



# Project Selection and Use Committee

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# Mandate

- The purpose of the PS&U committee is
  - Review proposed amateur radio projects for deployment onboard the ISS
  - Recommend the acceptance or non acceptance of those projects to the international delegates.



# How do we evaluate proposals?

- The Project Selection and Use Committee has had a set of criterion for selecting projects for a long time. These are outlined as follows:



# Questions proposals need to address

- Name of organization with a brief description of organizations' activities
- Detailed description of Project including length of time needed to develop
- Estimate of funding including the expected source of funding
- Proposed certification procedure for the project
- Preliminary block diagram and sketches of the project



# Questions proposals need to address cont.

- What involvement will the crew have in the project (development, deployment, set up and operation)?
- What facilities or support is required for this project including ISS support (example a computer, power cooling etc.) and ground support (example downloading of mail, downloading files, uploading files etc.) ?
- What is the specific educational outreach purpose of the project and how will that be implemented?
- How will the Amateur Radio Community benefit from the project?



# Questions proposals need to address cont.

- If the proposal is to fix a perceived problem, what is the problem and what happens if we do nothing? What are the alternatives to this proposal?
- What Amateur Radio frequencies will the project utilize?
- Any other comments that will help the Committee evaluate this project.



# Additional Criteria For Proposals

- Equipment must be capable of operating unattended for extended periods (weeks).
- Equipment should be designed to power on into the default state. A reset of the Equipment must restore it to a desired default state.
- Crew interfaces must be very simple .
- Procedures must be provided for equipment operation prior to being approved for flight.
- Systems capable of being controlled from the ground will be given preference.
- There is no assurance that equipment will be returned or brought back down.



# Projects proposed at Last meeting Oct 2006

- |                          |                 |
|--------------------------|-----------------|
| ■ FT100 vs FT 817        | Recommended     |
| ■ HF antenna             | Recommended     |
| ■ Icom ID800 Project     | Not Recommended |
| ■ Packet Upgrade project | Not Recommended |
| ■ Packet Fan Project     | Not Recommended |
| ■ Turbo Fan Project      | Not Recommended |
| ■ Cubesat deployment     | Recommended     |





# Columbus module DATV

- On behalf of ARISS-Europe, I submit to the approval of the ARISS Selection and Use Committee the principle of installing in the ISS Columbus module a wideband L/S-band transponder and to provide also (D)ATV facilities, at least on downlink. (Gaston)
- Feasibility, technical and financial, has not yet been fully established.
- This concept has been proposed in 2005, but has not yet been formalized. Therefore I ask for approval of the principle so that we can safely proceed with further studies.



# Columbus S & L band Antenna



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# Development:



## ■ From Emanuele D'ANDRIA

- I am very proud to inform you that ESA has signed the contract with Kayser Italia for the implementation of the HAMTV Project as endorsed by ARCOL

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# Deployment:

- The ISS crew will need to perform the typical deployment associated with installing a new transceiver to the existing antenna ports and power supply.
- The total installation time required for the initial setup will be 1 hour or less.



# Proposals Currently Being Considered

- Install the Ericsson radio in the Columbus module
- Build a new power supply for ISS-Ham operations in the Columbus module
- Deploy a new D700 radio in the Columbus module.
  - Requires modification and certification for Columbus module operations.



# New Very Recent Proposal

- PeerSat NanoRacks



# PS&U Problems

- The Project Selection and Use committee has been in not been very active in reviewing proposals in the past.
- Correspondence to members has gone unanswered.
- The committee needs to be invigorated and become proactive.
- Recommendations:
  - Get commitment from members to actively participate
  - Assign members from every region that are committed to the process.
  - Have monthly telecon meetings



# PS&U Cont.

- Assign sub committees review areas of concern
  - Crew operations
  - Safety
  - Amateur operations
    - Packet
    - SSTV
    - HF
    - Crossband repeater
    - School contacts
  - Experiments
  - Equipment maintenance and improvements
  - Special contacts and P.R. events





# Recommendations

- Continue the committee
- Add sub committees and select members to populate the sub committees.
- Conduct proposal reviews in a timely manner.