

Design/Build Silver State Solar Substation

CLIENT

Burns & McDonnell

LOCATION

Near Primm, Nevada

PROJECT DESCRIPTION

Black & McDonald (B&M) was hired by Burns & McDonnell as part of a design/build team for the construction of a 230 kV substation at a greenfield site located in Nevada. The substation serves a large solar collection system.

B&M SCOPE OF WORK

B&M's scope of work for the project included:

- Civil structures (concrete, flatwork, drilled piers, finish grading crushed rock)
- Underground electrical (underground conduit, ground grid, 34.5 kV exit feeders, low voltage wiring)
- Equipment installation (230 kV to 34.5 kV transformer, capacitor banks, filters, aluminum bus, switches)
- Control building installations (two prefab units with complete controls)
- Transmission line (2.5 miles of 230 kV, steel H structures connecting to grid)