



**PSC**  
Power Systems  
Consultants



# PSC NEWS

NEWS AND VIEWS FROM THE TEAM AT POWER SYSTEMS CONSULTANTS

AUGUST 2009

## CONTENTS

**Page 1**  
PSC assists PWC with Power System Operator Training

**Page 2**  
PSC IT Professional Services

**Page 2**  
Certified to Latest Standard

**Page 3**  
Tony Weller celebrates 10 years of excellent service with PSC

**Page 3**  
Transpower 3rd Party Data Infrastructure Project

**Page 3**  
PSC Assists Pacific Gas & Electric with a Historian Assessment and Data Reporting Development

**Page 4**  
PSC Welcomes New Staff

**Page 4**  
Kees celebrates 10 Years with PSC

Power Systems Consultants  
New Zealand Ltd  
PO Box 57095, Mana, Wellington,  
New Zealand  
Phone: +64-4-232 7680  
Fax: +64-4-232 7682  
www.psc.co.nz • info@psc.co.nz

Power Systems Consultants  
Australia Pty Ltd.  
PO Box 273, Flinders Lane PO,  
Melbourne, VIC 8009, Australia  
ABN 35-089-074-019  
Phone: +61-3-8616 0460  
Fax: +61-3-9654 6833  
www.psc.au.com • info@psc.au.com

Power Systems Consultants Inc.  
PO Box 878, Kirkland  
WA 98083, United States of America  
Phone: +1-425-822 8489  
Fax: +1-425-822 3520  
www.psc.us.com • info@psc.us.com

Power Systems Consultants Asia Pte. Ltd  
100 Tras Street,  
# 09-03 The Amara Corporate Tower,  
Singapore 079027  
Phone: +65-9030 3311  
Fax: +65-6728 2192  
www.pscasia.com.sg • info@pscasia.com.sg

## PSC assists PWC with Power System Operator Training

PSC have recently been providing assistance to Power and Water Corporation (PWC) in Darwin NT Australia with Power System Operator Training for their AREVA 2.3 EMS SCADA system. PWC is unique in the Australian Power industry as they operate generation, transmission, retail distribution and also act as system operator. They also have the challenge of climatic changes of the wet season and a very diverse network covering a large area.



PSC's Frank O'Donoghue presents Power System Operator training at PWC in Darwin

PSC Control & Market Systems Group team members Warren Young and Frank O'Donoghue have been providing PWC with Power System Operator training using the new system with assistance from Ken Sommers of STI in the USA. PSC System Administrators Jack Homeyer, Adam Marshall and Pravesh Jeebodhun have also been working with PWC to prepare the system for operational cutover acceptance.

Warren Young is the Manager for the Control and Market Systems business unit in Australia. Warren started his career as a power systems technician with the Electricity Corporation of New Zealand and joined PSC in 2000 as a SCADA support engineer at Transpower's control centre in Hamilton New Zealand before moving to Sydney to provide SCADA support services to NEMMCO. Warren has extensive experience in the support of AREVA SCADA/EMS systems, control & data centre infrastructure and ICCP connections.

Frank O'Donoghue is a SCADA Support Engineer who has extensive experience and expertise working with Power System SCADA Energy Management Systems (EMS). Most recently Frank has been commissioning Wind Farm telemetry in South Australia. Frank could not resist the opportunity to come to the Top End of Australia to work with PSC assisting Power and Water Corporation on Australia's latest EMS Platform installation.



# PSC IT Professional Services

The PSC Telecommunications & IT Professional Services group headed up by Ross Jones now also includes IP Network and Cyber Security skills alongside PSC's high availability, real time critical infrastructure and control systems expertise.

Leading the team is Gert Smit, who joined PSC in the role of Senior Consultant. Gert has extensive consulting, people management and business development skills, most recently as manager of the technical consulting practise of IT services company Datacom in Wellington, New Zealand. Earlier in the year he attended Control Systems Cyber Security Advanced Training facilitated by the U.S. Department of Homeland Security, Cyber Security Division at the Idaho National Laboratory.

Also joining the PSC team in the role of Network and Security Consultant is Danie Smit. Danie has over twenty

years experience working on a wide range of technologies including Carrier Class SDH and DWDM transmission networks, WAN, LAN, Internet and security technologies in South Africa, Europe and New Zealand. Danie holds several industry certifications including CheckPoint (CCSA), RSA SecureID (RCSE), F5 Networks (PC LTM), Trend Micro (TCSE) and Institute for Security and Open Methodologies (ISECOM) Professional Security Tester. He is currently studying towards CISSP certification.

The third member of the team is Adelaide based Victor Tan who joined PSC from KAZ/Telstra in the role of Network and Security Consultant. Victor holds a Bachelor of Engineering degree and Cisco CCNP, CCIE (Security) and CISSP certification. Victor has eight years design, implementation and support experience of IP networks and related technologies.



PSC IT Professional Services Staff Gert Smit, Danie Smit, Warwick Glendenning (CEO), Victor Tan and Ross Jones

## Certified to Latest Standard

Power Systems Consultants certification upgraded to latest version of quality management standard - ISO 9001:2008

Power Systems Consultants quality management system is certified to the world's most widely recognised quality system standard, ISO 9001.

PSC was originally certified to the year 2000 version of the international standard back in 2002. The International Standards Organisation released an updated version of the ISO 9001 standard in 2008. This update incorporated improvements that had been identified through use of the standard across a large number of organisations and reflects current thinking as to best practice in quality management systems. PSC has been incorporating this update into its management system.

Recent revalidation audits completed in Australia and New Zealand identified no conditions requiring correction, and PSC is now certified to the latest version of the ISO 9001 standard in both countries indicating PSC's quality management system compares well to recognised world best practice standards.



