

ISS Payload Operations Center (ISSPOC) GRC Telescience Support Center (TSC)

ISS Payload Operations Center (ISSPOC – GRC TSC)



DESIGN HIGHLIGHTS

- Secure, dedicated audio, video, and data interfaces are provided and maintained for payload teams, including four channels of ISS video and the ability to communicate directly with the ISS crew.
- The ZIN Team provide operations Planning Products: URC Inputs, OOS Review & Resource Planning, Operational Change Request (OCR) Generation & CoFR for Console Operations.
- Our Experience:
 - Facilitates development of detailed payload operational scenarios
 - Build realistic operational timelines
 - Accurately estimate bandwidth, storage, video requirements
 - Provide certified operations personnel
 - Provide Commanding, Display, and Data Processing
 - Provide training for the proper use of TSC resources
 - Provide real-time support to perform payload operations



NASA Glenn Research Centers (GRC) ISS Payload Operations Center GIPOC – formerly known as the Telescience Support Center (TSC)) Provides around-the-clock operations support for space experiments on the ISS. The sustaining engineering and operations team is under a prime contract with ZIN Technologies.

The ISSPOC is a secure, multipurpose facility designed to provide dedicated support for simultaneous training, simulations and real-time operations of space experiments on the ISS. The facility includes the Payload Operations Center, the Communication and Network Support Room, the TSC Operations and Support Room and a visitors viewing area that provides access on a noninterference basis.

Principle investigators, project scientists and payload operators send commands and receive telemetry and science data from their payload hardware operating on board the ISS. By working off the Earth for the Earth, the International Space Station advances scientific knowledge in Earth, space, physical, and biological sciences.

- ❑ Since 2001, ZIN at the TSC has provided over 30,000 hours of continuous support for diverse microgravity research experiments and vehicle health onboard the ISS, 24 hours a day, 7 days a week when necessary.
- ❑ Hardware and software provide the ability to send commands to payload hardware and to receive feedback via telemetry.
- ❑ The quality of scientific and engineering data is enhanced while the long-term operational costs of experiments are reduced because principal investigators and engineering teams can operate their payloads from their home institutions with support of experienced operations personnel.



ZIN Technologies



Voyager Space External Use
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