



Newton Power Station
6725 N 500th Street
Newton, IL 62448

Generating

Date: 08/06/2009
To: Frank Howard
From: Chris Rauch
Subject: Fan Vibration Equipment

Dear Mr. Howard,

This letter is being sent to you as your request for recommendation from a company in India. Newton Power Plant installed vibration equipment on our fans for both unit #1 and unit #2 in 2004. We installed the vibration equipment on our induced draft (ID) fans, fluid drives and motors; on our forced draft (FD) fans and motors; and on our primary air (PA) fans and motors. The total number of fans we installed this on was 15. We are currently monitoring all three directions (horizontal, vertical and axial) for each bearing on these fans, fluid drives and motors for a total of 239 vibration points plus 5 speed indications.

The plant purchased the vibration equipment from Sales Technology, Inc (STI). The equipment consisted of pre-wired, insulated, and assembled enclosures that had the 0-1 ips peak vibration transmitters, analog to digital converters, Ethernet modules, media converters, power supplies, thermostat controlled heater, and tachometer pickups (for ID fans); Wilcoxon vibration transducers; and accelerometer cabling. STI worked very well with Ameren engineering to design the equipment to meet our requirements. STI provided very detailed drawings identifying the components in the enclosure. STI explained and provided very helpful information from how to hook up the system from the plant's DCS (distributed control system) to the heaters to keep the equipment above freezing conditions.

The equipment installation went very well for the plant and the equipment has operated very well since the installation. The vibration equipment has identified numerous problems that has provided valuable information for the plant. We have been able to assess the equipment real time as well in the past with the on-line readings. The equipment has allowed us to find problems and monitor the equipment until an outage for repair. The few minor problems the plant has had were handled promptly and graciously by the STI staff. Overall, Ameren has been very satisfied with the equipment that was purchased from STI and the assistance that has been provided from their sales and engineering staff from STI.

Sincerely,

A handwritten signature in black ink, appearing to read "C. Rauch".

Chris Rauch
Consulting Engineer
Ameren Energy Generating
Newton Power Station