



*Dedicated People, Quality
Products, and above all, Service*

Hoover Dam

L&S Electric Awarded Multi-Million Dollar Hoover Dam Modernization Project

L&S Electric, Inc. has been awarded a \$5.7 million contract by the US Bureau of Reclamation (USBR) for the modernization of hydroelectric generating unit controls at Hoover, Davis, and Parker dams on the lower Colorado River.

L&S Electric will be responsible for system integration, engineering, and equipment for the modernization of the 26 large hydroelectric units at the three facilities. The project includes integrating four separate subsystems into a unified control system, upgrading digital governors, replacing digital voltage regulators and digital protective relay panels (generators, transformers and transfer buss), and providing new unit control boards. Commissioning of the unified control system and training of USBR personnel is also included in the scope of the project.

USBR's specifications require that commercial, off-the-shelf (COTS) products be utilized to meet project requirements. L&S Electric has become a leading supplier of integrated systems for the hydroelectric power industry having furnished and installed control systems for over 400 units over the past 20 years based on COTS designs.

The USBR used four factors in evaluating prospective contractors; past experience, technical capability, past performance, and lastly, price.

According to the USBR, L&S Electric proved its experience in integrating all four subsystems. The

number of relevant projects where L&S has integrated commercial products for unit control demonstrates they are competent using current technology.



L&S Electric maximizes the use of COTS hardware plus configurations, and systems, the USBR said. L&S Electric is reusing experience from previous successful hydroelectric power plants to minimize engineering and development time. The capabilities of L&S Electric are broad enough that subcontractors are not needed.

The USBR lauded L&S Electric's past performances regarding similar projects. The USBR said that L&S Electric has shown considerable application experience and finding customers to interview was easy. All the client interviews were positive and confirmed to the USBR that L&S

is doing relevant work and met or exceeded deadlines.

Finally, the USBR gave L&S Electric an "excellent" overall technical rating. L&S's proposal was the highest rated, technically, did not have any significant weaknesses or omissions, did not require any classifications or discussions, and provided a competitive price. The USBR determined that awarding L&S Electric this project was the best value to the government.

This modernization project includes replacing mechanical and analog control equipment, some in use since the 1930s, with modern digital technology. One of the benefits of this modernization is that the hydroelectric generators at the dams will be able to respond more precisely and efficiently to electrical system demands after the work is complete.

With systems furnished for over 400 units over the past 20 years, L&S Electric has become a leading supplier of integrated systems for the power generating industry with the best value in digital governors, automation systems, excitation systems, and digital relay protection systems.

L&S Electric has locations in seven cities throughout the upper Great Lakes and Canada. One of the largest rotating apparatus service providers in the United States, L&S also distributes a wide variety of motors and electrical products and provides complete reliability and power services.