Turnaround's A NOVA Chemicals Joffre Perspective

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NOVA Chemicals – Quick Stats

- NOVA Chemicals
 - Focused on commodity plastics and chemicals through: Safety
 - Olefins/Polyolefins/Styrenics
 - 18 facilities Canada, United States, France, United Kingdom, Netherlands
- NOVA Chemicals (OPOL)
 - Ethylene (#6 in NA 6.4B #'s)
 - Polyethylene (#5 in NA 3.4B #'s)

NOVA Chemicals – Quick Stats (Cont'd)

- Joffre Alberta
 - 6 plants on one site
 - 3 Ethylene (4.9B #'s)
 - 2 Polyethylene (2.1B #'s)
 - 1 Hydrogen Compression
 - T/A frequency varies from 2 to 6 years

Safety

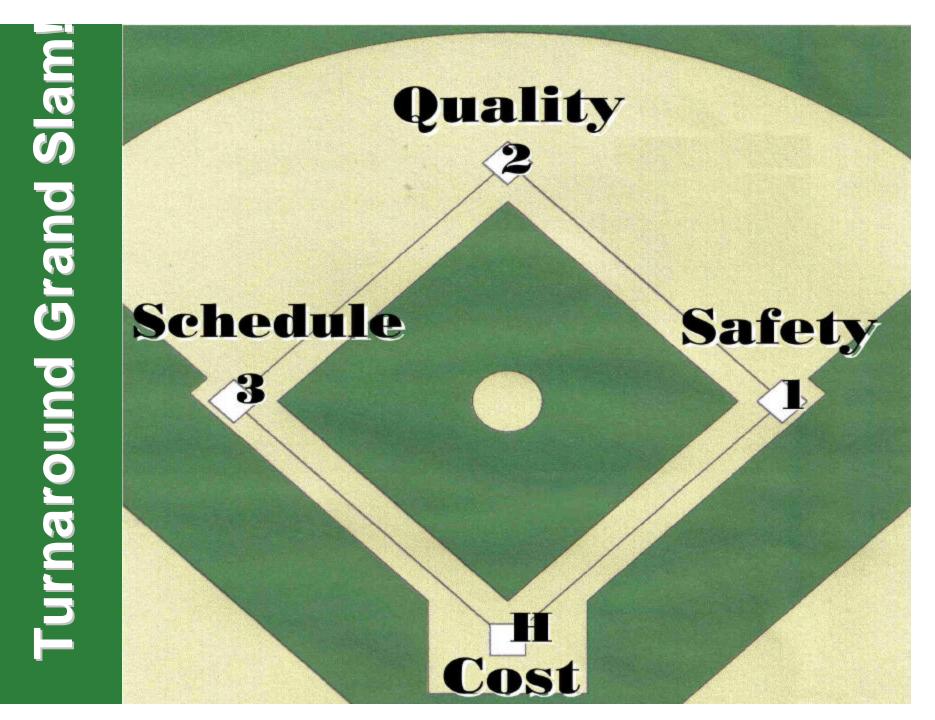
- Also have shared infrastructure with
 - Co-generation facility, Innovene LAO

Getting Your Head in the Game

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Time limited	Keeping score	Salary Cap	Injury list
Key Players	Team work	Preparation	Systems
Role Players	Emotions	Monday Morning Quarter Backs	Professionals
Coaching Staff	Play Position	Protective Equipment	Fun & Hard Work
Rules	Special Teams	Benched	Celebration!
Cost			

Why Have a Turnaround?

- Re-establish plant capacity
- Perform Regulatory Inspections
- Complete Corrective/Preventive Maintenance and Project work that can only be completed when the plant is offline





• Planning Schedule • Execution



Close Out



Fight Slam UL'ILG ULLC

Planning

- Timing (approx. 20 months prior to FO)
- Strategy Development
 - Duration, Cost or Schedule driven, Hierarchy of decision making, identified asset owner, high level scope, milestones etc.
- Integration of expense, capital and operations
- Packages (detail, integration etc)
- Vendor selection and materials selection
- Team building
- Contractor strategy and selection
- Preparedness Audits

Execution

- A 'play book'
- Scope Management (Added and as-found)
- Orientations Management, plant personnel, contractors
- OH&S (Responsible Care) re-enforcement plan
- Share how success will be measured
- Measure progress isolate to work center level
- Systems must be developed to allow flexibility
- Carefully plan the electrical outages must be executed flawlessly

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Close Out

- Complete Evaluations
 - Vendors
 - Services
 - Discipline leadership
- Hold a Captured Learnings Session
 - Implement the most important
- Develop the Scope for the Next T/A
 - Equipment inspections etc.
- Celebrate

Vendor Expectations / Adding Value

- Focus on Safety
 - From the delivery driver, to the worker in the field, to management
 - Ensure everyone knows the expectations of client and yourself
- Weather
 - Prepare for the worst, hope for the best

Vendor Expectations/Adding Value (cont...)

- Materials/Rentals
 - Double check accuracy of PO
 - Ask questions
 - Deliver on time
 - Know your equipment, be available to support

Safety

- Ensure it is reliable
- Ensure the integrity of the equipment share bad news early
- Be connected to upstream & downstream vendors

Vendor Expectations/Adding Value (cont...)

- Services on Site
 - Ask for packages
 - Read the packages
 - Question inconsistencies or things that don't make sense
 - Provide realistic estimates (time and materials)
 - Know the difference between a budgetary estimate and a quote - ask

•Questions?

Cost

Schedule

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