

Addendum #1 to RFP No. DL-570037

Question 1. *In the Statement of Work within the specimen contract, section 1.1.3.3 states:*

"Test all the "good" operational hybrids at 7K. These tests should include as a minimum: total SCA noise, responsivity (QE), well capacity, pixel operability, and uniformity. These tests should be performed under the observational conditions listed in Section 5 of Exhibit 1."

Within Exhibit 1, MIRI Detector Requirements Document, there are some secondary performance requirements (section 4) and performance requirements within certain environmental conditions (section 5) that are not called out in the Statement of Work for test verification. The question is what are JPL's expectations of its MIRI Detector supplier contractor in regards to verification of items such as optical crosstalk, cosmic ray pixel upsets, and vibration? Is this verification through analysis or test? If by test, would JPL expect these tests to be performed by the MIRI Detector supplier or would JPL address this internally?

Answer to Question 1:

We have been careful to explicitly call out those tests that are required of the Contractor. Secondary requirements such as optical crosstalk that are not called out do not need to be performed (and should not be costed). JPL intends to carry out many of the secondary tests as part of the flight part selection process. While we don't require the Contractor to perform these tests, we do require the Contractor to design the parts to meet all the requirements listed in Exhibit 1.

JPL's test philosophy is that the tests done at the Contractor's facilities should allow them to quickly screen a large number of parts, so that only a few of the best and most promising parts will be delivered to JPL. JPL will fully characterize and qualify these parts. Our goal is to eliminate the duplication of as many of the expensive and time-consuming tests as is reasonable, given that JPL will be required to perform most of them as part of the instrument characterization task.

Question 2. *Under Article 1, Section 1.2 of the specimen contract: For the two (2) sample hybrid arrays similar in character to the ones that will be delivered on this program to be used for JPL test station development (to be delivered one month ADOC). Please expand on "similar in character." Should it be similar in configuration? Similar in performance?*

Answer to Question 2:

JPL will use these devices for the development of our testing capabilities (dewar, readout electronics, etc.) while we are awaiting the delivery of devices from the first cycle. These devices need to be low-background Si:As detector arrays that detect photons relatively uniformly across the array, and they need to achieve background limited noise levels for at least some fraction of full well. They can be any off-the-shelf architecture with "reasonable" performance characteristics, e.g. engineering parts from the SIRTf program with one missing output, etc. would be adequate.

Question 3. *Does FY assume Government or Calendar?*

Answer to Question 3:

FY assumes Government Fiscal Year – October through September.

Question 4. *In the Technical/Management Volume, will the use of embedded video during the oral presentation be allowed?*

Answer to Question 4:

Any media of a “common” format (MPEG, Quicktime, etc.) that can be delivered on the Zip disk or CD-ROM with the PDF version of the proposal will be allowed. The PDF copy should clearly indicate where the video should occur during the presentation in addition to the file name and the video format.