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**Analysis of generator's synchronizing power change rate during searching of limit of steady-state stability whith using the procedure of system loading.**

The results of research of generator's synchronizing power change rate during the process of system loading, carried out with the aim of limit of stability finding, are provided in the article. Generator's synchronizing power changes during the process of active power system loading were analyzed. Generator's operation was considered either in «single machine – infinite buses» system and complex power system. The special focus of the article is on synchronizing power change rate in the point of the required active power margin required for aperiodic static stability sustention.

*Key words: synchronizing power, system loading, static stability margin.*

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