

## TEST LABORATORIES

In our continuing effort to provide high quality/high reliability products to our customers, Ritz maintains one of the best equipped testing facilities in North America. Ritz will consider requests from customers and other manufacturers to purchase testing time in our laboratories.



**20 Stage – 3,600,000 kV Impulse Generator**



**1,500,000 V Impulse Generator**



**H.V. Testing Lab**

# TEST LABORATORIES

## MAJOR EQUIPMENT INVENTORY LIST

### HIGH VOLTAGE TEST TRANSFORMERS

Test transformer – cascade, single phase  
Siemens-Schuckert  
Each transformer rated at 500 kV at 2A, 1 MA ea.  
Parallel connection: 500 kV at 4 A  
Series connection: 1000 kV at 2 A

Test transformer – single phase – Lepper  
300 kV at 1 A, 300 KVA

Test transformer – single phase – Magnetics  
25 kV at 1 A, 25 KVA

Test transformer – single phase – Magnetics  
20 kV at 2 A – with center tap, 40 KVA

Test transformer – single phase – Hipotronics  
15 kV at 2 A, 30 KVA

Transformer – cascade, single phase – Marcus  
Each transformer rated 2400 V- 208 A, 500 KVA  
Parallel connection: 2400 V at 416 A  
Series connection: 4800 V at 208 A

### IMPULSE GENERATORS

Impulse Generator – model: SP12015000 6 stages  
Hi Volts (Siemens)

0.64 microfarads/stage, 250 Volts/stage  
series connection: 1500 kV peak, 120 KJ  
parallel connection: 750 kV peak, 120 KJ

Impulse Capacitor Voltage Divider  
20 stages Ferranti (Hipotronics)  
0.75 microfarads/stage, 180 Volts/stage  
3600 kV peak, 340 KJ

### IMPULSE CAPACITIVE VOLTAGE DIVIDER:

3 Capacitor modular design – Hi Volts  
1500 kV peak – 1500 pF – ratio: 1992 : 1  
equipped with MEU 22 peak voltmeter – Hi Volts

4 Capacitor modular design – Ferranti  
3500 kV peak – 480 pF – ratio : 3880 : 1

### CURRENT DRIVERS

Current Source – single phase – Nieke  
7000 A at 10 V, 70 KVA

Current Source – single phase – Magnetran  
5000 A at 22 V continuous, 110 KVA, 7500 A for  
½ hour duty cycle  
Reconnectable supply 1100 V at 100 A or 275 V  
at 400 A

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### REACTORS – CAPACITIVE COMPENSATION

Capacitors 2 pieces – high voltage – Ritz  
150 kV – 45 manofarads, 380 KVAR each  
Parallel connection: 150 kV, 760 KVAR  
Series Connection: 300 kV, 760 KVAR