

Flexible Test Facility

FACILITY EQUIPMENT:

- + 1200A 480V Main Service
- + 6kV DC Power Supply
- + MV Safety Cage (625 sq. ft.)
- + 480V-4160V Transformer (600kVA)
- + 480V-13.8kV Transformer (600kVA)
- + 200 kVA PHIL 480V/4160/13.8kV
- + 600 kW 1.5 kV Bi-Directional Supply

TEST EQUIPMENT:

- + EMI Measurement and High $\Delta V / \Delta T$
- + High-Speed Data Acquisition System
- + Real-Time Controller-In-The-Loop (CHIL)
- + Power Hardware-In-The-Loop (PHIL)
- + Rapid Controller Hardware
- + MV Line Impedance Stabilization Network (LISN)

CAPABILITIES:

- + 400 Hz @ 0.2MW
- + 450V & 480V @ 0.5MW
- + 6kVDC @ 0.25MW
- + 4160VAC @ 0.5MW
- + 13.8kVAC @ 0.5MW

ON-SITE EQUIPMENT

DC POWER SUPPLY

- + Up to 6kVDC / 250kW
- + Scalable to 12kVDC / 2MW+

SUBSTATION TRANSFORMER

- + 480V to 4160V Transformer (600kVA)
- + 480V to 13.8kV Transformer (600kVA)

200 KW PHIL AMPLIFIER

- + Up to 820 Vdc, 480VLL, and 4160/13.8kVac Scalable up to 1.2 MW
- + Controlled over SFP interface, through Typhoon HIL and/or RCT custom controller

600 KW BI-DIRECTIONAL DC SOURCE

- + Up to 1.5 kV
- + ESM battery emulation, and/or 270/650/1kVdc active loading
- + Scalable up to 2.0 MW

