“I CAN IMPLEMENT EMERSON’S TANK MANAGEMENT SOLUTIONS INCREMENTALLY AND WITH SOLID ROIs”
WHAT ARE OUR CUSTOMERS’ CHALLENGES?

MANUAL ERRORS
Inaccurate manual measurements and recordings trigger time-consuming and expensive third-party inspections, as well as demurrage charges.

HYDROCARBON LEAKS
Corrosion or mechanical stress causes tank walls to leak hydrocarbon product, resulting in toxic releases, fires, and other hazardous incidents.

UNDERUTILIZED TANK SPACE
When volume, density, and other properties are unclear, tank space is wasted.

POOR COMMUNICATION
Key personnel rely on different databases for the same information at the same time, impairing product movement and overall operations.

UNSCHEDULED DOWNTIME
Stuck valves, product movement errors, and other equipment problems can lead to slowdowns, shutdowns, missed production schedules, safety risks, maintenance costs, and reportable incidents.

HYDROCARBON VAPOR RELEASES
Vapor recovery unit failures and valve leaks cause toxic releases, fires, reportable incidents, and fines.

OVERFILLS
Measurement errors and inadequate prevention systems lead to overfills and related safety risks, environmental fines, cleanup costs, and public relations expenses.

PRODUCT DEGRADATION
With inadequate blanketing, oxidation creates safety risks and reduces product quality.

WOULDN’T IT BE BETTER IF YOU COULD INCREASE TANK AND PROCESS VISIBILITY AND...

Maximize storage in lines and tanks
Account for 100% of the volume in your lines and tanks
Avoid losses
Detect leaks early
Remove people from the tops of tanks
Reduce equipment downtime

OUR CUSTOMERS REALIZE THE VALUE BY AVOIDING...

Product Loss
Product Contamination
Product Degradation

$4.5M
in avoidable incident costs
Emerson maintains a complete portfolio of solutions that can address your tanks and terminals needs and challenges.

The numbers below correspond to the those in the diagram.

1. **CORROSION MONITORING**
   Roxar corrosion monitoring

2. **FIRE & GAS DETECTION**
   Net Safety combustible gas sensors
   Net Safety optical flame detectors
   Net Safety toxic gas sensors

3. **FLAME & DETONATION PREVENTION**
   Enardo detonation arrestors
   Enardo flame arrestors

4. **BLANKETING GAS & VAPOR FLOW MONITORING**
   Micro Motion Coriolis flowmeters
   Rosemount multivariable flowmeters
   Rosemount differential pressure flowmeters

5. **OVERFILL PROTECTION**
   Bettis actuators
   DeltaV SIS and digital automation systems
   Fisher digital valve controllers
   Fisher valves
   Rosemount Tank Gauging radar level gauges
   Rosemount vibrating fork liquid level switches

6. **OVERPRESSURE/VACUUM CONTROL**
   Enardo emergency pressure/vacuum relief vents
   Enardo pressure and vacuum relief valves
   Rosemount acoustic indicator transmitters

7. **LEAK DETECTION & PH MONITORING**
   Rosemount Analytical conductivity transmitters and sensors
   Rosemount Analytical pH/redox transmitters and sensors
   Rosemount transmitters with TraceTek sensor

8. **STEAM FLOW MONITORING/HEATING AND COOLING**
   Fisher valves
   Rosemount differential pressure flowmeters
   Rosemount vortex flowmeters

9. **TANK BLANKETING & VAPOR RECOVERY**
   Fisher vapor recovery regulators
   Fisher tank blanketing regulators
   Emerson Climate Technologies vapor recovery unit

10. **TANK GAUGING SYSTEM**
    Rosemount pressure transmitters
    Rosemount Tank Gauging level gauges and transmitters
    Rosemount Tank Gauging temperature transmitters
    Rosemount Tank Gauging temperature and water-level sensors

11. **WATER DRAIN & VALVE MONITORING**
    Fisher valves and wireless position monitors
    Rosemount vibrating fork liquid level switches
    Virgo valves and controls

12. **INVENTORY & PROCESS MONITORING**
    Syncade
    DeltaV
    TankMaster
“RESULTS SHOW FASTER ORDER HANDLING AND AN EFFICIENCY IMPROVEMENT OF UP TO 30%. WE ALSO BELIEVE THAT SAFETY HAS IMPROVED.”

-Vopak

“WE SHORTENED TRUCK TURNAROUND TIME TO LESS THAN TWO HOURS, AND DECREASE OPERATING COST BY APPROXIMATELY 20%.”

-Shell Terminals