

Process Flow Analysis

Westgate Facility

Tools Available

- Process Flow (Spaghetti) Diagram
- Value Stream Map
- Process Map
- Operation Process Chart
- Standard Work Observation
- Process Flow Chart
- Cross-functional Process Map (Swimlane Diagram)
- Standard Worksheet
- Man-Machine Chart

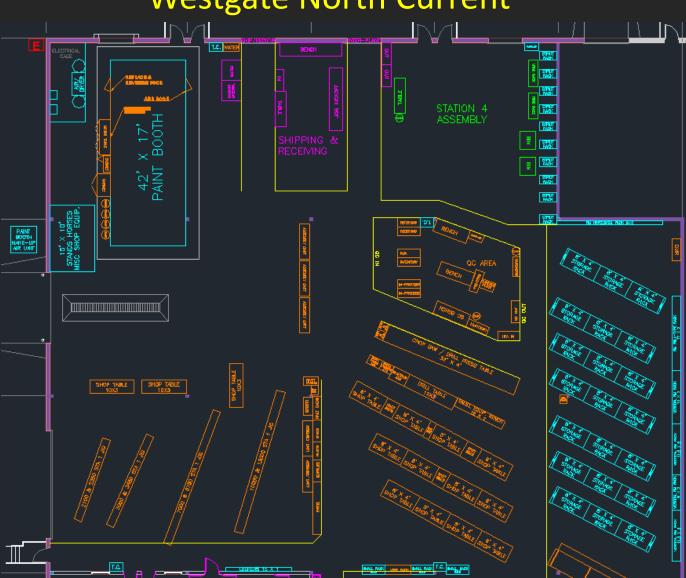
Spaghetti Diagram

- A spaghetti diagram is a visual representation using a continuous flow line tracing the path of an item or activity through a process. The continuous flow line enables process teams to identify redundancies in the work flow and opportunities to expedite process flow.
- Another benefit of the visual drawing is to highlight major intersection points within the room. Areas where many walk paths overlap are causes of delay
- By Ron Bialek, Grace L. Duffy, and John W. Moran, American Society for Quality
- Downloaded 6/17/2013 from:
 - http://asq.org/learn-about-quality/process-analysis-tools/overview/spagnetti-diagram-htm

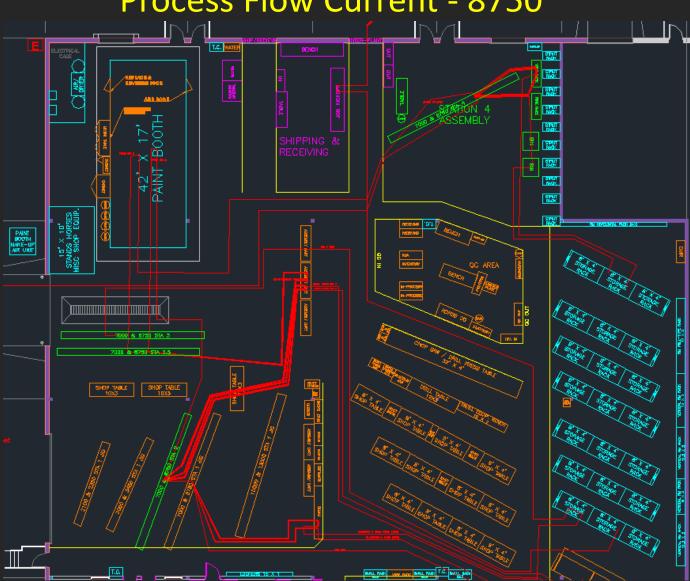
Process Flow (Spaghetti) Diagram

- Focus on material movement vs. people & information
- Focus on Final Assembly initially
- Map each major model (based on station 1 jigs)
- Baseline is distance travelled; watch for crossing paths
- Evaluated various what-if scenarios to:
 - Reduce distance
 - Eliminate crossing paths
- Distance is a predictor of multiple factors
 - Number of transactions
 - Walk time & interruptions
 - Visual control
 - Non-value activities (wait, motion, excess inventory, defects)

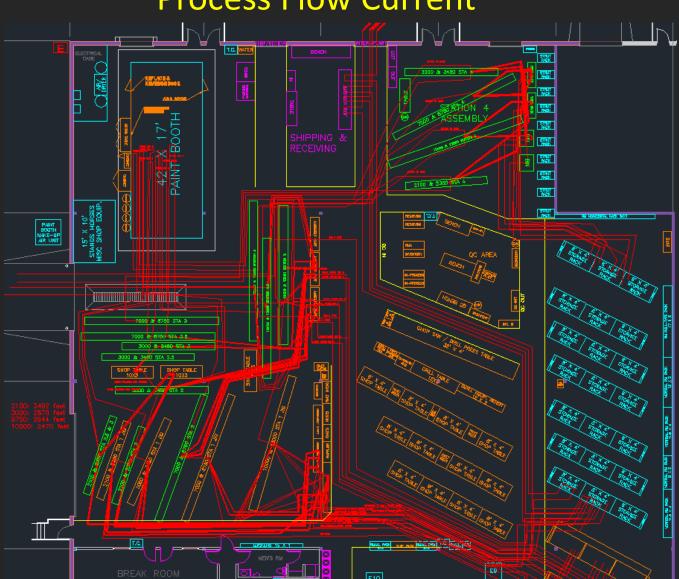
Westgate North Current



Process Flow Current - 8750



Process Flow Current



Distance Travelled

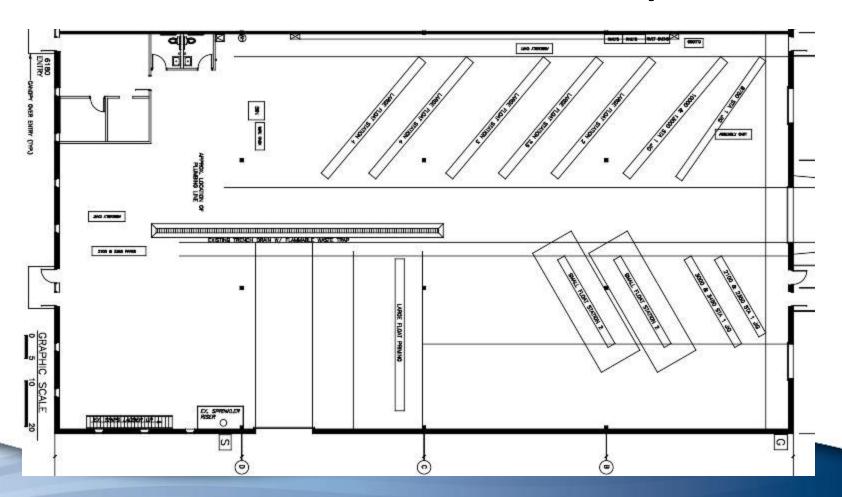
Model	Current (feet) *
2100, 2350	3492
3000, 3450	2870
7000, 8750	2944
10000, 13000	2470

^{*} Does not reflect unnecessary moves that are common

Current Assembly



Future Final Assembly



Future Final Assembly



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