

Major West Coast Energy Control Center

Project Description:

A major independent electrical system transmission operator manages two control centers on a 24/7 basis with at least 12 grid operators on shift around the clock. The energy control center monitors transmission activity for a portion of 14 western states, Alberta, BC and northern Mexico through more than 90 electric transmission companies.

The organization's 17,000 sq ft main control center is backed up by a fully-functioning separate facility, which is ready within minutes to assume control.

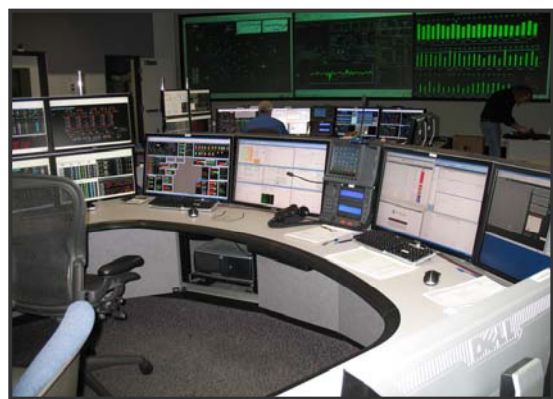
High tech visual displays dominate the control centers in both locations. A map board provides an instant overview of the system including the status of key power plants and substations. Large video projection screens provide further system operational detail, satellite monitoring of area weather conditions and news broadcasts about natural disasters and other emergencies that could affect the grid.

ACSI's Responsibilities:

In the role as a sub-consultant assisted in planning a new control room and related spaces for accommodation of modern information displays and workstations. ACSI also assisted with the development of design criteria for new data center systems and workstations. These plans included improved ergonomics through human factor analysis.

Additional ACSI planning/design responsibilities included those for a facility-wide structured voice/data cabling system, all planned A/V presentation systems, building / site security, and facility-wide fire alarm.

ACSI was directly engaged for the design of a separate facility's California control center large screen video information display systems. After completing the design of the new system, ACSI was further engaged to provide construction administration services. Systems installation is now complete and fully operational.



Before / During Construction & Installation



Completed Control Room

