

**T.D. Williamson****Corporate Headquarters**

6120 South Yale  
Suite 1700  
Tulsa, OK 74136-4235  
UNITED STATES  
Ph: +1 918 447 5001  
Fax: +1 918 447 5050

[www.tdwilliamson.com](http://www.tdwilliamson.com)  
ISO 9001 Certified

**T.D. Williamson Receives Patent for Positive Material Identification Process*****Company's 680th Patent Enables Material Verification Using Non-Destructive Technique***

Tulsa, OK, (May 9, 2018) -- Global pipeline solutions provider T.D. Williamson (TDW) received a patent for its industry-leading Positive Material Identification (PMI) process from the U.S. Patent Office.

The PMI process, patent number US 9,880,056, uses a variety of non-destructive tools and techniques to generate traceable, verifiable and complete pipe records for in-situ pipe material verification, providing trusted results along with considerable cost, time and efficiency benefits.

TDW began developing the PMI process in 2011, soon after the Pipeline and Hazardous Materials Safety Administration (PHMSA) issued an initial Advisory Bulletin (ADB-11-01) establishing maximum allowable operating pressure (MAOP) or maximum operating pressure (MOP) using record evidence and integrity management risk identification, assessment, prevention and mitigation. PHMSA noted that incomplete or partial records are not an adequate basis for establishing MAOP or MOP and indicated that, in the absence of complete, verified records, operators may need to conduct in-situ examination, pressure testing, nondestructive testing or other activities to very verify the characteristics of the pipeline when identifying and assessing threats or risks. PHMSA also eliminated a grandfather clause that allowed gas transmission operators to rely on historical data for establishing the MAOP of pipe installed before 1970.

According to Jeff Wilson, TDW Vice President, Global Solutions Engineering, the company's PMI process helps pipeline operators comply with PHMSA's multi-disciplinary approach to verify that steel gas transmission pipelines are adequate for continued operation.

"In essence, the patented process provides pipeline operators with a proven approach to determine pipe material properties in-situ and without the need to destructively test pipeline samples," Wilson said.

Using the PMI process avoids system shutdown, decreasing pressure and destructive techniques such as cutting out a coupon test specimen, which had previously been the only alternative. The efficacy of this approach has been validated externally, including

Pipeline Performance™

by industry-leading, third-party laboratories, as well as pipeline operator blind tests and other industry organizations.

###

About T.D. Williamson

Drawing upon a 98-year history of industry leadership, TDW is a global solutions provider for the owners and operators of pressurized piping systems. T.D. Williamson delivers a comprehensive portfolio of safe integrity pipeline system solutions for onshore and offshore applications, including advanced isolation and repair, integrated pigging, and integrity assessment solutions.

For further information or imagery, contact:

Corporate Communications

T.D. Williamson

Tulsa, Oklahoma, U.S.A

Phone: 918-447-5000

Email: [corporate-communications@tdwilliamson.com](mailto:corporate-communications@tdwilliamson.com)

Web: [www.tdwilliamson.com](http://www.tdwilliamson.com)

Pipeline Performance™