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Christmas Closure

*4pm Thursday 21st
December 2006,*

and we will re-open at

*8am Monday 15th
January 2007.*

A staff roster will be operating to ensure our customer service commitment is fully maintained during this period.

We wish you and your staff a Merry Christmas and a safe and prosperous New Year.

ORION ENERGY CHOOSES NORTROLL LINETROLL 3500 FAULT INDICATORS

Orion Energy, New Zealand are introducing active resonant neutral earthing techniques into their high voltage distribution system. This technology has the promise of delivering a step change type improvement in reliability performance. Resonant earthing can clear many overhead line faults without requiring either a permanent or momentary interruption to customer's supplies.

Location of faults is a key requirement to further enhance to reliability improvement possible with resonant or high impedance

earthing. Orion are using the LineTroll 3500 for this purpose.

LineTroll 3500 (LT3500) is a powerful pole mounted overhead line fault passage indicator suitable for all types of high voltage distribution and subtransmission networks.

The LT3500 has the most advanced fault detection capability for overhead lines incorporating directional features and the capability to work with resonant and impedance earthed systems.



LINETROLL 3500 FAULT INDICATOR, FROM NORTROLL ALSO COMES WITH GSM COMMUNICATIONS MODULE

SUBSTATION EARTH GRIDS AND IEEE-837.....PLEASE EXPLAIN.

Substation Earth Grids are a vital part of the protection infrastructure of Electricity Transmission and Distribution Authorities – a dependable earth grid not only saves equipment from damaging transient conditions, but also protects personnel from dangerous step and touch potential voltages when working inside the boundary of a zone substation.

The most common practice in constructing earth grids has been to lay Annealed Copper Conductor, or Copper Strip, into a Grid pattern across the footprint of the substation, buried approximately 300mm below ground level. In constructing these grids, mechanical connectors have been around for a long time---but, there can be contact imperfections inside these fittings and they tend to have a small connector mass--- both attributes that can contribute to failure. Until now, the most widely-accepted earth-grid connections have been made by brazing, or exothermic welding of the copper conductors.

The Groundlok System is the latest addition to the DMC Power Products range of “radial” swage connections. Groundlok provides a unique 360 degree radial swage--compressing the connector onto the conductor 360 deg without any voids, giving a superior integral connection with the conductor and / or earth rod.

Because Groundlok is new, it has had to pass the most stringent series of tests in order to gain acceptance. That’s where IEEE-837 comes in. IEEE-837 is a Standard developed by the Institute of Electrical and Electronic Engineers for testing earthing connectors. It is a series of tests carried out to prove the reliability of the “buried” connector, by simulating the most onerous in-service conditions that any connector is likely to experience over its installed lifetime. We will not bore you with all the details, but in brief it involves,

EMF tests.,
Mechanical Pull tests,
Two Aging tests which expose the connections to acid and salt spray,
Temperature Cycle tests 350deg C (25 times)
Freeze thaw tests (10 times),
...and high level fault-current tests,

We have the Independent test results to prove the Groundlok connection system meets and exceeds the IEEE-837 Standard. We’re happy to share these with our customers. If you’re not using Groundlok, ask yourself: have you seen independent IEEE837 test results from your



The Groundlok Radial Swaging Tooling is simple, predictable and consistent

When you use Groundlok for your Substation Earthing Grids, the weak link will be the conductor, not the connector.

You can Install It, Bury It and Forget It---with confidence.

FROM THE TECHNICAL SERVICES DIVISION

The recently formed ADAPT Technical Services Division (TSD) aims to provide the best possible in field support and technical advice for all products supplied by ADAPT. A continuous training regime for TSD members is just one way in which ADAPT is constantly working towards this ultimate goal.

Most recently ADAPT hosted the Lucy Switchgear Service Manager Jon King, at its Tullamarine headquarters, where Jon presided over a successful week of training for TSD staff on "in field troubleshooting" for Lucy switchgear. Mal Barton the recently appointed Customer Services Manager for the new Perth ADAPT office also made the trip to Melbourne for the training and was a valued participant.

This training exposed ADAPT TSD staff to both the mechanical and electrical aspects of a wide range of Lucy products. With the combination of continued expert advice from Lucy headquarters and the new skills held by TSD members, ADAPT is confident that it is well equipped to meet the technical demands of its Lucy customers and therefore provide them with the best support possible.

