

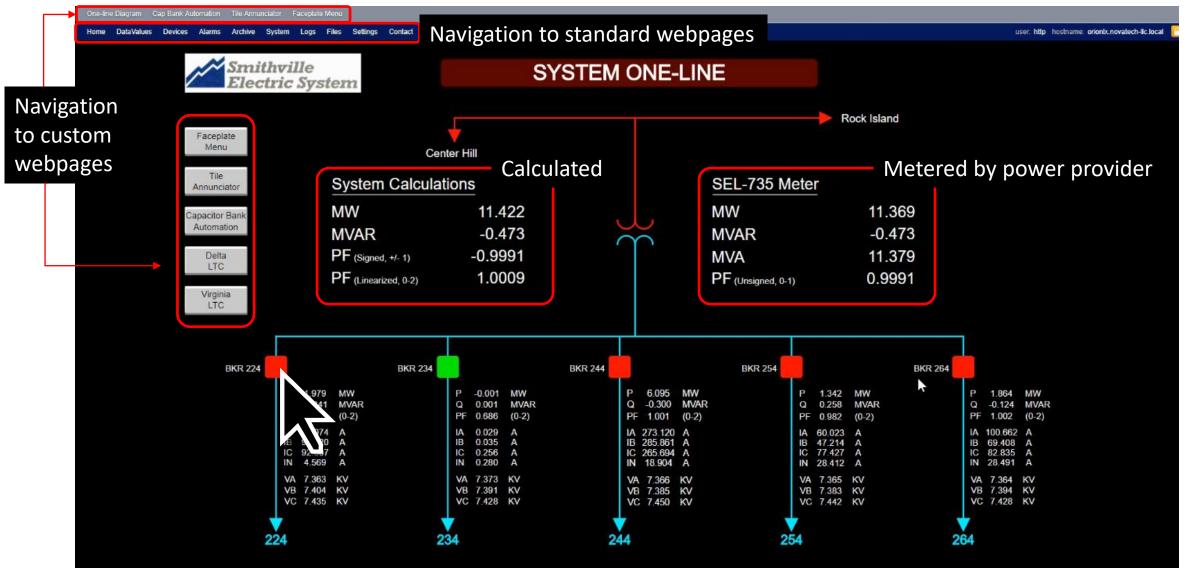
VAR Control at Smithville, TN

System Features

- Automatically switches capacitor banks IN and OUT to maintain power factor very close to unity
- Maintains ability to manually control all cap banks
- Sums power factor on each feeder and compares with metered value reported to power provider
- Provides web-based HMI for monitoring and control of breakers and IEDs in substation
- Includes features to reduce wear and maintenance:
 - Automation never switches the same bank twice in a row
 - User can set limits to prevent "hunting"
 - Algorithm also includes "settling delays" to reduce hunting
- Includes security features
 - Secure protocols: HTTPS, SSH, SFTP
 - Controls only permitted by authorized operator
 - "Syslog" records user access
- All monitoring, control, visualization and security provided by one box: the OrionLX Substation Automation Platform

