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How a Major Brewery and Bottling Company

Reduced Annual Maintenance Labor by 650 Hours

Challenges:

Old Maintenance Practices and Strategies Were Being Employed Throughout the Plant

Nexus Global was engaged to conduct a strategy review of the bottling line using proven maintenance and reliability principals. The overall objective was to ensure value-added maintenance practices were employed and maintenance resources were directed towards activities to improve plant throughput and reduce maintenance and downtime related costs.

The main goals were to develop and implement a company wide maintenance strategy review process and also to implement an optimized maintenance strategy for the bottling line. The results of which would benefit the company through improving throughput , reducing maintenance costs, and having an established process for ongoing M&R improvement.

- PMs had been in the system for years
- Many PMs were based on original manufacturer recommendations
- Preventable failures were occurring throughout the plant
- Many maintenance activities were being conducted too frequently
- Inefficient use of maintenance resources

Solution:

A 15-Day Workshop Was Held to Conduct a Review of the Existing Maintenance Strategy for the Bottling Line

The existing maintenance program was documented and reviewed in accordance with SAE JA1011 standard for maintenance task selection using the Nexus Global strategy optimization tool.

A failure mode review and consequence evaluation revealed the vast majority of the existing maintenance activities required modification or removal as well as the addition of new maintenance activities to address existing failures.

- Existing maintenance tasks were reviewed in accordance with the SAE JA1011 standard
- Duplicate and non-value adding tasks were removed
- Maintenance tasks added to address preventable failures that were not currently being mitigated
- Over half of the existing task intervals were increased from an average of 4 weeks to 3 months without impacting equipment reliability or safety
- Recommendations for design, safety, and process improvements were made

Results:

An Increase of >5% Throughput Was Achieved While at the Same Time Reducing Costs

The Nexus Global team was instrumental in setting the scene for future maintenance process improvements previously unobtainable.

Using technical knowledge and cultural awareness, Nexus Global worked with the company's operations and maintenance teams to improve existing maintenance practices, promote a culture of cooperation and reliability, and provide a better understanding of their equipment.

