

# Transmission Modelling Data Form

Transformers



Project Number and Energization; or Facility Code: 155

## Transformers

Transformer Name		Local Name		Cooling Type						
15ST2		T2		ONAF2						
Winding Connection	r	x	g	b	r0	x0	g0 from	b0 from		
P	D	0.00292	0.07484	0.00087	-0.00157	0.00260	0.07663	0.34221	-1.37679	
Grounded?	Rground	Xground	ohms				g0 to	b0 to		
<input type="checkbox"/>							0.06415	-0.24427		

### Winding Base (MVA)

15

### Base Voltage (kV)

138

### Tap Changer

high Step	neutral Step	low Step	normal Step	step Phase Shift Increment	step Voltage	initial Delay	neutral U	subsequent Delay
8	0	-8	0	0	0.0125	0	138	0
Regulating bus				3237		Vmax	1.052	
Control Mode				Volt		Vmin	1.027	
tap-changer Kind				Voltage				

### From Bus

237

### To Bus

3237

### Circuit

T2

### Operational Limit

Operational Limit Type	Apparent Power Limit	Nominal Voltage	Operational Limit Type	Apparent Power Limit	Nominal Voltage
Summer Normal		138	Winter Normal		138
Summer 4 Hours		138	Winter 4 Hours		138
Summer 30 Min.		138	Winter 30 Min.		138

No Load Losses	13.1	kW	1%	0.18
Load Losses	43.82	kW	Z%	7.49

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):

- 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

Alberta Electric System Operator

Calgary Place, 2500, 330-5th Avenue SW Calgary, AB T2P 0L4

Phone: 403-539-2450 | Fax: 403-539-2949

www.aeso.ca

@theaeso