

*OFFICE OF TECHNOLOGY INNOVATION*  
TECHNOLOGY CONFIRMATION/INNOVATION COUNCIL  
BIOGRAPHIES

***COUNCIL MEMBER BIOGRAPHIES***

**John Anasis, Senior Electrical Engineer**

John has been with BPA since 1985. Prior to coming to BPA, John was a student trainee with the U.S. Army Corps of Engineers Hydroelectric Design Center. John's BPA career has encompassed a wide range of subject areas, including system operations, power system studies, management of Available Transmission Capacity (ATC), transmission scheduling, transmission tariff and commercial policy issues, and RAS design. John is currently the lead study engineer for the Technical Operations group in BPA's division of System Operations. He is a senior member of the Institute of Electrical and Electronics Engineers (IEEE) and is a licensed Professional Engineer in the state of Oregon. John received his BS in Electrical Engineering with a second major in physics from the University of Portland in 1985 and a Masters in Public Administration from Portland State University in 1989. He is currently working on a Ph.D with the Systems Science Department at Portland State.

**Joshua Binus, Policy Strategist**

Joshua joined BPA's Corporate Strategy team in 2012 and is currently leading the development of an agency-wide commercial operations strategy. He was previously matrixed into several teams at BPA. As a member of the Smart Grid/Demand Response team, he managed the agency's commercial and industrial demand response pilots. As a member of the Energy Efficiency team, Joshua helped coordinate the Northwest Energy Efficiency Taskforce and served as project manager for the development and maintenance of the National (formerly Northwest) Energy Efficiency Technology Roadmap Portfolio and served as the agency's "non-wires" transmission planning lead. He is also a Portland State University adjunct instructor in the Department of History and School of Business Affairs, with a B.S. in Environmental History and an M.A. in History of Science and Environmental History. His graduate research and ongoing academic endeavors have been focused on the historical development of the electric power systems of the American West, with an emphasis on the Pacific Northwest.

**George Brown, Mechanical Engineer, Federal Hydro Projects**

George has worked in the Federal Hydro Projects group at BPA since 2010 where he provides technical expertise to propose and evaluate reliability, efficiency, optimization, and modernization investments at the FCRPS hydro generating facilities. He also works on projects targeted at developing environmentally enhanced turbines for use on the Columbia R. He previously worked for nine years as a hydropower design engineer and team lead at the Hydroelectric Design Center of the Army Corps of Engineers. His focus was on large hydro turbines and pump systems but gained experience in a wide variety of hydro generating equipment. He holds a bachelor's degree in mechanical engineering from the University of Portland and is working to complete a master's degree in environmental engineering from Portland State University with a focus on energy and water resources.

**Larry Buttress, Vice President of Information Technology & Chief Information Officer**

Mr. Buttress has 30 years of IT experience in creating, developing and managing IT in large, complex organizations in the energy and silicon industries. He is responsible for BPA's critical reliance on IT to sustain BPA's business processes and transmission system reliability.

**Ryan Fedie, Energy Efficiency Engineering Supervisor**

Ryan oversees the technical direction of Bonneville Power Administration's (BPA) Energy Efficiency Department that has saved over 700 million kWh each of the last two years and includes demand response and smart grid activities. These achievements helped residential, industrial, commercial and agricultural customers save millions of dollars in energy each year and are thanks to collaboration among the BPA, Northwest Power and Conservation Council, regional utilities, state agencies and environmental interests. This continues a legacy of conservation efforts where energy efficiency accounts for nearly 12% of regional electricity production. Ryan is accountable for energy efficiency's R&D and emerging technology efforts in partnership with the agency's office of Technology Innovation. He is also a member of the Regional Technical Forum and BPA sustainability team. Ryan holds both a B.S. and M.S. in Mechanical Engineering and will complete an M.S. in Engineering and Technology Management this year.



