59 -- High Rate Telemetry Processing System

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General Information

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Contracting Office Address

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Description

The purpose of this amendment is to answer questions from potential offerors.

Question 1. Specification paragraph 2.1.1 calls for a Single mission (one modulation and data rate) receiver but then goes on to specify tunable from 75-400 Mbps. Will the receiver be used in a fixed frequency and fixed data rate application or will it be a multi-mission environment with changing frequencies and changing data rates?

ANSWER 1. We expect to use it initially with one frequency/data rate. But we would like the flexibility to use other frequencies/data rates at a later time. The details of the future use are unknown at this time.

QUESTION 2. Specification paragraph 2.1.1 calls for the receiver to have an LVDS digital output. Specification Paragraph 2.2.2 calls for the telemetry processor to have an ECL input/output. Please clarify which electrical signaling is required.

ANSWER 2. The High Data Rate Receiver shall also have a differential ECL interface.
QUESTION 3. Specification paragraph 2.2, 3rd sentence specifies Rice Decompression without any other information elaborating on the use of Rice decompression. Also, Figure 1 does not indicate Rice Decompression. Please clarify the use of the Rice Decompression in the system.
ANSWER 3. Rice decompression will be per CCSDS 121.0-B-1. It would be optional processing off of the VC demux and before Frame Encapsulation.

QUESTION 4. Are the physical size requirements (Specification paragraph 2.1.8 and 2.2.6) a maximum size allowed?

ANSWER 4. Yes.

QUESTIONS 5. Based on the number of disks specified in Specification paragraph 2.3, we are assuming RAID-1 (mirror). Are other RAID configurations (e.g., RAID-5) acceptable? Also, what is the protocol for the Network Attached Storage (e.g., NFS, CISF, SAMBA, others)?

ANSWER 5. Either RAID-1 or RAID-5 is acceptable. The NAS should be compatible with the Telemetry Processing System and if possible, use a non-proprietary interface protocol. Use of a non-proprietary interface is highly preferable.

QUESTION 6. The Specification does not call for Design Reviews, Customer Approved Factory Acceptance Tests, etc; are any of these activities required with the delivery? If so, can they be described in more detail?

ANSWER 6. We are assuming a COTS product. We will test the equipment within our existing system before final acceptance. It is anticipated that arrangements can be made for the provider to attend these tests.

QUESTION 7. Is this a new requirement? If not who was the incumbent?

ANSWER 7. This is a new requirement for an upgrade to our current system. It will be used as part of NRL's Blossom Point Satellite Ground Station.

QUESTION 8. Is there a technical representative for this procurement?

ANSWER 8. Yes; the technical representative will be identified at time of award.

Point of Contact

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