



Glenn Research Center



Fluids and Combustion Facility

◆ Concept:

- Payload planned for the International Space Station
- Support the study of fluid physics and combustion in a long-duration, microgravity environment
- System of on-orbit and ground hardware, software, operations, and plans
- Majority of on-orbit hardware will be reused
- Decrease the cost and increase throughput relative to previous ways

◆ Goals:

- At least eighty percent of new experiments can be performed in it
- Perform between 5 and 15 combustion experiments per year over 10 year lifetime
- Develop only a small amount of hardware and software for each investigation
- Modular to allow upgrades with new hardware and software