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### **Mark O. Gendron, Acting Sr. Vice President, Power Services**

Mark is currently in the Acting role of Senior Vice President, Power Services, Bonneville Power Administration (BPA), as of November 2013 to present. He oversees a multi-faceted organization that is responsible for the acquisition and sales of wholesale and bulk power, asset investments in the federal hydro system and one nuclear plant, the acquisition of additional power resources, management of wholesale power contracts producing \$3 billion in annual revenues, and management of an annual capital budget of over \$170 million. Prior to November 2013, Mark was the Vice President of Northwest Requirements Marketing in Power Services, at Bonneville Power Administration (BPA). He has served on a variety of public power organization committees and boards, including Public Power Council, Idaho Consumer-Owned Utilities Association, Idaho Energy Authority, and Utah Associated Municipal Power Systems. Mark has a Bachelor of Science Degree in Electrical Engineering from the University of Colorado and is a Licensed Professional Engineer in Idaho.

### **Richard B. Génécé, Vice President, Energy Efficiency**

Richard Génécé is the Vice President of Energy Efficiency for Bonneville Power Administration (BPA), a wholesale energy provider in the Pacific Northwest. Richard leads a team of 100 passionate and committed leaders and individual contributors in Engineering, Policy, Programs, Evaluation, Measurement and Verification and Contract Administration. Richard joined BPA's Executive Leadership Team in January 2013. Before BPA, Richard worked with Southern California Edison (SCE) as their Residential Portfolio Manager in Energy Efficiency for over four years. Before SCE, Richard worked in several positions of increasing responsibility for General Electric, General Mills, Procter & Gamble and Ameritech in Sales, Marketing and Procurement. He earned his Bachelor of Science Degree in Informational & Decision Sciences from Carnegie Mellon University and his MBA in International Marketing from Indiana University in Bloomington.

### **Jeff Hildreth, High Voltage Test Expert**

As the high voltage test expert, Jeff helped develop a business plan to transition BPA's laboratories current state to a new, more sustainable and valuable path for BPA. Jeff also played a key role in the development of the Collaborative Transmission Technology Roadmap – a joint project with BPA, EPRI, PSU, and a group of transmission utilities. He is a senior member of the Institute for Electrical and Electronic Engineers (IEEE). His employment experience includes the design of high-speed digital circuits at Intel Corporation in Portland, OR and the testing of power system components at the NEETRAC High Voltage Lab in Forest Park, GA. He graduated from the Georgia Institute of Technology, Atlanta GA, with a BS degree in Electrical Engineering in 1995 and a MS degree in Electrical Engineering in 2002.

### **Steve Kerns, Manager, Short-Term Planning Generation Asset Management**

Steve Received a BS in Engineering Physics from Miami University in 1984 and an MS in Applied Physics from the Johns Hopkins Whiting School of Engineering in 1989. Steve began his career at BPA in 1992 as the lead developer on the Hourly Operations and Scheduling Simulator (HOSS) model and has continued to be heavily involved in the development and implementation of new models at BPA. In 2006, Steve was selected as the manager of the short-term planning group which performs analysis on and coordinated the operation of the FCRPS from the current day through the next few weeks.

### **Anthony Montoya, Chief Operating Officer, Western Area Power Administration (WAPA)**

Tony has over 31 years of varied experience with Western where he currently has broad executive oversight of Western's daily business operations including engineering design and technology innovation. Previously, Tony pioneered various control, transient, harmonic, and subsynchronous resonance system studies as member of the International team that developed the world's first thyristor controlled series capacitor banks. He has additional experience managing the construction of extra high voltage transmission lines and operating the Western Area Lower Colorado (WALC) balancing area. Tony is an elected member to the NERC MRC, the member representative to WECC, and a member of the RMEL Board of Directors. He is a registered professional engineer, a Senior IEEE member and a member of CIGRE. Dr. Montoya received a PhD in Public Administration from the Arizona State University, an MSEE from the University of Colorado, and a BS Degree from the Colorado School of Mines. His research interest include Flexible AC Transmission Systems and the social, economic and policy impacts of technology.



