## Ball Aerospace Ships Pollution Monitoring Instrument to Spacecraft Manufacturer for Integration Ball completed the TEMPO instrument in 2018

BROOMFIELD, Colo., May 21, 2021 / PRNewswire -- Ball Aerospace shipped NASA's Tropospheric Emission: Monitoring of Pollution (TEMPO) spectrometer, an air quality monitoring instrument, to the spacecraft manufacturer for integration.

Ball will continue to work closely with NASA and the manufacturer to support spacecraft integration and testing. The TEMPO mission is scheduled to launch in 2022.

"TEMPO is an apt name for this instrument, as it will make hourly daytime measurements of major air pollutants across North America," said Dr. Makenzie Lystrup, vice president and general manager, Civil Space, Ball Aerospace. "This rapid tempo of measurements will advance our understanding pollution in the atmosphere – from Mexico City to Canada and from coast to coast."



The imaging spectrometer, which senses ultraviolet and visible light, will make precise measurements of the key constituents of air pollution, including nitrogen dioxide, ozone, sulfur dioxide and other atmospheric pollutants that have the greatest impact on human health and agriculture productivity. Ball completed the TEMPO instrument in 2018, delivered it to NASA Langley Research Center after a successful final acceptance review and stored and maintained the instrument until the spacecraft was ready for integration.

Leveraging 40 years of heritage in Earth-observing instruments, Ball built the TEMPO instrument in tandem with the Geostationary Environmental Monitoring Spectrometer (GEMS), the Asian element of a global air quality monitoring constellation of geostationary satellites. GEMS launched in February 2020. Ball is currently involved in several other space-based environmental science and monitoring missions. It is developing the Ozone Mapping and Profiler Suite (OMPS) of hyperspectral instruments that measure the global distribution and vertical structure of ozone for NASA and NOAA missions. Ball is also building the advanced spectrometer instrument for MethaneSAT, which will locate and measure methane emissions around the globe.

Powered by endlessly curious people with an unwavering mission focus, **Ball Aerospace** pioneers discoveries that enable our customers to perform beyond expectation and protect what matters most. We create innovative space solutions, enable more accurate weather forecasts, drive insightful observations of our planet, deliver actionable data and intelligence, and ensure those who defend our freedom go forward bravely and return home safely. Go Beyond with Ball.® For more information, visit <a href="https://www.ball.com/aerospace">www.ball.com/aerospace</a> or connect with us on Facebook or Twitter.

## **About Ball Corporation**

Ball Corporation (NYSE: BLL) supplies innovative, sustainable aluminum packaging solutions for beverage, personal care and household products customers, as well as aerospace and other technologies and services primarily for the U.S. government. Ball Corporation and its subsidiaries employ 21,500 people worldwide and reported 2020 net sales of \$11.8 billion. For more information, visit <a href="https://www.ball.com">www.ball.com</a>, or connect with us on <a href="mailto:Facebook">Facebook</a> or <a href="mailto:Twitter">Twitter</a>.

## **Forward-Looking Statements**

This release contains "forward-looking" statements concerning future events and financial performance. Words such as "expects," "anticipates," "estimates," "believes," and similar expressions typically identify forward-looking statements, which are generally any statements other than statements of historical fact. Such statements are based on current expectations or views of the future and are subject to risks and uncertainties, which could cause actual results or events to differ materially from those expressed or implied. You should therefore not place undue reliance upon any forward-looking statements and any such statements should be read in conjunction with, and qualified in their entirety by, the cautionary statements referenced below. The Company undertakes no obligation to publicly update or revise any forward-looking statements, whether as a result of new information, future events or otherwise. Key factors, risks and uncertainties that could cause actual outcomes and results to be different are summarized in filings with the Securities and Exchange Commission, including Exhibit 99 in our Form 10-K, which are available on our website and at <a href="https://www.sec.gov">www.sec.gov</a>. Additional factors that might affect: a) our packaging segments include product capacity, supply, and demand constraints and fluctuations and changes in consumption patterns; availability/cost of raw materials, equipment, and logistics; competitive packaging, pricing and substitution; changes in climate and weather; footprint adjustments and other manufacturing changes, including the startup of new facilities and lines; failure to

achieve synergies, productivity improvements or cost reductions; unfavorable mandatory deposit or packaging laws; customer and supplier consolidation; power and supply chain interruptions; changes in major customer or supplier contracts or loss of a major customer or supplier; political instability and sanctions; currency controls; changes in foreign exchange or tax rates; and tariffs, trade actions, or other governmental actions, including business restrictions and shelter-in-place orders in any country or jurisdiction affecting goods produced by us or in our supply chain, including imported raw materials; b) our aerospace segment include funding, authorization, availability and returns of government and commercial contracts; and delays, extensions and technical uncertainties affecting segment contracts; c) the Company as a whole include those listed above plus: the extent to which sustainability-related opportunities arise and can be capitalized upon; changes in senior management, succession, and the ability to attract and retain skilled labor; regulatory action or issues including tax, environmental, health and workplace safety, including U.S. FDA and other actions or public concerns affecting products filled in our containers, or chemicals or substances used in raw materials or in the manufacturing process; technological developments and innovations; the ability to manage cyber threats; litigation; strikes; disease; pandemic; labor cost changes; rates of return on assets of the Company's defined benefit retirement plans; pension changes; uncertainties surrounding geopolitical events and governmental policies both in the U.S. and in other countries, including policies, orders, and actions related to COVID-19; reduced cash flow; interest rates affecting our debt; and successful or unsuccessful joint ventures, acquisitions and divestitures, and their effects on our operating results and business generally.

## SOURCE Ball Aerospace

For further information: Media Contact: Joanna Climer, (303) 939-7041, jclimer@ball.com; Investor Relations: Ann Scott, (303) 460-3537, ascott@ball.com

https://ball.mediaroom.com/2021-05-21-Ball-Aerospace-Ships-Pollution-Monitoring-Instrument-to-Spacecraft-Manufacturer-for-Integration

