

HARRAH'S RINCON

Modular Central Plant - Gaming

Near Escondido, CA



PROJECT OVERVIEW

Chilling System:

H-4C Chiller Plant 1,200 Tons
1 X Trane 770 CVHE Centrifugal Chiller
1 X Trane 500 CVHE Centrifugal Chiller
Expandable to 2,800 Tons

Ambient Design Conditions:

92°F Dry Bulb; 69°F Wet Bulb
Chilled water supply temperature
of 42°F (16°F DT)

System Benefit:

Operates at 0.771 kW/ton @ peak conditions
Compact plant has room for ultimate 2,800 ton
phased capacity

PROJECT DESCRIPTION

Harrah's Entertainment Inc.'s second project with TAS required 1,200 TR installed on an expedited basis. The facility is remotely located in the mountains 50 miles north of San Diego. The same tight space, operational and budget constraints existed as at their Bossier City, Louisiana site. Based on previous experience with TAS and the Packaged Central Plant solution, Harrah's opted to choose another packaged central plant product, relying on the proven quality, delivery and performance elements.

The plant was delivered within five (5) months of contract date and site installation by a local contractor was completed in 4 weeks, on schedule and on budget. All required site operational and performance targets were met.

The self-contained plant TAS H-4C plant is anchored by one (1) Trane nominal 400 TR and one (1) nominal 800 TR CVHF centrifugal chiller in a parallel flow configuration, two (2) 100% variable speed chilled water pumps, three (3) 50% condenser water pumps, two (2) cell cooling towers with variable drive fans, and associated piping and insulation. This integrated design provides Harrah's with the most efficient chiller system at full and part load conditions. All components, including the cooling towers, are optimized with an integrated Trane Tracer Summit Central Plant Manager that allows remote monitoring.

ABOUT TAS ENERGY

TAS Energy provides clean and highly efficient solutions through the design and manufacturing of modular energy conversion and cooling systems for the power generation industry; district, commercial and industrial process cooling; data center/mission critical; and the renewable energy sectors.