

Robert William Page

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Status


Name	Robert William Page
Application Date	10/6/2024
Expiration Date	10/6/2026
Board Member	Robert William Page
Status	Validated

Board	Vacancies	Status
Historic District Commission	2	Pending

Basic Information

**Name**  
Robert William Page

**I would like to be appointed to the position because:**  
I have strong interest in history and wish to increase my contributions to the community.

**Resume File**  
 [Download](#)

Contact Information

**Address**  
423 Hope Street, Unit K  
Bristol, RI 02809

**Yes, I am a resident**  
Yes

**Email**

**Phone**

Occupation

**Yes, I am a city employee**  
No



## Robert Page      R W Page, LLC

**Project Manager**

**Consultant – Design, Construction & Management**

### Expertise

- Project Management
- Owner Representative for EPC Projects
- Organizational Development
- Forensic Analysis of Organizational and Process Failures
- Strategic Organizational Planning
- R&D Project Management
- “1<sup>st</sup> of a kind” Project Management and Product Development
- CO<sub>2</sub> Capture projects

### Education

- B.A. History, Hanover College, 1968

### Fifty Years of Experience

- Electric & Gas Utility
- Design, Construction & S/U PM for 4,400 MW Natl. Gas Plants
- Director of Power Design offices, US
- PM Hydrogasification
- PM EV Charger Design & Fabrication
- First of kind design and fabrication

Mr. Page serves as a consultant focusing on project management and organizational development. While the majority of his work has been concentrated on electrical energy generation, he has successfully managed major projects from conception through completion in energy, construction, insurance, healthcare, engineering, and software. Following his years with a regulated utility his consulting clients have ranged from entrepreneurial start-ups to established companies including EPRI, AEGIS, DOE/NETL, Duke Power, Panda Energy, Bally Entertainment, American Express, Arizona Department of Health Services, Burns & McDonnell, ECotality, and Comp-Health.

As the **Chair of the Palo Verde Engineering & Operations Committee** during the final years of construction and the early years of operations Mr. Page had extensive experience in the financial, contracting and ownership management of a large three unit nuclear facility. Reporting directly to the Executive VP his range of responsibilities was wide including distinct accountability for results. Some of the broader responsibilities included representing the owners on the El Paso bankruptcy Creditors Committee, managing the development of a software tracking system for NRC Commitments, and lead in achieving approval of all capital budgets, O&M expenses, and organization approval.

Mr. Page held several other management positions within the Palo Verde organization covering early construction through the licensing and operation of all three units. One of his more unique assignments was the management of the owners’ position through the Prudence Audit of Palo Verde by the four state utility commissions. While this was an advocacy role (and a successful one) it also provided an opportunity to thoroughly review all aspects of the design, procurement, fabrication, start up and accounting of the project – a unique learning experience regarding nuclear design/construction.

Mr. Page, following his Palo Verde experiences, has managed a large number of projects including **two successful EPC projects**. During the early 2000’s he was appointed the Owner PM on a 2,200 four-unit Combined Cycle Gas plant in southern Arkansas. Mr. Page was brought in initially to reconstitute the Owner’s site team, and then following the dissolution of Enron, to take over the day-to-day management of the EPC contractor in addition to managing the combined cycle plant’s design, procurement and construction. Following the start-up of the second of the four units Mr. Page was transferred to the Owner’s Arizona plant, then in the early stages, because it had badly fallen behind schedule. While continuing to work one week a month in the EPC contractors home offices to approve on-going efforts related to the two plants, he was Project Manager of the Arizona project bringing it in on budget and ahead of schedule, while meeting all of the performance goals.

Mr. Page has a thorough knowledge of managing start-ups, project management, and organizational development. His experience is broad and has involved a significant variety of industries and challenges.

# Robert Page

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## Project lead for Energy Projects

- PV Audit (\$10b at risk)
- Iatan 2 design/build new 900MW coal plant.
- Iatan 1 construct new pollution control system
- Union Combined Cycle GT design build 2200MW
- Gila River Combined Cycle GT design/build 2200 MW.
- Y2K International analysis and teaming for international energy companies.
- Prairie Island Outage review and recommendations
- Columbia NS Outage review and recommendations
- PVNGS Licensing and Commitment automated tracking system development
- Created APS Warranty & Conformance group.
- Developed PVNGS Emergency plan.