ADAPT TSD members have also been hard at work around Victoria and Perth performing routing calibration work on behalf of S&C Electric Company. The harmonious relationship between S&C and ADAPT meant the Technical Services

Division was S&Cs first choice to carry out the work on its Intellicap PLUS Automatic Capacitor Controls.

These devices are designed for the control of both pole and pad mounted switched capacitor banks in distribution systems and integrate factory-mounted modems or radios for connection to a SCADA network.



ADAPT and S&C continue to cooperate on projects throughout Australia with the upcoming commissioning of S&C Adaptive Var Compensators (AVC) for Patrick Corporation in Sydney to be preformed by the TSD. This follows the successful commissioning of an AVC for Patrick in Melbourne in September this year.



Left to Right; Daniel Cetrola performing a pre-delivery inspection on a Lucy Sabre unit, ADAPT Field Service Vehicle, AVC at Patricks container dock in Melbourne.



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HOT/SHOT MEETINGS AND VISITS IN USA AND AUSTRALIA

Red Bluffs in Northern California USA was the venue for both Bob Coulter and Peter Sandars to meet with the Board and Management Team of Hot/Shot Radar Inspections LLC from 19th – 22nd November, 2006.

Field trials were also undertaken proving the Synthetic Aperture Radar SAR Radar technology along with the versatility and flexibility of the complete wood pole and crossarm inspection system.

ADAPT's Engineering Manager, Bob Coulter said "I'm totally impressed with this innovative wood pole inspection technology. The fact that it can ascertain pole conditions over its entire length as well as upto 900mm below ground gives immediate benefits over having to drill holes and dig around poles as is current practice. Being able to ascertain the condition of wooden crossarms to help eliminate Pole Fires is a real bonus"

ADAPT was also invited to attend a full product presentation of utilizing the present Hot/Shot SAR radar technology of the ground mounted platform, incorporating a new Robotic

Arm instead of the current mechanical hydraulic system. The new robotic arm will reduce imaging time to less than a minute for each wood pole / crossarm inspection.

As a consequence of the USA visit by ADAPT, Hot/Shot's Founder and CEO, Gil Miceli travelled to Australia a week later. During Gil's visit, several meetings were held with a number of Utility Companies in Victoria, NSW and Queensland.

In conjunction with our Field Services Provider, Utility Asset Management (UAM), ADAPT has undertaken to facilitate bringing Hot/Shot's entire ground mounted platform to Australia for a month long series of proving trials with selected Utilities over late February, early March next year.

We'll be happy to accommodate Engineers and Asset Managers from other interested Utilities at selected sites to view the latest in Pole Inspection using Hot/Shot Radar Technology. Please email your interest to attend to ADAPT's Managing Director, Peter Sandars at psandars@adaptaust.com.au



Seated (L-R) -
Jeff Clyde (CFO), Monica Miceli (Director/Partner),
Ben Sale (Board Member)
Standing (L-R) -
Bob Coulter (ADAPT), Peter Sandars (ADAPT),
Gil Miceli (CEO), Paul Gunsauls (Director).

WANTED - DEAD NOT ALIVE AGING XLPE CABLES

HV cable rejuvenation technology has been available for some time now and is now well used as a cost-effective tool to assist with aged XLPE cable asset management.

Novinium introduced the next generation XLPE cable rejuvenation technology several years ago and this overcomes the deficiencies of the first generation techniques.

Novinium has been actively restoring aged XLPE cables throughout the USA over the

past year or so now on a fully commercial basis.

ADAPT has access to Novinium cable rejuvenation technology for the Australian and New Zealand marketplace and suggests Novinium rejuvenation technology as a cost effective alternative to replacement.

If you would like to discuss the application of Novinium to your aged XLPE cables please contact;

Steve Offord, Peter Sandars, Anthony Jones or Howard Neilson at ADAPT.

Safer, Faster, Better,

With every new idea,
The time comes when the
Technology is perfected.

In cable rejuvenation, perfection has arrived.
It's called Ultrinium, from the people who brought you cable rejuvenation.
Novinium is good science, proven science.
It works. Novinium cable life extension will give you peace of mind for the rest of your career, and then some.

Call, we'll share the whole Novinium story.

novinium
cable life extension