Recloser Control Conversion/Modification of MTR Controls to PCD or DPU2000R Controls

Convert to the future

Automatic power reclosers Type ES, ESM and ESV, manufactured by Westinghouse and ABB since 1975, had either the MTR electronic control or electromechanical CO, RC or RCS relays. Although these reclosers and controls have had excellent performance records over the years, and the interrupting and mechanism compartments have changed very little, significant advancements have been made in recloser controls. The advent of microprocessor based controls now matches the demands required for today’s more sophisticated distribution systems. Existing reclosers can now be updated by converting existing controls to the ABB PCD or DPU2000R, at less than one third the cost of a new recloser.

Advantages of PCD and DPU2000R Controls

The PCD and DPU2000R offer unique protective, monitoring and programmable control features for expanding the protective limits normally provided by multiple single-function devices.

- Modular design (PCD)
- Easy to use HMI with 2-line or 4-line by 20 character display that shows metered values and programmable settings
- Zone sequence coordination
- Cold load pick-up detection
- Automatic reclose blocking
- Oscillographic data storage capability for power quality analysis

Advantages of Pre-Wired Conversion Cabinet

The modification to the new PCD or DPU2000R control is easy because the ABB conversion cabinet comes pre-wired. In most cases the old cabinet is replaced with the new PCD or DPU2000R cabinet and connected to the existing recloser. No BCTs or sensors need to be replaced.

Control Cabinet

The DPU2000R and PCD control cabinets consist of a completely wired, weatherproof cabinet with a hinged inner panel and the following pre-wired components:

- PCD Controller or DPU2000R Distribution Protection Unit
- Close/Trip pushbuttons
- Red/Green indicating LED’s
- Ground fault bypass switch
- Non-reclosing (one shot to lockout) switch
- Uninterruptible power supply (where 250, 125, 48, or 24 VDC is not available) and battery with 24 hour carryover
- Rear DIN Rail assembly consisting of the necessary terminal strips and heaters
- Connector to fit existing control cable
- GFI outlet
- Optional hot line tag switch

Other Modification/Upgrade Kits Available from ABB

Upgrade kits on the operating mechanism will make your recloser like new - see your ABB representative and ask for a History of Major Improvements to the ABB R-Breaker and Recloser operating systems.
Recloser Control PCD or DPU2000R Conversion

To obtain a detailed proposal on replacing your existing recloser control with the new PCD or DPU2000R control, fill out the form below and fax or e-mail direct to ABB Inc.

To: Field Service Manager, PTMV
655 Century Point
Lake Mary, FL 32746
407-732-2000
800-929-7947
fax: 407-732-2161
e-mail: joe.burkholder@us.abb.com

From: Name: ___________________________ Date: ________________________

Company: _____________________________________________________________

Phone: ___________________________ Fax: _____________________________
e-mail: ___________________________________________________________

Subject: Recloser type and control: _________________________________________

Shop order: ___________________________ Serial #: ___________________________

Please offer your proposal to: ____________________________________________

For ultimate customer ___________________________ for replacing the subject

Control cabinet with one new PCD / DPU2000R (choose one) control which consists of:

1) Standard bill of material as described in this FSB 38-729 to coordinate with the existing recloser

2) Standard bill of material, but with the following additional or alternate items:

__________________________________________________________________________

3) For specific SCADA/RTU system interface, please describe below:

__________________________________________________________________________

__________________________________________________________________________

4) Others: __________________________________________________________________