quality, momentary voltage dip, dynamic voltage recovery device, supercapacitor unit.

Enaldiev Valeriy Georgievich, North Caucasian Institute of Mining and Metallurgy (NCIMM), Vladikavkaz.

E-mail: valera_0527@mail.ru

Merkushev Dmitriy Viktorovich, PhD. tech., Docent, North Caucasian Institute of Mining and Metallurgy (NCIMM), Vladikavkaz.

E-mail: merkushev_d@hotmail.ru