



Power

NV Energy
Las Vegas, Nevada

**Engineer, Procure,
Construct**
75 MW Simple Cycle Plant

Harry Allen Station Unit 4 Project

Project Description

CH2M HILL was responsible for the engineering, procurement and construction of this GE Frame 7EA simple cycle gas fired plant for NV Energy (formerly Nevada Power Company). The 75 MW Harry Allen Station is a peaking facility located in the Dry Lake Valley near Apex, Clark County, Nevada, approximately 25 miles northeast of Las Vegas. This project involved the addition and integration of a new 75 MW combustion turbine generator (CTG) into the existing power plant.

Value Added Services

CH2M HILL's favorable relationship with local craft labor resulting from the successful execution of nearby Silverhawk combined cycle plant allowed CH2M HILL to self perform many construction tasks, such as civil, structural, mechanical/piping and equipment setting. In a tight Las Vegas construction market with a scarcity of qualified construction contractors, this approach resulted in significant client savings compared to a purely subcontracted construction approach.

Additional scope included the detailed engineering, procurement, construction, start-up, testing, and training for all balance-of-plant (BOP) systems and accessories required to integrate the new CTG (Unit 4) with the existing CTG (Unit 3) into an operating peaking power plant.

The Project also included several plant upgrades and modifications including:

- Plant Control System upgrade
- Unit 3 control enhancements incorporated into the new Unit 4 control system
- Protective relay and metering enhancements
- Plant security upgrade