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C3Or4D-03: [Invited] NASA Cryogenic Fluid Management Flight Demonstration Summary: Lockheed Martin 2020 Tipping Point

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NASA Science and Technology Mission Directorate is investing in advancement of on-orbit cryogenic fluid management technologies by partnering with industry through multiple “Tipping Point” contracts with the primary objective of reducing development costs and schedules for infusion into long duration missions utilizing cryogenic propellant. Lockheed Martin was selected as a partner in 2020 to conduct a demonstration of CFM technologies through an integrated payload system designated the Cryogenic Demonstration Mission (CDM). This presentation provides a summary of the CDM top-level goals, contract objectives, and progress completed to date.

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