



# ISS Hardware Status



# Currently onboard

- Phase 1 70CM system consisting of the following:
  - Packet Module
  - Ericsson 70CM transceiver
  - Adapter Module
  - Power module
  - Headset (onboard STS-114)
  - 5 Associated cables
- Phase 2 Components consisting of the following:
  - D700E Transceiver
  - D700 Control panel
  - Russian control panel cable
  - 2 Russian Power supplies
  - D700 Microphone
  - Russian microphone cable
  - Antenna switch panel
  - Ham radio Table





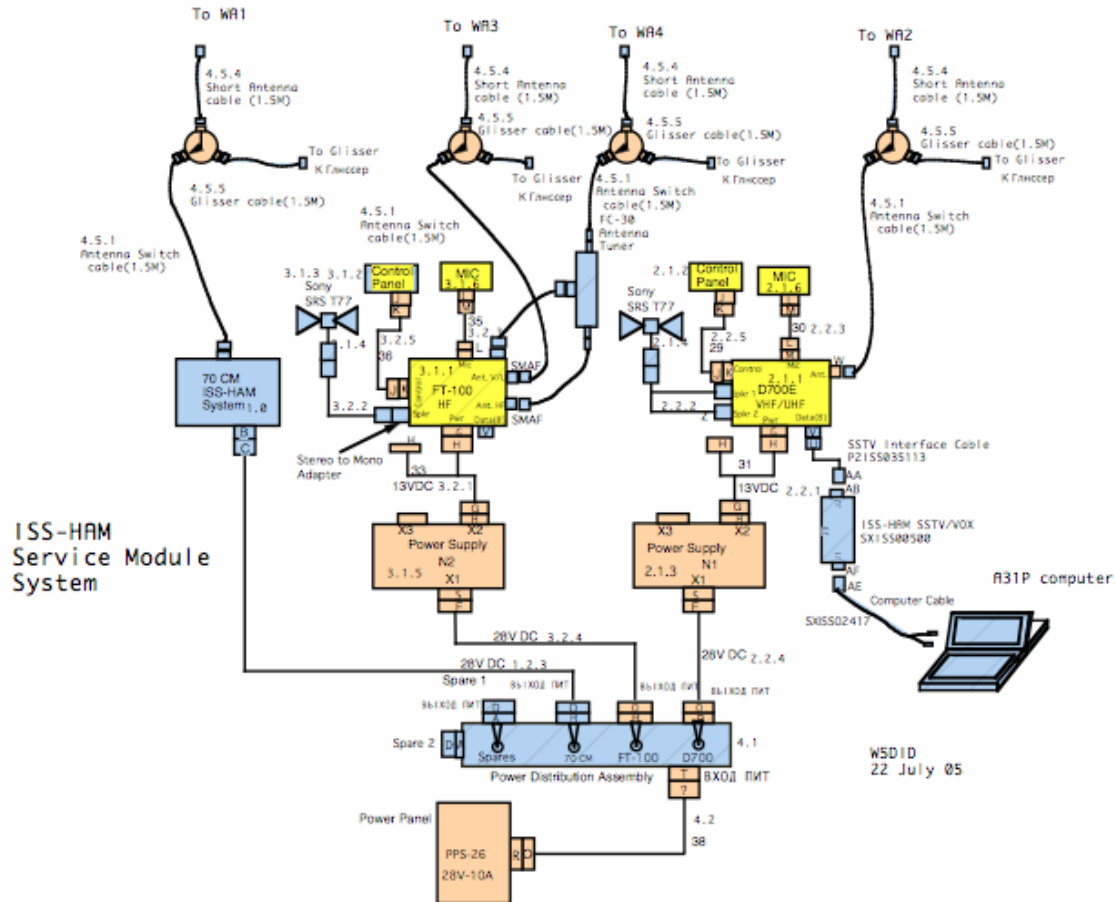
## Phase 2 Equipment cont.





