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Alternator Testing Using Networked PLC for Control and PC for Data Collection

Nate Olson

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ALTERNATOR TESTING USING NETWORKED PLC FOR CONTROL AND PC FOR DATA COLLECTION

May 2, 2008

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To Fulfill B.S. Electrical Engineering Technology Degree Requirement

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ABSTRACT

The goal of this paper is to demonstrate the ability of the designed test stand to test a prototype high-output (HO) alternator. The dc generator in the lab will be used to simulate the HO alternator. The designed monitoring systems will be tested with the generator to demonstrate the ability to use them when the HO alternator prototype is available.

Keywords:

PLC – Programmable Logic Controller

HMI – Human Machine Interface

VFD – Variable Frequency Drive

AIC – Advanced Interface Converter

Allen Bradley PanelView

Allen Bradley RSLinx

Allen Bradley RSLogix5000

Allen Bradley Panelbuilder32

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