**Project Selection and Use (PSU) Committee**

Report to ARISS-I International Partners Meeting

April, 2014

ESA-ESTEC

Purpose of committee:

Accept proposals on behalf of ARISS-I, evaluate them, and provide recommendation to the ARISS-I delegates for action.

Organization of committee with roles & responsibilities:

Chair is appointed by ARISS-I delegates and is the point of contact for proposal submissions. Each region has a representative. Proposal submission guidelines are maintained by the committee. These guidelines ensure there are enough details to make an informed recommendation to the ARISS-I delegates.

List of members/regions:

As of June 18, 2013 –

US Lou McFadin, W5DID (Chair)

Canada Darin Cowan, VE3OIJ

Europe Christophe Mercier

Russia Sergey Samburov, RV3DR

Japan Dr. Yoshihiro Tsuruda, JA6XMK

US Mark Steiner, K3MS (Convener)

Committee meeting frequency:

PSU committee meets as needed to evaluate submissions.

Activities since last meeting (October 2011)

Committee met on September 13, 2013 to discuss these proposals and make a recommendation to the ARISS-I delegates (minutes attached at end of report):

* Digital ATV, S-Band Beacon, and LS-Band Transponder

Future plans:

Update proposal submission guidelines

Develop long-term hardware development strategy

Issues:

None at this time

**ARISS Project Selection and Use (PSU) Committee**

September 13, 2013, 11:00 UTC

Present:

Mark Steiner (Coordinator)

Lou McFadin (Chair)

Christophe Mercier

Darin Cowan

Observers:

Oliver Amend

Gaston Bertels

Kenneth Ransom

Not present:

Sergey Samburov (on travel all of September)

Yoshihiro Tsuruda (unable to make this telecon)

Charts were presented visually using the GoToMeeting, service provided by Lou McFadin/AMSAT-NA.

The proposal overview (dated August 26, 2013) prepared by Gaston Bertels and the detailed description by Kayser-Italia were submitted to the PSU Committee members prior to the meeting, and responses were requested to be submitted by September 13, 2013, if they could not attend.

Discussion:

Lou reminded everyone of the Digital ATV proposal proposed to ARISS in 2004. It was approved in principle but there remained specific technical details to be worked out.

Darin expressed a concern about the selection of the S-Band beacon downlink frequency being so close to WiFi frequencies in an email dated September 6, 2013:

“Proposal section 15, para 15.1 – the proposed downlink frequency is 2400.15 MHz.  While that frequency is certainly in the amateur band, it is less than 1 MHz off of the edge of WiFi channel 1 worldwide.  While I am confident in the quality of amateur radio gear not to bleed into the WiFi space, I am much less confident in the quality of consumer gear not to interfere with reception of the beacon, especially since it is likely that there is a wifi transmitter located just about anywhere anyone would be listening to the downlink – especially in schools, which are the primary target audience.  I would recommend the downlink be put between 2390 and 2395, or perhaps down at 2309 near the narrow-band and EME segment in order to be safely clear of wifi interference.”

Oliver reported on the reasoning behind the frequency selection by the HamTV system now on board and how this will be workable. Darin accepted his explanation.

Lou discussed Gaston’s overview of the proposal that covers the committee proposal requirements, and Darin and Christophe had no comments or questions. Lou then highlighted key components of the Kayser-Italia detailed description.

NOTE: Dr. Tsuruda reviewed the documents and had no comments or recommendations. Sergey Samburov did not provide any comments or recommendations.

Darin Cowan moved the acceptance of the proposal by the PSU Committee with a recommendation to the ARISS-I delegates to approve the proposal. Christophe seconded, and all three committee members present voted yes. Mark will forward this to Oliver Amend for presentation to the full ARISS-I delegate body.

The Committee asked Mark to update the proposal requirements to include Darin’s suggestions for more details on the block diagram:

“A logical architecture showing block diagrams, describing the logical components and expected information and power flows between the blocks, inputs, outputs, and protocols.”

Mark will update the document to reflect this and send it out to the PSU Committee for their consideration. If accepted by the Committee it will be recommended back to the ARISS-I delegates for final approval.

Respectfully submitted,

Mark Steiner, K3MS

PSU Committee Coordinator