

MAINTENANCE ENHANCEMENT

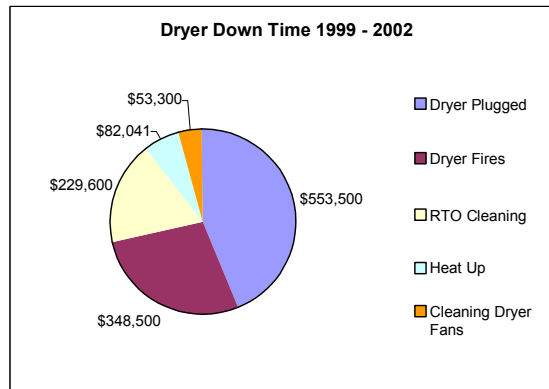
“Plan Your Work, Then Work Your Plan”

Maintenance Enhancement; Survey and Programs Upgrade

With better planned maintenance the machinery will run better. The maintenance survey is a detailed review of the maintenance program aimed at identifying opportunities to reduce maintenance costs, increase plant utilization, improve maintenance safety, track and evaluate failure root causes, reduce labor costs, and improve spare parts management. Conducting a maintenance survey will identify maintenance program needs. The maintenance survey includes:

- Maintenance Mgmt. Training
- Management by Benchmarks
- Planning and Scheduling
- Reliability Engineering
- Maintenance Safety
- Maintenance Training Development
- CMMS (Maintenance Mgmt. Software)
- Preventative and Predictive Maintenance
- JIT (Just In Time) Spare Parts Mgmt.
- Scheduling and Organizing Effectiveness

Total Cost of Down Time \$ 1.3 Million



Cause and Cost of Down Time

Maintenance Components

Maintenance Consists of Six (6) Major Elements:

1. Documentation and Data
2. Manpower and Management
3. Planning and Scheduling
4. PM, PDM, TPM
5. Tools and Supplies
6. Training

Maintenance Improvement Program

The Program of Maintenance Improvement Includes:

1. Collect Data and Assessment
2. Report with Recommendations
3. Assist with Upgrades
4. Long Term Reliability Plan

MAINTENANCE RELIABILITY = INCREASED MARGIN



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