

Conventional Machine Sees Improved Machine Speed, Winder Speed and Uptime with Navigator™ 64807 and Yankee Operation Intelligence



BACKGROUND

Tissue and towel makers require flexible Yankee coating programs across all machine platforms and all grade environments. Nalco Water provides tissue and towel makers with a robust portfolio of adhesive, modifier and release products. This portfolio, combined with unrivaled expertise, service and digital technology (Yankee Operation Intelligence), improves productivity, product quality and Yankee protection.

Nalco Water's Navigator™ Technology is a best-in-class Coating & Release Platform that helps tissue and towel makers take their operation to new heights. The comprehensive adhesive, modifier and release offering provides the flexibility for the entire spectrum of manufacturers, from conventional to structured and from commercial to ultra-premium products. Navigator™ allows customers to pursue what matters most to them – higher production, higher quality and lower cost.

A conventional machine producing 100 TPD in North America was looking to improve productivity. Nalco Water proposed trialing Navigator™ 64807 with the 64601 PLUS modifier to meet the customer's needs.

SOLUTION

Navigator™ 64807 adhesive and 64601 PLUS modifier were selected from our comprehensive portfolio to best deliver the productivity improvements that the customer wanted. Nalco Water's field and technical expertise, combined with our robust portfolio, allows us to optimize programs for individual needs.

Yankee Operation Intelligence provides greater visibility on the machine asset that matters most. This offering includes software and hardware that monitors creping and cleaning blades, providing actionable insights so that operators can make more informed decisions. Customers can monitor creping and cleaning blades, detect chatter and benchmark performance to improve coating efficiency.

ANNUAL SAVINGS



PRODUCTIVITY

Increased Machine Speed Uptime

6%

Increased Winder Speed Uptime

2.6%



HUMAN HEALTH & SAFETY

Reduced dusting & fire hazard

TOTAL VALUE DELIVERED

>\$1,400,000

Compared to common PAE programs, Navigator™ 64807 coupled with Yankee Operation Intelligence provides:

- **INCREASED** machine productivity with reduced breaks, extended blade life and enhanced dryer protection
- **IMPROVED** runnability through better transfer and stability
- **MONITORING** for vibration, chatter and blade usage to protect the Yankee
- **FLEXIBILITY** to operate across machine platforms and grade environments

RESULTS

Nalco Water trialed and implemented Navigator™ 64807 and created value for the mill:

- Increased machine speed by 6% and winder speed by 2.6%, approximately \$1.4M
- Improved machine runnability and reduced edge build-up
- Maintained blade performance and identified insufficient doctor loading using Yankee Operation Intelligence
- Improved sheet profile at higher speeds
- Reduced dusting & fire hazard

All these benefits yield a Total Value Delivered of greater than \$1.4 Million.

CONCLUSION

Our Navigator™ product-line provides significant benefits to all machine platforms with a simplified and flexible program. Navigator™ 64807 is only one product in the robust portfolio of Yankee adhesive, modifier and release products that Nalco Water offers.

Machine Speed

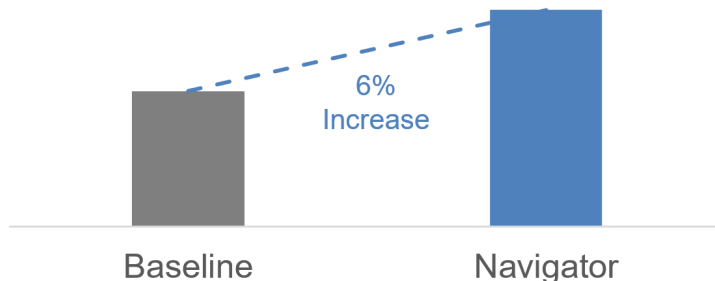


Figure 1: The machine speed trends before and after the Nalco Water Treatment Program

Winder Speed

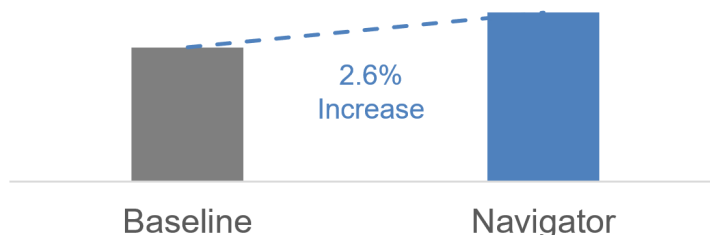


Figure 2: The winder speed trends before and after the Nalco Water Treatment Program.

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