Interesting

From the Selected Works of Dr. ASADOLLAH KAZEMI

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Section 4: Reactive Power Control Course

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Reactive Power Control

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Available at: http://works.bepress.com/asadollah_kazemi/
Porter Static Var Compensator (SVC)

Maintains system voltage by continuously varying VAR output to meet system demands. Controls capacitor banks on the transmission system to match reactive power output to the load requirements.

Series Capacitor – Dayton Bulk 230kV Station

The Capacitor offsets reactance in the line, making it appear to the system to be half of its actual length. Power flows are redirected over this larger line, unloading parallel lines and increasing transfer capability.
Static compensator (STATCOM)

- Voltage source converter device
- Alternating voltage source behind a coupling reactance
- Can be operated at its full output current even at very low voltages
- Depending upon manufacturer's design, STATCOMs may have increased transient rating both in inductive as well as capacitive mode of operation