



Oracle MPK to SCA Phase II Campus Move

Santa Clara, CA

Project Type

Data Center

Size

30,000

Services Provided

Full design and commissioning of HVAC, plumbing and controls for new labs and central plant expansion.

Completion Date

2011

Owner

Oracle Corp.

Contractors

GC: Novo Construction, Inc.

References

Michael Way, Gensler

(architect) - (925)904.2118,

michael_way@gensler.com

Ken Morrison, Rockridge Group

(CM) - 415-394-5430,

ken@rockridgegroup.net

Frank Nasciemento, ACCO

(HVAC contractor) -

fnascimento@accoes.com

Cliff Berry, Oracle - 916 315 5050,

cliff.berry@oracle.com

Ankit Somani, Oracle,

650.506.9860,

ankit.somani@oracle.com



For this project two office buildings on the old Sun Campus were converted to high density rack and bench labs. The new IT load after this change was about 5 MW which meant that an existing chilled water plant on campus was expanded from 2000 to 5000 tons to serve the new loads.

Cooling solutions for this project were tailored to the customer requirements and architectural constraints of each lab. These cooling solutions included aisle containment, custom air handlers with airside economizers, custom cold aisle overhead fan coils, and custom in-row air handlers. All fan systems for this facility were specially designed for variable volume, low pressure drop, high design supply air temperature, and high chilled water ΔT . The central plant expansion now includes a new 5,000 ton waterside economizer and low approach towers. Additionally, demand based resets are used to raise supply air and chilled water setpoints which allow the plant to operate in full or integrated waterside economizer mode about 7,000 hours every year.