## Work Experience

### Consultant for ASU/CNCE, Kita, CarbonX, Parsons, etc. **Current**

Project consultant on carbon capture and sequestration of carbon.

### Project Consultant for Aircela, ASU/CNCE, Patch, HG, etc. **2017 - 2023**

Consult on CO<sub>2</sub> removal with capture companies, brokers, and insurance carriers. ASU projects have included DAC design, sorbent R&D projects, sequestration certification, patent development & tracking, and Techno/Econ analysis projects.

### Consulting **2015 - 2016**

Bruce Nuclear plant refurbishment project; Modus Strategic Solutions/Burns & McDonnell. Nov '15 – Nov '16

Qualitas Health; Project Manager for Plant Commissioning – May to October '16.

Consulting projects for Electric Applications & Idaho National Labs. – 2015/2016

### Director of Projects, Parsons Brinckerhoff Power **2012–2015**

Manage PB power generation projects in North America and provide consulting and oversight to power generation projects globally. Re-structure project staff as an independent functional group within PB Power growing the group and adding expertise. Manage PB power generation projects in North America, as Director of Projects for PB Power Mr. Page has overseen the growth of an independent projects organization currently staffed with highly qualified Project Managers and Staff. Global projects included working partnership with Petro SA on GTL, Ressano Garcia GT project in Mozambique, and Blue Whale CCGT in Vietnam. As part of his role provided a hands-on approach to project management spending many days at each of the active sites walking the site, discussing the project with everyone from craft to management and keeping abreast of all PB deliverables. (PB was a subsidiary of Balfour Beatty, London).

### Project Director, ECOtality **2010 - 2012**

Project Manager for design, testing and fabrication of EVSE products. Led three separate projects for different first-of-a-kind products through design, testing, certification, fabrication and initial field deployment. A fourth project involved the development of network software and software/firmware within the equipment. This included the creation of a process for collecting fees for charging Electric Vehicles - the screen customer interface, customer payments & reporting. DOE requirements for this project focused on production of data and analysis on the reaction by EV users to fees as related to use. The project resulted in the first large scale introduction of home and commercial charging. The public charging infrastructure included fast chargers.



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## Lead role on Start-ups

- ECotality EV chargers design & fabrication
- Qualitas plant start-up & commissioning
- DOE/NETL Hydrogasification invent, design, & build prototype
- Petro SA GTL project overview
- Medical Bluetooth
- Via Net metering
- EMEL creation of new South American utility; advise the CEO.
- Auto Dispatch Systems engineering and IP reorganization.
- Clarity Water Purification planning and organizational development.
- Diesel Gen Conversation
- On Digital
- Bally Casino venture lead including design.
- Panda strategy for Ops management

## Nuclear Capital Improvement Projects, Burns & McDonnell

2011

Analysis and recommendations for two operating nuclear plants on how to streamline and improve accountability for Capital improvement projects and other capital expenditures. Led Burns & McDonnell team reporting to the CNO.

## Project management, consultant to the Site VP latan

2008 – 2009

Led a consulting team for the turn around of a two-unit fossil design/construction project under the direction of the owner's site executive. Effort included the re-organization of engineering, start up and construction teams. The consulting team overcame a series of obstacles from contractor agreements to tube welding failures. The facility went on-line meeting performance goals and regulatory commission approval of expenditure. The plant was successfully completed and included in rate base.

## Organizational Consulting, State of Arizona

2007

Management consulting for the executive management team at ADHS including organizational changes and the successful restructuring of several programs.

## Project Manager DOE Hydrogasification project

2005 - 2007

Project Manager for a DOE/NETL R&D project to convert coal to methane through the introduction of heated hydrogen. Project focused on a new technical and conceptual approach with extremely low CO<sup>2</sup> production. Effort resulted in successful test of a forty foot hydrogasification test reactor with the production of methane from low sulfur coal. Associated lab based R&D on algae to fuel.

