

TC Energy's Pipeline Integrity Management Program



TC Energy is very proud of its safety record. Our safety programs and operational philosophy have protected the public and the environment for more than 60 years.

At the same time, the company is aware of public concern about pipeline safety. Specifically, people want to know if a pipeline incident will affect them.

Every situation is unique, but TC Energy's safety procedures and pipeline integrity management program have served it and its pipeline neighbors well over the years.

Here are some things you should know about pipelines and about TC Energy's approach to safety:

- Statistics compiled by the U.S. Department of Transportation confirm that the age of a pipeline is not a leading cause of pipeline incidents. On the contrary, well-maintained pipeline can operate safely for decades.
- Regulations for pipeline materials and operation are different in rural and urban areas. In general, pipelines in urban areas are thicker and inspected more frequently than those in the open countryside.
- The vast majority of TC Energy's pipelines are in rural areas well away from population centers.
- TC Energy uses the best construction practices when building pipelines. All pipe is pressure-tested to a pressure well above normal operating pressure before being put into operation.
- All of our pipelines are monitored 24 hours a day by trained operators who respond immediately to any indication of abnormal operation.
- Our pipelines are cathodically protected, which means a low-voltage electric current is induced in the vicinity of the pipeline to inhibit external corrosion.

- Special internal monitoring tools are used to detect anomalies involving loss of wall thickness, including corrosion. When certain anomalies are detected, the pipeline segment in question is excavated and visually inspected. It is either repaired on the spot or replaced. Internal inspection tools, called "pigs," are pushed along inside the pipeline using the pressure of the natural gas itself. These tools can be used to clean and dry buried pipeline and – through a variety of methods – inspect the pipe's integrity.
- Pipeline right of way is routinely patrolled from the air. Ground patrols with hand-held leak detectors are also employed in some instances.
- The pipeline industry is strictly regulated for safety. TC Energy's assets are routinely audited by relevant state, provincial and federal agencies.

For additional information about pipeline operations and safety, please visit the following web sites:

- American Gas Association
www.aga.org
- Interstate Natural Gas Association of America
www.ingaa.org
- Pipeline and Hazardous Materials Safety Agency
www.phmsa.dot.gov
- Federal Energy Regulatory Commission
www.ferc.gov