



GSFC Human Space Flight Documentation Status/Plan

09/13/12

Earl Daniel

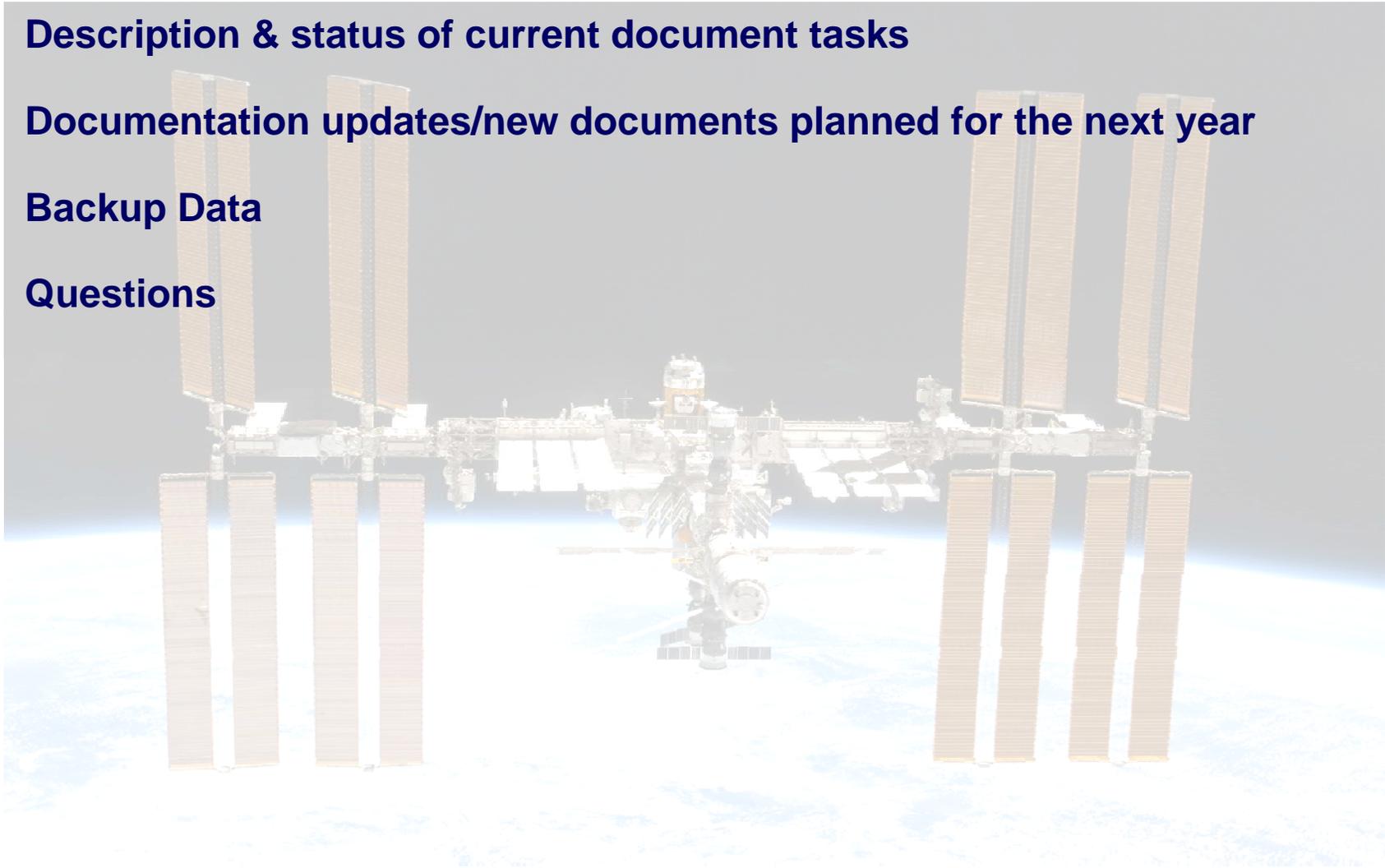




Agenda



- **Description & status of current document tasks**
- **Documentation updates/new documents planned for the next year**
- **Backup Data**
- **Questions**

