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Electrical System Command & Control is becoming a major focus issue through out the country. The nation is enduring more terrorist threats than ever before, so the security of our power grid is always a question being asked. To better understand how well the security, of the grid; thus, we need to understand, in detail, the voltage stability as well as to find the maximum and minimum time that is available to control the negative effects of a propagating system failure. Our goal is to examine the procedure that is in use now and also to discover which equations need to be in use, in order to measure the precise time available for different level of failures in the grid. Another goal is to see what effects these speed of the propagation and how can we increase the time we have to react to a failure.