

**Task Order Statement of Work  
Center Operations Directorate (COD)  
\*\*HUBZone Set-Aside\*\***

**1 Task Order Title:**

Integrated Operations (iOPs) Center

**2 Background and Purpose of Work to be Performed:**

Background

This project is one of 25 proposed efforts for the second year of the Condition Based Maintenance (CBM) program.

The objective of CBM is to improve the reliability and availability of equipment and to reduce the direct and collateral cost of unscheduled and emergency repairs while reducing overall maintenance costs. This is accomplished by conducting repairs based on the actual condition of the equipment instead of a schedule.

During the first year of the CBM program the basic infrastructure was setup. Hardware and software were purchased and implemented. Training was provided to LaRC staff. This new capability will be used by the operators and the duty officers in Building 1215, room 109A.

The proposed video wall will be used to display strategic information from the environment, with tactical information displayed on the operators \ duty officers work stations. Furniture will be purchased to support a more ergonomic work environment and accommodate the additional staff in the space. The furniture requirements were then reviewed with the ReVITALization office.

Purpose

The purpose of this effort is to provide the following hardware, software, and services to outfit the iOPs Center in Building 1215, room 109A:

- Video Wall
- Relocate Existing Displays
- Provide Video Processing
- Video Sources
- Audio
- Control
- Equipment Rack
- Furniture
- Integration
- Warranty

**3 Description of the Work to be Performed:**

The Contractor shall provide materials, engineering, installation and startup required to outfit the integrated operations center as follows:

3.1 Video Wall

- 3.1.1 Install a 2 high x 4 wide 55 inch LED LCD Video wall.
  - 3.1.2 Each display shall have a 1920 x 1080 resolution
  - 3.1.3 The wall will be installed on a base structure that will be anchored to the floor for load bearing purposes with horizontal supports anchored to the existing rear wall
- 3.2 Existing Displays
- 3.2.1 Relocate the two existing ceiling mounted 40 inch NEC multi-sync LCD's and ceiling mounts on either side of the video wall.
  - 3.2.2 These displays will be utilized to display cable television and will not be connected to the Barco CMS and are designated for displaying cable television.
  - 3.2.3 The displays and cable television tuners connected will be controllable via the Crestron
- 3.3 Video Processing
- 3.3.1 The video wall will be connected to a Barco CMS network based video display system.
  - 3.3.2 The CMS system will consist of a central server for administration and licensing, and video processors
  - 3.3.3 The CMS system will communicate using the existing network infrastructure.
  - 3.3.4 The government will furnish the LAN drops
  - 3.3.5 The video processors will be interconnected to provide a continuous pixel space in which to display content.
  - 3.3.6 All licensing for sources and content management is provided.
- 3.4 Sources
- 3.4.1 The video wall will display content from PC's (virtual and physical) using at the Barco Pro-serve client.
  - 3.4.2 One (1) cable tuner that is to be displayed on the existing GFE LCDs.
- 3.5 Audio
- 3.5.1 An audio playback system will be provided and installed so that audio from the cable tuner can be broadcast into the room from overhead speakers.
- 3.6 Control
- 3.6.1 A network connected Crestron control system will be provided.
  - 3.6.2 The Crestron system will be controlled using the Crestron XPanel application running on a government furnished PC
  - 3.6.3 The XPanel application will be configured to control the audio system, cable tuner and CMS system.
  - 3.6.4 Content management will be provided from the Barco SideBar Client running on a government furnished PC
  - 3.6.5 The Barco SideBar Client will be configured to support free form drag and drop sources and create additional layouts in a dynamic fashion.
- 3.7 Equipment Rack
- 3.7.1 A standard 19" 42ru APC Net Shelter rack will be provided
  - 3.7.2 The rack will be furnished with two Power Distribution units.
  - 3.7.3 The rack will house all necessary AV and IT equipment needed for the overall solution
  - 3.7.4 The government will furnish power for the rack

### 3.8 Furniture

#### 3.8.1 The following furniture will be delivered and installed

3.8.1.1 Three (3) 72 inch height adjustable operator consoles

3.8.1.2 One (1) 42 inch round conference / meeting table

3.8.1.3 Three (3) 8 foot x 8 foot workstation cubicles

3.8.1.3.1 Cubicles will have 42inch high walls along the window wall and 65inch high walls everywhere else.

3.8.1.3.2 Each cubicle will be provided with (2) File Storage Pedestals, Task Lighting, and overhead storage.

3.8.1.4 Eleven (11) chairs will be provided (seating for each position)

3.8.1.5 One (1) 5 foot half cubicle will be provided for the radio operator and associated equipment.

3.8.1.5.1 65 inch high walls will be provided for the half cubicle

3.8.1.5.2 Overhead storage will be provided for the half cubicle.

### 3.9 Integration

3.9.1 All necessary integration is provided for a turnkey solution, to include all travel costs and a half day of on-site user training.