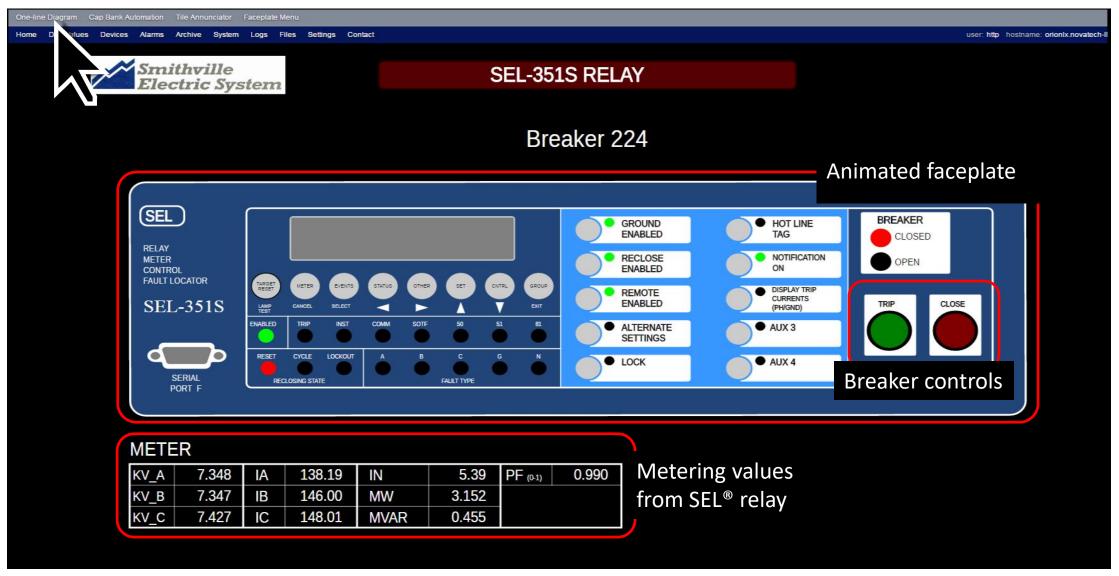


System One-Line Diagram



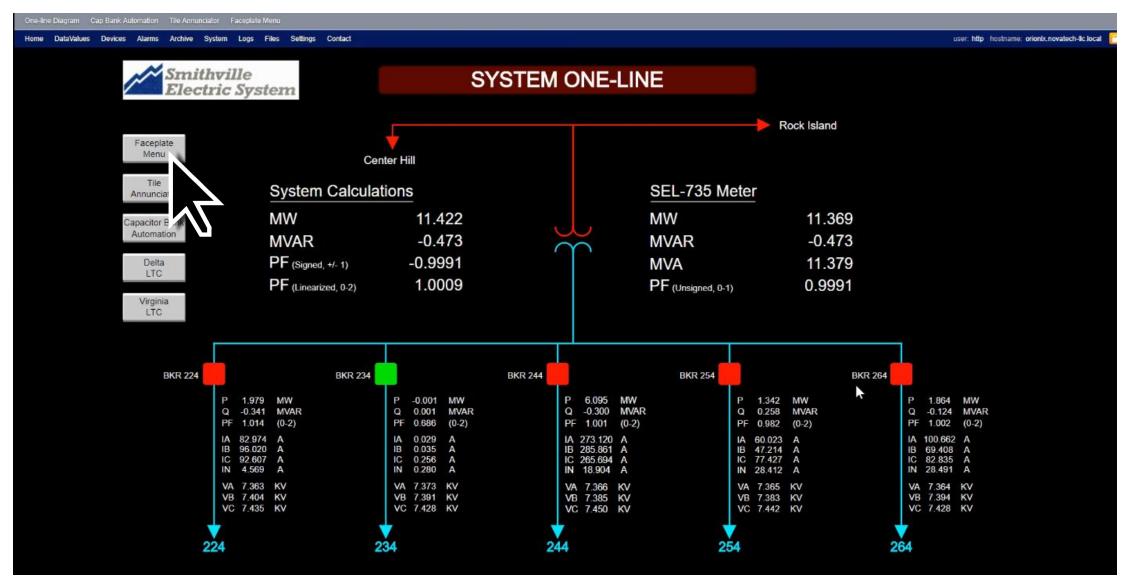


IED Faceplate



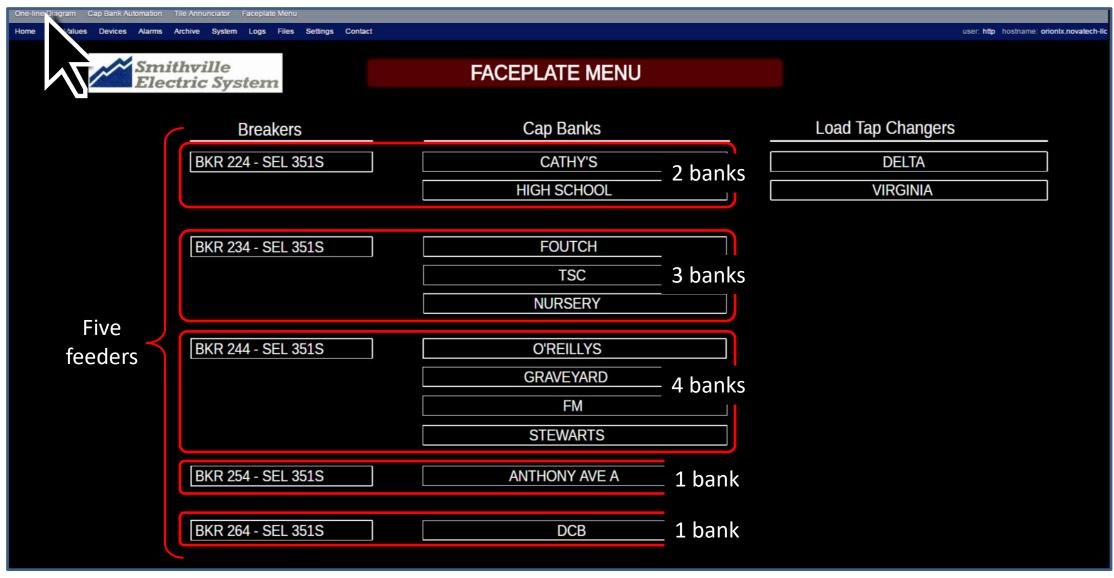


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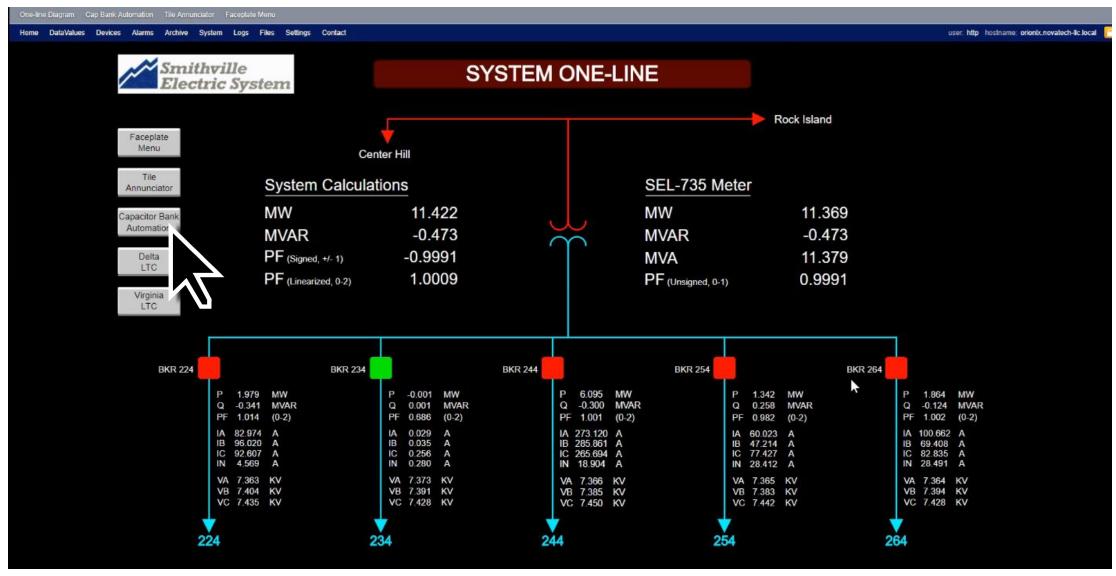


