

THE METERING CONNECTION

NEWSLETTER

Radian Introduces New Field Meter Test Solution

Radian Research, Inc. is proud to announce the RB-10 Bantam Lite, the first in a new generation of portable field meter test solutions.

The Bantam line of portable test solutions are designed for accurate, fast yet simple to use closed link testing of all single and polyphase energy meters. The Bantam Lite combines reliability and advanced test capabilities in a light weight meter test solution. Equipped with Radian's RD-20 or RD-21 solid-state reference standard Bantam Lite provides the necessary accuracy and traceability required to meet the increasing test demands of today's electricity metering.

The Bantam's handheld controller automates testing allowing quick accurate test and data storage eliminating operator error and return visits. Bantam's ability to fully test meters on-site reduces meter expense in maintained inventory by allowing the meter to remain in service and not returned to the shop for testing.

Designed with real world information based on customer evaluation the Bantam is truly built with utilities in mind. Customer design requests are as follows:

- Light Weight Less Than 30 lbs.
- Safety and Ease of Use
- Single and Polyphase Meter Support
- Closed Link Meter Test Compatibility
- Wide Voltage Range -69 to 480
- Look and feel of New Technology
- Independent Testing – With or Without PC

If you are interested in the benefits that the Bantam Lite offers, visit www.radianresearch.com/bantam for details.



Major Utilities Take Delivery of Radian's New RB-10 Bantam Lite to Improve Field Test Efficiency

In April 2011, The Bantam Lite, Radian's new field test solution, was delivered to a few major utilities as part of their implementing a more efficient method of field testing residential and commercial meters. The Bantam Lite's very light weight and fast meter connections allowed by the closed-link test capability is beneficial to field test efficiency.

Many utilities are in the process of re-writing their field test procedures as part of new meter rollouts. The new meter rollouts are driving the need for more field testing of meters. Radian is proud to be playing further improving meter testing procedures.



Radian Employee Owners Attend the Second Annual Shareholder Celebration

On May 19th the Lafayette Country Club was transformed into a Radian themed meeting hall for the second annual shareholder celebration. Gathering to receive their account statements were the employee owners of Radian Research. The yearly event has quickly become more than just distribution of the account statements. Enjoying good food and conversing with fellow employees has also become a tradition at the event.

The employee owner event was coordinated by the members of Radian's ESOP (Employee Stock Ownership Plan) Ambassadors. The event featured a variety of presentations and informative sessions given by various members of the Radian team.

Radian President and CEO Tim Everidge was the keynote speaker who shared information on the past, present and future of the company. Tim also provided information about our iconic Jackalope that has stayed with the company as a symbol of our founder Glenn Mayfield's relentless pursuit for humor.

The event served as reinforcement that the Radian employees are strong and proud as was demonstrated by the look of satisfaction and accomplishment that appeared on owners faces as they opened their account statements.

This year there was a solid reason to celebrate. Radian's 2010 performance was truly outstanding. The year was filled with achievements, financial growth and employee enrichment, which resulted in positioning Radian for success in 2011.

The meeting was brought to a close with a toast by ESOP Ambassador Valerie Guenther that captured the essence of the Radian Team. "May we work together, Play together, Stay together, Succeed together"



For more information scan the QR code or visit
<http://www.radianresearch.com/mc>

Radian Releases New Website

The new web site design is formatted by product or application with minimum clicks to find the relevant information. A more convenient tabbed layout provides access to features, accessories and related media. In addition information required to enhance the user experience, including where to buy, applications and video links are just a click away.



Need technical support, repair service or just want to tell us how we're doing? We recommend using web submission forms from the many available on the Radian web site. Web forms include; customer feedback, information request, opt-in and Service Return Material Authorization (RMA) forms.

Check out the media page associated with each product. There you will find a wealth of information, including Product literature, Operations Manuals, Return on Investment calculators, How to Videos and white papers.

