TECHmission

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("Commitment to customer's mandate, Expectation and satisfaction")

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Reference Case: Success Story

Chlorine Tonner Filling Management System

(**Empowering Progress with Intelligent Automation**)

Preface:

Chlorine tonner filling operations relied on manual monitoring and fragmented records, making tonner tracking, inspection, and filling history difficult to manage. Limited real-time visibility also increased the risk of leakage, overfilling, and human error.

The Challenge — Without an Automated System:

In the existing chlorine tonner filling process, operations were depended heavily on manual monitoring and fragmented record management. Tonner history, inspection status, and filling records were maintained separately, making it difficult to track the complete tonner lifecycle.

Without real-time monitoring and automated safety controls, the process faced increased risks of:

- Manual errors during filling and tonner handling
- Potential chlorine leakage
- Tonner overfilling due to manual control
- Limited visibility of filling and tonner movement
- Incomplete inspection traceability
- Delayed reporting and decision-making
- Lack of clear accountability across the process

This created a need for a safer, more reliable, and digitally traceable solution.

The Solution -

With Automated Tonner Management:

SOLUTION:

Techmission implemented a Rockwell-based automated Chlorine Tonner Filling & Management System to transform the filling operation into a safe, connected, and traceable process.

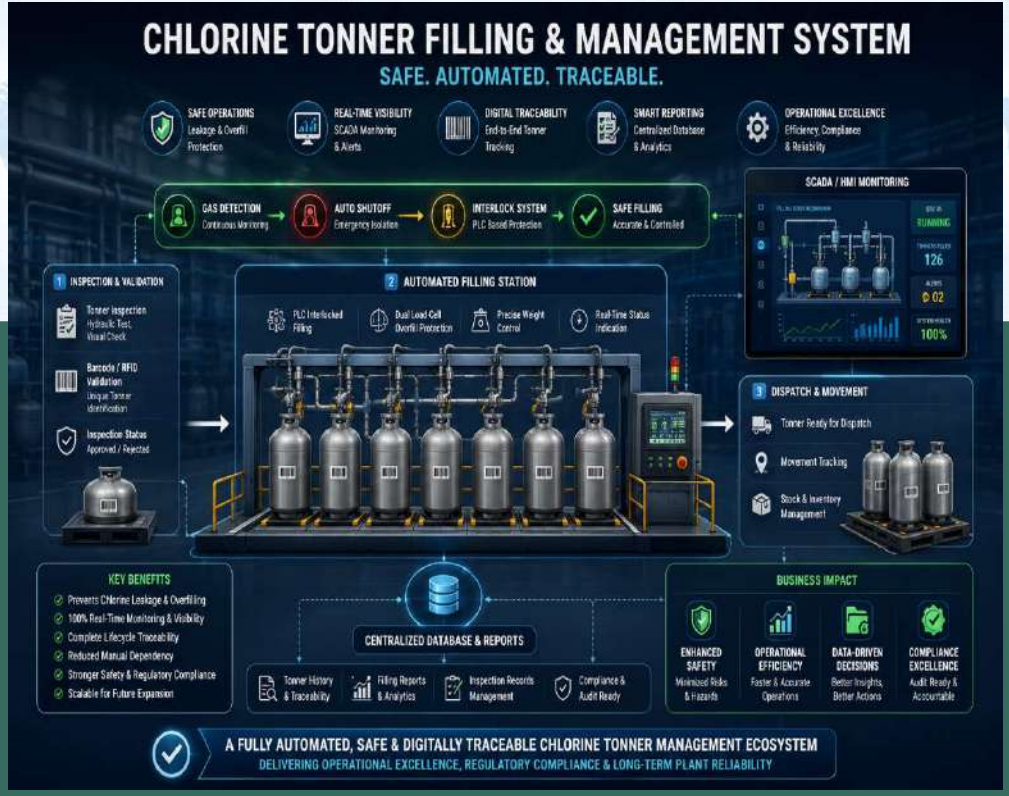
The system provides:

- ✓ Fully automated PLC-interlocked filling
- ✓ Real-time SCADA monitoring
- ✓ Dual load-cell-based overfill protection
- ✓ End-to-end digital tonner tracking
- ✓ Barcode/RFID-based tonner validation
- ✓ Gas detection with automatic isolation
- ✓ Hydraulic test interlocks
- ✓ Centralized database reporting and traceability

The solution was implemented multiple filling posts using a phased, post-by-post approach, enabling the plant to upgrade the system without disrupting production.

OUTCOME:

The project delivered a **fully automated, safe, and digitally traceable chlorine tonner management ecosystem**. By integrating inspection, filling, tracking, and dispatch into one connected system, the plant achieved improved safety, stronger accountability, better operational visibility, and enhanced compliance readiness.



Business Impact:

Without Automation	With Automated System
Manual filling control	PLC-interlocked automated filling
Limited process visibility	Real-time SCADA monitoring
Risk of overfilling	High-high weight trip protection
Fragmented tonner records	Complete digital traceability
Manual validation	Barcode/RFID tonner validation
Reactive safety response	Automated gas detection and isolation
Delayed reporting	Centralized database reporting
Difficult audit tracking	Complete inspection and filling history