

Laboratory Experiment 8

Synchronous Generators

Objectives: To obtain the effect of sudden short-circuit on a synchronous generator output.

Laboratory Tasks and Report:

1. Model a short-circuit on a synchronous generator as described by the *PSCAD/EMTDC* file **SynchGen.psc**. Obtain various waveforms and comment on them. See video clip# 11.
2. Plot E_f/X_d'' , E_f/X_d' , E_f/X_d and Phase A line current together, to verify the peak current transition at the three transient modes.

SynchGen.psc

SHORT CIRCUIT TEST

