



Nashville Baptist Church

... *Transforming Lives For Christ*
June 4, 2008

Phil. 3: 21

Attn: Dean Daniels and Bennie Joyner, Chairmen, Building and Maintenance Committee

Dear Dean and Bennie:

Two years ago, we were having a lot of down time with our elevator that transports our senior citizens and disabled adults to the second floor of the Educational Building. The elevator service technician had to work on the elevator at least once every two weeks to correct the failures. We made one significant modification in our power system (the purchase and installation of two Total Protection Solutions transient voltage surge suppression units) which has eliminated the frequent outages and inconveniences to our adult Bible study program. It is hard to put a price tag on having reliable elevators for our elderly members. One unit was installed on the main incoming power panel and a second unit with enhanced transient filtering was installed on the electrical breaker switch in the elevator control room. Together, these TVSS units provide the two levels of protection recommended by the Institute of Electrical and Electronic Engineering.

As a retired electrical engineer, I get tasked with technical assignments like this. I now recommend that we provide the second level of protection for our other sensitive electronics, such as our sound system, video projection system and organ. I strongly recommend that you purchase and install TPS units with enhanced transient filtering on the two distribution circuit breaker panels which feed these systems. I am convinced that the addition of TVSS units for our expensive sanctuary electronic systems (total cost to the church of these systems is more than \$150,000) can eliminate potential failures caused by voltage transients, such as the failure of a video projector right before worship two Sundays ago. These transients can be generated from outside the church (electrical power transients caused by lightning and power company switching) and from inside the church (HVAC compressor and fan motor start/stop).

A secondary benefit that would accrue by installing units on these particular panels is that the office computers and equipment would be protected. All lighting systems fed by these panels will have extended lifetimes through reduction of transient voltages.

I am sure that the previous chairman of your committee can find the information regarding these TVSS units and provide you with the information needed to order them. You can count on my support and assistance in this effort.

Sincerely,

Rev. Richard C. Paschall, Jr.
Minister of Music