

ERLPhase Power Technologies: April 2012 Update

Welcome to our latest e-newsletter...

OEM in Peru Using TESLA Recorder at Generation Application

ERLPhase Latin America has been working with several OEMs to integrate recorders into some of their upcoming projects. In addition to successes at ALSTOM-Brazil and GE-Brazil, ABB-Peru has now incorporated the TESLA recorder into a generation application at the Machupicchu Hydroelectric Power Plant in the mountainous southern region of the country. Construction at this site is part of a phased project that will create sustainable generation, in an area where a gorge slide in 1998 buried much of a hydroelectric plant. Given the tremendous natural cultural and archaeological heritage in this area, overall development plans have been made with a high value on environmental responsibility and social impact.

ABB-Peru will also install a TESLA at REP-ISA, the main transmission company in Peru. ABB has expressed that so far they are very happy with the high quality of these products, and prompt technical support backed up by a good warranty policy. They also showed us their panel shop, where several projects are underway, including a 500kV transmission line application, where ERLPhase recorders would be a good fit.

Mr. Michael Terrones, Project Manager of Power Systems at ABB-Peru, expressed satisfaction with the performance of ERLPhase recorders, find them easy to configure and values the important information provided by the equipment to help operators monitor several dynamics of this power system.

Thanks very much to Hugo Davila, P.E. (ERLPhase Sales and Technical Support for Latin America) for ongoing excellent support of this customer.



TESLA 3000 recorder installed in front panel.



Back side of panel, showing PT/CT modules.

TESLA Power System Recorders

Our TESLA 4000 recorders have now been in production and shipping to customers for over two years. This new hardware platform has proved to be reliable and has been embraced by many existing and new users for its new features and increased processing resources. As a result of the increased volume and success, our recorder inventory and production emphasis has shifted to this newer TESLA recorder.



Over the next few months, ERLPhase will be transitioning production away from the existing TESLA 3000 with the primary emphasis being support of existing installed base and accommodation of our market leading 10 year warranty. Easy customer transition to the TESLA 4000 is designed into this newer product, with full fit, form, and functionality of previous models. The TESLA 4000 is the same size, has identical terminations, and utilizes the same input modules as the TESLA 2000 and 3000 recorders. Also, the latest release of TESLA Control Panel Software is backward compatible with all previous TESLA recorders.

We truly appreciate your continued business and look forward to supporting your seamless transition to the newer recorder products.

➤ [Read More - Download PDF](#)

Info Session at IEEE TD Conference

Available Tools to Uncover Sub-Harmonics on Your Power System

*Mark Peterson, Senior Sales Application Engineer
Wednesday, May 9, 2012 from 2:30pm – 3:30pm in Room 208A*

As new and exciting sources of generation are brought online, the interconnected power system becomes ever more complex. Utilities are taking up the challenge, not only to monitor and protect against possible harmful frequencies, but to record and report that information as well, especially during system disturbances.



A deep knowledge of system interconnections is necessary to protect against possible transients that can result. A detailed view of system frequencies is extremely helpful to identify underlying patterns and predict potential for misoperation of the system, especially at points of interconnection with the grid. It is also important to capture records that prove adherence to standards, and identify the sources of abnormalities after the fact.

➤ [Learn more about this seminar](#)

➤ If you have questions in advance, feel free to email us at cbrydon@erlphase.com

Also visit us at booth #2545!

New Videos

We're pleased to have added several new titles to our growing collection of application-focused videos. Joe Perez, Application Engineer at ERLPhase covers such topics as:

- Understanding Sub-Harmonics
- Using Record-Graph to Measure 2nd Harmonic Content during

- Transformer Energization
- Creating Templates with Record-Graph
- A Guide to Fault Recording Analysis
- Connecting to a TESLA 3000 Using a Serial Cable



See our full library of videos at <http://www.erlphase.com/support.php?ID=videos>, which are available via request for password.



Let us know info@erlphase.com what you think of these videos, and your ideas for upcoming topics we should address.

New App Note



TESLA 4000 Communications Configuration
➤ [Download PDF](#)

Upcoming Events

Looking forward to seeing you at an event in your area...

DPSP 2012

Apr 23-26, 2012
Birmingham, UK

- Hear Mark Peterson, Applications Engineer at ERLPhase, present: *"Application of a Sub-Harmonic Protection Relay"*

➤ [Learn more about DPSP 2012](#)



Georgia Tech

Apr 23-27, 2012
Atlanta, GA

Visit us in Conference C-D Hallway, booth #H4.

- Wed Apr 25 from 4:20-4:55 in Salon 4-5-6, hear Joe Perez (ERLPhase Application Engineer) and Cesar Rinson (ENTERGY) present *"Calculating Loadability Limits of Distance Relays"*.

[Link to full program](#)

➤ [Learn more about Fault & Disturbance Analysis Conference](#)

➤ [Learn more about Protective Relaying Conference](#)

IEEE T&D Conference

May 7-10, 2012
Orlando, FL

- **Info Session "Available Tools to Uncover Sub-Harmonics on Your Power System"**

is presented by *Mark Peterson, Senior Sales Application Engineer*
Wednesday, May 9, 2012 from 2:30pm-3:30pm in Room 208A
[Learn More about Info Session](#)

Visit us at booth #2545!

➤ [Learn more about IEEE T&D Conference](#)

NASPI Work Group Meeting

Jun 5-6, 2012

Denver, CO

➤ [Learn more about NASPI](#)

ERLPhase Power Technologies Ltd

- North American centre of excellence within a strong and dynamic global organization
- Driven by innovation and best-in-class technology to provide smart solutions to customers needs
- Singular focus on power system protection and recording



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