Dear Dave Angell:

We have enclosed the final design report entitled “Speaker Timing System for the Western Protective Relay Conference” for your review. This report explains the speaker timing system that we have designed and built. The purpose of the speaker timing system is to help decrease the problem of guest speakers overrunning their allotted time during a conference. Thereby, the conference will stay on schedule and improve the experience of the audience members.

The speaker timing system consists of two units, Unit A and Unit B. Each unit includes a master station and a remote slave station. The master station has been designed so the moderator can easily and quickly program the timing parameters (presentation length and two warning times) into it. The slave station has been designed so the speaker can easily see it from many viewing angles. A countdown timer and indicator/warning lights are installed in each station to allow the speaker and moderator to always know the remaining time of the presentation.

The speaker timing system that has been built is inexpensive, compared to commercial systems. Commercial systems with the same functionality cost over $1000 per unit (slave and remote station). The cost for the speaker timing system was approximately $625 per unit ($1250 for the entire system).

The system has been built from high quality components and has been approved by the College of Electrical and Computer Engineering electronics expert. We are confident that the speaker timing system will be exactly what the WPRC needs for many years.

Sincerely,

Tim Montoya
Frank Gonzales
Jesse Rebeck
Hugh Roberts