Faceplate Menu

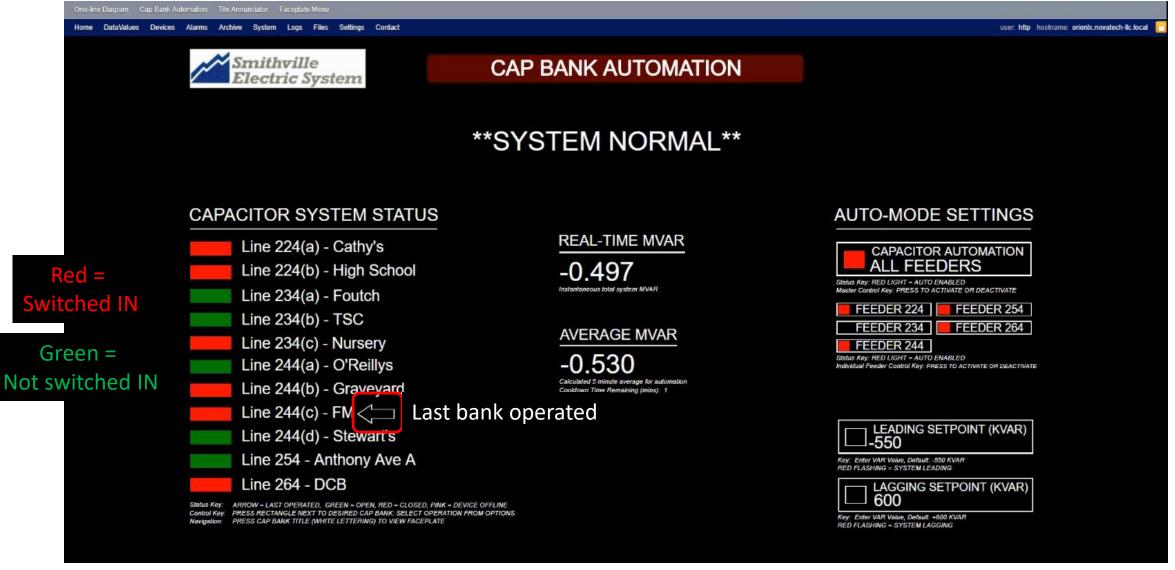




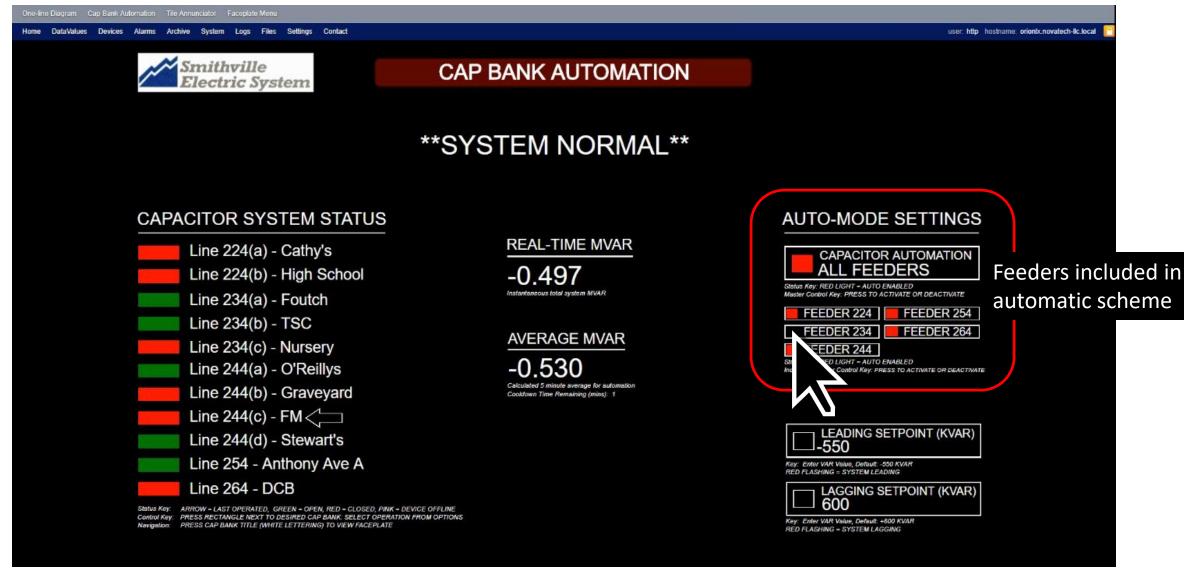
System One-Line Diagram



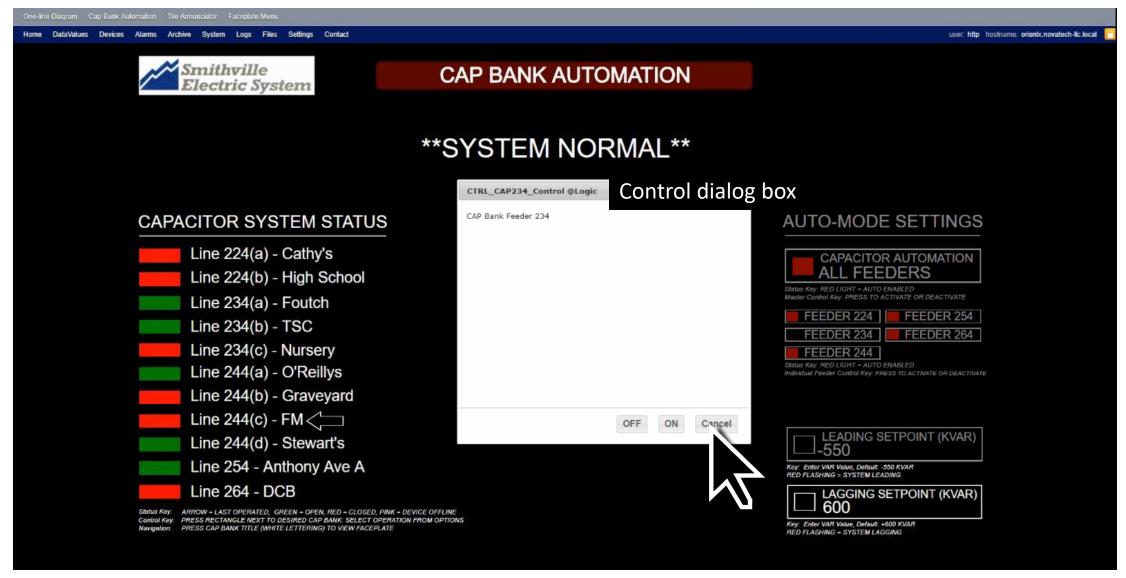




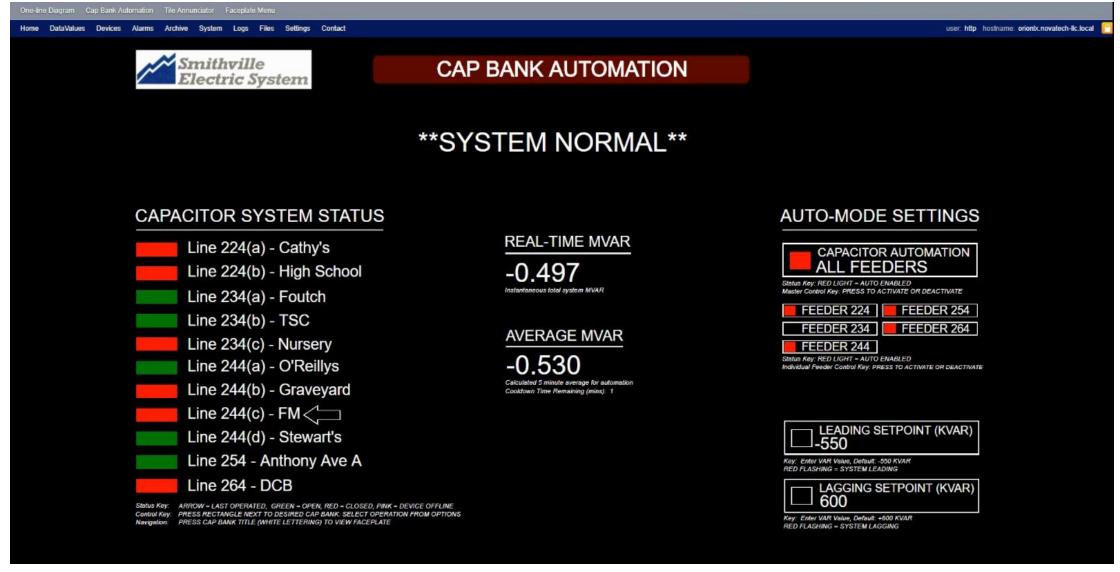


