

Suslova O. V.

Real time simulation of VSC back-to-back using RTDS.

Results of development and study of VSC back-to-back connecting two isolated power systems in real time environment using computer complex Real Time Digital Simulator (RTDS) are given. The control and protection systems for VSC back-to-back are conceptually are described. The transients in various faults in adjacent power systems are given.

Key-words: VSC back-to-back, real time simulation, control and protection system, travelling wave model.

Suslova Olga Vladimirovna, PhD. tech., Docent, Chief Specialist of Scientific and Technical Department of the Scientific and Technical Center of Unified Power System (STC UPS).

E-mail: suslova_o@ntcees.ru