

**Question 1:** The ADC requirements table is not clear and seems to be missing headers for the columns. Can you provide an updated table?

**Answer 2:**

	Reqt Value	CBE Performance	Margin	Comment
Pointing Control	3 arcmin (0.05 deg)	0.007 deg	714%	3 $\sigma$
Jitter (frequencies > 20 Hz)	5 arcsec	1 arcsec	1000%	RMS
Slew Rate	> 0.1 deg/sec	3 deg/sec	3000%	

**Question 2:** The Selection Criteria section includes a number of criteria in addition to the info requested in the RFI. These include flight heritage, partnerships, experience, etc. If we include this information in our proposal is it considered part of the 15 pages or can we incorporate it in an Appendix?

**Answer 2:** Reference Paragraph 4 – Submission Instructions. The technical response is limited to 15 pages. Therefore, information submitted under the “selection criteria” may be included as an appendix. No page limit has been established for this information. However, the total submission must adhere to the file size limits identified in the Partnership Opportunity Document.

**Question 3 -** In what format are you expecting the response? The solicitation says .pdf and we will submit a .pdf, yet in the solicitation instructions it mentions no more than 15 'pages' for the technical response. The 'pages' made me question whether the power point presentation we're putting together is sufficient, or if you guys wanted more of a 'white paper' response in a Word type document. Is a .pdf'd Power Point sufficient or did you guys have a different format in mind.

**Answer 3:** Submissions may be in created in Microsoft Word or PowerPoint but should be converted to and submitted in PDF format.

**Question 4:** Is it acceptable to have a blanket statement for the requirement compliance that states something like, 'this platform is compliant to all specified requirements in section 2.2 of the response, except: xxx, xxx, etc' and then we specifically address the requirements we are not currently complaint with?

**Answer 4:** Firms should submit documentation that demonstrates the technical capability of the Micro Bus discussed in their individual submission. Responses should contain sufficient information to determine compliance with stated specifications.

**Question 5:** Page 1, paragraph 2.1, states “Provide six required flight units, one qualification unit, spares, and engineering models.” How does this reconcile with the request for the ROM on page 6, (2)g.: "The ROM should include (1) EDU, (1) SW simulator, (2) flight units and (1) flight spare."

**Answer 5:** ROM on page 6, (2)g.: is in ERROR

**Should read:** "The ROM should include (1) EDU, (1) SW simulator, (1) Qualification Unit, (6) flight units and (1) flight spare."

**Question 6:** Page 1, paragraph 2.2 states "Operate Instrument twice per orbit (Sunrise/Sunset)." **How long does the instrument operate for?** 1.65 Gbps daily rate generated at the minimum 19.2 kbps indicates the instruments operate at 100% duty cycle. **Can you clarify where the instrument points while collecting data? Is the payload nominally pointed at the sun?**

**Answer 6:**

How long does the instrument operate for?

The instrument is always ON, but not always collecting images. Image readouts (occultation) are for approximately 100sec.

Can you clarify where the instrument points while collecting data? Is the payload nominally pointed at the sun?

The Observatory & Instrument is nominally sun pointed at all times (Potential exceptions are for Daily COMM passes, and Monthly Calibration Images)

1.65 Gbps daily rate generated at the minimum 19.2 kbps indicates the instruments operate at 100% duty cycle.

1.65G BITS per / Day is generated by 30 separate Occultation measurements, which are processed by the Instrument Processor in standby mode between occultation's and transferred to the SC C&DH for storage and transmission to the ground.

**Question 7:** Also on page 1, you limit the Observatory volume to 30cm x 30cm x 20cm. Can you clarify this is for a single observatory?

**Answer 7:** Yes, This is a Single observatory

**Question 8:** Page 3 states "S/C C&DH: o Minimum 10-160 MIPS (10-160 MHz) Rad tolerant processor board. Minimum RAM ECC (128M). Minimum 1 GB Data storage available to the payload. Software & Hardware SEU mitigation. Minimum Rad Hard Parts: Flash, Watch Dog, Reset & Power Circuits. Compatible Power and I/O Boards." If the PL generates 1.65 Gb/day, and we downlink once per day, shouldn't we provide at least 1.65 GB storage?

**Answer 8:** The instrument produces 1.65 Gbits per Day.

The SC Storage Requirement is 1 GByte allowing for missed passes, and SC data Storage Requirements + Margin

**Questions 9:** Can you clarify how many Observatories are launched on a single launch vehicle? Section 2.1 could be interpreted as six, but that is not consistent with the proposal preparation instructions to price two flight SC. **Is the intent to be able to launch six observatories within the 60 x 70 x 96 cm ESPA volume?**

**Answer 9:** Can you clarify how many Observatories are launched on a single launch vehicle  
The Current Baseline is 6 Observatories on One Launch.  
Other Launch options are being consider at this time, including splitting the launch.

Is the intent to be able to launch six observatories within the 60 x 70 x 96 cm ESPA volume?  
No, but that is an interesting Option.

**Question 10:** Page 5 states “Launch Considerations: During launch and Observatory deployment into LEO, the Observatory may be completely unpowered for up to 45 minutes and tumbling in orbit. During that period, the bus will be unpowered. The bus will automatically power up after this preset time, gain attitude control, deploy solar arrays, and achieve a power positive safe mode.” Does this prohibit electronic counters to implement the 45 minute power up waiting period?

**Answer 10:** No, some type of timer is required, which is enabled by separation during deployment.