



## News Release

### Wabtec Collaborates with Hifi to Bring Advanced Sensing and Monitoring Solutions to Mine Operators

**WILMERDING, PA** – July 8, 2019: Wabtec (NYSE: WAB) announced today that it is collaborating with Calgary-based Hifi Engineering to enhance digital technologies that monitor asset health to predict and prevent failures at mine sites. By incorporating Hifi's leading-edge fiber optic sensing technologies with Wabtec's Digital Mine solutions, mine operators can monitor the integrity of critical pipeline assets used to transport ore more efficiently, over long distances, and through environmentally sensitive areas.

"Our Digital Mine solutions leverage decades of mining experience, cutting-edge data science, and analytics technology to help miners optimize cost per ton and improve availability and reliability," said Doug Hanson, VP and General Manager, Digital Mine from Wabtec. "With the Hifi collaboration, mine operators will be able to use advanced analytics and artificial intelligence to monitor their pipeline systems and proactively identify threats and potential leaks throughout their operations."

"Mine operators are invested in assets, processes, and systems on a massive scale to meet business objectives while managing risk around safety, financial, and environmental events," said Steven Koles, President & CEO, Hifi. "However, hundreds, sometimes thousands, of assets produce enormous amounts of data that can either keep the operator informed to make smarter decisions or leave the operator vulnerable to blind spots and risks within their mining operation. Our collaboration with Wabtec enables mining operators to increase their equipment piping uptime via proper alerts, notifications, and visualizations based on the data coming from Hifi's specialized fiber optic's sensors. By fusing the two technologies, with real-time information from acoustics, vibration, strain, and other critical factors, operators can increase their confidence with the production monitoring of their assets and overall operations."

This combined solution is currently being introduced at a mining site in Latin America across the most critical sections of their pipeline that carries ore, in slurry form, from the mine to the export terminal. As a vital artery for the operation, assuring pipeline availability while helping to prevent any major environmental impacts is essential. The unique synergy of Hifi's high fidelity optic sensing solution provides distributed sensing capabilities, while Digital Mine's condition-based monitoring techniques allow for early detection of abnormalities such as ground movement and compromised pipeline integrity issues like intrusions and leaks. These innovative monitoring technologies will allow mine

operations to be more pro-active around maintenance activities and provide increased visibility across this business-critical long-distance pipeline.

### **About Wabtec Corporation**

Wabtec Corporation is a leading global provider of equipment, systems, digital solutions and value-added services for freight and transit rail. Drawing on nearly four centuries of collective experience across Wabtec, GE Transportation and Faiveley Transport, the company has unmatched digital expertise, technological innovation, and world-class manufacturing and services, enabling the digital-rail-and-transit ecosystems. Wabtec is focused on performance that drives progress, creating transportation solutions that move and improve the world. The freight portfolio features a comprehensive line of locomotives, software applications and a broad selection of mission-critical controls systems, including Positive Train Control (PTC). The transit portfolio provides highly-engineered systems and services to virtually every major rail transit system around the world, supplying an integrated series of components for buses and all train-related market segments that deliver safety, efficiency and passenger comfort. Along with its industry-leading portfolio of products and solutions for the rail and transit industries, Wabtec is a leader in mining, marine and industrial solutions. Wabtec has approximately 27,000 employees in facilities throughout the world. Visit the company's new website at: [www.WabtecCorp.com](http://www.WabtecCorp.com).

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### **About Hifi Engineering**

Hifi Engineering is a privately held Canadian company, with minority ownership from Enbridge and Cenovus, specializing in the research, development, supply and commercial operation of next generation fiber optic sensing technologies primarily used for preventative leak detection for pipelines and monitoring of critical assets. Headquartered in Calgary, Alberta, Hifi currently has a number of commercialized products based on its high fidelity dynamic sensing (HDS™) technology platform. For more information, visit [www.hifieng.com](http://www.hifieng.com)

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