

## **Ball Aerospace Awarded Ozone Mapping Profiler Suite for NOAA's Joint Polar Satellite Systems-3 and -4**

BOULDER, Colo., April 22, 2016 /PRNewswire/ -- Ball Aerospace will build the Ozone Mapping and Profiler Suite (OMPS) instruments for National Oceanic and Atmospheric Administration's (NOAA) Joint Polar Satellite System (JPSS) Polar Follow-On/JPSS-3 and JPSS-4 missions, under a sole source contract modification award from NASA. The value of this contract is approximately \$214 million for a total contract value of approximately \$421 million, with the contracted work to be performed over a 10-year period. OMPS tracks the health of the ozone layer and measures the concentration of ozone in the Earth's atmosphere.

"Ball is honored to continue its role of providing ozone monitoring instruments well into the future for NOAA and NASA," said Jim Oschmann, Vice President and General Manager of Ball's Civil Space business unit. "Since the mid-1980s our sensors have helped the science community measure the ozone layer to track and help mitigate potential threats."

OMPS is currently flying on the joint NASA-NOAA Suomi National Polar-orbiting Partnership (Suomi NPP) mission. Ball's OMPS deputy program manager and project scientist Sarah Lipsy says the sensor aboard Suomi NPP has provided unexpected data beyond ozone measurements.

"OMPS data has proven valuable in monitoring volcanic eruptions and routing aircraft safely around those eruptions," said Lipsy. "It is also being used to monitor the air quality in the upper atmosphere from pollution, dust and smoke."

OMPS continues the current daily global data provided by the Solar Backscatter Ultraviolet radiometer-2, also built by Ball Aerospace, and the Total Ozone Mapping Spectrometer. The collection of data from OMPS contributes to fulfilling the U.S. treaty obligation to monitor the ozone depletion per the Montreal Protocol to ensure no gaps on ozone coverage and extends more than three decades of total-ozone and ozone-profile records. OMPS products, when combined with cloud predictions, also help produce better ultraviolet index forecasts. In addition, OMPS data is used to measure atmospheric conditions, such as ash from volcanic eruptions, which are used in aircraft safety warnings.

Under the contract, Ball will manufacture, test and deliver the high fidelity OMPS JPSS-3 and JPSS-4 instruments – which are composed of a nadir sensor and electronics module – and provide launch and post-launch support for both.

JPSS is funded by NOAA to provide essential weather observation data to NOAA's National Weather Service. NASA is the acquisition agent for the flight systems and components of the ground system and provides program systems engineering, program safety, mission assurance and end-to-end system verification.

Ball Aerospace supports critical missions for national agencies such as the Department of Defense, NASA, NOAA, and other U.S. government and commercial entities. The company develops and manufactures spacecraft, advanced instruments and sensors, components, data exploitation systems, and RF solutions for strategic, tactical and scientific applications. Ball continues to invest and innovate in affordable, high resolution imaging systems, contributing to the needs of civil, military, and commercial customers.



Ball Corporation supplies innovative, sustainable packaging solutions for beverage, food 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 15,200 people worldwide and reported 2015 sales of \$8.0 billion. For more information, visit [www.ball.com](http://www.ball.com), or connect with us on [Facebook](#) or [Twitter](#).

### **Forward-Looking Statements**

This release contains "forward-looking" statements concerning future events and financial performance. Words such as "expects," "anticipates," "estimates" and similar expressions identify forward-looking statements. Such statements are subject to risks and uncertainties, which could cause actual results to differ materially from those expressed or implied. 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 risks and uncertainties 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](http://www.sec.gov). Factors that might affect: a) our packaging segments include product demand fluctuations; availability/cost of raw materials; competitive packaging, pricing and substitution; changes in climate and weather; crop yields; competitive activity; failure to achieve productivity improvements or cost reductions; mandatory deposit or other restrictive packaging laws; customer and supplier consolidation, power and supply chain influence; changes in major customer or supplier contracts or loss of a major customer or supplier; political instability and sanctions; and changes in foreign exchange or tax rates; 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 plus: changes in senior management; 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; litigation; strikes; labor cost changes; rates of return on assets of the company's defined benefit retirement plans; pension changes; uncertainties surrounding the U.S. government budget, sequestration and debt limit; reduced cash flow; ability to achieve cost-out initiatives; interest rates affecting our debt; and successful or unsuccessful acquisitions and divestitures, including, with respect to the proposed Rexam PLC acquisition, the effect of the announcement of the acquisition on our business relationships, operating results and business generally; the occurrence of any event or other circumstances that could give rise to the termination of our definitive agreement with Rexam PLC in respect of the acquisition; the outcome of any legal proceedings that may be instituted against us related to the definitive agreement with Rexam PLC; and the failure to satisfy conditions to completion of the acquisition of Rexam PLC, including the receipt of all regulatory approvals.

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