

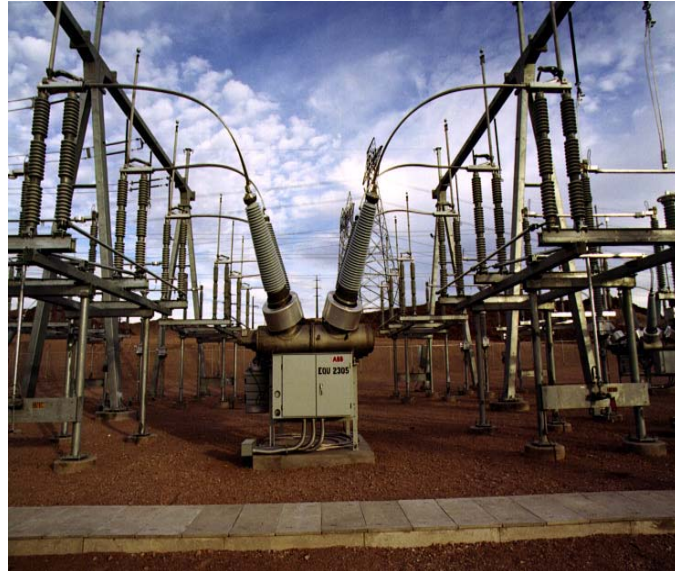
EQUESTRIAN 230-69kV, 200 MVA SUBSTATION

NEVADA POWER COMPANY
LAS VEGAS, NEVADA
DAVE ALLAWAY, TEAM LEADER

COMPLETION DATE: 2000
PHONE: (702) 367-5310

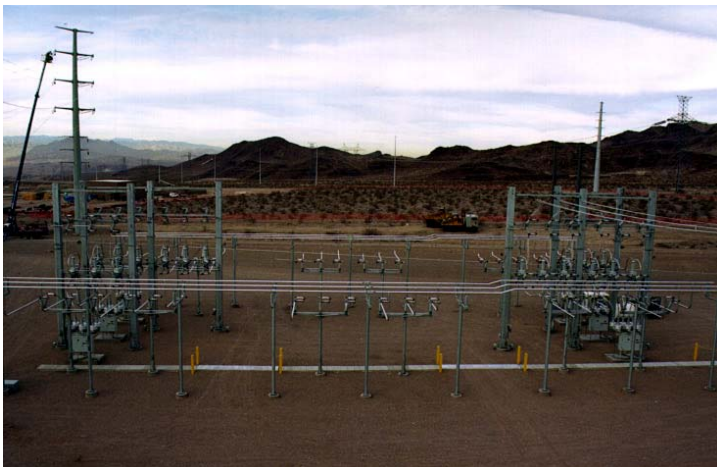
PROJECT DESCRIPTION

Nevada Power Company contracted the team of Brink/ECI to perform design and construction of a new 230-69 kV Substation in Henderson, Nevada. Design included several conceptual arrangements to optimize space and cost. Initial construction included a 230 kV ring bus and 69 kV ring bus, both expandable to breaker and a half, one new 200 MVA transformer and a new standard design control building. Schedule was very aggressive, with design started on February 28, 2000 and completion of construction by October 31, 2000.



KEY FACTS & HIGHLIGHTS

- Ⓢ DESIGN/BUILD WITH SHARED SAVINGS CONCEPT
- Ⓢ COMPLETED AHEAD OF SCHEDULE AND AT BUDGET
- Ⓢ NEW FOUR POSITION 230 kV RING BUS EXPANDABLE TO BREAKER-AND-ONE-HALF SCHEME
- Ⓢ NEW SIX POSITION 69 kV RING BUS EXPANDABLE TO BREAKER-AND-ONE HALF SCHEME
- Ⓢ EXTENSIVE GROUND GRID ANALYSIS FOR POOR SOIL CONDITIONS
- Ⓢ COMPLETE SCHEMATIC AND WIRING DIAGRAMS
- Ⓢ OIL CONTAINMENT FOR 20,000 GALLON CAPACITY
- Ⓢ CONSTRUCTION SUPPORT



TEAM / RESPONSIBILITIES

- Ⓢ DAN DONOVAN – PROJECT MANAGER
- Ⓢ JON BORMANN – ELECTRICAL ENGINEER
- Ⓢ DAVE JOHNSON – DESIGNER

◆ *Engineering With Distinction* ◆

