

EXECUTIVE BRIEFING

5 SIGNS YOU NEED OPTIMIZATION

How Scheduling Technology Enhances Asset Utilization in Your Plants



How competitive is your business?

BUSINESS FIRST

Petrochemical companies have spent a significant amount of money to build assets that manufacture and distribute goods based on customer demand—and they expect a return on that investment.

GAIN A COMPETITIVE ADVANTAGE

Get the most out of your existing assets and reduce pain points that plague your end-to-end processes. Investing in best-of-breed technology will streamline your business processes by helping you run your plants at full capacity while optimizing profitability.

Are you achieving these best-in-class goals at your plant?



Maximizing Prime Production

Plants operate at full capacity to increase profitability.



Minimizing Downtime

Lost production with assigned dollar values.



Optimizing Product Wheels

Specific sequences for making products.



Reducing Off-Spec Product

Output during transitions that is lower grade than normal.

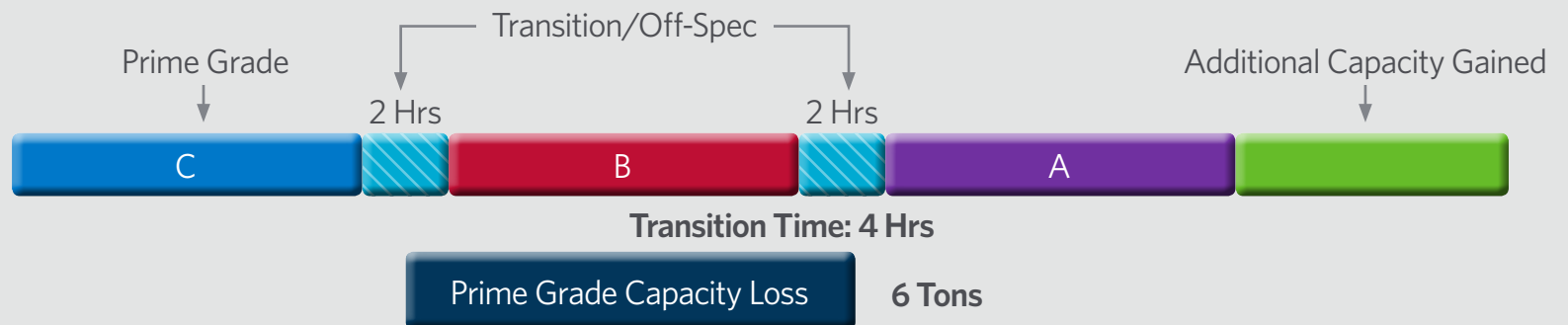
How do you create an optimal schedule?

It's likely that you spend hours constructing a schedule sequence that adheres to a fixed product wheel without much insight into whether it is capacity feasible and respects all constraints. Better utilize capacity and increase throughput with an optimal production sequence.

Sub-optimal Sequence



Optimal Sequence



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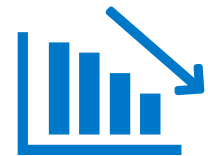
Failure to use the full flexibility of the plant

Trade-offs between the production sequence and fulfilling demand



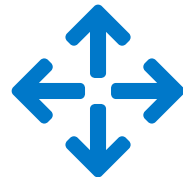
Customer service suffers

Not having inventory when a sales opportunity arises



Inefficiency and lost productivity

Labor intensive schedule creation



Lost capacity

Sub-optimal transitions eat up capacity that could be used to make prime product



Significant off-spec production

Slow moving inventory must be sold at a discount



Let scheduling technology optimize your assets.

EASILY MANAGE THESE FACTORS

- ✓ Transition cost and time (sequence dependent)
- ✓ Campaign mix/max length
- ✓ Production cost by asset (older vs newer technology)
- ✓ Cost of product run-out (customer service cost)
- ✓ Shared resource constraints
- ✓ Simultaneous sequencing across multiple facilities

What is Sequence Optimization Worth?

CUSTOMER BENEFIT STUDY

OF TRANSITIONS/YEAR
DECREASED

9%

OFF-SPEC/YEAR
DECREASED

18%

TRANSITION TIME/YEAR
DECREASED

28%



Conclusion

Best-of-breed supply chain software has morphed from a nice-to-have to a must-have in today's competitive market. Companies need technology that can adapt to today's volatile markets.

Incorporating a holistic approach to integrate operations management methodologies in order to optimize people, assets, and processes is essential for sustaining plant operations and supporting production efficiency.

For more information:

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