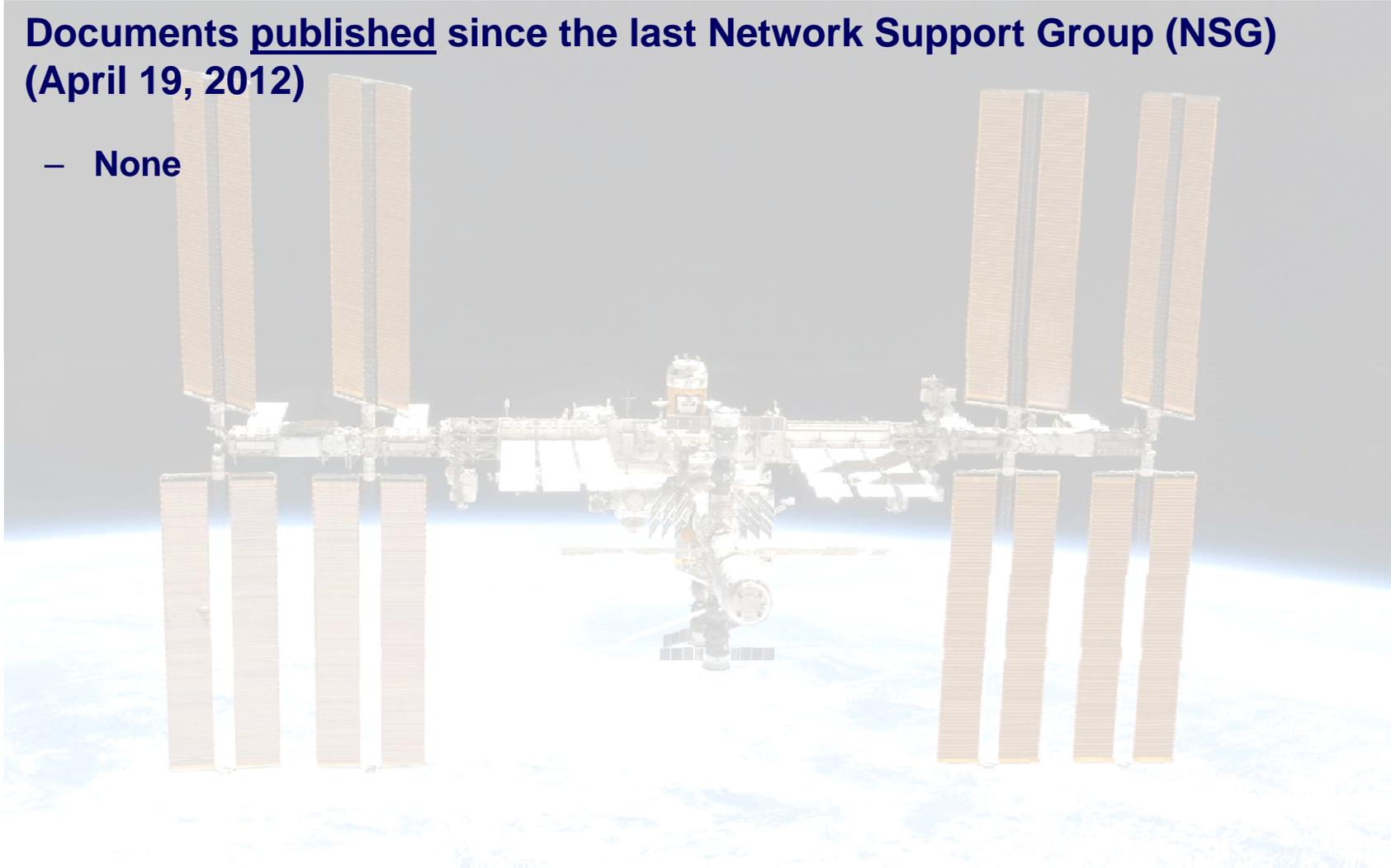




GSFC HSF Documentation Status



- Documents published since the last Network Support Group (NSG) (April 19, 2012)
 - None





GSFC HSF Documentation Status (cont'd)



- **Documents in CCB Review**

- **Network Operations Directive for Human Space Flight Network Support, 450-NOD/HS, Revision 4**
 - **Add coverage of the new Human Exploration Operations Directive, add coverage of new Working Groups which support Human Space Flight (HSF), add new operational and support diagrams, remove Space Shuttle references where applicable, change Wallops designation WPS to WGS, change description of construction details to specify that the ISS is now completely assembled, replace NISN with CSO where appropriate, and add coverage of the Space Launch System**



GSFC HSF Documentation Status (cont'd)