## Litigation Consultant

2006

Consultation on for attorney presenting a case on mercury contamination from Cooper mining and smelting.

## Strategic Planning for Panda Energy

2004

Analysis of independent energy organization strengths and weaknesses, followed by all company retreat to test directional ideas and focus. Worked with management and the Board to develop strategic plan and organizational restructuring. Provided executive management coaching and organizational development.

## Project Manager; Union and Gila River power plants

2001 - 2004

Owner Project Manager for consortium of owners at a EPC project of two gas fired 2200MW merchant plants. Over saw all aspects of the job including day-to-day direction of the A/E-Constructor. Reporting to the General Manager, lead the resolution of several challenges including the effect of the ENRON chapter 11 on the projects, management restructuring, and a number of construction related hurdles. The two projects came in ahead of schedule and under budget. The Projects met or exceeded all performance testing guarantees.

## R&D Projects

Analysis of retirement investments. '71

Lamd ownership vs. taxes '71

Electrical voltage path resistance '73

Pipe spool fraud '74

Coal Boiler failure cause '74

Bunker oil for turbine, 1<sup>st</sup> of kind '75

Gas turbine metals heat expansion. '75

Ball mill failure mode. '76

Value study, public interaction for nuc acceptance '80

Nuclear plant safety based on barrier approach (1<sup>st</sup>). '83

Remote emergency response facility infrastructure. '84

Nuc construction review with Victor Glinsky. '84

Nuc Audit expectations. '88

Audit process creation '88

Investigation of Nuc construction costs. US. '89

Nuc S/U study. '89

Electric generation financial analysis. '91

PVNGS capital and O&M cost and return study. '92

IT tracking of commitments, 1<sup>st</sup> automated program. '93

Management presence impact on safety. '93

## Consulting Projects

1998 - 2001

- Developed several projects for American Express Technologies Resource Center relating to a major international IT initiative, working with systems process, communication, culture change and transition planning. Participated in the development of IT availability project enterprise wide. The project included an in-depth planing phase involving the software, structural and organizational changes that would be required. The project team developed international systems process, communication, and transition planning
- Develop plan for investment in start-up high tech company – Blue tooth technology
- Analysis and coaching with Vysocina Region Council Member (Czech Republic) regarding approaches to regional management, decision processes and organizational development.
- Expansion planning into utility field for a scenic development company.
- Downtown re-development planing for Downtown Partnership, Scottsdale Arizona. Assignment included future planning and visioning for the Board. Developed and implemented a personal survey of clients. Developed recommendations for the Board on a strategy for implementation.
- Develop management and process capabilities of maintenance teams for a west coast Duke Energy oil and gas plant.
- Automated Dispatch Systems - organizational development and design/engineering development. Exploring new strategies and markets, as well as creating a culture that fosters innovation and employee involvement at a IT services and software development company.
- Advised CEO of South American utility on four-way merger, creating EMEL Electrica. Included traveling as advisor to CEO to all Company Divisions to address management and employees as part of developing the requirements for change, organizational development and providing support for the merger of the utilities in northern Chile.
- Business Plan development for Sumitomo SITIX (enviromental focus), Tarbell's (expansion), Larsen Company (growth & expansion), Clarity Water Purification (new business plan & organization), Via Net (remote metering marketing plan), On Digital (preparation for sale), Wyatt/Rhodes (plan and organization), and Baltes & Valentino (development).

