**About contribution of the Pg pulsations to the GICs growth**

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A number of recent studies have established that geomagnetic pulsations (Pi3/Ps6) can make a significant contribution to the growth of geomagnetic-induced currents in power lines [1, 2]. The class of pulsations Pg (pulsations giant) stands somewhat apart, since they are not often observed on the Earth’s surface. These are very monochromatic variations; they belong to the Pc4 frequency range. On the Earth's surface, they are visible mainly in the D-component of the magnetic field, and therefore can make a noticeable contribution to the growth of GIC for power lines oriented in the north-south direction. This paper examines the question of how effectively Pg pulsations can lead to an increase in geomagnetic-induced currents in power lines on the Kola Peninsula. For this purpose, data from the Vykhodnoy substation (VKH) and data from PGI magnetometers at the Lovozero and Loparskaya PGI observatories were used. Also the question of how the pulsation frequency affects the amplitude of the GIC is analyzed.

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