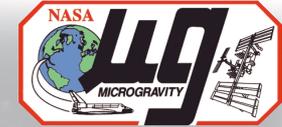


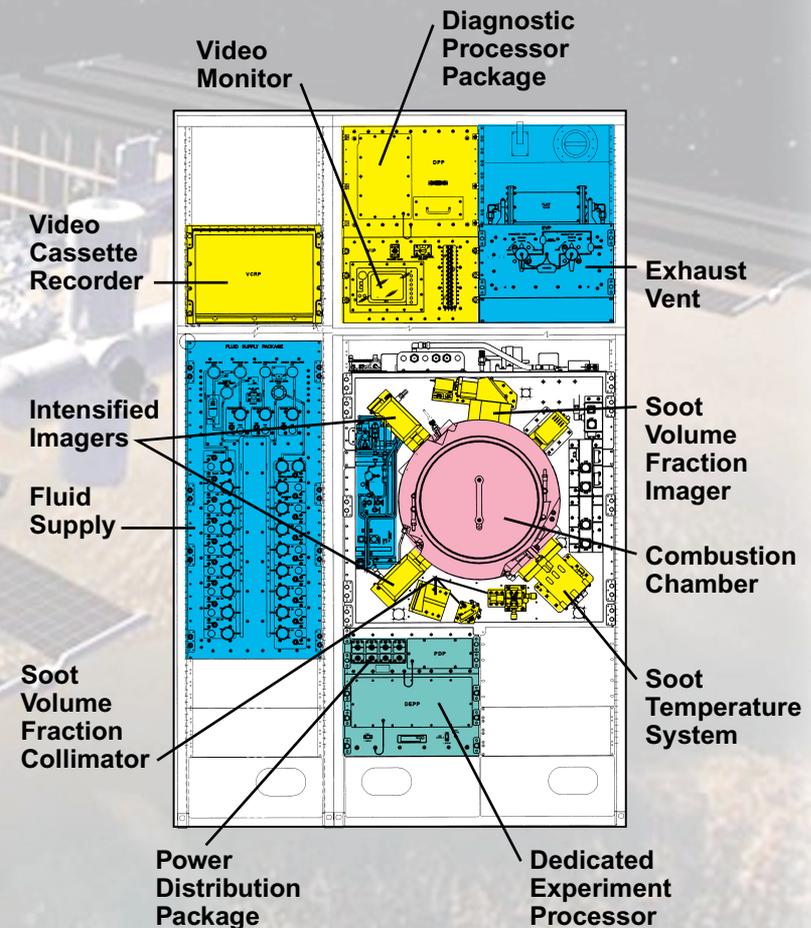


Glenn Research Center



## Combustion Module-1 on MSL-1

- ◆ Demonstrated the feasibility of a modular combustion facility
- ◆ Firsts
  - Multiple combustion investigations
    - Gaseous premixed flames
    - Gaseous diffusion flames
  - Combustion chamber breached on-orbit and recertified to handle hazardous gases
  - On-orbit mixing
  - Spark ignition
  - Cleanup of hazardous byproducts prior to venting
  - Gas chromatography analysis
  - Non-obtrusive measurement of soot in a flame



Schematic of the Combustion Module-1 Facility