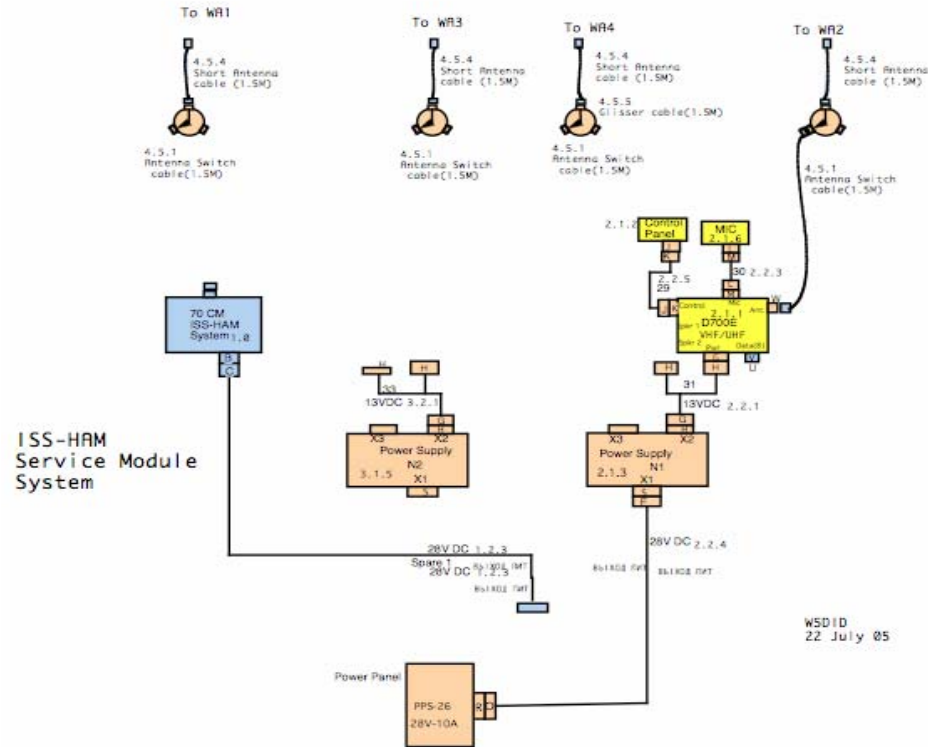
# Phase 2 Hardware development status Aug. 2005

