

Transmission Modelling Data Form

Generator Control



Project Number and Energization; or Facility Code:

Control Data

Machine Name

In-service

Manufacturer

Control System

Generator

Model

Data Name	Description	Value	Data Name	Description	Value
Mbase	Rated Capability (MVA)		Vbase	Rated RMS Voltage (kV)	
Fuel	Fuel or Energy Source		MARP	Maximum Authorized Real Power	
P_MIN	Minimum continuous real power out (MW)		H	Inertia constant	
R1	machine positive-sequence resistance on machine base MVA				
T'	Transient time constant		T''	Subtransient time constant	
X	Positive-sequence unsaturated synchronous reactance on machine		X(sat)		
X'	Positive-sequence unsaturated transient reactance on machine base		X'(sat)		
X''	Subtransient reactance on machine base MVA		X''(sat)		
R2	machine negative-sequence resistance on machine base MVA		X2	17. machine negative-sequence reactance on machine base MVA	
R0	machine zero-sequence resistance on machine base MVA		X0	18. machine zero-sequence reactance on machine base MVA	
StationService			UnitService		

Data submitted in this engineering document represents the electrical system components to a level adequate for powerflow, short-circuit, and dynamic modeling of (select one below):

An operational facility or a project passing

Gate 1

Gate 2

Gate 3

Gate 5

of the AESO project process, and is subject to change as project design proceeds and as-built data becomes available.

It is not to be relied upon for construction.

APEGA Permit-to-Practice:

AESO Protected

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