PROCESS & POWER INCORPORATED

Process & Power Inc.
1625 E. 145th St.
Little Rock, AR 72206

501-897-5228
501-897-2152 fax
www.processnpower.com

Ingersoll Rand Industrial Technologies

ENGINEERED SERVICES

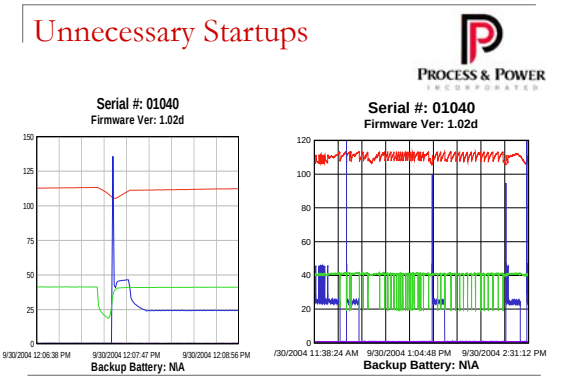
OBJECTIVE

To increase profitability of facilities through engineering and financial based compressed air system analysis that delivers:

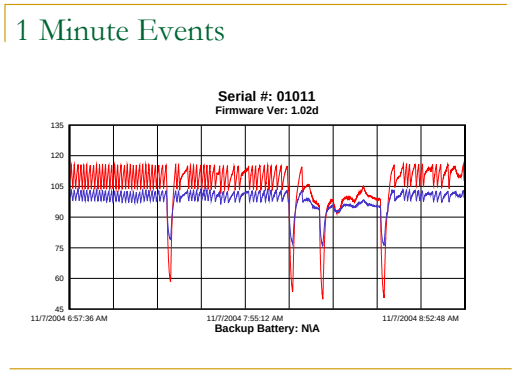
- Maximize benefits of the customers existing assets
- Improve productivity of air using equipment
- Minimize the largest cost of ownership – power consumption
- Ensure the reliability of the compressed air supply
- Accurately evaluate the realistic return on investment of upgrades.

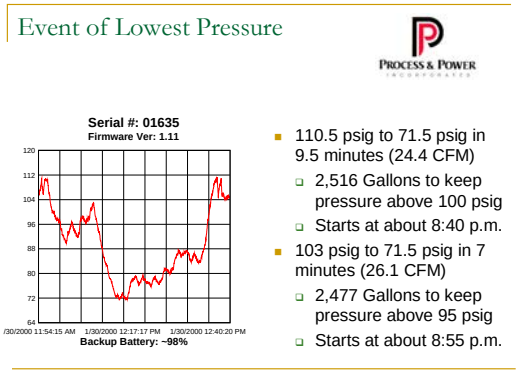
CAPABILITIES

- Trending and analysis of current power costs, pressure profiles at supply and remote locations, flow, and dew point
- Identify efficiency opportunities for compressor operation
- Determination of corrective actions to problems and identification of increased profit opportunities
- Controls system, equipment layout, piping, compressor room ventilation and cooling system design



- Process expertise insight for certain industries
- Experience backed by formal IR training and over 100 systems analyzed
- Technical analysis by a registered professional engineer (Arkansas)





- 110.5 psig to 71.5 psig in 9.5 minutes (24.4 CFM)
  - 2,516 Gallons to keep pressure above 100 psig
  - Starts at about 8:40 p.m.
- 103 psig to 71.5 psig in 7 minutes (26.1 CFM)
  - 2,477 Gallons to keep pressure above 95 psig
  - Starts at about 8:55 p.m.

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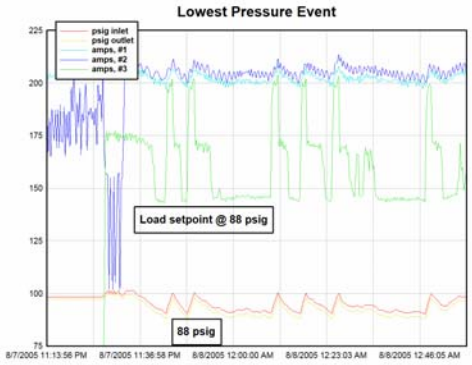
EXPERIENCE

The scopes of work can differ greatly from plant to plant. One size does not fit all. A facility with chronic production problems due to compressed air issues benefits from more in depth engineering study that a full system analysis will deliver. A feasibility study may find that little opportunity exists, and further effort by either party is not productive. Process & Power has the knowledge and capability to offer the appropriate scope for your facility.

- Feasibility Study – process of understanding system processes, financial hurdles, installation details, and compressed air issues from maintenance and production personnel.

- Intellisurvey – limited scope that determines system cfm requirements, current power costs, and savings opportunities with alternative controls. Limited to one entry point.

- Supply Side Analysis – in depth analysis of compressed air supply with one or more entry points. This scope can include the true set-point stack of compressors relative to each other, differential pressure of air treatment and the impact on system operation, and dryer performance evaluation including data logging of dew point. This scope addresses all aspects of the system up to the plant header piping.



- Full System Analysis – supply side and compressed air end use applications analysis. End users are analyzed for corrective measures that result in a stable, repeatable pressure, and at the correct air quality. Inappropriate users are identified and alternatives recommended.