## Phase 2 System when complete



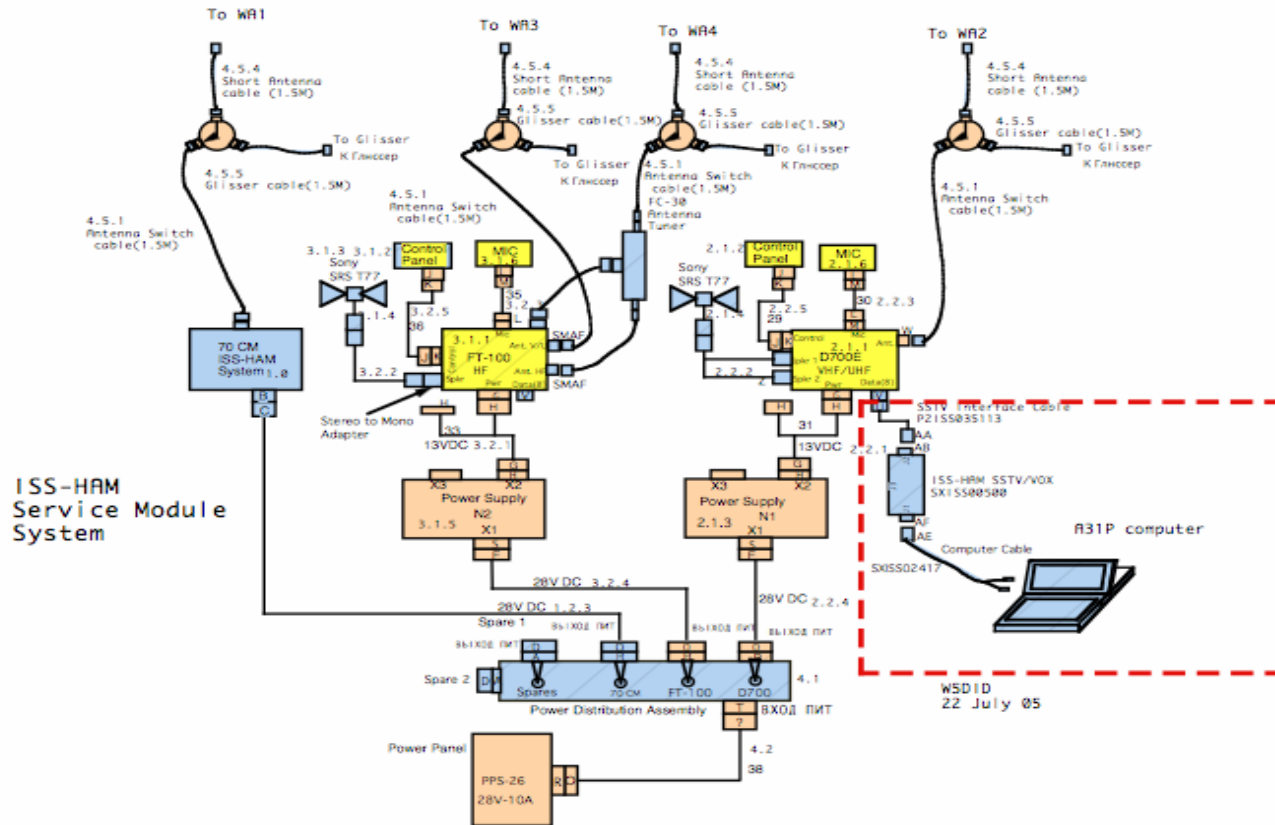


# Phase 2 HW currently on board



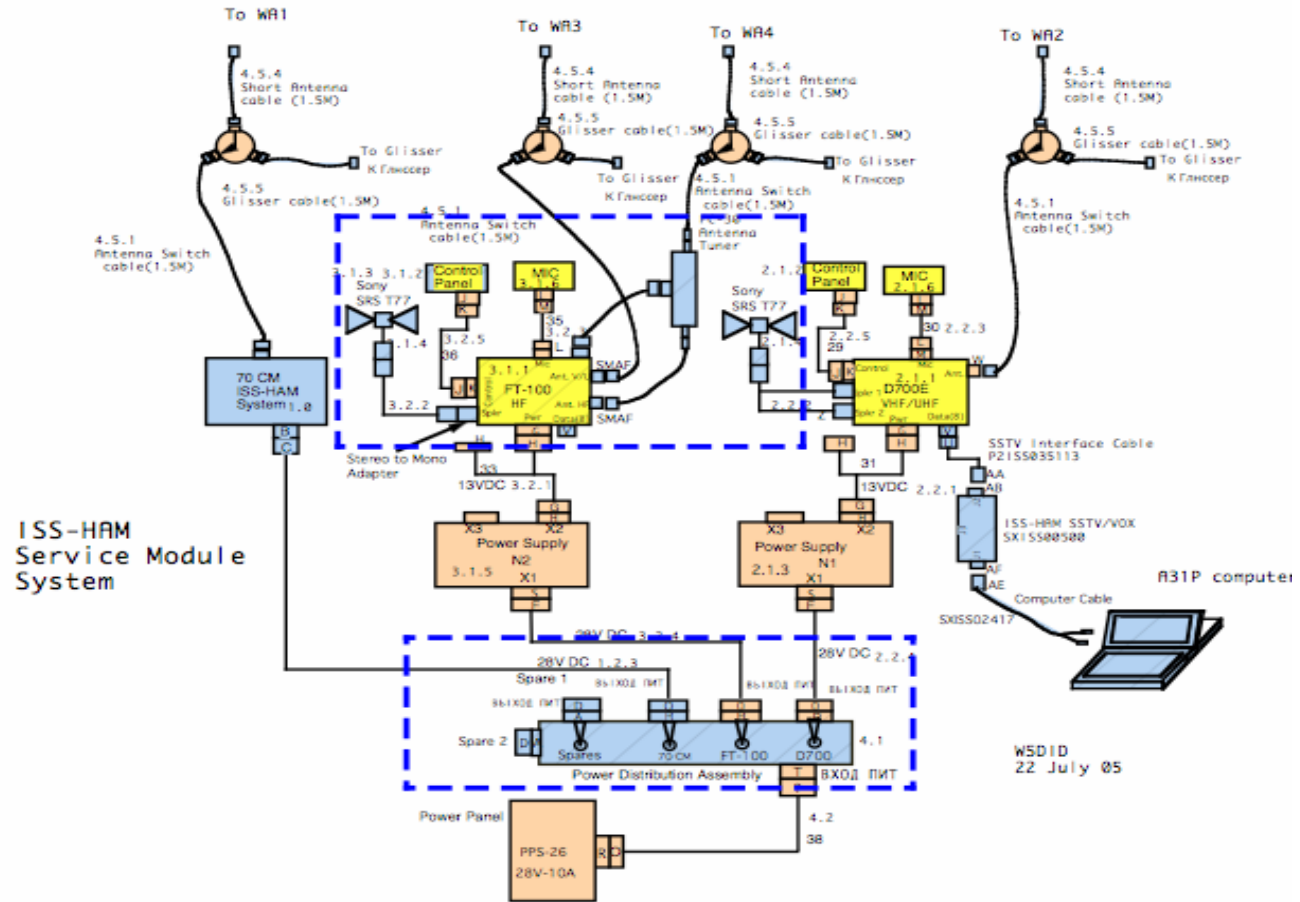


# Next Progress shipment





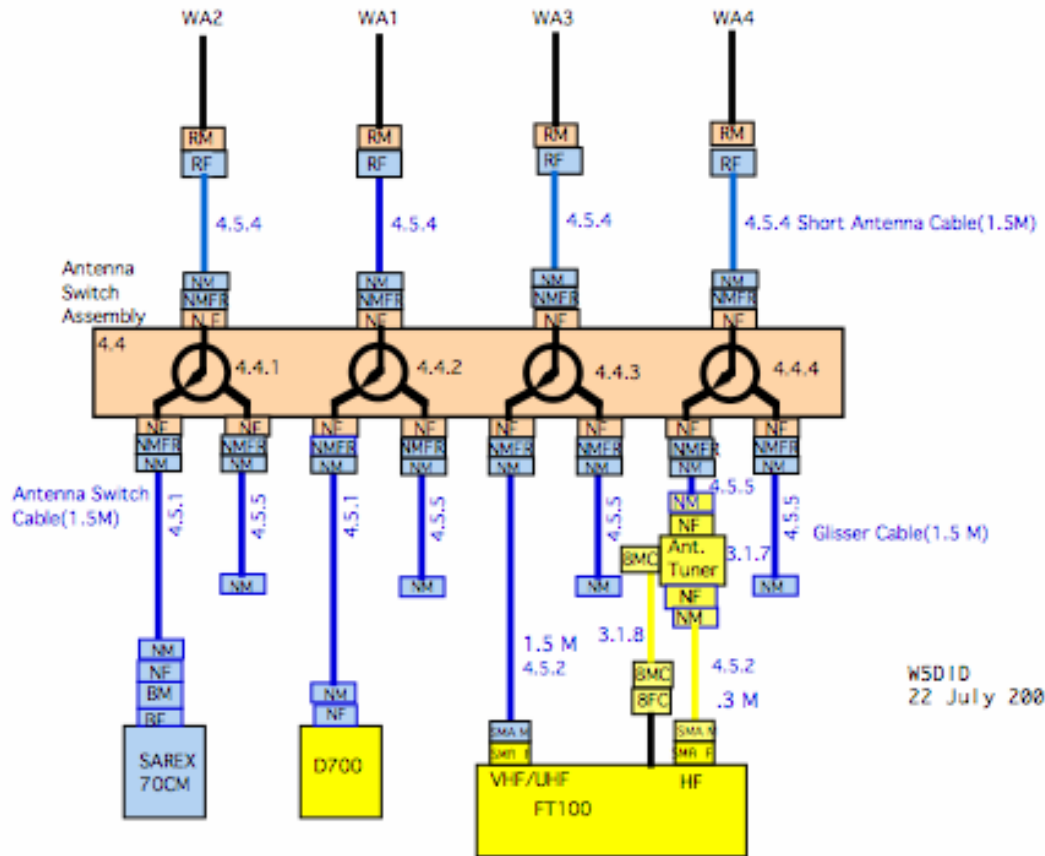
# Final Phase 2 Shipment







# Phase 2 RF Cables





# Next Shipment

- A31P Computer
- SSTV Module
  - 2 cables
  - Software
- Mini Suitsat
  - Radio Module
  - Digitalker Module
  - Radio Cable
  - Control Cable
  - Control box
  - RF Cable
  - Power Cable
  - Antenna
  - Stowage bag
  - CD with school pictures(two copies)



