

# **ARISS Project Selection and Use Committee Proposal Submission Requirements**

Every proposal should address the following topics and questions.

## **Organization making proposal.**

Name of organization with a brief description of organizations activities.  
AMSAT Italia

## **Project Description.**

Detailed description of Project including length of time needed to develop.

Send some small messages/images from ISS to commemorate anniversary (100) of Marconi's Nobel Prize.

We propose to send voice-recorded message (in Italian and English language) and some still images in SSTV taken from old documents of ceremony.

Messages/images should be transmitted with automated system with intervals.

Estimate of project cost including the expected source of funding.

No cost for equipments or special training, little costs for managing the project deployment (contact with ESA, NASA, RKA and so on).

Proposed certification procedure for the project hardware.

Hardware is now existing on board of ISS (ARISS radio equipment).

Block diagram and sketches of the project equipment and organization.

The actual set-up of ARISS station will be used.

## **ISS and Ground involvement.**

Explain what involvement the crew will have in the project (development, deployment, set up and operation).

Little effort; we need only operation to load some small files (audio and images) on the ARISS equipment.

After this, only activation/deactivation will be required.

Describe what facilities or support is required for this project including ISS support. (example a computer, power, cooling ) and ground support (example downloading of mail, downloading files, uploading files etc.).

Only ARISS equipment will be used; all other facilities are however connected or certified.

Where will this equipment be installed on ISS?

Amateur radio station "as-is".

Will this project require an EVA in order to install or deploy or make it operational?  
No, absolutely.

## Education.

What is the specific educational outreach purpose of the project and how will that be implemented?

We intend to spread around the world, some exciting words of youngest Nobel for physics, with hope to push ahead other young amateurs and students to learn more around radio, space and physics. Words will be alternated by images, because a photo is thousands time better than a million of words. Using ARISS actual set-up is a great and easy opportunity to all amateurs, schools (especially small or not "rich" of infrastructures); we can reach virtually all amateurs in all continents.

## Amateur Radio Benefits

How will the Amateur Radio Community benefit from the project?

As presented before, this proposal is aimed to revitalize, re-activate or simply re-start, passion that guided Marconi, as young radioamateur (the first!), to go ahead with radio not only for communicate, but for improve her and our life.

## Problem Solutions

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?

We are not thinking about technical problems (ARISS station is going well), but some organizational aspect should be considered, because events world coverage.

This is easy to fix with a good planning and exact description before start.

## Frequency Coordination.

What Amateur Radio frequencies will the project utilize?

We suggest to use VHF and/or UHF frequency. VHF for max return of interest (easy to receive with small radios, especially in some country), but UHF is useable.

## Equipment Requirements.

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

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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.  
All of these aspect are covered by ARISS station, we have to use well established procedures.

**Other.**

Any other comments that will help the Committee evaluate this project.