SMS based Load Shedding Period Control System

Abstract

Energy is one of the basic requirements in modern civilization, without which various indispensable applications will bind to bring to a standstill. It is really not possible to measure the actual enormity of the function that energy has accomplished in connection with human advancement. As energy plays such a significant role in our day-to-day life, hence we should
confer a precedence to accumulate it by the use of load shedding. Conventional methods of load shedding systems are too slow to calculate efficiently the accurate amount of load to be shed. This consequences either excessive or insufficient load reduction. In latest years, load shedding systems have been carried out using conventional under-frequency relay and/or breaker interlocks schemes incorporated with Programmable Logic Controllers to give an innovative glance to an obsolete load preservation methodology. In true sense, period of load shedding can be controlled with a computerized power management system where rapid and optimal load management can be done. Again, the Computerized Load Shedding Control System can now be extended and it can be controlled by a SMS based system. This paper demonstrates the need for a modern load shedding scheme and introduces the idea of developing a SMS based procedure for controlling the load-shedding system where manual work will be minimized by selecting the feeder, substation and duration of shedding time by the user by sending SMS. Simulation results', using the above proposed model, verifies the suitability of choosing such a SMS based automated load shedding period control system.

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Index Terms

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