

Utility Relay News

Summer, 2005



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ZERO-Hertz gaining acceptance in the nuclear power industry.



After years of testing and investing hundreds of additional R&D hours, the ZERO-Hertz is gaining acceptance in the nuclear power generation industry.

Starting over two years ago URC embarked on a testing program for OPG (Ontario Power Generation) to qualify our ZERO-Hertz DC trip unit (with the shunt-input option) to replace several obsolete FPE electro-mechanical DC relays in OPG's Pickering Nuclear Power Station. This project culminated earlier this year with an order for over 20 ZERO-Hertz trip units.

The qualification

process required extensive independent verification of the trip unit's immunity to RFI, EMI, transients and surges. This testing was performed by Retlif Labs in New York.

In addition, OPG

required a week-long on-site survey of URC's documentation and firmware revision control procedures. OPG also enlisted a third party dedicicator in Canada to implement the project and perform all final testing.

As a result of this project with OPG, the ZERO-Hertz was recently specified by Ontario Hydro's Bruce Nuclear Power Station for an upcoming DC breaker retrofit project.

A copy of the Retlif Labs test report can be viewed on our website:

[http://www.utilityrelay.com/Retlif Test Report.pdf](http://www.utilityrelay.com/Retlif%20Test%20Report.pdf)



URC

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Direct Replacement AC-PRO-VST trip unit available for older *GE PowerBreaks*



The AC-PRO-VST is the latest in URC's line-up of Direct Replacement Trip Units. The AC-PRO-VST is designed to replace the original *GE VersaTrip* (with the yellow faceplate) trip units in *GE PowerBreaks* whose catalog numbers begin with: TPSS... or THSS...

The new trip unit is supplied with all of the necessary mounting brackets and hardware

and fits precisely where the original *VersaTrip* was located.

The trip unit plugs directly into the breaker's existing wiring harness and operates with the OEM CTs and actuator. Kits are available for every breaker frame size.

Sorry... No Direct Replacements for the *MicroVersa Trip* or *RMS-9s*... yet.

For more information, download a brochure from our website:
<http://www.utilityrelay.com/AC-PRO-VST.pdf>

URC Moves... *Again!*

Well we did it again! Exactly three years after moving into our "new" facility in Chagrin Falls (July, 2001), Utility Relay Company moved again. This time it was just 5 miles down the road. Our new address is: 10100 Queens Way, Chagrin Falls, OH 44023. Fortunately our phone numbers all remained the same.

Just like three years ago, we moved into a facility that is twice the size of our previous location. The new building is 15,000 square feet and includes additional acreage, which will accommodate a sizeable addition as future space requirements become necessary.

The entire facility is climate controlled and manufacturing and warehousing areas have been completely remodeled to provide a

well-lit and clean work environment for our employees.

Assembly and testing areas are equipped with electrically dissipative surfaces that reduce the possibility of damage to sensitive electronic components and assemblies during the manufacturing process due to electrostatic discharge (ESD).

The shipping area has also been

greatly expanded. URC has made a significant investment in inventory and its facility to meet customer demand. Most of our AC-PRO and ZERO-Hertz circuit breaker retrofit kits can now ship from stock.

URC would like to thank its employees, all of whom assisted with the move. With all of their dedication and effort URC never missed a day of shipping.



AC-PRO Secondary Injection Test Set

Demand has been brisk for URC's new AC-PRO Secondary Injection Test Set. Introduced early last year, the test set is light-weight, easy to use, and capable of testing all versions of the AC-PRO, including the 60, 50, 40, 25 cycle versions

The wiring harness plugs directly into the CT inputs on the trip unit and provides true secondary current for testing, ensuring that the entire trip unit is tested. Many other micro-controller based test sets available today simply plug in directly to the trip unit's micro-controller and "simulate" different current values, *but they don't really test all of the analog circuitry in the trip unit.*

The feedback that we've gotten from the field is that our



AC-PRO secondary injection test set is the easiest test set to use of anything on the market.

Test sets are in stock and available for immediate delivery.