**ISO 9001**



## Tony Weller celebrates 10 years of excellent service with PSC



PSC Group Chairman & Director Tony Armstrong presents 10 year certificate to Tony Weller

Tony Weller is a Senior SCADA Engineer and completed 10 years of excellent service with PSC in July 2009. Since joining PSC, Tony has been providing SCADA/EMS (Energy Management Systems) services to Transpower New Zealand as team leader for the PSC team based at Transpower's National Coordination

Centre in Hamilton. This work includes system modelling, systems maintenance and fault response. Tony was also part of the team that successfully tested and commissioned the new AREVA EMP2.3 system into operational service in 2008. Tony has shown dedication to his project and support activities and the PSC management team would like to thank him for his commitment and exemplary service over the past 10 years. PSC also congratulates John Grace, Kate Horton and Chris Collie-Holmes who have all recently completed 5 years of excellent service with the company.



John Grace, Kate Horton and Chris Collie-Holmes celebrate 5 years service with PSC

## Transpower 3rd Party Data Infrastructure Project

PSC is pleased to assist Transpower New Zealand Limited with the successful completion of phase 1 of their 3rd Party Data Infrastructure project. Generators, lines companies and directly-connected customers (referred to as Third Parties) require real-time data on the status of the high voltage power grid to manage their networks and plant, and/or to comply with the Electricity Governance Rules.

Utilizing world class software from AREVA T&D of Redmond Washington USA and a small team of skilled and dedicated people, this project was recently completed. The team was lead by Ronnie Moon, Transpower MS&T Project Leader, and was staffed by Esther Li, Transpower RTS Operational Analyst and Jack Homeyer, PSC SCADA Engineer and software

designer. Additional staff from Transpower and PSC were called in as needed for their expertise.

"A very good outcome, we appreciate the support on the project. Thanks to your team and Jack in particular" said Derrick Westenra, Transpower Market Systems & Transmission Applications Manager to Warwick Glendenning, CEO of PSC. Jack Homeyer was on loan to PSC New Zealand from PSC USA for this project. Jack is a Registered Professional Engineer and Certified Information Systems Security Professional. He has over 24 years experience in the utilities industry with over 10 years working with SCADA/EMS systems. This includes AREVA T&D technology, ICCP applications and the development and management of data analysis tools such as OSISoft PI.

## PSC Assists Pacific Gas & Electric with a Historian Assessment and Data Reporting Development

Pacific Gas & Electric in San Francisco engaged PSC to perform an audit on its historian systems and make recommendations on how PG&E can make better use of its historical data through the development of automated reports and the use of alternative technologies. PSC also developed standard reports for operational staff so that they can more easily get data from their existing systems. This was a team effort with contributions from PSC's Andrew North based in Australia, Feiyu Lu based in San Francisco and Alex Boyd based in Seattle.

Andrew North performed an onsite survey of PG&E's existing historical systems and delivered a comprehensive report detailing the current state of the existing systems and

detailing options for improving historical data management. Andrew was able to use his significant historical systems expertise in developing the report. From the report Andrew and Alex Boyd were able to identify the benefits of various recommendations.

Feiyu Lu was responsible for the engineering component of the project. He worked with the PG&E operational staff to identify the data requirements. From those requirements he developed and implemented a number of key reports. Once the operations staff had an opportunity to use the reports Feiyu developed, they identified additional report development that would be useful to them. It just goes to show the power of information!

# PSC Welcomes New Staff

## Gabriel Lim

Gabriel Lim has joined PSC as a Power Systems Engineer and specialises in the areas of electromagnetic transients (EMT) analysis and insulation co-ordination. After completing a BE in Electrical and Computer Engineering from the University of Auckland in 2005, Gabriel worked for AECOM New Zealand. He is also experienced in system studies including load flow, short circuit and contingency analysis. Gabriel will be based in the PSC Engineering Group providing system study services within New Zealand and Australia.



## Kevin Box

Kevin Box has joined PSC Australia as the Australian Telecommunications Manager. Kevin has extensive experience in the investigation, specification, design, factory testing, and commissioning of power system telecommunications, protection, SCADA and control systems for high voltage transmission networks and power generation stations. Kevin will be based at the PSC office in Adelaide supporting our clients in Australia.



## Mahsa Ahmadi

Mahsa Ahmadi has recently joined PSC Australia as a SCADA/EMS Project Engineer. Mahsa has more than 6 years experience in the delivery of SCADA projects especially for high voltage electricity networks. After completing a BSc in Electrical Engineering in Iran at IUST University, she worked as a SCADA/EMS Consultant, Project Engineer and Project Manager for MATN Consulting Engineers. Mahsa is based in the PSC Australia Controls & Market Systems Group and is currently assisting Powerlink Queensland with their EMS upgrade project.



## James Miele

James Miele has joined PSC New Zealand as a SCADA and Substation Control Systems Engineer. James specialises in the project management, design, development and commissioning of electricity network automation and control systems. This includes detailed knowledge of the IEC 61850 protocol. James will be based in the New Zealand Controls & Market Systems Group and will be working at the PSC office in Auckland.



## Kees celebrates 10 Years with PSC

Congratulations to Kees who recently completed 10 years of excellent service with Power Systems Consultants. Kees has been working nights and weekends over the past 10 years keeping the offices for PSC Tawa clean and tidy. He has done a great job and the staff at PSC Tawa thanks Kees for all his hard work. A lunch was held to celebrate this milestone with Kees and his wife Deirdre.



PSC Group Chairman & Director Tony Armstrong with Kees and Deirdre

