

# CDCDG

## CALIFORNIA DATA CENTER DESIGN GROUP

### NAME

Andrew Nebbs, P.E.

### TITLE

Partner

### PROJECT RESPONSIBILITIES

Project Manager

### BIOGRAPHY

**Mr. Nebbs** was first introduced to the mission critical world in the mid 80's when DC power was predominant within the telecom industry and main frames computers were being cooled with chilled water. Since then Mr. Nebbs has been actively involved with the design of the electrical and mechanical systems supporting data centers that have evolved and included a variety of main frame, internet/co-location, server farm, and supercomputing environments. Mr. Nebbs is also actively involved, exploring new technology trends for mission critical facilities, especially associated with combining high reliability, high density and energy efficiency ideas within a mission critical setting

### AREAS OF EXPERTISE

- Programming/Master planning
- Authoring the 'Owners Project Requirements' (OPR)
- Single Point of Failure and maintainability analysis
- Reliability assessment
- High Availability design – Dual Path Topologies
- Load, capacity and life span analysis
- DC data centers
- Concept engineering and development of the Basis of Design
- Design management
- Computational Fluid Dynamics analysis

### PROJECT EXPERIENCE

Mr. Nebbs has managed Tier III and IV data center design projects from concept through to commissioning with an internationally recognized mission critical engineering firm during the last 10 years. Projects were located in the US, Asia, Europe, South and Central America, and the Middle East. These projects have included amongst others static and rotary UPS systems, thermal storage, cogeneration, mechanical systems supported by UPS, and a DC data center concept.

#### Representative Data Center Projects:

- Qualcomm Inc. (India, & US)
- Go Daddy.com
- Credit Suisse First Boston (Hong Kong, Singapore, Tokyo)
- Exodus Communications (Europe, Asia & US)
- AT&T (South America)
- IBM (Singapore & Hong Kong)
- KIO Networks (Mexico City)

### EDUCATION

B.Eng.(Hons)|1991|Electrical & Electronic Control Systems Engineering|Sheffield University, United Kingdom

### ACTIVE REGISTRATION

2001|Professional Engineer|CA,