

Floating Roof Monitoring

Increased safety with continuous surveillance of floating roof movements

WHAT IF...

you could be sure your floating roof tank is operating safely?

Radar level devices can give you an **early warning** if the roof starts tilting or is not draining properly.



CHALLENGES



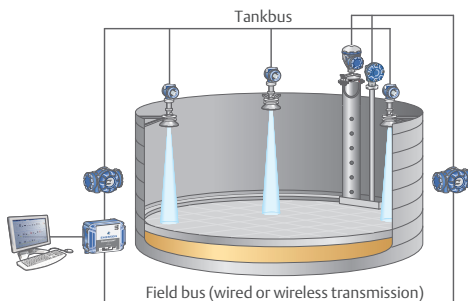
Photo courtesy of www.ASTanks.com

Improper draining can severely disturb roof operation.

Floating roofs on storage tanks offer advantages in terms of reduced need for vapor recovery, but can also create operational and safety issues. A sinking, tilting, leaking or collapsing roof can cause significant mechanical damage, create overfills, and release explosive hydrocarbon vapor. The product in the tank may also become contaminated.

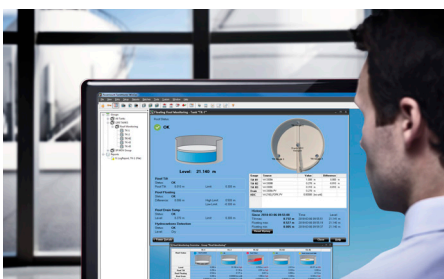
The causes of tank malfunction may be that the roof is stuck due to damaged or incorrectly mounted rim seals. Leaking pontoons, overfills, strong winds, and inadequate draining during heavy rain or snowfall can also dangerously affect buoyancy and roof position.

OUR SOLUTIONS



Automatic floating roof monitoring with radar.

- Monitor roof position and tilt with radar devices mounted on the tank top or the floating roof
- Get alarms for roof tilting and other hazardous tank conditions
- Combine with liquid level measurement in a still-pipe for complete tank overview and overflow prevention
- Use wireless or wired signal transmission to the control room
- Integrate with operator interface including complete tank gauging and inventory management in the control room



Operator checks tank conditions in real time.

Rosemount™ 3308
Radar Level
Transmitter



Rosemount 5408 Radar
Level Transmitter



Rosemount 5900C Radar Level Gauge



