



Committed to Safety

- Design of pickling strategy for steel, plastic or internally coated pipelines
- Possible start-up with no venting or flaring of natural gas
- Turn-key operation and control of start-up if required
- Odorant injection using:
 - Continuous flow-proportional injection
 - Controlled volume injection
- Process monitoring
- Data collection and reporting
- Odorant concentration measurement using:
 - MRR OdorTracker
 - Stain tubes
 - GC
- Liquid and vapor injection technology

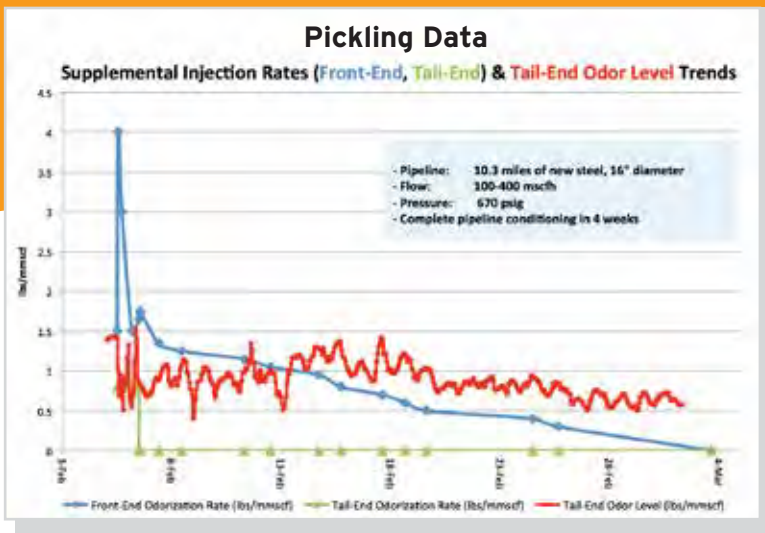
Safety First!

Newly installed steel gas pipelines should be pickled prior to being put in service in order to prevent odor fade and deliver odorized gas to end-users.

Odor fade is caused by odorants reacting with rust and mill scale inside new steel pipes, thereby producing less odorous products.

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www.mrrus.com





Pickling

Safer | Faster | Lower Cost

Industry experts design pickling strategy with state-of-the-art tools.

MRR utilizes the industry's best practices:

- Front-end odorizer for pickling
- Tail-end odorizer to make up for odor fade
- Tail-end OdorTracker mercaptan monitoring system for accurate make-up odorization. The OdorTracker has a built-in communications system and webserver to allow remote monitoring.

Pickling occurs more rapidly, and gas is sold instead of flared. This gas will be odorized to the correct levels so there are no concerns about safety due to under-odorization or false leak calls due to over-odorization. Remote monitoring and text/e-mail alerts provide confidence 24/7.



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