TerminalScheduler®

The total solution for managing terminal movements, tankage, and critical assets.

THE ULTIMATE SOLUTION FOR:

- Managing nominations
- Cycling planning to determine movements
- Determining tank positions
- Predict and track quality
- Blending and mixing complex strategies
- Avoid asset conflicts
- Determine pumping times
- Manage in-terminal linefills
- Schedule truck and rail loading activities
- Manage dock utilization

ENABLES CUSTOMERS TO:

- Track shipper progress
- Manage tanks
- Determine flow routes
- Manage use of terminal equipment
- Complex cycle planning
- Generate pumping orders
- Blending

TerminalScheduler is a member product in the Liquid Management Solutions suite of products and is tightly integrated with:

- Synthesis®
- PipelineScheduler®
- TransportPlanner™
Better Usage, Better Efficiencies, Better Value

An active tank terminal can be a veritable beehive of activity. Dozens of independent operations can happen concurrently, each involving multiple activities and serviced by numerous physical assets such as pumps, valves, and pipe headers. These hundreds of assets may be shared between potential operations, and attention must be paid lest one operation interfere with another. Careful scheduling is needed to avoid costly delays or even costlier product contamination.

TerminalScheduler is a full-featured software system for planning and scheduling operations within a tank farm or terminal. It organizes and consolidates all of the information needed to perform both long term and short term scheduling. Nominations and monthly plan volumes are processed into schedules and progress against the plan tracked on a daily basis. Tank volumes and qualities are predicted and tracked, including considerations for blended qualities as differing volumes are mixed in-line or in the tanks. Tools are provided to facilitate routing selection and coordination of terminal assets. Linefill volumes are managed and basic work order requirements can be produced.

Features

- **Track Shipper Progress**
  Plans made based on the original monthly volume is tracked against the current measured volumes, allowing easy determination of whether a shipper is on target to meet the schedule.

- **Manage Tanks**
  Volumes in and out of the tanks and tank pools are made and the volume and quality in the tanks are predicted and then tracked over the month. Inside of tank pools default switching algorithms are available to suggest operational plans as the member tanks fill or empty.

- **Flow Routes & Employed Assets**
  Flow is routed through the terminal, passing through the several assets. These routes may be stored for later use or new routes can be created ad hoc as needs demand. Asset conflict is prevented and warnings and alerts protect against product contamination.

- **Complex Cycle Planning**
  As the several tanks in the terminal fill and empty at unequal rates, predicting when movements must be made can be complex. Algorithms are available that can produce shipping plans that maintain the volume health in the tank collective.

- **Generate Pumping & Work Orders**
  The schedule produces pumping orders indicating the relevant information provided by the scheduler and produced by the scheduling simulator. Manipulation of each asset, as predicted by the schedule, produces work order data which is reported and suitable for insertion into a formal work order tracking system.

- **Boutique Product or Crude Blends**
  With a collection of tanks holding volumes of different quality, the system uses an embedded optimization capability to produce blending orders that will produce the desired target quality at the lowest price.