



Commissioning Finalized on World's Largest Fiber Optic-based Infrastructure Monitoring System

November 29, 2023

Luna technology being used to monitor critical energy supply route to Europe

ROANOKE, Va.--(BUSINESS WIRE)--Nov. 29, 2023-- The operator of the Trans-Anatolian Natural Gas Pipeline (TANAP) commissioned the largest gas pipeline and fiber-optic monitoring solution ever installed to ensure transcontinental gas supply from Azerbaijan to the EU.

Luna Innovations (NASDAQ: LUNA), a global leader in advanced optical technology, and automation contractor ABB collaborated with the system operator to provide leak detection, pipeline security and facility security across the 1,811 km route in a project spanning six years.

Gas supply to Europe has become an especially critical issue in recent months, and Luna's pipeline security and leak detection solutions are key to ensuring supply for pipeline operators in the region, particularly in Turkey.

"Our fiber optic monitoring system is processing a vast amount of data on a daily basis, providing simple outputs to the pipeline operator with high reliability," said Scott Graeff, President and CEO of Luna. "A huge amount of effort, expertise, and collaboration went into delivering this project and its successful commission on time and on budget, and we are incredibly proud to be involved in the safe and efficient delivery of this natural resource to people in critical need."

Luna's distributed fiber-optic monitoring system provides early warning of incursions on the pipeline right of way, such as intentional or unintentional digging. The system also monitors the acoustic and thermal properties of gas leaks, providing rapid detection with highly accurate localization. It also monitors a subsea section of the pipe, providing indication of leaks and potential threats, such as dragging anchors from passing boats.

As another part of the project, Luna's distributed fiber-optic monitoring system has provided perimeter security for the pipeline's block-valve stations, to also provide above-ground facility protection along the entire route.

About Luna

Luna Innovations Incorporated (www.lunainc.com) is a leader in optical technology, providing unique capabilities in high-performance, fiber optic-based, test products for the telecommunications industry and distributed fiber optic-based sensing for a multitude of industries. Luna's business model is designed to accelerate the process of bringing new and innovative technologies to market.

Forward-Looking Statement

The statements in this release that are not historical facts constitute "forward-looking statements" made pursuant to the safe harbor provision of the Private Securities Litigation Reform Act of 1995 that involve risks and uncertainties. These statements include Luna's expectations regarding technological and product capabilities, market needs, reliability and operational efficacy related to its technology and/or products. Management cautions the reader that these forward-looking statements are only predictions and are subject to a number of both known and unknown risks and uncertainties, and actual results, performance, and/or achievements of Luna may differ materially from the future results, performance, and/or achievements expressed or implied by these forward-looking statements as a result of a number of factors. These factors include, without limitation, changes in market needs and technological challenges, various environmental and geopolitical factors and other risks and uncertainties set forth in Luna's periodic reports and other filings with the Securities and Exchange Commission ("SEC"). Such filings are available on the SEC's website at www.sec.gov and on Luna's website at www.lunainc.com. The statements made in this release are based on information available to Luna as of the date of this release and Luna undertakes no obligation to update any of the forward-looking statements after the date of this release.

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