## Project Manager of Energy Team for EPRI Y2K Project

1998 - 2000

Managed EPRI's Y2K program as it related to worldwide members. EPRI Y2K Project involved the investigation and review of thousands of power plant



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Kai Resort concept desing '94  
 Safety rules for EV open wheel racing. '94  
 Tribal history based on the written record. '95  
 Claim payment analysis tied to premiums. '96  
 Mid tier gas & oil company risk profile. '96  
 Create safety/emergencecy response; school program. '96  
 MD automated credentialling program (1<sup>st</sup> of a kind). '98  
 Y2K inernational energy infrastructure investigation '99  
 Electric metering study. '01  
 Bluetooth for patient records in real time (1<sup>st</sup>). '01  
 Water filtration. '01  
 Switchyard isolation. '02  
 Pump chamber cavitation. '02  
 Plant breaker design flaw. '03  
 Power generation study. '04  
 Hyrdogasification design & build '06  
 Mecury contamination from Cooper mining. '06  
 Behavioral Health tracking '07  
 Nuc plant outage over-runs '11  
 Develop EV. Charger software & firmware interface '11  
 Design, fab, & install EV chargers '12  
 Create EV charger screen

components. Led the effort in developing the data base (web feed), cataloging, data mining, and providing the required customer service to members. Traveled to member sites in the US and abroad providing assistance and guidance. Our team facilitated the development and sharing of information among the member energy companies.

### Strategic Planning & Business Development: CompHealth 1997

Developed the business plan, financial projections, and strategy for CompHealth in preparation for a corporate merger and eventual purchase. Worked with the client to develop a new line of business (contract credentialing) including hardware, one-of-a-kind software, and process design.

### Consulting on EV Project 1997

Created the business, financial and strategic plan for EVTC, which resulted in funding for a national educational electric vehicle program. Developed Process Flow and procedures for Charger fabrication from sales through delivery. The program included educational partnerships with high schools and colleges to research and test EV' in race conditions and battery swap "fast charging".

### Strategic Planning for AEGIS Insurance Services 1996 - 1997

Envisioned a customer oriented strategic planning process for AEGIS Insurance Services. Visited and interviewed 40% of AEGIS customers and brokers in preparation for strategic planning. Worked with the member committee and the Board to develop a new strategic focus and plan. Developed and implemented a process to determine the state of customer relations and changes in the business environment for customers, resulting in a new strategic management plan including expanded customer base and products.

### Long Range Planning - Arizona School Risk Retention Trust 1995 – 1997

Future planning and mamangement support including the creation of several programs for school safety, analysis of risk & mitigation, and developed a data mining approach for historical and current data. Involved in presentations to the Board and to clients. Prepared an emergency handbook for schools and developed associated training plans. The trust is a member owned insurer and risk management provider for school districts.

### Consulting to Bally's Casino on Development project 1995 - 1996

Project Manager of the development of a new approach to casino formation for Bally's; coordinated the development of a theme, architecture, economic feasibility, ROI model, operating structure and overall concept for a new casino and destination resort.

### Arizona Public Service 1971 – 1994

- Served for two years as a member of the El Paso Electric Creditors Committee and successfully represented the Palo Verde owners interests through the committee,