### 3.10 Warranty & Service Agreement

3.10.1 A 90 day warranty will provided with the system

3.10.2 A 1 year silver level service agreement will provided with the system

## **4 Deliverables/Milestones:**

The Contractor shall deliver the following:

### 4.1 Hardware

4.1.1 Eight (8) 55 inch LED LCD's

4.1.2 One (1) video wall base structure

4.1.3 One (1) Cable Tuner

4.1.4 Two (2) Speakers

4.1.5 One (1) Crestron Control System

4.1.6 One (1) 19" 42U APC Net Shelter Rack

4.1.7 Two (2) Power Distribution Units

### 4.2 Software

4.2.1 Barco CMS video display system

4.2.2 Barco Pro-Serve client

4.2.3 Crestron XPanel application

4.2.4 Barco Side Bar Client

### 4.3 Furniture

4.3.1 Three (3) 72 inch operators consoles

4.3.2 One (1) 42 inch round conference / meeting table

4.3.3 Three (3) 8 foot x 8 foot workstation cubicles

4.3.4 Nine (9) chairs

4.3.5 One (1) 5 foot half cubicle

### 4.4 Documentation

- 4.4.1 Completed Acceptance Test plan
  - 4.4.1.1 Include the intended test procedure, the expected response, and the pass/fail criteria for every component tested
- 4.4.2 Installation Design Plan
- 4.4.3 As Built Drawings
- 4.4.4 Quick Reference Guide
- 4.4.5 Warrantee
- 4.4.6 Service Agreement
- 4.4.7 Operators and Maintenance Manuals for all components
- 4.5 Training
  - 4.5.1 ½ Day System and operational training

Changes to interim delivery dates shall be coordinated with and approved by the DCOR. Changes to the completion date must be approved by the Contracting Officer.

## **5 Government Furnished Items:**

The following will be provide to the Contractor:

- 5.1 Two (2) 40 inch NEC LCD's
- 5.2 Two (2) Ceiling mounts
- 5.3 Network connections as needed
- 5.4 Virtual Server for CMS system
- 5.5 Systems administration services required to install software
- 5.6 One (1) 20 amp, 120 volt circuit with an L5-20R connection will be provided at the base of the equipment rack
- 5.7 Two (2) 20 amp, 120 volt circuits will be provided at the video wall. The Circuits will each have a quad receptacle with mounting ears and be on a 6ft whip from under the raised floor. The Quad receptacle will be attached to the video wall structure by the integrator
- 5.8 The existing two outlets that are currently powering the Ceiling mounted LCDs will need to be relocated to the new mounting location.
- 5.9 The three 8x8 cubicles will require a single 20 amp circuit that will be hard wired by the GFE Electrician. The cubical power is interconnected of the single hard wired connection.
- 5.10 The Communication desk will require a single hardwire connection to be made by the GFE electrician. This can be interconnected to an existing circuit.
- 5.11 The three consoles will require a single 20 amp circuit. Each console requires a single duplex receptacle that can be interconnected to a single 20 amp circuit.

## **6 Other information needed for performance of task:**

- 6.1 The Contractor's proposal is due within 15 business days after receipt of this SOW.
- 6.2 The Contractor's proposed schedule and proposed planned start date for this task order shall include an allowance of (insert number of days) business days for Government review and approval, which begins on the date of proposal submission and ends on the proposed planned start date for the task order.
- 6.3 Material List for the Integrated Operations Center (iOPs – Material List.pdf)

6.4 Integrated Operations Center Drawings (iOPs – Drawings.pdf)

**7 Period of Performance:**

The period of performance shall be from date of task order award through December 31<sup>st</sup>, 2015

**8 NASA Technical Point of Contact (TPOC):**

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