

Stability issues of the hydro-turbine governing systems on the example of foreign experience.

Gerasimov D. A., Gurikov O. V.

A review of sources that are devoted to the topic of hydro-turbine governing systems stability issues with examples of their incorrect operation has been carried out. Based on the review, examples of emergency events caused by incorrect operation of hydro-turbine governing systems in the power system of Russia and other countries are presented. For these examples, the causes for the incorrect operation of the hydro-turbine governing systems, as well as the measures taken to prevent the recurrence of similar emergency events are given.

Key words: frequency, speed controller, frequency controller, primary frequency control, oscillatory stability.