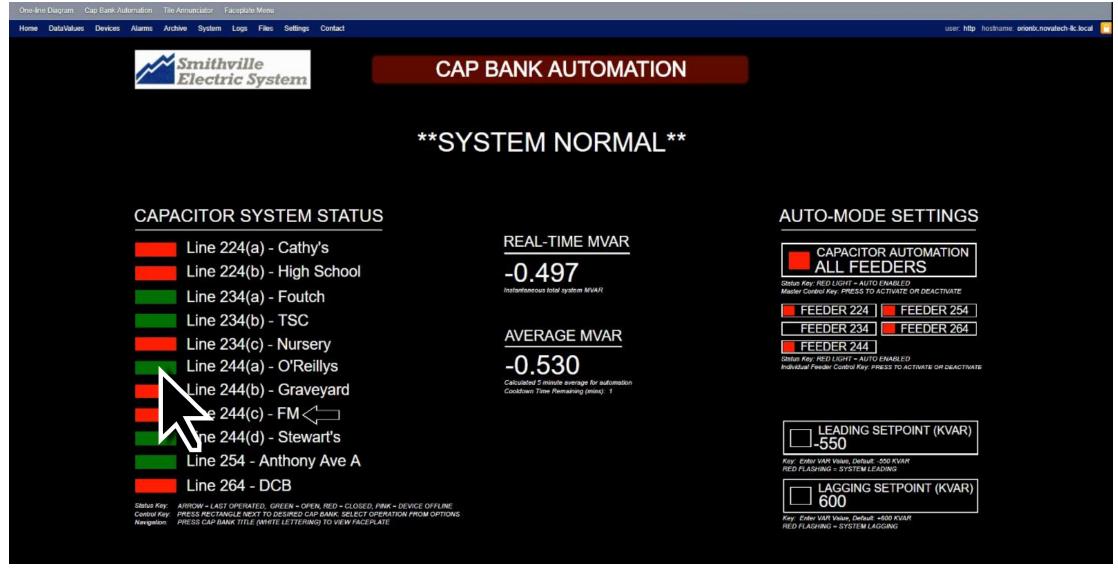




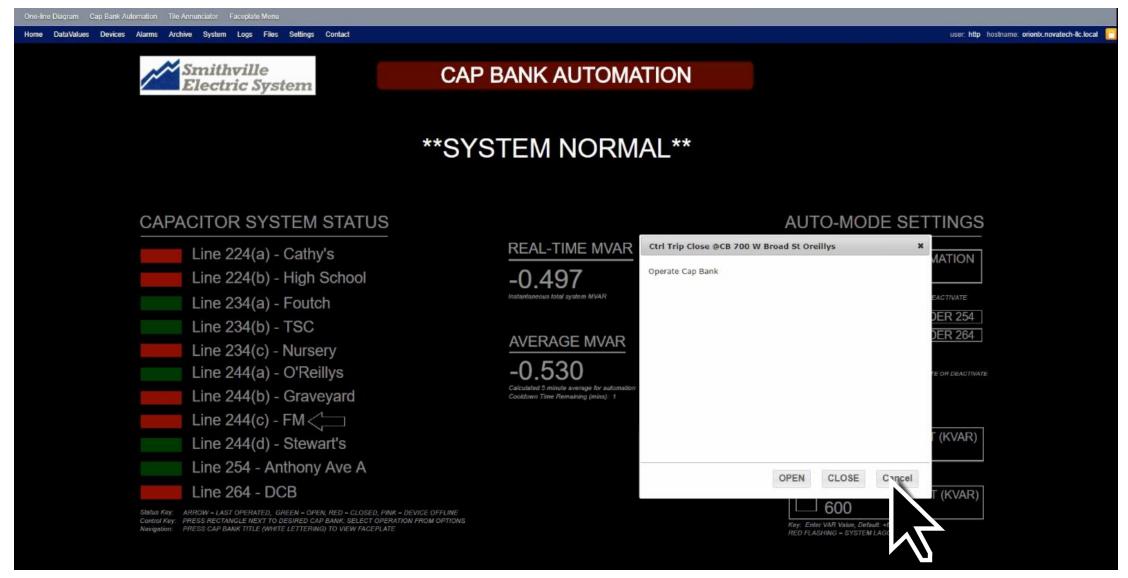




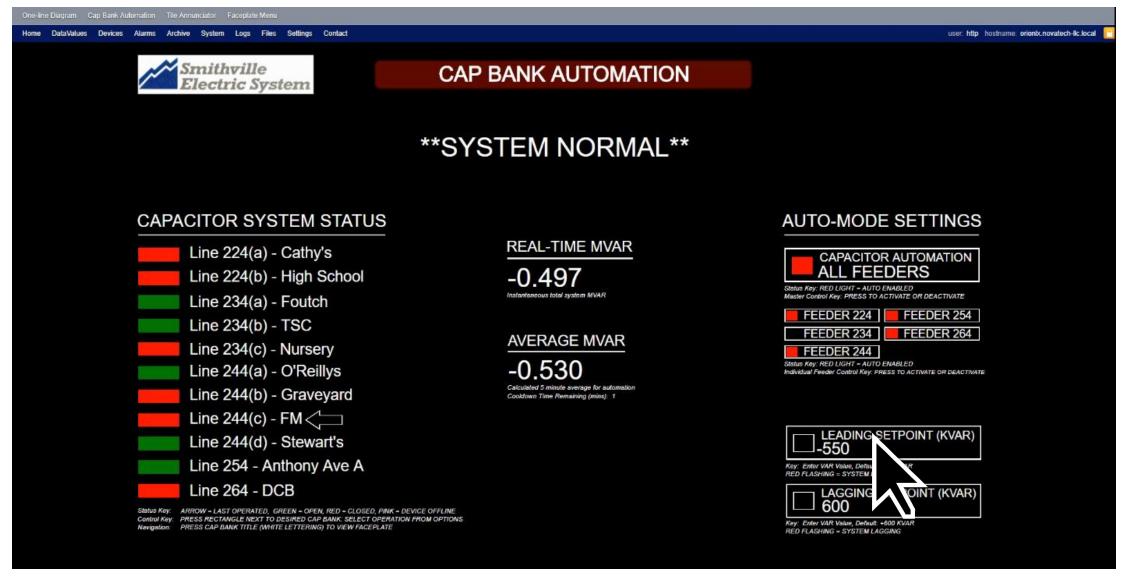




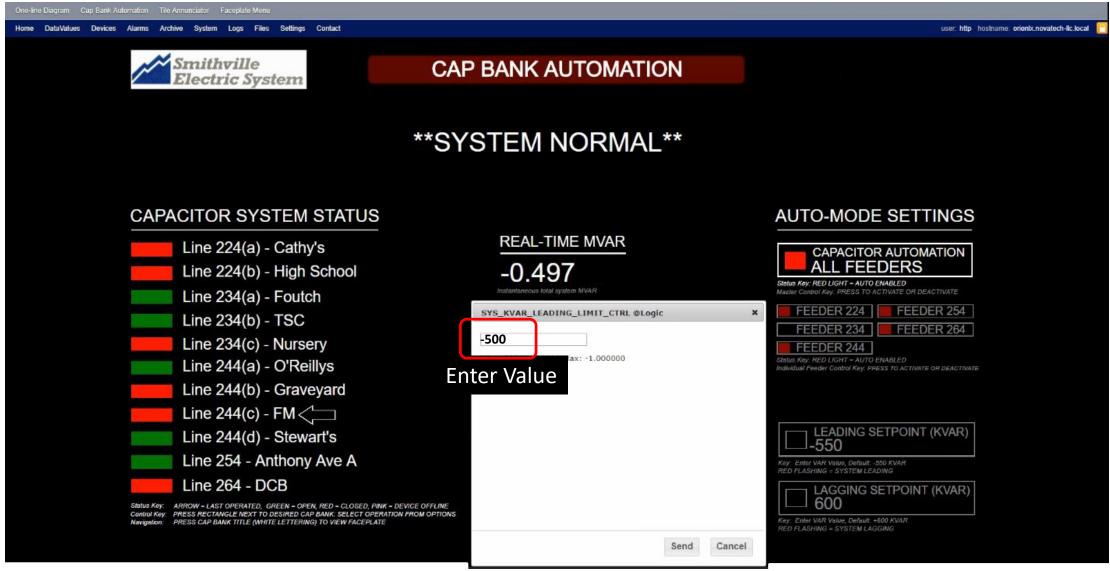




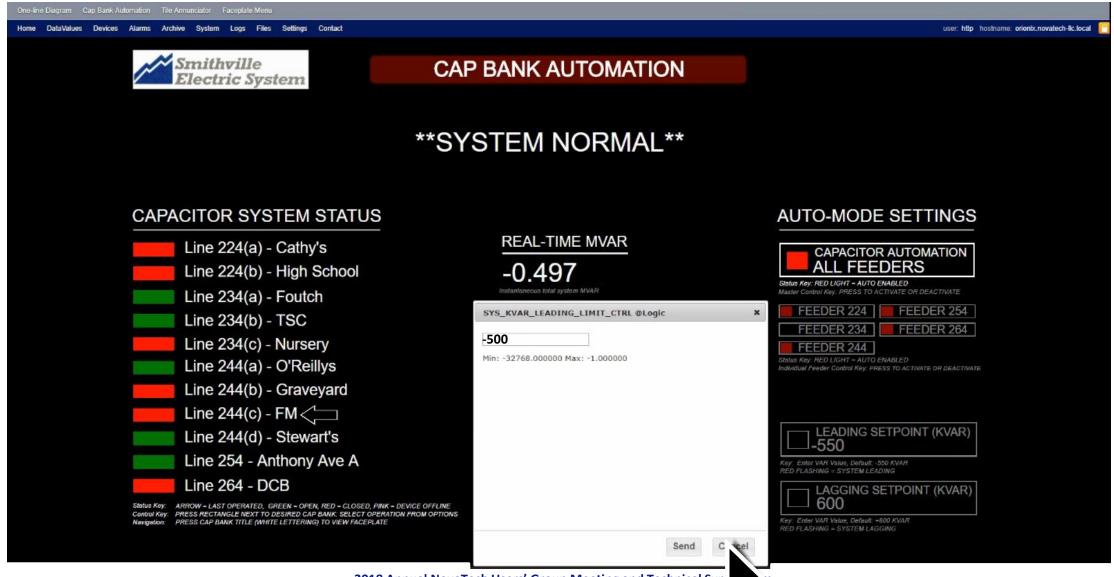


