Abstract:

In recent years there has been great emphasis on improving the reliability and security of electric power systems during contingencies. The method of clearing and high speed-reclosing only the faulted phase of the line is referred to as single pole switching.

Single pole switching techniques have been reported as early as in 1962. However, the recently renewed interest in this area is primarily due to the advancement in computer simulation techniques that can help in gaining better insight.

This presentation will provide a background review on this topic. Discussion will include the benefits of single phase tripping and reclosing, secondary arc extinction methods that have been employed in the past and possible future work and simulation based analysis.

About the presenter:

Jayanth Ramamurthy is pursuing his Ph.D in Electrical Engineering at Michigan Tech. He holds a Master’s degree in Electrical Engineering from University of Florida, Gainesville. Prior to joining Michigan Tech, he has worked as a Quality control and testing engineer with a major power transformer company in Los Angeles, California. His areas of interest include, Transformers, Power system transients and ATP based modeling.