MSFC In-House Development Efforts for Staged Combustion Device Injector Designs with Stable Operation

- MSFC Engineering—Unsteady Reacting Flow Computational Fluid Dynamics and Design Processes
- Air Force Research Labs—Injector Element Testing and Design Processes
- Purdue University—Injector Element Testing
- Sierra Engineering—Combustion Stability Modeling Development

*Improved MSFC Combustion Stability Assessment Process through tool updates and validation
*Matured MSFC/AFRL Understanding of Injector Design Approach to Also Ensure Stable Combustion
*Data Generated to Be Used By Multiple Institutions