



Mechanical Work & Turnarounds

CAP Meeting – Sept 20th, 2017

Gord Bruce – Turnaround Team Lead / Event Manager

What are Turnarounds?

- Turnarounds are complex, short-term mechanical events to complete work that cannot be done whilst the refinery unit is online.
- The Facilities Design and Engineering teams spend 5 years planning for the capital installations within a turnaround and the Turnaround team spends 2-3 years planning every hour of execution for the event itself. Since some (or all) of the refining units are offline during a turnaround, the refinery is not making as much product. Therefore, there is an understandable urgency to be as safe and efficient as possible with turnaround execution.



2018 Turnaround – Work

- Compliance equipment inspections and repairs
- Replacing equipment that is approaching end-of-life
 - Example: Replacement flare knock-out drum, replacement flare stack and tip
- Catalyst changes



2018 Turnaround

- 1st Quarter 2018
- The shutdown involves the entire refinery, however the different units are brought offline in a staggered fashion so as to manage flaring and ensure that the equipment is properly cleaned
- Expected maximum contractor headcount – 600/shift, 2x10hr shifts/day

Mechanical Trades

- Folks with “red-seal” tickets from a skilled trade union
 - Pipefitters
 - Boilermakers
 - Welders
 - Iron workers
 - Electricians
 - Scaffolders
 - Crane Operators
 - Etc.





Specialty Trades

- Companies that have a specialty beyond the typical trade definitions
 - Mechanical and Smart Pigging
 - Catalyst handling
 - Machinists
 - Non-Destructive Examination Technicians
 - Chemical Cleaning Experts
 - Rescue Crews



Other resources supporting the Turnaround

- Event leadership
- Mechanical Field Coordinators
- Technical specialists – Subject Matter Experts
- Safety representatives
- Engineers

- Ultimately, the entire site comes together in service of one common goal – Execute the 2018 Turnaround in a safe, environmentally responsible and predictable fashion.