

Ball Aerospace Completes Critical Design Review of Roman Space Telescope Instrument

BROOMFIELD, Colo., March 9, 2021 [/PRNewswire/](#) -- Ball Aerospace, partnered with NASA Goddard Space Flight Center, successfully completed the critical design review of the Wide Field Instrument (WFI), which will be the primary science instrument on NASA's Nancy Grace Roman Space Telescope, formerly known as the Wide Field Infrared Survey Telescope (WFIRST).

"Now that we have passed this critical milestone, we will continue to work hand-in-hand with NASA as we move from the design phase and into building and integrating the instrument," said Dr. Makenzie Lystrup, vice president and general manager, Civil Space, Ball Aerospace. "It's always exciting to get to the hardware build, and particularly in this case as WFI is the central science instrument on Roman."



Ball and NASA Goddard Space Flight Center are working in a close partnership to develop the WFI. Ball's primary responsibility is the Opto-Mechanical Assembly, which includes the optical bench, thermal control system, precision mechanisms, optics, electronics, and the relative calibration system that provide the stable structural and thermal environment necessary for wide field, high-quality, infrared observations. Ball will integrate the Goddard-provided 302-megapixel focal plane subsystem into the instrument and host instrument level verification and environmental testing.

The Roman Space Telescope is designed to unravel the secrets of dark energy, search for and image exoplanets, and explore many topics in infrared astrophysics. While its 2.4m telescope is the same size as Hubble's, the WFI enables a field of view 100 times greater than Hubble's at the same resolution.

Ball's work with NASA on the Roman Space Telescope continues a relationship that spans nearly 60 years. Ball built seven science instruments for the Hubble Space Telescope, as well as the advanced optical technology and lightweight mirror system for the James Webb Space Telescope. Overall, Ball has played a role in all of NASA's Great Observatories – Compton Gamma Ray, Hubble Space Telescope, Chandra X-Ray Observatory, Spitzer Space Telescope and James Webb Space Telescope. Roman Space Telescope continues that tradition.

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Forward-Looking Statements

This release contains "forward-looking" statements concerning future events and financial performance. Words such as "expects," "anticipates," "estimates," "believes," "targets," "likely," "positions" 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 www.sec.gov. Additional factors that might affect: a) our packaging segments include product capacity, supply, and demand constraints and fluctuations, including due to virus and disease outbreaks and responses thereto; 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; potential delays and tariffs related to the U.K.'s departure from the EU; changes in major customer or supplier contracts or a 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, the U.S. government elections, stimulus package(s), budget, sequestration and debt limit; 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.

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