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interface '12	hearings and negotiations. Successfully represented the objectives and commitments of the Palo Verde owners.
Write & implement EV charger payment model '13	
Project Procedures for Balfour Beatty '13	<ul style="list-style-type: none"> <li>Chaired Palo Verde NGS Owner Committee and lead the O&amp;M and Capital budget approval process for the operating station. Responsible for the Ownership Agreement, ownership relations, and owner rate case support. Reported to the Executive VP for PV. Chaired the E&amp;O Committee during both construction and operations. Chaired the Engineering and Operating Committee of the Palo Verde Nuclear facility responsibility included approvals of O&amp;M budgets, Capital budgets, Outage Schedules, and Man-power levels.</li> </ul>
Ressano Garcia Project logistics '13	
Algae water velocity flow study '14	<ul style="list-style-type: none"> <li>Project lead for development of IT licensing and commitment tracking system.</li> </ul>
Wyo methane to liquid fuel '14	<ul style="list-style-type: none"> <li>Led the effort to defend Palo Verde construction and start-up costs in a four-state prudence audit, including hearings in three states. Developed an agreement among the owners for the four-year audit, delivered thousands of documents to the auditors and conducted an independent internal investigation of the allegations, including a full response to the audit. Completed a comprehensive financial review of the project along with a comprehensive narrative review. Successful findings by the outside auditor included a detailed recommendation that on balance favored Palo Verde.</li> </ul>
Undersea cable, wind farm '15	
Solar Street Lighting '15	
Revised design & process for Algae raceways '16	
New form of outage scheduling for Bruce Power '16	
Schedule Plan '17	<ul style="list-style-type: none"> <li>Responsible for the creation of the first Emergency Plan for Palo Verde (including facilities, training, procedures, &amp; government liaison). Lead the first three successful NRC/FEMA Drills. Pioneered a barrier approach to classification.</li> </ul>
Battery Testing business & marketing strategy '17	<ul style="list-style-type: none"> <li>Created a group to handle nuclear (and other generation) public and government communications program for Palo Verde after TMI. Wide range of unique and innovative programs. Developed on-site comprehensive public communications program for Palo Verde NGS including visitors center and displays, tours, "Hard Hats for America", and numerous outreach program including – neighborhood picnics, Protesters Park, and Newsletter. Created public tour program for nuclear power including daily free bus trips to PV from Phoenix, expanded literature, tour speaker's bureau, speeches and tour talks, stakeholder focused organized tours, and community leader walking tours.</li> </ul>
Research projects at ASU	
<ul style="list-style-type: none"> <li>Belt '17</li> <li>Tiburio '18</li> <li>Ladder '19</li> <li>Auto/T '20</li> <li>Ski Lift '21</li> <li>Stone for capture '21</li> <li>Helical '22</li> <li>Chimney '22</li> <li>Stone for capture '22</li> <li>Data center CO<sub>2</sub> '22</li> <li>Telescope '23</li> <li>Scoop '23</li> </ul>	<ul style="list-style-type: none"> <li>Developed an engineering department to handle warranty and conformance issues for power plants and T&amp;D. Created a new approach to this type of loss for utilities, several national industry publications covered the approach. Accident investigation of numerous forced outages at a variety of types of power plants.</li> <li>Created a process (and implemented) for handling large property claims. Investigated, created the presentation to the insurance carriers and negotiated the settlement. Settled several losses in the \$10,000,000 range. While most work was at power generation facilities investigations were also completed at other facilities.</li> <li>Investigation of property and personal injury claims (electric and gas). Responsible for preparing the cases for litigation or settlement. Provided reports,</li> </ul>



## Robert Page

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depositions, and testimony.

- Analysis of land holdings, tax liabilities, pension fund returns, and other comparative analysis for Arizona Public Service Corporate Secretary .

APS Power plant work:

- Westinghouse gas turbine fractured blades
- GE “bottom of the barrel” gas turbine stack explosion (West Phoenix)
- Turbine shut down without lube oil (4-Corners)
- “Melted” boiler tubes (4-Corners)
- Turbine deck tilt (4-Corners)
- Ash pond leak (Cholla)
- Cooling tower performance test failure (West Phoenix and Saguaro)
- Turbine failure (Childs & Irving)
- Reactor Coolant Pump (Palo Verde)
- Supply chain fraud (Cholla)

Teacher; Wilbraham and BMI Academies

1968 - 1971

### Publications:

- Emergence response Comes of Age – INPO Review Vol. 4, 1984
- “School Emergency Response Plan” Arizona School Risk Retention Trust, publication. 1999
- “A Pictorial Perspective of Palo Verde” PVNGS public publication, 1987
- “The Palo Verde Portrait” 1987
- “PV, A Historical Perspective”; ANPP. 1986
- “The ki Resort – A Contemporary Celebration of an Ancient and Living Heritage” 1996
- “Understanding Radiation” APS Public Information Brochure. 1981
- Contingency Planning; Considerations for the year 2000, EPRI Year 2000 Project
- Power Plant Fact Sheets – Cholla, 4-C, Saguaro, Ocotillo, WP, CI, Solar, Wind
- “The New Generation” – multiple volumes
- Carbon to Gas Hydrogasification, Coal to Gas & CO<sub>2</sub> Recycle. DOE/NETL. Feb. 2008
- “Our Energy Crisis – What Can We Do?” Garden Club of A. National Bullitine, May 2010
- Lessons Learned – The EV Project Membership-Price-Rewards (MPR) Program. Prepared for the US Department of Energy, Award #DE-EE0002194. Dec. 2012
- EPRI Y2K Quarterly Updates and Final Report (multiple authors)
- Workforce, I-West; Los Alamos National Lab Pub. 2022
- Direct Air Capture, I-West; Los Alamos National Lab Pub. 2022
- CNCE Report, ASU, Nov. 2022 (Working paper on Carbon Removal Accounting)
- A Blue-Print for Operationalizing Net-Zero Goals, ASU Jan. 2023
- Eliminating the Need for Life Cycle Analysis for Carbon Accounting; OSF, Feb 17, 2023.
- Eliminating the Need for Life Cycle Analysis for Carbon Accounting; pending publication March 2023
- Carbon Accounting, Royal Society of Chemistry Journal Oct. 2023 (D3EE01138K)



