Lightening the Launch Load

Satellite structures lighten up with inventive use of additive manufacturing

BY ED MUIR, BOEING WRITER

INNOVATION EXCITATION

Boeing engineer Michael D'Olio monitors vibration testing of additively manufactured satellite antennas.

PHOTO: BOEING

Principal Senior Technical Fellow Rich Aston leads a team of engineers always trying to build the proverbial better mousetrap.

"We always strive to find new and better ways to innovate," said Aston. "Learning and teaching are core values of our team."

Applying their knowledge and creativity to inventions, Aston's team created a fully additively manufactured, or 3D-printed, metallic satellite spacecraft structure. The structural panels are lighter, require less labor and dramatically reduce cycle time compared to the design and manufacture of previous structures.



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