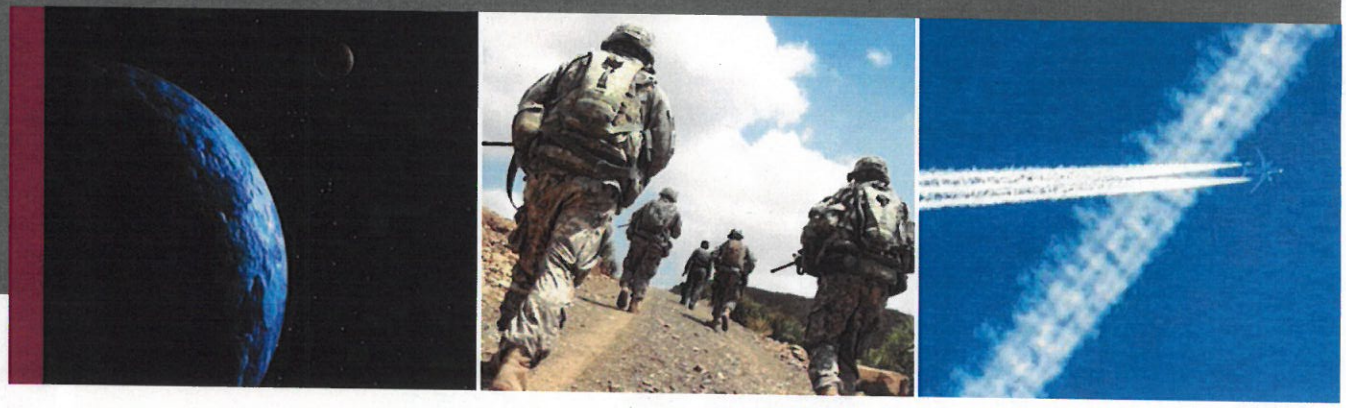

Moog COMET-HPP for GSFC MIST II

January 16, 2020

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MOOG
SPACE AND DEFENSE GROUP

COMET-HPP – Hosted Payload Platform

- Enhanced variant of COMET to be a Hosted Payload Platform (HPP)
- Can perform Tug mission and host payloads
  - Ideal for hybrid or multi-manifest missions
- Key Specifications
  - Vehicle mass 450 kg, Propellant mass 153 kg
  - Monoprop hydrazine
    - 4 x 22 N Delta-V thrusters, Isp = 233 s
    - 6 x 5 N ACS thrusters
  - Reaction Wheels to allow for Nadir pointing
  - 4-, 5-, or 6-port ESPA ring, 42" tall, 62" diameter
  - Up to 1500 kg of Port-mounted Payload
  - Fixed Solar Array with ~100 W (OAP) for Payload
    - Can be expanded for mission requirements
  - Altitude: 350 km to 1200 km
  - Inclination: 45 degrees to Sun-synchronous (varies with altitude: 96.85° to 100.42°)

This document does not contain Technical Data or Technology as defined in the ITAR Part 120.10 or EAR Part 772