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### **Terry Oliver, Chief Technology Innovation Officer**

Terry has worked globally to advance sustainable energy and re-engage the electric utility industry in critically important research and development. He has worked for BPA since 1981. Terry led the world's largest residential conservation program and ground-breaking research in community-based conservation, designed the first Demand-Side Management programs ever undertaken by a developing country, created linkages between sustainable energy, jobs, and the local and global environment with non-government organizations throughout Asia, South Africa, and the Middle East. As BPA's Chief Technology Innovation Officer, Terry has tripled BPA's investment in research and development. He has transformed BPA's executive and staff engagement in defining and managing a research portfolio. He led the creation of BPA's first public and formal research agenda. Terry advises the Electric Power Research Institute, Carnegie Mellon University's Electricity Industry Center, and the Smart Grid Policy Center.

### **Ryan D. Quint, PhD, Electrical Engineer**

Ryan is an Electrical Engineer in Long Term Transmission Planning and has been with BPA since 2009. Prior to this position, Ryan worked in Customer Service Engineering, Measurement Systems Laboratory, Remedial Action Scheme Design, and Transmission Planning. In Spring 2013, he completed his PhD degree from Virginia Polytechnic Institute and State University, focusing on "Response-Based Synchrophasor Controls for Power Systems." His academic R&D efforts integrated with multiple BPA Technology Innovation projects aimed at utilizing synchrophasors for state-of-the-art monitoring and controls. Ryan is actively involved in over 8 Technology Innovation Projects as well as Technology Roadmap development and Transmission Planning's Grid Transformation Initiative. His current work efforts include risk-based planning methods, power system stability assessment, advanced controls, non-wires alternative solutions, synchrophasor applications, and remedial action scheme design.

### **Richard Shaheen, Vice President of Engineering & Technical Services**

Richard has over 27 years of leadership and technical experience in the electric utility industry. Currently, as leader of BPA's Engineering and Technical Services organization, Richard has responsibility for implementing Transmission Services' capital program, providing technical support for the transmission/substation maintenance program and providing real property services to BPA. Additionally, he serves as BPA's principal engineer and key policy formulator, leading the design, material specification, coordination, project management and construction of major transmission/substation infrastructure projects necessary to sustain and improve the reliability of the existing transmission system and incorporate new generation facilities. His career also included work with Florida Power and Light in areas of operations, engineering, technology, technical services, construction management, and customer/commercial/regulatory arenas. Richard holds a bachelor's degree in electrical engineering from the University of Florida and a master's in business administration from Florida Atlantic University.

### **Randi Thomas, Manager System Operations**

Randi has worked at BPA for over 30 years, spending time in engineering, project manager and managerial responsibilities in both Engineering and System Operations organizations. In her current role, Randi manages an organization responsibly for Transmission Grid reliability which includes the Dispatch Control Centers and all technical engineering support for that function. Her organization has been instrumental in the integration of renewable generation into BPA's transmission grid. She holds a BSEE in Electrical Engineering from the University of Portland.

### **Don Watkins, Principle Operations Reliability Engineer**

Don has worked for BPA for 29 years, having spent 25 years in System Operations. He has been directly involved in most of the reliability issues that have developed over the years including addressing solutions to several areas of transmission constraint, participating in solutions to many reliability issues of the Western Interconnection, developing a program regional coordination of outages, as well as participation in the investigation and analysis of the 1996 Western blackout and the 2003 NE black out. His past duties have included managing BPA's Operations Engineering unit, serving on the Gridwise Architecture Council as it developed the Constitution and the Interoperability framework, and serving as the Chairman of the Western Electric Coordinating Council Operating Committee. He is currently the US Federal representative to the North American Reliability Corporations (NERC) and a member of BPA's Innovation and Reliability Councils, as well as being actively engaged in the Pacific NW Smart Grid Demonstration Project.

### **Cheryl Woodall, Load Forecast Analyst**

Cheryl is a load forecast analyst with BPA's Load Forecasting & Analysis group. Her current work includes researching ways to improve the accuracy of BPA's load forecasting system. During her 5 years with BPA, she has worked in multiple capacities, including policy analyst and civil engineer. Prior to coming to BPA, she worked for 15 years in engineering and technical roles, with a particular focus on model development and use. She has experience with deterministic, statistical, and probabilistic models. Cheryl holds master's degrees in both engineering and mathematics. She is a licensed Professional Engineer in Oregon, Washington and Virginia.