# Robert Page

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## Education

BA in History Hanover College, IN  
Accounting – Glendale Community College  
Electronics – Glendale Community College  
Northern Arizona University – Management Academy  
Phoenix Community College - Nuclear Radiation Management  
Panel of Arbitrators & Mediators – US Arbitration & Mediation

## Community Service

- Founding member of the Arts Commission for the City of Glendale Arizona
- Chairman of the City of Glendale Arts Commission
- Chairman Phoenix Art Museum CA Show
- President of the Phoenix Art Museum Men's Arts Council
- President of the Phoenix Art Museum Western Art Associates
- Founding President Phoenix Art Museum La Alianza - Latin American Art Alliance
- Member of Scottsdale Artists School Board of Directors
- Member Phoenix Art Museum Board
- Member Long Range Planning for Friends of European Art
- Vice President Valley Youth Soccer Association; team Captain Adult League
- Founding Commissioner State of Arizona Energy Purchasing Review Board
- Chairman of APS Cultural Diversity Panel
- Board Member of Glendale Leadership Advancement and Development
- President Hidden Manor Homeowners Association
- President Camelback Village HOA
- Member Attorney Discipline Probable Cause Committee of the Supreme Court of Arizona

## Patents

- Systems for measuring Electricity and Method of provide and Using the Same. #8,595,122
- Control Systems for Electricity Transfer Device and Related Systems and Methods. 0323588-E11-US
- Electricity Transfer System Network and Related methods. 0330820-E14-US
- US 2020/0339603 Turbulance;
- US 2020/0398214 US Patent 11,738,300 B2 Passive Carbon (Loop)
- US 2020/0398214. Method for Passive Capture of CO2. US patent 11,738,300
- US 2021/0119882 Passive Capture with Helical Sorbent Structure.
- US 2021/0387133 A1 Passive Collection of Atmospheric Carbon
- US 2022/0339603 Enhanced Capture for Structures.
- US 2022/0355238 Moving Sorbent System for the Capture of CO2.
- US 2023/0119882 Passive CO2 Capture Device with a Helical Sorbent Structure.
- US 2023/0277976 System for Capture of CO2 with Enhanced Airflow (Chimney)
- US 2023/0347278 System & Method for Passive Capture (Belt).
- US 2023/0415090 Device & Method for Capture, Suspended Disks.
- US 2024/0091698 A1 Passive Collection of Atmospheric CO2
- US 2024/0091698. Passive Collection of Carbon Dioxide with Electro Swing Materials.
- US 2024/12,070,717. Device, System and Method for passive Collection of Atmospheric CO<sub>2</sub>
- Disclosures – M18-223 (Air Lock), M19-168 (Small Cap/Fork), M19-180 (Passive & Ladder), M20-017 Storage & Upgrade), M21-061 (Hanging Disk), M21-039 (Electro Swing), M21-163 (Double Wall), M23-126 (Telescope), M23-068 (Scoop), (M21-173 (Form Factors), App #63,665,230 (System for carbon collection within a data center).

Work Locations: Canada, Chile, China, Germany, South Africa, UK, and USA.

Employers: USA, Canada, Japan, Israel, Czech Republic, France, United Kingdom.