



**Medium Voltage  
Vacuum Replacement  
Circuit Breaker  
Preventative Maintenance**

**EATON**  
Powering Business Worldwide™

**AREVA**  
forward-looking energy

# Medium Voltage Vacuum Replacement Circuit Breaker Preventative Maintenance

With a proactive approach, nuclear utilities, AREVA and Eaton are working together to provide a comprehensive preventative maintenance approach for the installed base of AREVA / Eaton medium voltage vacuum replacement circuit breakers. AREVA has seismically and environmentally qualified numerous Eaton medium voltage vacuum circuit breakers, with an installed base of over 800 vacuum circuit breakers in nuclear plants.

Through an industry partnership, AREVA has conducted an analysis of wear items of breakers currently used in the nuclear industry, and are providing solution kits with the mechanical and electrical parts needed to be replaced after 500 operations or ten years to ensure long-term operability.

Parts include: Right inner side sheet, closing springs, opening spring, main link roller assembly, trip latch, trip shaft, cam plates, rabbit ear, and main cam assembly and electrical parts, as necessary.

## **AREVA Inc.**

For more information, contact Dennis Gittins

Tel: 724 591 7014 or your VP, Key Accounts:

7207 IBM Drive, Charlotte, NC, 28262

Tel: 704 805 2410

regional.manager@areva.com • www.us.areva.com

## **Features / Benefits:**

- Preventative maintenance for long-term reliability.
- Joint industry and AREVA effort.
- AREVA has proprietary access to Eaton design and drawing information.
- Parts in the program are available for
  - 15kV DHP-VR breakers 1200A and 2000A styles
  - 5kV MV-VR breakers 1200A and 2000A styles
- AREVA can provide training on how to install the new parts or you can send your breaker to AREVA for installation.
- Optimized maintenance program based on actual nuclear power plant environments, usage, and lessons learned, which provides the maximum value.
- At customers' request, AREVA can provide a summary report with the conclusions of the evaluation performed on three vacuum circuit breakers, which were installed in various plants for approximately ten years.

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