PTAC - Storage tanks
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Storage Tank Options

The different types of atmospheric storage tanks (<15 psig) that are being used in at UOG sites, refineries and chemical plants:

• Open Top Tanks
• Fixed-Roof Tanks
• Floating-Roof Tanks
In- and Out-Breathing

- **In-Breathing** → Vapor space cooling down/contracting and pump-out
- **Out-Breathing** → Vapor space heating up/expanding, flashing and pump-in
What are “Tank Top” Pressure Management Devices?

- Limit tank pressure & vacuum
- Low pressure applications below 15 psig
- Typically used on storage tanks
- A reclosing device to prevent further flow of fluid after normal conditions have been restored
Better indication of failures of tank top devices

Tank top pressure control devices, including emergency devices, **have historically remained un-monitored** leaving operators blind to potential problems and pressure events.

Tank owners reported gas detection and visual inspection as a primary method of discovering tank pressure control problems.
Wireless is Bringing Visibility to the Tank Top

With Monitored Devices Operators Can
• Detect Failures
• Detect abnormal pressure events
• Troubleshoot pressure control problems
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