

# STS-125/HST SM4 Cargo Systems Manual Overview

(or “you flew us out here early for this?!?”)



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# Why CSMs?

- From the forward/purpose
  - The purpose of the Cargo Systems Manual (CSM) is to provide a payload reference document for payload and shuttle flight operations personnel during shuttle mission planning, training, and flight operations. The CSM will include orbiter-to-payload interface information and payload system information (including operationally pertinent payload safety data) that is directly applicable to the MOD role in the payload mission. The CSM is an accurate source of this information for use by flight operations personnel.
- I.e., CSMs are used by crew and MCC personal for preflight training and real-time console support related to HST and SSE

# HST CSMs

- Two flavors for STS-125/HST SM4
  - HST CSM
    - Denotes current HST configuration and planned upgrades (telescope-centric)
    - ‘Living’ document has been used and updated since prior to HST deploy on STS-31.
  - SSE CSM
    - Denotes mission specific flight equipment (Shuttle Payload Bay-centric).
    - New document for each flight, similar to previous HST mission’s books.

# Other

- The earlier a CSM is developed, the more useful it is to the crew and Flight Control team
- CSM is reviewed at FOR as an ops product
- CSM can be used for operational decisions during flight
  - COFR'd prior to FRR.
  - Inputs to CSM have to be traced back to source documents (official engineering drawings, documents, etc.)
    - Source tracking table lists these
    - Includes references on CSM drawings