

Corrales Well 9 Electric Motor Conversion

Client

Albuquerque Bernalillo County
Water Utility Authority

Completion

2018

Size

600 HP Motor

Cost

\$752,051

The Corrales Well Field was designed with natural gas engine-driven well pumps and a small electrical feed from the local utility for ancillary loads. The project included the removal of the gas engine equipment, modification of the HVAC system, upgrade of electrical service, modification of the CO₂ system, and installation of a new variable frequency drive (VFD) and 600HP motor. The new motor is powered by an active front-end, harmonic mitigating VFD. The VFD is used for soft-starting and can also be used to optimize efficiency. The existing evaporative cooler used for the engine room was modified to provide cooling for the new VFD.

Scope of Work

Electrical Engineering, Construction Observation/Administration