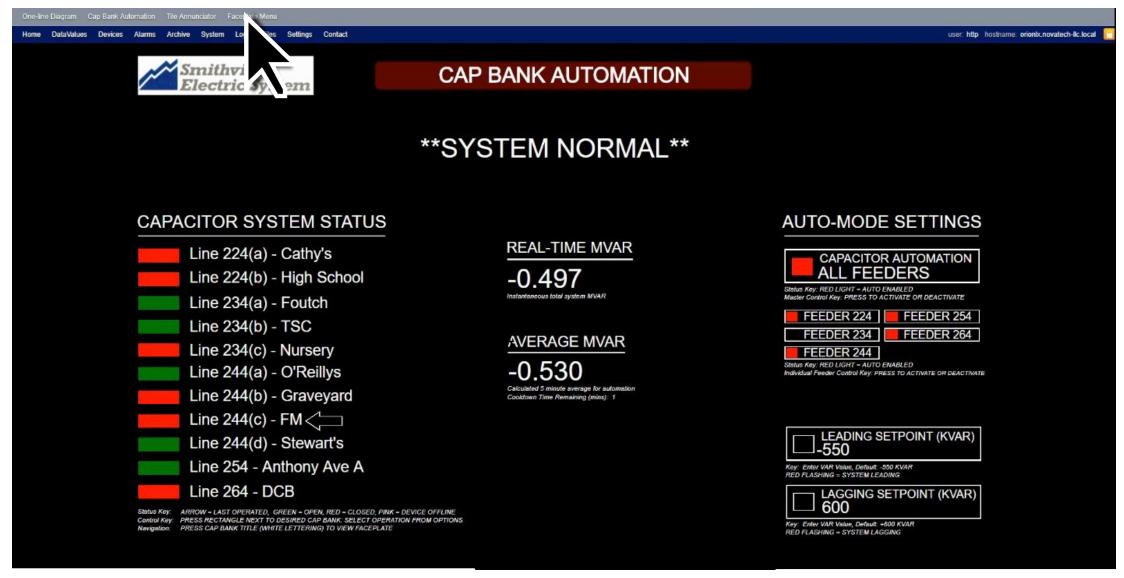






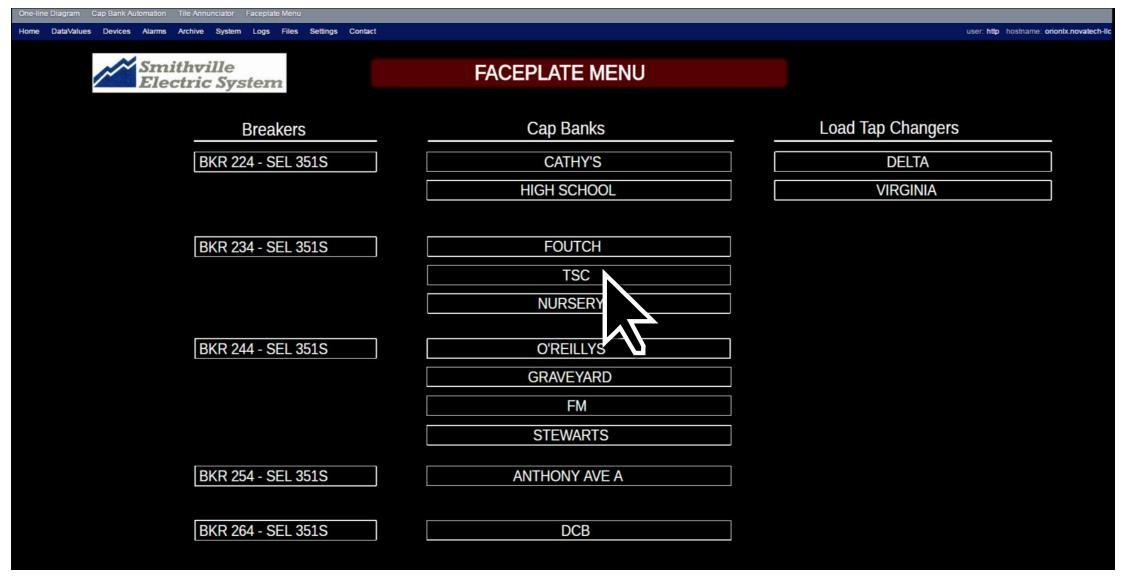






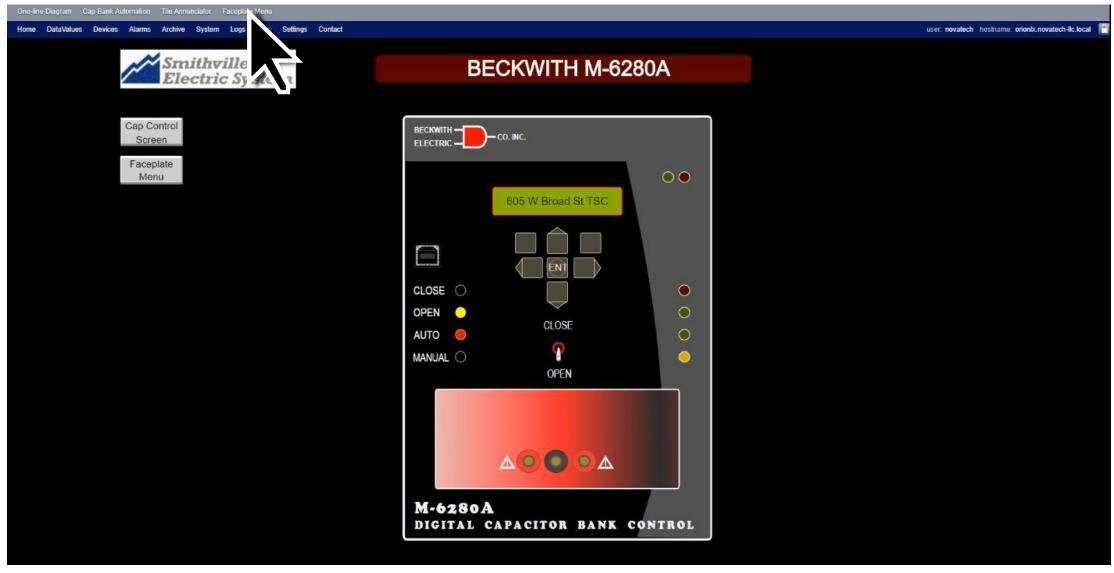


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