- Documents in General Review
 - Abbreviations and Acronyms, 450-LIST-Abbrev/Acrnym, Revision 1
 - This revision incorporates changes such as the following: add coverage of the new Human Exploration Operations Directive, add coverage of the new working groups and support groups which support HSF, remove Space Shuttle references where applicable, and change Wallops designation WPS to WGS
 - ISS TNOSP, SpaceX Dragon Annex; 450-TNOSP-ISS, Dragon Annex, Revision 2
 - Revision 2 to this annex incorporates such changes as: new orbit determination for Dragon discussion, new undocked operations discussion, notes on discontinuous frames were removed, points of contact were updated, mission voice loops table was updated, Communications Service Office was added as appropriate to descriptions of NISN support, updates to Voice Callsign table, updates to FDF support description, a new procedure to make database changes was added, and a new Overview diagram of MCC-H to MCC-X Interface was added



GSFC HSF Documentation Status (cont'd)



- Documents in General Review (cont'd)
 - ISS TNOSP, Automated Transfer Vehicle Annex; 450-TNOSP-ISS, ATV Annex, Revision 1
 - Changes include: specify next mission as ATV-3, add new figures to show cut-a-way view of ATV and locations of antennas on the S/C, update the discussion on C-band Radar support to specify contingency support, update the communications overview diagram, add Communications Service Office (CSO) as appropriate, update FDF support description, and add new Overview diagram of MCC-H to ATV-CC interface
 - Very-High Frequency Voice Communications Support Annex to the ISS TNOSP, 450-TNOSP-ISS, VHF Annex, Revision 1
 - This Revision includes changing Ground Network (GN) to Near Earth Network (NEN), where appropriate, delete old terms such as ICOM, add mention of new voice loop ISS SITE COORD 2, update the VHF station scheduling support discussion, remove ANTC data, add Network Manager to point of contact list, update contact phone numbers, add 20 degree AOS/LOS for WSC, update ISS Assembly illustration, update WGS, WSC, and DFRC station readiness tests, delete coverage of BCTC, update post-pass briefing, update list of test equipment, and revise VHF support summary form. Examples of the updated VHF-1 and VHF-2 forms are included in the annex and instructions on how to obtain electronic copies from NGIN. Copies of the revised forms are included in the handout backup material. (This is the Second General Review for this document. Rev 1 does not include new antenna)





GSFC HSF Documentation Status (cont'd)



- Documents in General Review (cont'd)
 - Near Earth Network (NEN) Users' Guide, 453-NENUG, Revision 2
 - Assisted Wallops in preparing basic update package. Wallops will handle all review processes
 - ISS TNOSP, H-II Transfer Vehicle Annex; 450-TNOSP-ISS, HTV Annex, Revision 1
 - Revision 1 to this annex incorporates such changes as: reorganize sections closer to NIMO NOSP Template, delete references to the ISS NPRD, update control numbers of referenced documents, add new Communications Overview diagram, more detailed SN support discussion to section 6, update NISN section to discuss CSO, add tables of voice and data circuits, add discussion of undocked operations, add BCC, add radar contingency call up discussion, and add new appendix with referenced documents and related web sites



GSFC HSF Documentation Status (cont'd)



- Documents in Local (Team) Review Cycle
 - ISS TNOSP, Cygnus Annex; 450-TNOSP-ISS, Cygnus Annex, Original
 - Current operations support requirements for new commercial resupply Visiting Vehicle (VV) spacecraft from Orbital Sciences Corporation (OSC) for SN and NEN elements. The initial demonstration mission will occur under the Commercial Orbital Transportation Services Project. The remaining 8 pressurized cargo missions will be under the CRS Project. The vehicles will be launched from a Taurus Launch Vehicle from Wallops, and return to destructive re-entry over the Pacific Ocean
 - Configuration Management Freeze Policy for the Integrated Networks and Supporting Elements, 450-CMFP-HSF/ELV Revision 1
 - Revision 1 adds a new flow diagram to support the process discussion, removes Space Shuttle data where appropriate, adds an overview diagram for typical mission communications, adds the new FER form with instructions on how to download and use it, and adds NASA and contractor POC data. This is a complete re-write





GSFC HSF Documentation Status (cont'd)



- **Document updates on hold (or not started)**
 - **Network Interface Procedures for Test/Simulation Coordination and Scheduling, 450-PROC-Test/Sim, Original (rewrite of STDN No. 508.27)**
 - **M&O Manual for the ISS/Soyuz VHF A/G Communications Systems at WSC and WFF, ME-19402, Revision 1**
 - **Network Operations Support Plan for the Orion Multi-purpose Crew Vehicle/Exploration Flight Test-1, Original, 450-NOSP-MPCV/EFT-1**
 - **Network Integration Center Interface Procedures, DCN 001 to Rev 1, 450-PROC-NIC**
 - **Network Integration Center Standard Operating Procedures, DCN 001 to Rev 2, 450-SOP-NIC**
 - **GSFC HSF Contingency Action Plan, DCN 001 to Original, 450-CAP-GSFC-HSF**
 - **TDRSS Network Operations Support Plan for the International Space Station, 450-TNOSP-ISS, Rev 1, DCN 001**