# Future Shipments Phase 2

- FT100 System Consisting of :
  - FT100
  - Antenna Tuner Control Cable (P2ISS02318)
  - HF RF cable SMA-> N male (P2ISS02452)
  - VHF RF Cable SMA-> N male (P2ISS02452)
  - FT 100 Control panel
    - FT100 Control Panel Cable (Russian)
  - FT 100 Microphone
    - FT100 Microphone Cable (Russian)
  - RF System Cables
    - 4 Short Antenna Cables (P2ISS02454)
    - 4 Antenna Switch Cables (P2ISS02451)
    - 4 Glisser Cables (P2ISS02455)
- Power Distribution Box



# Power Switching Assembly

- Circuit modified during meeting Oct 6
- Connector Changed
- Russian Connector delivery schedule
- Certification ?
  - By whom?
  - Tests required?



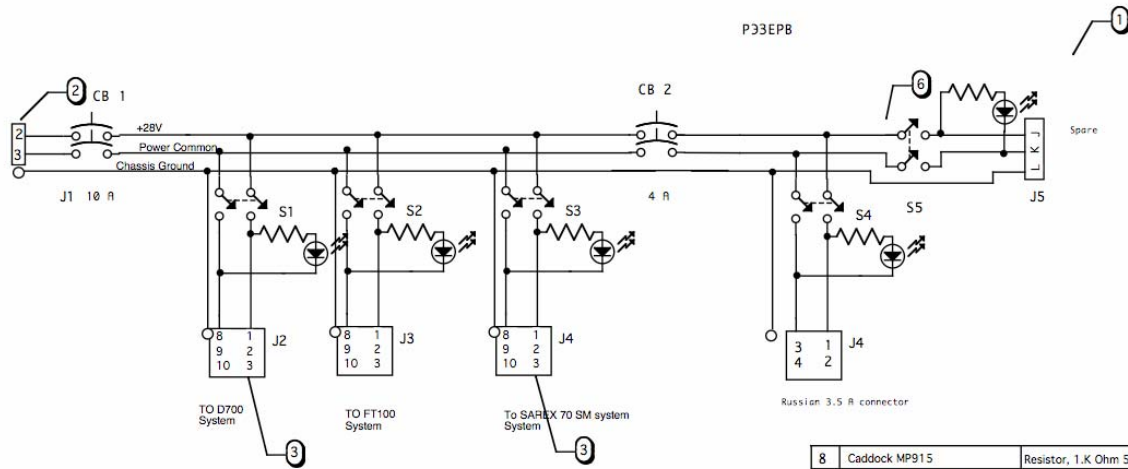
# Power Switching Assembly

- Change Circuit breakers to switches
- Add Master 10A Circuit Breaker
- Add 3A Circuit Breaker
- Remove one U.S. Power connector and Add Russian 3.5 A connector





# Power Distribution box schematic



### Circuit Breaker Specifications

- 1 Fully Sealed Magnetic
- 2 Two Pole Hook Terminals
- 3 Series Configuration
- 4 D.C., 50/60Hz, 400Hz, Short Time Delay  
135% Trip
- 5 10.0 Ampere or 4.0 Ampere

8	Caddock MP915	Resistor, 1 K Ohm 5 watt
7	Sloan LED 109-282	Diode, LED, Green 28V
6		Switch DPST
5	M39019/03-229	Magnetic Circuit Breaker 4A
4	M39019/03-248	Magnetic Circuit Breaker 10A
3	0C RBM4-7-1Γ1B(F)	Connector Female
2	0C 2PMT 22 64III3R1B(M)	Connector Male
1	MS3470L14-12S or Equal R	Connector Female
Project <b>Amateur Radio on International Space Station</b>		
Title <b>ISS-HAM Phase 2 System Power Distribution</b>		
Part Number	Drawn By L.W. McFadin	Date 31 JUL 05
File Name DC Power distribution	Approved S. Sambourov	Size B



# Power Cable

- Who will supply the main power cable?
- Russian connectors on each end.
- Who will need to certify it?



# Open Items

- RF Cables
- FT100
  - Lower power output
  - Antenna Control Cable
  - Certification
  - Programming
    - Frequency selection
    - Parameter settings





# Tasks to be completed

- Fabricate RF cables
  - Four RF Switch cables