

Project Experience

SCADA Radio Telemetry Study, FCC Licensing, and Design and Construction Support Services

Los Alamos County, Los Alamos, NM

On behalf of Los Alamos County, Timberline successfully applied to the FCC for two MAS licenses in the new 932/941 MHz MAS frequency band. The sites are located on Pajarito Mountain near Los Alamos, NM and Tesuque Peak near Santa Fe, NM. The proposed systems will operate in accordance with the new rules contained in FCC Document 99-415. Timberline was responsible for data gathering, topographic map studies, coverage analyses, frequency coordination, and preparation and tracking of the FCC license application package.

The County serves the communities of Los Alamos and White Rock, Bandelier National Monument, and Los Alamos National Laboratory. It has a 50-RTU SCADA system that utilized a Department of Energy (DOE)-owned 400 MHz trunked radio system. Timberline conducted a conceptual study of communication alternatives, including 900 MHz MAS. Timberline drafted a technical report documenting SCADA interface requirements, RF coverage predictions, network configuration, integration requirements, construction costs, and implementation plans.

The results of the conceptual study were used to develop construction documents for implementation of the recommended telemetry system. The new system has greatly improved overall system reliability and response time, and now provides the data integrity to allow the SCADA system to operate in a fully automatic mode.

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