An Update to a Conformal Ablative Thermal Protection System for Planetary and Human Exploration Missions

R. Beck, J. Arnold, M. Gasch, M. Stackpoole, E. Venkatapathy

NASA Ames Research Center

CONTEXT & OBJECTIVE

Technical Requirements Definition

Continuous Risk Management (CRM)

Testing, Results and Modeling

Establish Industry Partnerships

CONCLUSION & OUTLOOK

Game Changing: we have created a high strain-to-failure TPS with a dramatic reduction in complexity and should result in lower cost heatshield manufacturing.

POC: Robin Beck robin.a.beck@nasa.gov