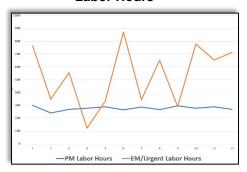
### **Tool-Box Talk**

## **Preventive Maintenance 101**

Preventive Maintenance - Actions performed on a time- or machine-run-based schedule that detect, preclude, or mitigate degradation of a component or system with the aim of sustaining or extending its useful life through controlling degradation to an acceptable level. (Definition Source: SMRP Best Practices)

#### **Fundamentals of PM**

- 1. All Equipment PMs are focused on specific "Failure Modes"
- 2. All PM Procedures should have the following:
  - Step by Step Instructions (initial each step)
  - Specifications
  - Space available for extra information
    - Condition as found
    - Condition as left
    - Recommendation to changes to Procedure
- 3. When a PM Work Order is given to Maintenance Techs the following should be attached:
  - Equipment Failure history since last PM Executed
- If a piece of critical equipment fails between PM cycles an RCA should be initiated
- 5. Post the following metric in Maintenance Shop on a line graph
  - PM Labor Hours vs EM/Urgent Labor Hours



# Steps to take if PMs are not Effective or meeting expectations

Step 1: Acknowledge you have a problem with your PM Program not meeting expectations

"you cannot solve a problem without admitting you have a problem"

Step 2: Assemble a team of Maintenance Techs, Maintenance Supervisor and operators

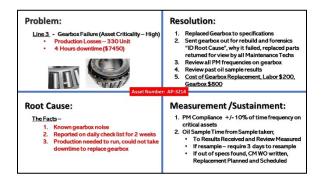
Step 3: The PM Optimization Team establishes their Vision, Mission, and Guiding Principles approved by Maintenance, Production and Plant Leadership and meet weekly for 30 minutes max (FOCUS)

<u>Step 4:</u> Identify the equipment experiencing the most losses, ie. OEE, Production loss, EM/Urgent Labor hrs., etc.

Step 5: Post a Dashboard to measure progress and effectiveness of the Program



#### <u>Step 6:</u> Create a PM Problem/Solutions Board using the A3 Approach to problem solving



It is critical to manage Preventive Maintenance as a continuous improvement process which results in optimal equipment reliability if managed effectively.

