REVISED
SPECIFICATIONS

LONG-WAVE INFRARED IMAGING RADIOMETER
CAMERA SYSTEM

1. Section 1.0, Introduction: Change “EDIP” to “CEDIP.”

2. Revise Section 2.0, Item J, to read: “The sensor shall be capable of accepting and implementing dynamic, user-defined input for sub-array windowing from a specification to an optional feature.”

3. Revise Section 2.0, Item K, to read: “The imaging system shall have a calibration and measurement temperature range of -100°C to 1500°C. The Contractor shall provide, at no additional cost, spectral response data from industry-standard procedures and temperature range(s) of calibration and measurement.”

4. Revise Section 2.0. Item P, to read: “The imaging system shall have the ability to interchange lenses and shall be delivered with a standard optics kit that includes a lens, which provides a horizontal field of view (FOV) as close as possible to 23˚. The lens shall have motorized focus for remote operation and a minimum focus distance not greater than 1.8 meters.”

5. Revise Section 2.0, Item Q, to read: “The imaging system shall have the ability to add, remove, and/or replace sub-band filters via a three-position minimum optical filter wheel. The filter optical wheel shall be capable of being removed and re-installed by NRL personnel without the use of specialized OEM tools and facilities. The optical filter wheel shall be capable of holding one-inch diameter sub-band filters that can be removed and replaced by NRL personnel without the use of specialized OEM tools and facilities. The Contractor shall provide documentation on filter self-emission data and the compensation method used in camera calibration (e.g., filter cooled or filter is reflected out-of-band with view of cold shield/detector). The Contractor is not required to provide any sub-band filters but may offer them as optional items.”

6. Revise Section 2.0, Item S, to read: “The camera shall be capable of remote operation over commercially available PC communications interfaces such as RS-232 and/or RS-485. A Window-based software application shall also be available for configuring, calibrating, operating and collecting imagery/data with the camera. The Contractor shall supply an Interface Control Document on the communication link to the camera.”

7. Revise Section 2.0, Item V, to read: "The system shall be delivered complete with all the required cabling and interfaces for power, communication, control, and data including two 15-meter cables – one cable for interfacing the camera with the current NRL IR Range framegrabber, Matrox Meteor II Digital (parallel digital RS-422), and control interface (RS-232 and/or RS-485); another cable for interfacing the camera with a Vivid Engineering Camera Link translator. NRL reserves the right to obtain the two 15-meter cables from a third party. The Contractor shall provide NRL with documentation necessary for the third-party fabrication of the two 15-meter cables, which will be used to perform a checkout of the system upon its delivery. The system shall be delivered in and complete with a reusable foam-lined, watertight case of high impact-proof material. "

8. Revise Section 3.0, Options, as follows:

" a. 7.6 to 10.3-micron FPA response
b. 7.6 to 11-micron FPA response
c. Standard LWIR lenses priced individually that will span an approximate horizontal FOV (HFOV) range of 2.5 to 38 degrees.
d. Custom LWIR lens with an HFOV between 22.8° and 25°
e. Custom sub-band one-inch-diameter filters such as 7.6 to 11 microns, 8.0 to 10.3 microns as applicable.
f. Standard or custom mid-wave IR lens that will provide an HFOV of 2° and weighing 10 pounds or less.
g. Remotely-controllable optical filter wheel.
h. Dynamic, user-defined sub-array windowing. "