

Gas-insulated Substation Projects



RB-3

Client: BP Whiting Refinery
Location: Whiting, IN
Voltage: 138-kV
GIS Equipment: ABB
Configuration: 138-kV ring bus

Scope of Work: Engineering, design, support for procurement, electrical testing and commissioning.

Completed: 2009
(RB-1, RB-2 & RB-4 completed in 1980s, same scope of work)



Waterside West

Client: Louisville Gas & Electric
Location: Louisville, KY
Voltage: 138/13.8-kV
GIS Equipment: ABB
Configuration: 138-kV 8 breaker ring bus

Scope of Work: Overall program management, engineering and design, procurement support, construction management and commissioning.

Completed: 2008



West Loop

Client: Commonwealth Edison
Location: Chicago, IL
Voltage: 345/132-kV
GIS Equipment: Siemens
Configuration: 345-kV 6 breaker ring bus

Scope of Work: Engineering and design, procurement support, technical support during construction.

Completed: 2008

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Collman

Client: NV Energy
Location: Las Vegas, NV
Voltage: 138/12-kV
GIS Equipment: ABB
Configuration: 138-kV 6 breaker ring bus

Scope of Work: Permitting and public outreach support, surveying, geotechnical investigation, engineering, design and support for procurement.

Completed: Engineering completed 2008, construction currently on-hold.



Anaheim

Client: City of Anaheim
Location: Anaheim, CA
Voltage: 69/13.8-kV
GIS Equipment: Areva, Siemens
Configuration: 8 breaker main & transfer

Scope of Work: Owner's engineer.

Completed: 2008



Waverly

Client: PECO
Location: Philadelphia, PA
Voltage: 69-kV
GIS Equipment: ABB
Configuration: T-configuration

Scope of Work: Engineering and design, procurement support, technical support during construction.

Completed: 2007

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Vermont

Client: City of Anaheim
Location: Anaheim, CA
Voltage: 230/69-kV
GIS Equipment: ABB
Configuration: 6 breaker-and-a-half

Scope of Work: Owner's Engineer.

Completed: 2007



Park

Client: City of Anaheim
Location: Anaheim, CA
Voltage: 69/23.8-kV
GIS Equipment: Siemens
Configuration: 23.8-kV double-bus,
double-breaker

Scope of Work: Owner's Engineer.

Completed: 2006



Grenshaw

Client: Commonwealth Edison
Location: Chicago, IL
Voltage: 138/13.2-kV
GIS Equipment: Mitsubishi
Configuration: 138-kV 4 breaker
ring bus

Scope of Work: Engineering and
design, procurement support, technical
support during construction.

Completed: 2006

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Grand/Ohio

Client: Commonwealth Edison
Location: Chicago, IL
Voltage: 138/13.2-kV
GIS Equipment: ABB
Configuration: 138-kV 9 breaker ring bus

Scope of Work: Engineering and design, procurement support, construction management, electrical testing and commissioning.

Completed: 2004



Madison

Client: Commonwealth Edison
Location: Chicago, CA
Voltage: 138/13.2-kV
GIS Equipment: Mitsubishi
Configuration: 138-kV 8 breaker ring bus

Scope of Work: Engineering and design, procurement support, construction management, electrical testing and commissioning.

Completed: 2004



State Street

Client: Commonwealth Edison
Location: Chicago, IL
Voltage: 138/13.2-kV
GIS Equipment: ABB
Configuration: 138-kV 8 breaker ring bus

Scope of Work: Engineering and design, procurement support, construction management, electrical testing and commissioning.

Completed: 2002

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Kingsbury

Client: Commonwealth Edison

Location: Chicago, IL

Voltage: 138/13.2-kV

GIS Equipment: Enclosed substation, no GIS equipment.

Configuration: 4 138/13.2-kV transformers, 2-13.2-kV ring buses

Scope of Work: Engineering and design, procurement support, construction management, electrical testing and commissioning.

Completed: 2001