

THE MANIFESTATION OF THE DISTORTION STATE IN ELECTRICAL POWER SUPPLY SYSTEMS

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Abstract. Public distribution systems are responsible for supplying electrical power to home and third-party receivers and consumers located in a habitable area. The appearance of a distortion state in such distribution systems is inevitable under present technological conditions. Our paper determines, based on records from 2000 and 2005, the parameters specific of the distortion state related to voltage and current, their evolving trend over a 5-year interval, as well as their deviations from the norms imposed by our country's regulations. We also present the main steps to be taken and the technical means for reducing the disruptive effects of harmonic pollution.

Key words: harmonic, distortion state, time evolution.