

**AES Duck Creek Station
17751 N. CILCO Rd.
Canton, IL 61520
Phone: (309) 668-3816**

February 26, 2001

Randy Stephens Air Relief, Inc. Mayfield, KY

Dear Mr. Stephens;

We have now had the opportunity to study the effects of the Amp 500 Control System on our Frame 3, 5 Stage Centac Air Compressor. As you know, we have two identical machines, which presented a good opportunity for comparison. Our "A" machine still has the MP3 system; the "B" machine has the Amp 500. We've been running recorders on these machines for several years and charting operating pressure and horsepower. When both machines had MP3 on them, they appeared to consume the same amount of energy; so comparing A with B under the same atmospheric conditions should give us good information as to the effects of installing an Amp. 500.

Here's the good news: The Amp 500 decreased energy consumption by a good 5%. Only time will tell, but it stands to reason that this decrease in energy use means we're not running the machine as hard and it should last longer between teardowns. I'm looking forward to less maintenance costs, less energy costs, and greater reliability.

Hopefully, in the near future, I'll be getting together with you to install an Amp 500 on our A machine. I would also be interested in installing IGV on both machines. It would be nice to have good control systems and good end devices that were designed to work together on both machines. Once we get that accomplished we can turn our efforts toward a Frame O, 3 Stage House Air Compressor.

Thanks,

Keith Classen
Instrumentation Technician
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