



Procurement and Contracting Services

Request for Proposals for a Cryogenic Infrared Test System

ADDENDUM #1

**Please mark all proposal submission
Envelopes with the following information**

**Sealed RFP # L262409
Due on June 26, 2024, no later than 2:00 PM, MST**

The following questions were received prior to the close of the Technical Question period on May 29, 2024, at 12:00 PM MST:

1. Under the requirements section 5.3 Requirements

Topic Dark Testing The thermally generated background flux levels in the cold stage area of the test dewar shall be $<10\text{e-/s}$ for a 11 μm -cutoff FPA (18 μm pixel size goal: $<1\text{e-/s/pixel}$ for a 11 μm cutoff FPA)

- a. I wish to clarify; The specification is a goal, which the vender is not responsible for providing certification.

The background flux is not something we are expecting the vendor to provide certification for. However, as part of the proposal (and subsequent design reviews) we will be looking at the expected temperatures of the dewar that enclose the detectors and other light tightening features. We will be expecting certification of temperatures upon delivery. Any previous experience building dewars supporting detectors in this bandpass (or longer) will also be useful information for evaluating any proposals.

2. Illumination Nonuniformity

- a. Can we assume that this specification is for spatial uniformity and that there is no need for rigorous collimation?

Yes.

- b. Are other radiometric specifications defined at this time (i.e. spectral intensity/radiance, blackbody temperature, etc.).

No, illumination will be provided by an external source and flux controlled using appropriately sized pinholes.

- c. Will AIRD be supplying the external source, or providing specifications for this source as part of the scope?

AIRD will supply external source. We are expecting entrance window to be interchangeable.

3. Filter Wheels

- a. Are the filter wheels to be configured in series filtering the one external source?

Yes.

- b. Is the filter specification/procurement part of the scope, or to be performed by AIRD?

AIRD will procure filters/pinholes as needed for the programs we support. As indicated in the RFP, we are only expecting the filter wheels support standard 1"/25.4mm filters.

4. Facility Constraints

- a. What are the maximum dimensions of the test station?

Only limitation is a ceiling height of 10 feet.

- b. What is the maximum weight of the Dewar/stand?

None. Lab was renovated with the expectation of large TVAC chambers up to 10000lbs.

- c. Are there any preferences on the orientation of or access to the Dewar?

No.

- d. Are there any constraints on the facility chilled water for the cryocooler compressor?

None

- e. Is there a constraint on the amperage of the cryocooler compressor, turbo station, or support electronics?

You can assume the lab has standard 20amp outlets and 50amp 208V 3-phase.

5. Pumping Station

- a. Is there a capacity specification (i.e. L/s).

No, but the selected pumping station should be commensurate with the proposed size of the test station.

End of addendum, all else remains the same.