‘Sentry’ Solutions

Problem/Solution Cost/Benefit ‘Case’ study:

√ Converter/Reactor: Fan Recoup “Surge/Stall” Events.
The ‘Sentry’ Concept

Predicts the future “health” of equipment to proactively ensure maximum Uptime, Prevent Downtime and Protect your investment.

Provides 24/7 “At a Glance” equipment condition (of vibration, strain, temperature) using intuitive Red/Yellow/Green “Traffic Light” system.

Creates 3-D “movies” to rapidly identify the TRUE Root Cause of equipment “hot spots”.

Enhances Predictive Maintenance (PdM) and Process optimization.

H&S takes full ownership for detailed Corrective Actions specific to the unique Needs of the Customer. (Extension of Customer Reliability Group)
Problem: Converters, Reactors Fan Recoup “Surge/Stall” Events.
Performed Condition Assessment of Recoup Fan.
Solution Conclusion. ‘Root’ Causes of Fan Surge/Stall Event. Note the Integrated PI data (via OPC link) with Sentry data.

**PI Data:** Flow Oscillating with rising static pressure. Classic “surge/stall” Event.

**Solution:** Adding Structural support to make more ‘Stiff’ reduced ‘V’ levels.
Investments, Cost/Benefit analysis

- $150K investment: Condition Assessment (material and Engineering Services Labor), new/re-mfg. components and labor.

- ROI: Much higher reliability $150K/Day of increased Uptime (initial $1 invested = $1 of Return in the first Day)