

Refinery Improved Safety and Plant Availability with High Accuracy Saturn™ Sensing Technology

RESULTS

- Improved refinery safety
- Reduced production interruptions
- Lowered operating costs



APPLICATION

Furnace safety shutdown system

CUSTOMER

Leading refinery in Southeast Asia

CHALLENGE

This refinery was having problems with reliable furnace pressure measurements, which caused false alarms and trips of the fuel safety shutdown system. The customer wanted to correct these problems in the new grassroots refinery.

Safe operation of this furnace requires a reliable pressure measurement. The pressure transmitters in the existing refinery were unreliable, unstable and they were causing false trips of the safety shutdown system.

These false trips caused several negative business impacts. The unreliable shutdown signals were a high safety risk, which could cause a refinery fire or explosion. Also, they presented a risk to unwarranted production interruptions, and increased operating costs due to frequent startups.

SOLUTION

The customer solved this problem in their new grassroots refinery by installing Rosemount 3051S Pressure Transmitters, which are well suited for this SIL 3 critical application. The 3051S is safety certified to IEC 61508, accurate, stable, and has unprecedented reliability. This transmitter is ideal for the 2 out of 3 (2oo3) voting configuration used for their furnace fuel safety shutdown system. Saturn™ Sensing Technology utilized in the Rosemount 3051S incorporates a secondary sensor to optimize performance and expand diagnostic capabilities.

The Rosemount 3051S helped this refinery eliminate false trips of the safety shutdown system.



The safety certified Rosemount 3051S Pressure Transmitter for furnace fuel safety shutdown system (2oo3 redundancy)

ROSEMOUNT®

For more information:
www.rosemount.com


EMERSON™
 Process Management

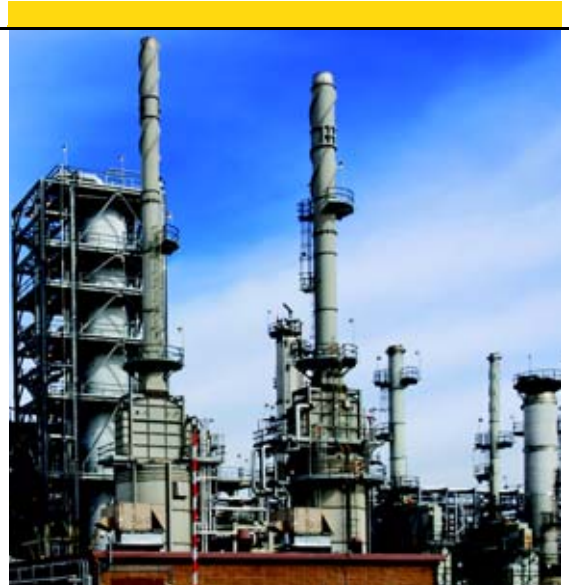
REFINING

The accuracy, stability and reliability of the Rosemount 3051S helped this refinery eliminate false trips, which significantly improved plant safety and availability by avoiding unnecessary shutdowns and risk of fire and explosions. Operating costs were also reduced by minimizing unnecessary furnace startups.

RESOURCES

Rosemount 3051S Series of Instrumentation

<http://www.rosemount.com/3051S>



Refinery Heater

The Emerson logo is a trade mark and service mark of Emerson Electric Co. Rosemount and the Rosemount logotype are registered trademarks of Rosemount Inc. All other marks are the property of their respective owners.

Standard Terms and Conditions of Sale can be found at www.rosemount.com/terms_of_sale

Emerson Process Management

Rosemount Division
8200 Market Boulevard
Chanhassen, MN 55317 USA
T (U.S.) 1-800-999-9307
T (International) (952) 906-8888
F (952) 949-7001

www.rosemount.com

Emerson Process Management

Blegistrasse 23
P.O. Box 1046
CH 6341 Baar
Switzerland
Tel +41 (0) 41 768 6111
Fax +41 (0) 41 768 6300

Emerson FZE

P.O. Box 17033
Jebel Ali Free Zone
Dubai UAE
Tel +971 4 811 8100
Fax +971 4 886 5465

Emerson Process Management

Emerson Process Management Asia Pacific
Private Limited
1 Pandan Crescent
Singapore 128461
T (65) 6777 8211
F (65) 6777 0947
Enquiries@AP.EmersonProcess.com

ROSEMOUNT[®]

For more information:
www.rosemount.com


EMERSON[™]
Process Management