



CHICAGO OPTIMIZATION PLAN PROJECTS

Sargent & Lundy Services:

- ❑ Substation Engineering & Design
- ❑ Underground Transmission & Distribution Design
- ❑ Electrical Testing & Commissioning
- ❑ Construction Monitoring & Quality Assurance

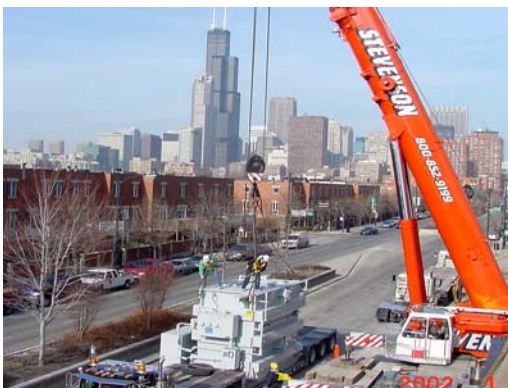
Exelon / ComEd Chicago, Illinois

The Chicago Optimization Plan, issued in January 2001 by Commonwealth Edison (ComEd), an Exelon Company, outlined commitments for reinforcements to the transmission and distribution system in the City to be completed from 2001 through 2008.

Sargent & Lundy was selected by ComEd to perform the engineering for these projects as part of a Contractor of Choice (COC) Team. The COC is led by Kenny Construction Company (Wheeling, IL). The COC Alliance Team also includes M.J. Electric, Inc. (Iron Mountain, MI).

The urban substations included in the Plan involve limitations on building sizes, facades that blend with surrounding neighborhoods, and landscaping to meet City and community requirements. The following projects are within the COC Team scope of work:

- ❑ **Kingsbury** – 132/13.2-kV station fully enclosed in a 3-story building; four 30/40/50 MVA transformers; 68 cubicles of 13.2 kV, 750 MVA metal-clad switchgear; two 13.2 kV ring buses. Completed 2001.
- ❑ **State Street** – 132/13.2-kV station with fully enclosed GIS and switchgear buildings and open-top transformer enclosures; eight breaker 132 kV GIS ring bus with provision for ninth breaker; five 30/40/50 MVA transformers; 67 cubicles of 13.2 kV, 750 MVA metal-clad switchgear; two 13.2 kV ring buses. Completed 2002.



- ❑ **Madison** - 138-kV GIS eight breaker ring bus with four 30/40/50 MVA, 132/13.2-kV air-cooled transformers in open-top enclosures; fully enclosed GIS and metal-clad switchgear buildings. Completed 2004.
- ❑ **Ohio** - 138-kV GIS ninth breaker addition/uprate of an existing station from 69-kV to 138-kV service, including new GIS/switchgear building and the addition of four 30/40/50 MVA, 132/13.2-kV air-cooled transformers in open-top enclosures. Completed 2004.
- ❑ **West Loop** – 345-kV GIS, six breaker ring/132-kV open-air, two ring 16-breaker bus. Scheduled completion 2008.

Sargent & Lundy's scope of work for these projects includes complete substation engineering, underground distribution feeder design, construction monitoring and quality assurance, and electrical testing and commissioning.

