

# Tank Survey Identifies Thousands Lost in Vented Nitrogen

## RESULTS

- More than \$500K nitrogen savings per year
- Improved performance of tank blanketing regulators
- A 40% reduction in vented nitrogen

## APPLICATION

Tank blanketing liquid storage tanks with nitrogen

## CUSTOMER

Chemical plant located in the Texas gulf coast

## CHALLENGE

Chemical plant operations noticed a significant rise in nitrogen cost throughout the year and approached Emerson's local sales office to help evaluate tank blanketing regulators on more than 40 tanks in the tank farm area to identify potential nitrogen savings.

## SOLUTION

Emerson's local sales office agreed to conduct a tank survey, which is an in-field review of each tank's pressure control system. This survey included a review of each device's physical condition, sizing based on API 2000, and installation as compared to industry best practices. In addition, each device was function tested in the field to verify operability and setpoint.

The survey identified non-functioning regulators venting excess nitrogen to atmosphere, improperly sized regulators, and installation practices resulting in poor regulator performance. By implementing the local sales office's recommendations, the customer was able to save more than \$500k per year in nitrogen cost.



*During a tank survey, Emerson Process Management and local sales office personnel visit the field at a customer's facility to evaluate tank management equipment and functionality. Recommendations are made based on the application's specific service conditions.*



*A Texas gulf coast chemical plant was able to save more than \$500k per year after a tank survey identified vented nitrogen loss.*



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When a tank survey is conducted, the customer receives a detailed report of pressure control improvements based on an in-field review of their tank pressure control systems.

Tank survey reports are custom formatted for each customer and typically consist of:

- Product repair or replacement recommendations
- Installation best practices
- Correct product orientation guidelines
- Sensing line considerations
- Material compatibility review
- Tank in-breathing and out-breathing calculations based on API 2000

To learn more about Emerson services and solutions, visit [www.emersonprocess.com](http://www.emersonprocess.com). To schedule a tank survey, contact your sales office.

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**Emerson Process Management Regulator Technologies, Inc.**

**Americas - Worldwide Headquarters**

3200 Emerson Way  
McKinney, Texas 75070 USA

T: +1 800 558 5853

T: +1 972 548 3574

F: +1 972 542 6433

[www.emersonprocess.com/regulators](http://www.emersonprocess.com/regulators)

**Europe**

T: +39 051 419 0611

**Asia Pacific**

T: +65 6770 8337

**Middle East**

T: +971 4811 8100

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