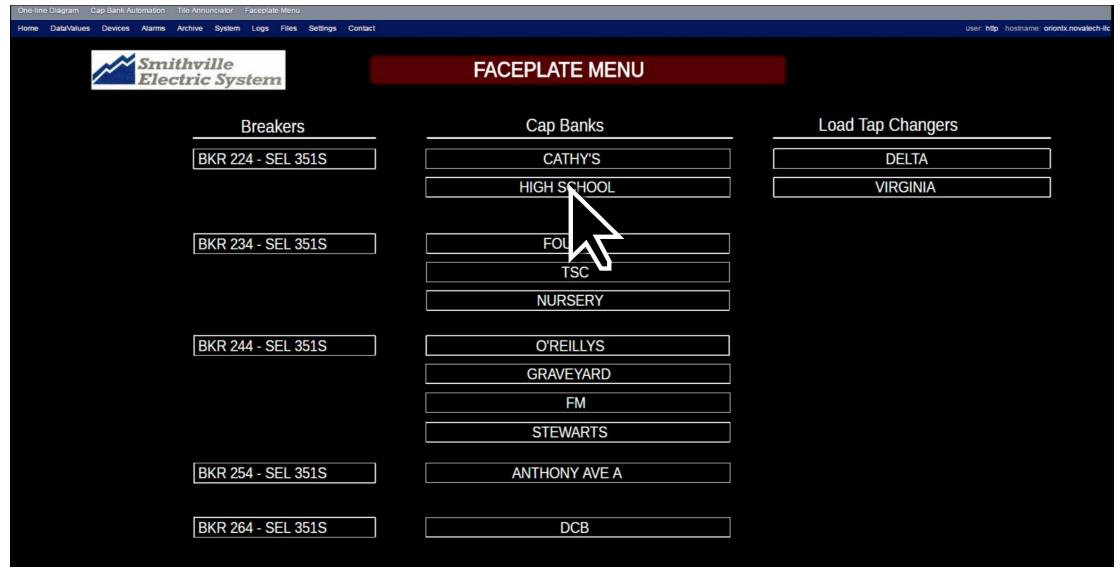


Beckwith M-6280 Cap Bank Controller



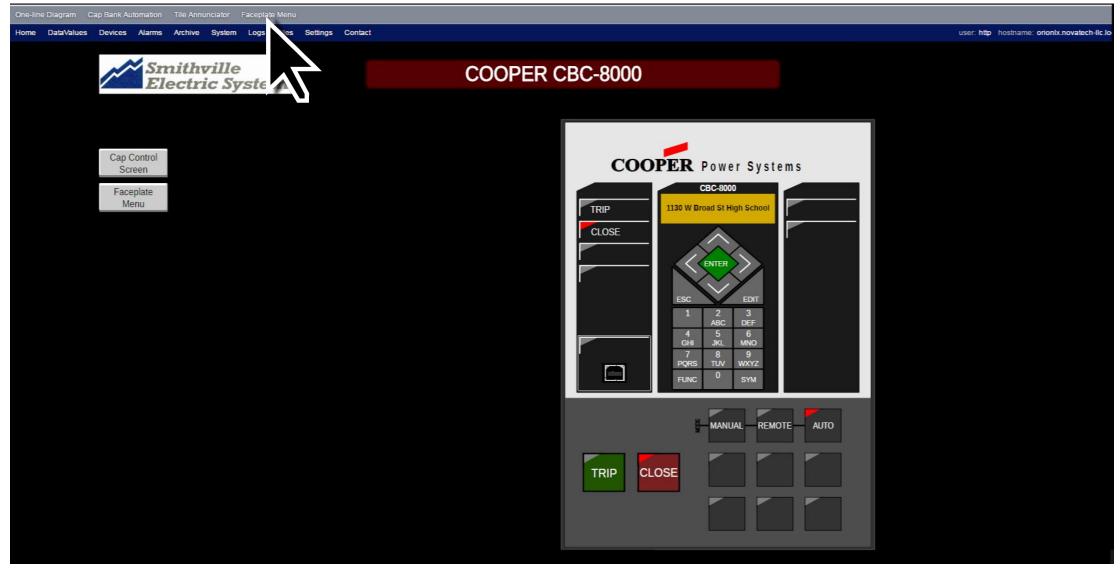


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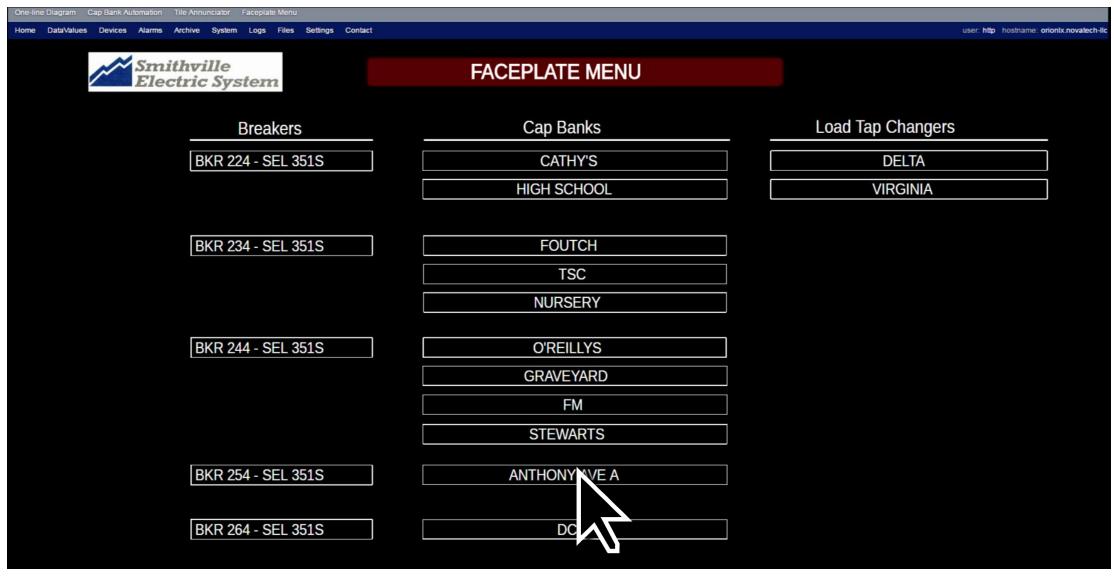


