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ASPECTS REGARDING OF THYRISTORS CONTROLLED SERIES COMPENSATOR

BY

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Abstract. The introduction of FACTS (Flexible AC Transmission Systems) gives new perspectives to power systems planning and operation. The series compensation is used in power system in order to increase the transfer capability of transmission lines. The paper presents an analysis of dynamic behaviour of a TCSC (Thyristors Controlled Series Compensator) with/without protection system. The behaviour's simulations of TCSC mounted into an electrical network of 220 kV have been realised with Electromagnetic Transient Program (EMTP/ATP).

Keywords: power systems, FACTS devices, TCSC-Thyristors Controlled Series Compensator.