We highly recommend that you visit www.radian-research.com and add this URL to your browser favorites. We sincerely thank you for your feedback and take every suggestion very seriously. Please feel free to contact us through these web pages, phone or by email.

Radian appoints new Vice President – Research, Development and Engineering



Richard F. Musmann

Radian Research, Inc. is pleased to announce that Richard F. Musmann has joined Radian in the position of Vice President of Research, Development and Engineering. Richard brings 30 years of innovative technology experience, representing \$100M+ in new product commercialization, through previously held professional positions including Group Director, Vice President Global Research & Development and Chief Technology Officer. At Radian Research, Richard leads Technology Research, New Product Development and Engineering to provide cutting edge technology to Radian's worldwide markets.

Radian to Present a Tutorial at NCSL Workshop & Symposium

On Sunday August 21 Radian will present "Power & Energy Measurement: Bridge the Gap Between Theory and Practice" a tutorial which will explore alternative methods used throughout the Electricity Energy industry to provide watt-hour traceability.

The tutorial will review the traceability chain starting with the revenue meter in common use through to the NIST (National Institute of Standards). During the tutorial varied results obtained from commonly used electricity meters that incorporate different measurement VAR-hr algorithms as well as error associated with measurement using loads that obtain high harmonic content.

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The information presented will be beneficial to anyone working at the highest level of standard to personnel working in the Electricity Utility industry.

To register for the NCSL Workshop & Symposium visit ncsl.org/conference or call 303-440-3339. The Workshop & Symposium information is as follows:

NCSL International Workshop & Symposium
Gaylord National Convention Center
National Harbor, MD
August 21 - 25, 2011

Radian Research Attends Industry Events

Radian Research, Inc. travels worldwide attending numerous events in an effort to provide information and support to the energy measurement industry. The following is a list of events Radian will attend in the near future. Radian encourages you to attend these informative events and take the opportunity to meet with us as well as other Radian customers.

North Carolina Meter School

June 26-30
www.mckimmon.ncsli.edu Sunset Beach, NC

Great Lakes Meter School

Aug 15-18
www.boatown.com/GLEMS Grand Rapids, MI

NCSLI

Aug 21-25
www.ncsli.org National Harbor, MD

Northwest Electric Meter School

Aug 29 - Sept 7
www.westerenergy.org Seattle, WA

Radian Presents at the Spring EEI Conference

The 2011 Spring Conference for Transmission, Distribution & Metering was held in Louisville, KY on

April 3-6. On Tuesday the 5th Steve Weinzierl of Radian presented. The subject was the results of the ANSI work group on VAR Hour/VA Accuracy in the Presence of Harmonics.

Utility customers are rapidly increasing their VARs usage through the use of energy conservation devices. When harmonics are present, the VAR value measured using different meters can vary by 30x or more. In some cases, the meter can indicate power is being delivered, while other meters indicate received power.

The presentation is available at www.radianresearch.com/media-library.

Split Core Clamp-on Calibration

Radian's Service Lab is often asked if it is necessary to return a CT purchased with the Radian Standard for routine annual calibration. The answer is most certainly yes. While users might consider a commercially available split core CT clamp-on accuracy to be 2% - 5%, the Radian supplied versions are modified to make use of memory that retain correction tables to linearize the CT performance for both amplitude and phase. The result being a 0.05% accuracy specification across a specified operating range. Errors associated with other factors including jaw pressure, jaw surface wear and stray fields can now become significant. The mechanics of clamp design will deteriorate over time and recalibration necessary to ensure performance meets specification.

Radian has the ability using the Radian RS-933 200 Amp Precision Source and a specially designed coil to calibrate Clamp-on or Rogowski CTs to 800 Amps. For price details on clamp calibration contact the Radian Service department.

The Metering Connection Newsletter is published by Radian Research, Inc. Any comments or suggestions are welcome. Please address all information to Radian Research, Inc. Attn: Bob McIntyre 3852 Fortune Drive Lafayette, Indiana 47905 or email to bob@radianresearch.com