Cooper CDC-8000 Cap Bank Controller



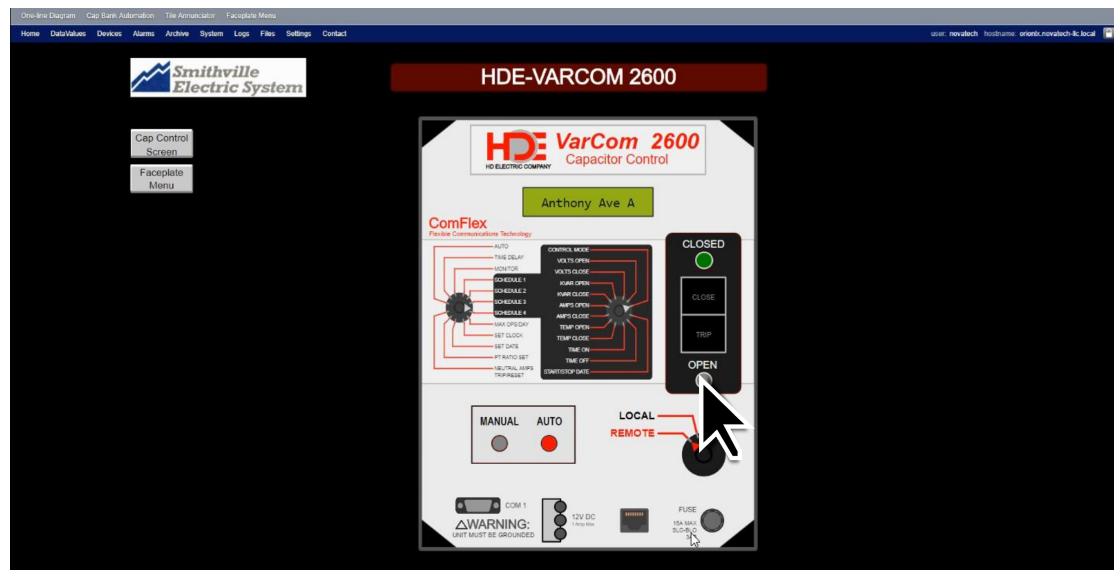


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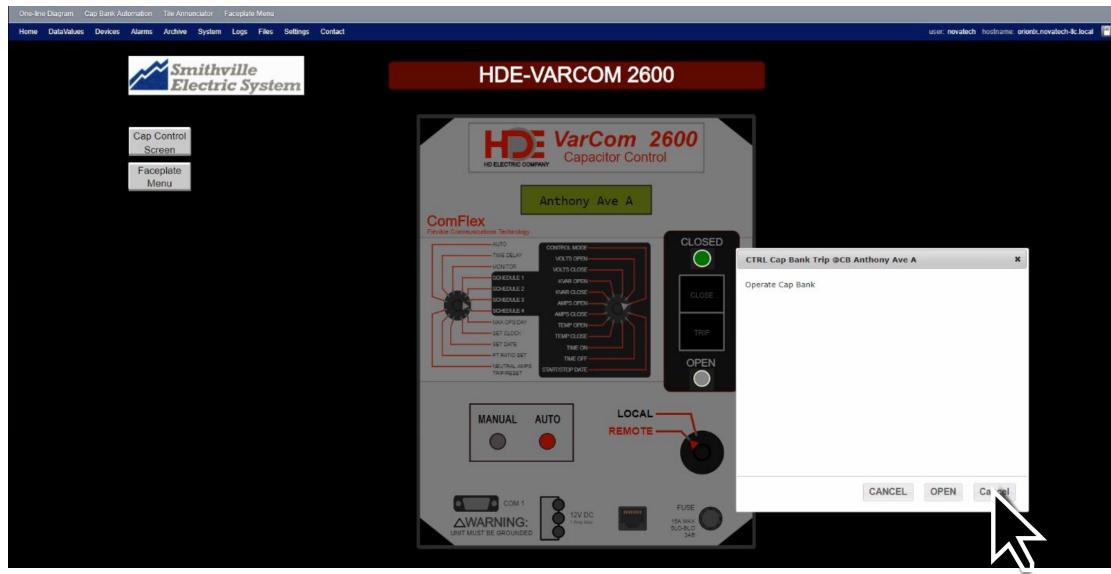


