



Phillips Building  
Consultants

# ROBERT P. WICHERT

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**POSITION: EXECUTIVE CONSULTANT**

## **EDUCATION**

- University of California, San Diego
- University of California, Berkeley
- California State University, Sacramento, B.S.M.E. 1977
- California State University, Sacramento, Communication Studies

## **PROFESSIONAL EXPERIENCE**

### **Robert P Wichert Professional Engineering, Inc.**

HVAC design; plumbing design; energy audits, Energy Star portfolio management, utility rebates, HERS II Ratings, CTCAC Analysis, LEED consulting, custom mechanical process design, fuel cell consulting, project management.

1992 – 2014

### **US Fuel Cell Council**

Technical Director, engineering, research, regulations and communications.

1998 - 2011

### **Desert Research Institute**

Fuel cell programs, fuel cell scooter design.

1998

### **Sacramento Municipal Utility District**

1976 – 1997

1992 – 1997

Advanced & Renewable Technology Program Supervisor  
Advanced & Renewable Technology Development Program

1990 – 1992

Generation Planning Supervisor  
New generation system planning  
Acquisition of ~1000 MW of new generation  
Advanced Technologies Program, hydroelectric planning, cogeneration planning,  
natural gas forecasts.

1976 – 1990

Mechanical Systems Manager, Plant Performance Manager, Technical Support  
Superintendent, Power Plant Engineer.



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## **SUMMARY OF QUALIFICATIONS**

- Registered Professional Engineer in California (M021652) and Oregon (74040PE).
- Full member of ASME, IEEE, NFPA, USGBC, ASHRAE and SAE.
- Experience with Heating, Ventilating and Air Conditioning (HVAC) systems of all types.
- Electric power experience: fuel cell, solar, PV and wind applications, renewable energy sales, advanced energy efficiency technologies, resource demonstrations, economic analyses, national and international technical transfer, energy procurements.
- Technical Support Engineering: materials and failure analysis, scheduling, routine and special tests, energy planning, generation planning, generation operations, power plant licensing and regulation.
- Experience in systems engineering including controls; performance monitoring and testing; fluid flow; metrology; economic analysis; piping; pumps; motors; compressors; fire protection engineering; and building commissioning.
- Completed Senior Nuclear Reactor Operator License Training
- Former California Div. of Industrial Safety Certified Crane Inspector
- Former ASNT TC-1A certified Level 2 Test Engineer
- LEED AP BD&C; Green Point Rater; HERS I/II Rater; Building Performance Institute Certified Building Analyst; Certified Energy Analyst; Certified Energy Plans Examiner

## **AFFILIATIONS AND AWARDS**

- International Electrotechnical Commission 1906 Award
- Chairman of ASME PTC 50
- Member of IEC Technical Committee 105 – Fuel Cells
- Member of ISO Technical Committee 197 – Hydrogen
- Member of CSA International Fuel Cell Technical Advisory Committees
- Member of NFPA Power Plant Fire Safety Committee and Hydrogen Safety Committee
- United Nations Sub-Committee of Experts on the Transport of Dangerous Goods
- International Civil Aviation Commission Dangerous Goods Panel
- SMUD Greenergy®