

COLLMAN 138/12 kV PROJECT



Sargent & Lundy Services:

- ❑ Surveying and Land Acquisition Services
- ❑ Permitting Support
- ❑ Substation Engineering & Design
- ❑ Overhead Transmission Design
- ❑ Underground Transmission Design
- ❑ Distribution Design

Nevada Power Company
Las Vegas, NV

To keep up with the growth of the Las Vegas Resort Corridor and to meet future projected electrical demands, the new 138/12-kV Collman Substation is being installed by Nevada Power Company (NPC) just west of the "The Strip" resort corridor in Las Vegas, NV. The substation and the associated 230/138-kV transmission line are essential to the bulk power supply and system reliability in the Las Vegas Valley.



Rendering of Collman Substation Enclosed by a Decorative Wall (Echelon Place Main Plant in Rear)

The Collman Substation, which is to be located at the northeast corner of Stardust and Industrial Roads, is being constructed in conjunction with the development a new casino resort, Echelon Place. A decorative wall will enclose the 138-kV gas-insulated substation, coordinated with the architectural design of the resort.

The transmission line will originate at NPC's existing Highland Substation, loop into the new Collman Substation and then terminate at the existing Decatur Substation. Total length of the line is approximately 5 miles. The segment of the line from Highland Substation to Flamingo Boulevard will be designed to accommodate a

future, overbuilt 230-kV circuit and the 138-kV circuit and future 230-kV circuit along the Echelon property will be installed underground. Where the transmission line is constructed along easements that contain overhead 12-kV distribution circuits, those circuits will be transferred to the new transmission structures.

S&L's scope of work includes support for the Special Use Permit application with Clark County, participation in a neighborhood open house regarding the proposed project, land acquisition support, overhead and underground transmission line design, distribution design, and substation engineering.

Engineering was initiated on August 1, 2007 and is scheduled to be completed by June 2008. The project is planned to be in service by June 2009.

S&L has assembled a team that includes Arcadis for permitting, Finley Engineering for surveying and land acquisition and USi/GAI for underground transmission design.



Rendering of 230/138-kV Transmission Line