HD Electric VarCom 2600 Cap Bank Controller



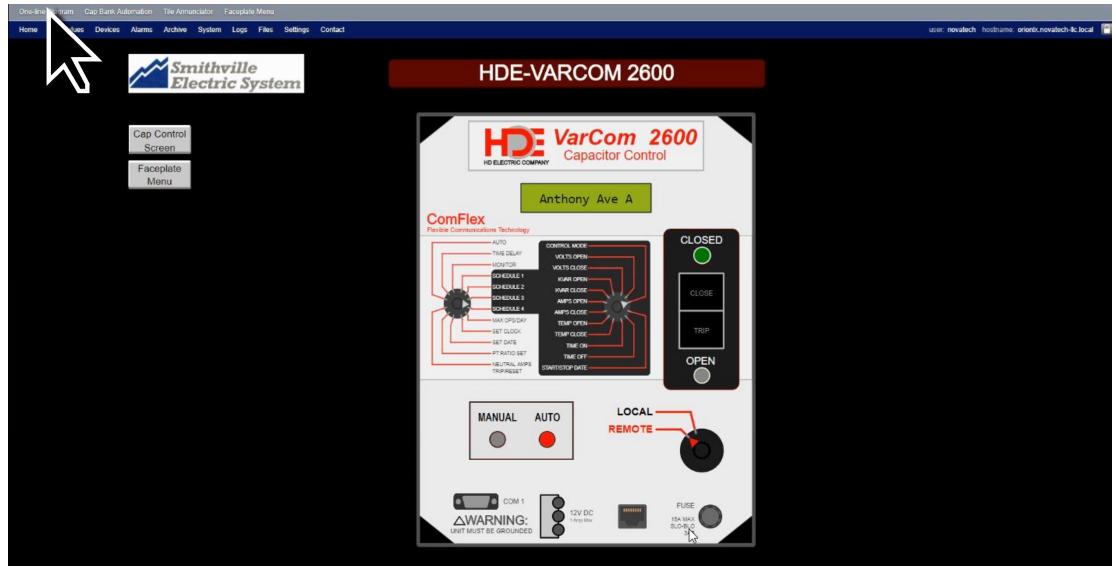


HD Electric VarCom 2600 Cap Bank Controller



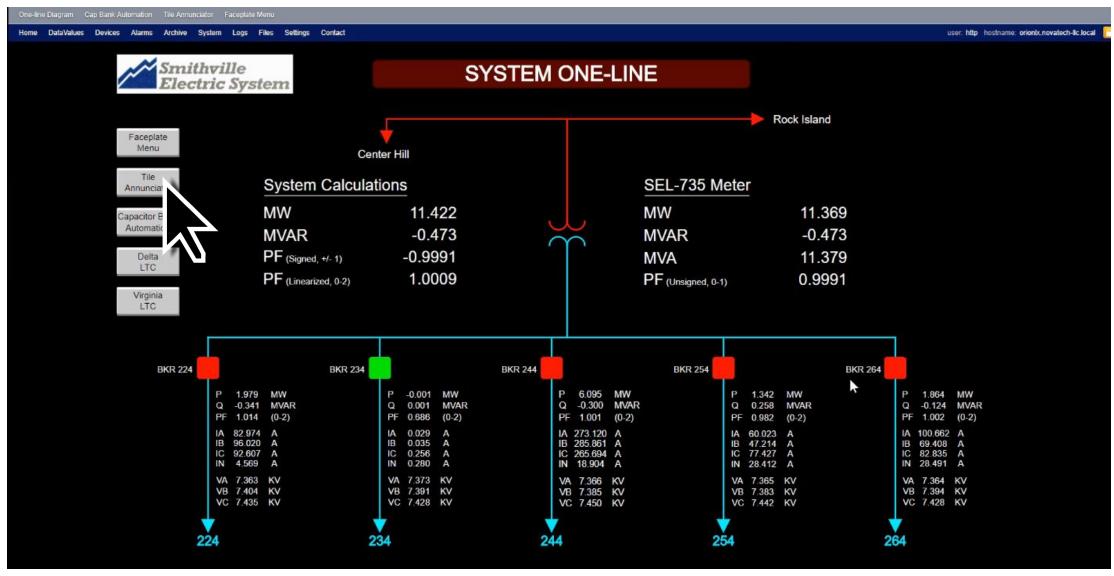


HD Electric VarCom 2600 Cap Bank Controller



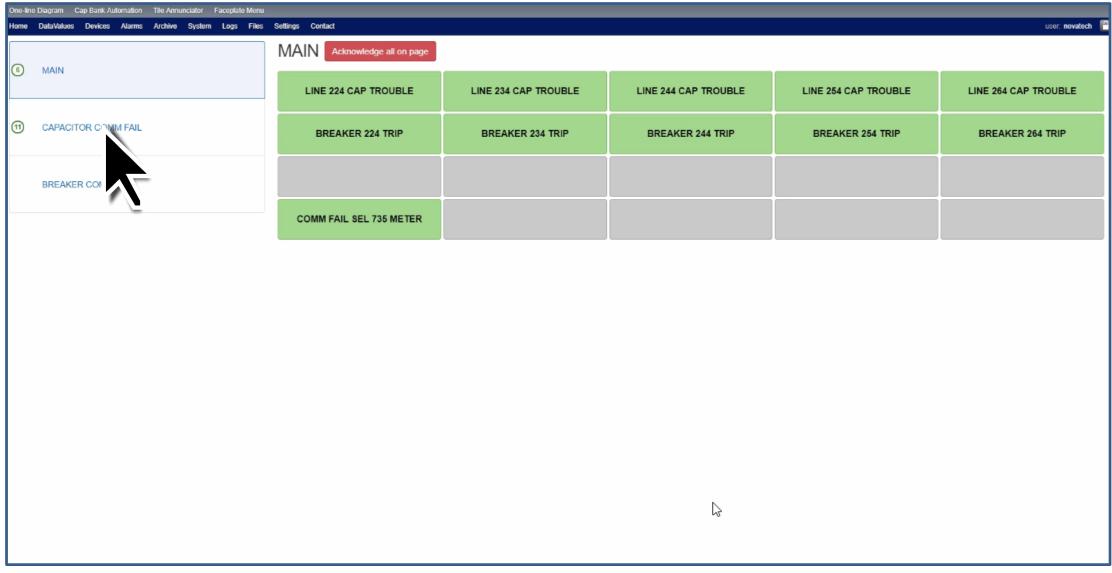


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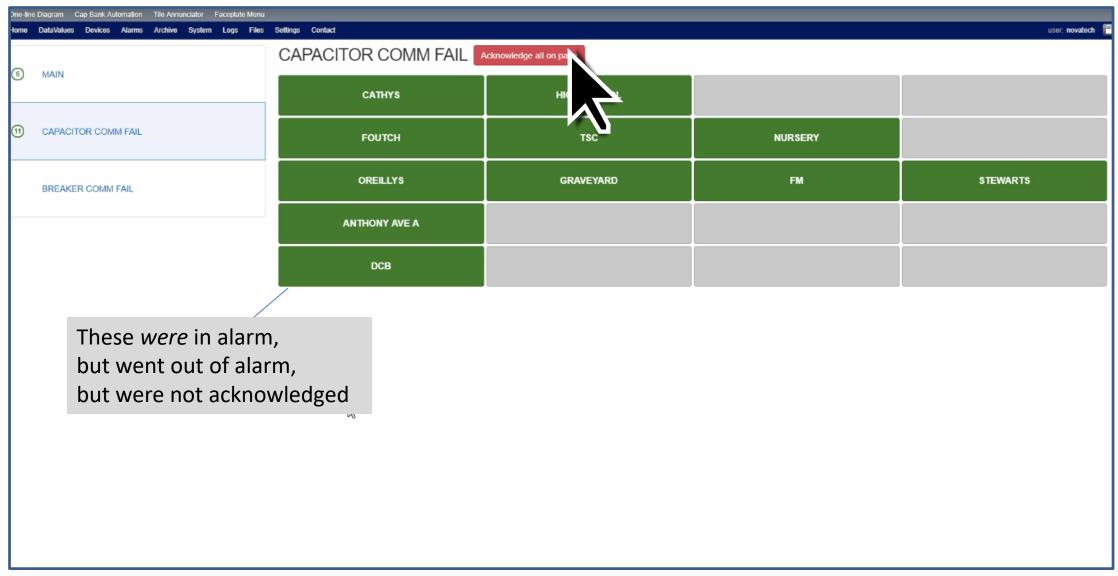




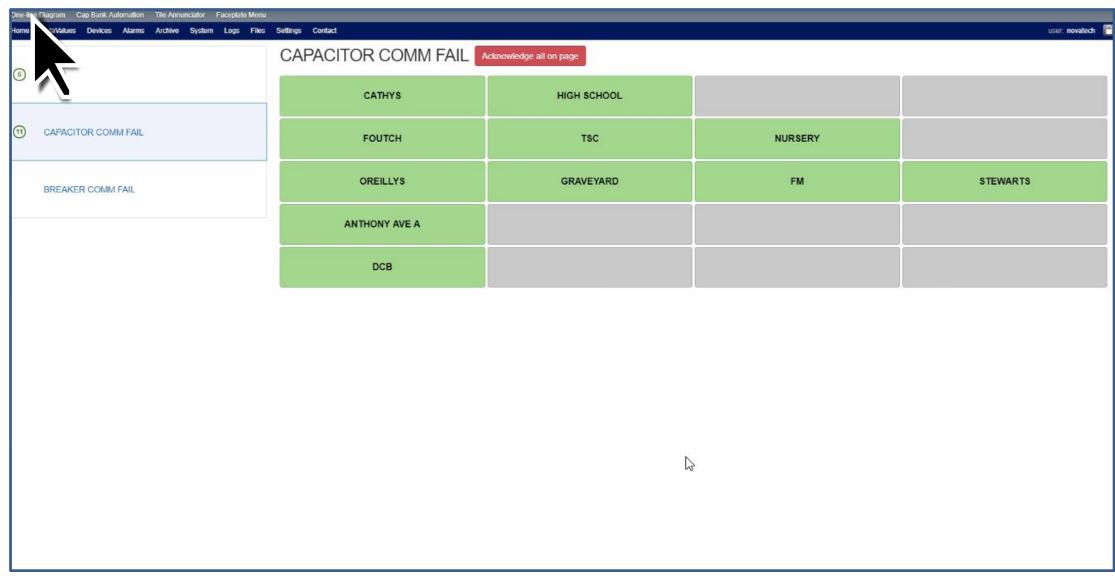
Tile Annunciator



Tile Annunciator



Tile Annunciator



System One-Line Diagram

