



Implementing CMMS and Condition Monitoring

June 28, 2007

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CMMS



- Most of the focus in CMMS implementations is on the successful installation of the hardware and software associated with the new system

CMMS

- Be prepared to spend significant time and energy before you see the ultimate reward of a more efficient and effective maintenance group
- Equipment and inventory data will need to be entered

CMMS

- Preventative maintenance tasks will need to be generated and categorized:
 - Equipment numbers
 - Routes
 - Calendar days/months etc.
 - Gauge/meter readings

CMMS

- Inventory control will need to be implemented
- The inventory control consumes more human-hours than we predicted

CMMS Training



- The CMMS training will apply to more than just maintenance technicians
- Plant employees need to understand how to enter work requests and purchase requisitions
- Plant management personnel need to be trained how to retrieve data from the system

CMMS Training

- Once personnel are trained:
 - Start slow
 - Generate some preventative maintenance work orders
 - Add PMs as applicable.
- We have developed PM's for:
 - Vacuum pumps
 - CEMS unit
 - T.O. and Ddyer ID fans
 - Wheeled equipment

Employee Buy In


- Getting employees to embrace the change in maintenance documentation is vital to the success of the CMMS program
- Use the system to make the technicians job easier
- Add required parts/lubricants to PMs
- Ask the technicians input on procedures to make PMs more efficient



Condition Monitoring and Predictive Maintenance

Traditional Approaches



- Purchase all equipment and training
 - Start the program after training is completed
 - Hire a contractor to perform condition monitoring
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US Bio Approach

- Purchase
 - Vibration scanner
 - Laser alignment tooling
 - Ultrasonic leak detection system
- Hire a contractor to:
 - Establish a baseline
 - TRAIN employees on the proper use of equipment

Technologies Used

- Vibration analysis
- Infrared scanning
- Motor current analysis
- Ultrasonic leak detection for vacuum, steam and compressed air
- Laser alignment
- Mapcon CMMS as installed by ICM

Vibration Scan

Equipment purchased and baseline established in December 2007

- Baseline and other early data gathered by contractor
- Plant personnel received training to gather data.
- Contractor performs analysis and generates report

Plant personnel started gathering information in March 2007

Vibration Scan

- Each piece of equipment has a rating and is listed on a PM route in the CMMS
- Overall vibration rating is entered into the system as a gauge reading
- Corrective work orders are auto-generated based on the vibration reading
 - Report and recommendations can be listed on the work order
- History contained in both reports and the CMMS

Separation of Duties



US Bio Technicians

- Complete the vibration scan
- Perform laser alignment when required
- Use the ultrasonic leak detector as required

Separation of Duties



Contractor

- Analyses vibration data
- Performs infrared scan
- Performs motor current analysis
- Our contractor will provide follow-up training each quarter when they are on site

Future Plans



- Purchase an IR camera
 - Obtain Level 1 certification
- Expand the use of vibration analysis to more equipment