For a detailed Instruction Manual on the test set, visit our website:

<http://www.utilityrelay.com/AC-PRO-VST.pdf>

URC Honored as a Weatherhead-100 Company



OUTSTANDING GROWTH COMPANY

For the fourth consecutive year, Utility Relay Company has been selected as a Weatherhead-

100 Company for Northeastern Ohio.

Annually, the Weatherhead School of Management at Case Western Reserve University recognizes the fastest growing companies in Northeastern Ohio and includes them in the prestigious Weatherhead-100 listing. This past year, URC was #56.

The Weatherhead-100 was started in 1987 to emphasize the

Weatherhead School of Management's growing emphasis on entrepreneurial education and the impact that start-up companies have on local and the national economies.

Companies included in the Weatherhead-100 were evaluated based on percentage sales growth over the previous 5-year period.

www.weatherhead.org

HI-SPEED Trip Unit is a popular upgrade for FBK-H Hi-Speed DC Circuit Breakers.

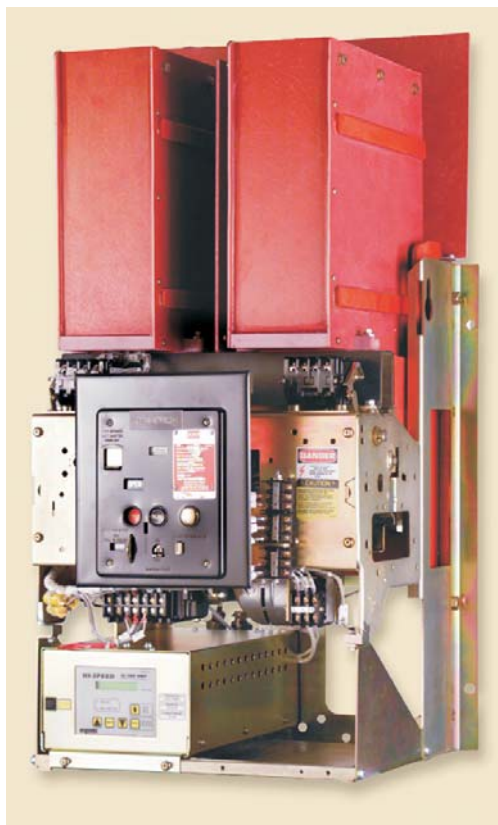
The *FBK-H* has been a venerable workhorse in the traction power industry for over 4 decades. Its high interrupting capacity and operational life have made it the specified breaker for many of the largest transit and light rail systems in North America and around the world. The *FBK-H* has also seen its share of duty in heavy industrial applications requiring large DC motor drives.

Through the years however, the *FBK-H* has seen its share of problems - most notably those related to the original *ABB Hi-Speed* trip unit supplied with the breaker. Problems ranging from nuisance tripping, leaking capacitor and overheating have all been encountered and have made the original *Hi-Speed* trip unit somewhat of a maintenance nightmare.

In 2003, URC changed all of that with the introduction of our own **HI-SPEED** DC Trip Unit.



URC's new HI-SPEED DC Trip



The new trip unit is a direct replacement for the existing *ABB* trip unit. The new **HI-SPEED** mounts in the same location as



Original *ABB* Hi-Speed trip unit

the original unit and connects directly to the breaker's existing wiring harness.

The **HI-SPEED**'s micro-controller based design allows it to run cooler than the original trip unit while still providing the same true hi-speed operation by firing the OEM impulse coil. And the new capacitor is a solid-dielectric type which cannot leak.

Settings are programmed using the **UP**, **DOWN** and **ENTER** buttons on the front of the trip unit. All settings are input directly in Amps and Seconds. Settings and Last Trip Data are stored in non-volatile memory.

Last Trip Data and trip unit settings can be reviewed at any time by pressing the **MENU** button.

Other features of the **HI-SPEED** include:

- Bi-directional current sensing
- Hi-speed fault protection
- Rate-of-Rise protection
- 16-character DC ammeter
- Last trip data
- Extended range of settings
- Momentary alarm relay
- Remote trip option
- Lockout relay option
- 2-pole application optional

For more information, download a brochure from our website:
[http://www.utilityrelay.com/Hi-SPEED Brochure.pdf](http://www.utilityrelay.com/Hi-SPEED%20Brochure.pdf)

or call Toll Free:
888-289-2864