Title of Article: Automatic Transfer and Controller System for Standby Power Generator

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Abstract: An automatic transfer system (ATS) was developed to monitor the a.c. voltage coming from Power Holding Company of Nigeria (PHCN) line for power failure conditions. Upon detection of an outage for a predetermined period of time, the standby generator is started, once is up to speed, the load is transferred from the PHCN line to the local Generator. This ATS is capable of electrically monitoring fuel level, oil level, Battery strength, next maintenance schedule and then start or stop the unmanned Generator from the computer system located in the comfort of homes or offices outside the Generator site. In this paper therefore, an Automatic Transfer System (ATS) for Power Generator is designed to improve the operation and maintenance of power generators. The ATS which includes both hardware and software module, provides a functionality that allows a power generator to be controlled and monitored from a remote location.