GSFC HSF Documentation Plan



- **Updates for the next fiscal Year**
 - **The following table lists the documents identified for updating during the next fiscal year based on priority, funding, and resources available. The up-coming review cycle is stressed, and the projected final completion date is provided. Also provided are the names of the subject matter expert assigned to each document (SMM) and the Book Manager responsible for coordination of the task**
 - **Additional backup data is provided that includes a list of all documentation identified as Human Space Flight related**





GSFC HSF Documentation Plan (cont'd)



Document	Edition	Current Task			Remarks Book Mgr./Ops Specialist
		Start Review	Due Back	Planned Completion Date	
ISS TNOSP, ATV Annex, 450-TNOSP-ISS, ATV Annex, Original Revision 1	Jun 01, 2007 G		Rev period ext Jul 31, 2012	Sep 30, 2012	E. Daniel/T. Russell
ISS TNOSP, Cygnus Annex, 450-TNOSP-ISS, Cygnus Annex Original	T	May 07, 2012	Oct 12, 2012	Jan 31, 2013	E. Daniel/E. Clark
ISSTNOSP, Dragon Annex, 450-TNOSP-ISS, Dragon Annex, Revision 1 DCN 001 Revision 2	Oct 26, 2010 Feb 17, 2012 G	Jul 18, 2012	Rev period extended Aug 10, 2012	Sep 28, 2012	E. Daniel/H. Booker
ISS TNOSP HTV Annex, 450-TNOSP-ISS, HTV Annex, Original Revision 1	Nov 01, 2011 G	Sep 04, 2012	Sep 30, 2012	Jan 31, 2013	E. Daniel/M. Calhoun
VHF Voice Communications Support Annex to the ISS TNOSP, 450-TNOSP-ISS, VHF Annex, Original, DCN 1 Revision 1	Sep 01, 2006 Feb 01, 2009 Second G	Sep 03, 2012	Sep 30, 2012	Oct 26, 2012	E. Daniel/K. Riley/F. Pifer
Notes: T = GSFC HSF Team Review G = General	Review Cycle	C = GSFC 450.1	CCB Review	ss = Supersedes	Red = current effort





GSFC HSF Documentation Plan (cont'd)



Document	Edition	Current Task			Remarks Book Mgr./Ops Specialist
		Start Review	Due Back	Planned Completion Date	
Network Operations Directorate for HSF Network Support, 450-NOD/HS, Rev 3 Revision 4	Dec 18, 2009 C	Sep 05, 2012	Oct 12, 2012	Oct 31, 2012	E. Daniel/R. Marriott
CMFP for the Integrated Network & Supporting Elements, 450-CMFP-HSF/ELV, Original, DCN 001 Revision 1	Jun 2007 Aug 2007 T	Sep 24, 2012	Oct 19, 2012	Dec 31, 2012	E. Daniel/S. Harding
Tasks on Hold 450-PROC-NIC 450-NOSP-MPCV/EFT-1					To be scheduled
ME-19402 450-SOP-NIC					
450-PROC-Network/T-S 450-CAP-GSFC-HSF					
450-TNOSP-ISS, Rev 1, DCN 001					
Notes: T = GSFC HSF Team Review G = General <i>Review Cycle</i> C = GSFC 450.1 CCB Review ss = Supersedes Red = current effort					





GSFC HSF Documentation Status/Plan Summary



- Presenting review dates to the network in this forum allows each element advance notice of projected document review work load and expected turnaround dates for each document during the next 6 months
- To meet projected completion dates, it will be very important to receive all suggested updates and review comments by due dates/input cutoff dates
- Tasks currently on hold will be worked in between higher priority tasks as time permits
- Each document has an assigned book manager who will collect all suggested updates and review comments, coordinate incorporation of all comments, resolve any conflicts, and ready each document for Team, General, and CCB reviews (as applicable)
- The technical accuracy of each document will be ensured by an assigned subject matter expert (SME) in most cases, a Spaceflight Mission Manager (SMM) from the GSFC HSF Team
- Earl Daniel is responsible for the coordination of all GSFC HSF Documentation efforts, contact information as follows

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Questions/Requests

