

Mantua Group Success Story:
Steel Production



THE MANTUA GROUP
ASSET MANAGEMENT AND RELIABILITY

Company Facts
Overview

- Location – USA
- Industry – Industrial

Success Highlights
Challenges

- Asset Maintenance
- Reliability
- Output

Solution

- RCM II

Benefits

- Optimized Maintenance Strategies Codified in CMMS
- Institutionalized Culture of Reliability
- Capital Investments
- Minimized Operational Risk
- Optimized Maintenance Scheduling
- Increased Production
- Improved Quality
- Revenue Growth
- Improved Uptime
- Unlocked latent productivity



Driving Industrial Transformation Through RCM II

The Business Situation

This case study highlights the transformational impact of Reliability Centered Maintenance (RCM II) in a heavy industrial setting, led by The Mantua Group. Trained in the RCM II methodology in the 1990s under the Aladon Network — an organization founded by John Moubray, the pioneer of RCM II — The Mantua Group applied these principles to deliver remarkable operational and financial results.

At the time, The Mantua Group was overseeing maintenance operations for **14 steel** production units with an annual revenue generation of approximately **\$1 billion USD**. With a monthly maintenance budget of **\$14 million** and **170 direct reports**, the challenge was not just to maintain assets but to significantly enhance their reliability and output.

The Solution

The Mantua Group reorganized the maintenance department around the core principles of RCM II, applying a structured failure analysis approach to evaluate and revise existing maintenance strategies. Key underperforming assets with low inherent reliability were identified, and targeted capital investments were made to improve their performance.

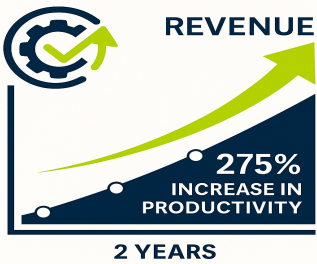
The RCM II methodology was applied through a living program model — one that continuously evolves as operational data is gathered and analyzed. Facilitated sessions involved deep-dive failure mode analysis, redesign of maintenance schedules, and improved alignment with production goals. Updated and sustainable strategies were documented and uploaded into the Computerized Maintenance Management System (CMMS) for long-term execution.

The Business Impact

The impact of this transformation was profound:

- 📈 **400% increase** in production throughput over two years
- 🎯 First-pass quality improved from **60%** to over **95%**
- 💰 Significant revenue growth, supported by greater asset uptime
- ⚙️ Sustainable, optimized maintenance strategies were codified and institutionalized in the CMMS

DRIVING
PRODUCTIVITY
AND REVENUE
WITH RCM



THE
Mantua Group



This effort uncovered and captured what is often called the 'hidden factory' — latent productivity trapped behind inefficiencies and unmanaged failure modes.

Conclusion

This case study underscores how deep technical knowledge in RCM II, paired with leadership and a data-driven methodology, can deliver remarkable results. The Mantua Group's work in this instance laid the groundwork for modern, reliability-driven asset management approaches now practiced across various industries.