BRAND NAME JUSTIFICATION FOR RESTRICTED COMPETITION

Item: TSC 4400-1 Dual Frequency, GPS Disciplined, Rb (rubidium) Oscillator Time Recovery System w/GPS antenna and rack mount kit. Lightning Arrestor Kit (OP03) and 30 meter GPS antenna cable (OP02) also required.
Total Price:
Brand Name: Symmetricom

A Brand-Name only restriction is required for the purchase of the Symmetricom TSC 4400-01 time recovery system that is capable of generating precise timing signals traceable to Coordinated Universal Time as maintained at the United States Naval Observatory UTC(USNO). These precise timing units are required to provide the resolution necessary to synchronize and analyze data acquired from the six remote stations that comprise the WX Portable Lightning Instrumentation System. The Symmetricom systems utilize a GPS disciplined rubidium frequency reference to provide timing signals with the short-term stability of the atomic reference and the long-term stability of GPS. The Wx Portable Lightning Instrumentation System will be used to monitor and acquire date during lightning events at KSC and in support of the SLS and other launch services in the LC39 area.

The Symmetricom TSC 4400 precision time reference provides three timing signal sets (1PPS, 10MHz, and IRIG-B) and also provides Ethernet capability for integration with other systems by providing health and status remote monitoring. Symmetricom is the only source known to manufacture a time reference with the features and resolution required for the Portable Lightning Instrumentation system. Brand-name uniformity is also essential to ensure that the hardware is physically and electrically compatible with the existing Symmetricom hardware currently used on the Mobile Launcher and at LC39B. Use of different equipment will increase costs for training, configuration, repair, and O&M capability.

Symmetricom time devices are currently in use at KSC and the engineering and technical communities are familiar with the devices capabilities and are already trained on the devices operation and maintenance procedures. A device from a different manufacturer would mean more time and money invested, first to assess its capabilities and then additional time to come up to speed on its operation and then more time and money to train other members of the design and operation and maintenance teams.

I certify that the supporting data presented in this justification are accurate and complete.

Kevin Decker
NASA Technical Representative

20 AUG 2013
Date

I hereby certify that this justification is accurate and complete to the best of my knowledge and belief.

Jacklyn L. Norman
Contracting Officer

8/20/13
Date