

## **EXHIBIT B**

The Contractor will design and upgrade the Judicial Council's standard definition video studio to a high definition video studio and integrate it with existing infrastructure. The upgrade to the studio should include the following but not necessarily be limited to: 3 HD studio cameras complete with lenses with servo controller kit, teleprompters, HD viewfinders with tally lights, pedestals, camera control units and control panels. The video switcher, waveform/vectorscope monitors, teleprompting computer, closed-captioning encoder, character generator and Clear-Com system will need to be replaced. The new equipment will need to be integrated with the existing hard drive recorders and other equipment. The upgraded studio will need to be consistent with current industry standards and provide for video production with a minimum resolution of 1080p.

### **SCOPE OF WORK**

- A. The Contractor will provide Design and Integration Services, which includes design, assessment, procurement, assembly, installation, integration, testing, removal of obsolete cables and equipment, and project management.
- B. Provide all labor, materials, transportation and equipment to complete the design and installation resulting in a high definition television studio.

### **WORK TO BE PERFORMED**

- A. Design a plan to upgrade the existing SD video studio to HD video. The plan should identify options using the existing triax infrastructure and/or other cabling options such as fiber. The plan should include upgrading the studio cameras packages, switcher, waveform/vectorscope monitors, character generator, Clear-Com system, teleprompting computer, closed-captioning encoder and all necessary components to make the studio fully functional.
- B. Replace the three SD studio cameras with three HD studio camera packages, which should include camera body, lens with servo controller kit, teleprompters, HD viewfinders with tally light, pedestals, camera control units and control panels. Equipment can be substituted with similar features.
  1. Camera Body features:
    - Professional broadcast quality camera
    - Records at a minimum of 1080p
    - Digital Triax or fiber compatibility
    - Low light sensitivity

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- Shutter speed range: 1/60, 1/125, 1/250, 1/500, 1/1000, 1/2000
  - Inputs/outputs: 2 XLR audio inputs, return control input, prompter output, SDI output, Triax output or fiber output, intercom output, viewfinder output
  - Similar features to or exceeding Sony model #HSC-100R
2. HD Lens features:
    - Adequate lens for a 25' x 25' room
    - Aperture: f/1.8
    - Servo Zoom
    - Servo/Manual Focus
  3. Viewfinder features:
    - Minimum HD resolution: 960 x 540
    - Minimum screen size: 7"
    - Tally light
    - Lens hood
    - Adjustable positioning
  4. Pedestal features:
    - Load Capacity: 75 lbs.
    - Minimum height: 28"
    - Maximum height: 61"
    - Locking dolly wheels
  5. Fluid head features:
    - Counter balance system
    - Quick release plate
    - Tilt drag: minimum of 5 steps
    - Tilt range: +90° to -60°
    - Tilt lock
    - Pan range: 360°
    - Pan lock
  6. Camera control unit features:
    - Intercom connections
    - Tally connections
    - Return Video inputs
    - Reference inputs
    - Monitor outputs
    - Triax or fiber connections

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7. Control panel features:
  - White and black balance control
  - Iris control
  - Master black control
  - Shutter control
  - Master gain control
  - Assignable buttons
  
- C. Replace waveform/vectorscope monitors. Equipment can be substituted with similar features.
  1. Waveform/vectorscope features:
    - Video formats: 1080p/1080i/720p
    - Inputs: HD-SDI and 3G-SDI
    - Outputs: HD-SDI, 3G-SDI, and embedded audio from SDI
    - Monitor included
  
- D. Replace video switcher to a HD switcher. Equipment can be substituted with similar features.
  1. Video Switcher features:
    - Minimum of 12 HD inputs: 3G/HD-SDI
    - Character Generator
    - Control Panel
    - Tally Relay
    - Multiview outputs
    - HD outputs: 3G/HD-SDI
    - 2 M/E buses
    - Keyers with DVE
    - Multiple transitions and effects
    - Still Stores
  
- E. Replace all system-required components to make the studio fully functional. Components should include but not limited to:
  1. Distribution Amps
  2. Converters
  3. Power conditioner
  4. 3G SDI audio embedder/dis-embedder
  5. Test signal generator
  6. Master Clock with remote time display
  
- F. Replace teleprompting system, which includes hardware, software with licensing, and associated components. Equipment can be substituted with similar features.
  1. Teleprompter system features:

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- Should include: software, hood, mounting hardware, mirror, and screen
  - Minimum screen size: 17”
  - Viewing distance: 2’ to 40’
  - Inputs: SDI or HDMI
  - Tripod/pedestal mountable
  - Software should import Word documents and have editing functions
- G. Replace the closed-captioning encoder. Equipment can be substituted with similar features.
1. Closed-captioning encoder features:
    - 3G/HD-SDI compatibility
    - Integrated telephone modem for remote operation
- H. Replace current Clear-Com system. Equipment can be substituted with similar features.
1. Clear-Com system features:
    - Base station with 2 channels intercom
    - Loud speaker station
    - 8 headsets
    - 6 belt packs
- I. Integrate new switcher and cameras with multi-viewer monitors, which should display all camera sources, additional video inputs, teleprompter, CG graphics, preview, and program.
- J. Integrate HD video signal to existing hard drive recorders and other equipment.
- K. De-install all obsolete equipment and remove all obsolete cabling.
- L. Install and test new and integrated equipment including careful cable management.
- M. Test old triax infrastructure with the new studio cameras and ensure it is fully functional, if the plan is to continue to use triax cabling.
- N. Ground components and re-terminate cable or cable fittings.
- O. Manage cables and label all cables clearly.
- P. Create documentation and drawings for signal path routes and as built diagrams.

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## **DELIVERABLES**

### **A. Deliverable #1: Complete Design**

#### **Key Activities:**

- Schedule kick-off meeting with team to develop:
  1. Review and confirm Work To Be Performed
  2. Identify roles and responsibilities of team members and stakeholders
  3. Review and confirm sequencing of tasks
  4. Prepare project timeline/design
  5. Submit a draft project plan, including confirmed scope of Work To Be Performed, sequence of tasks for project, and project timeline for approval
  6. Develop and submit final project timeline for completion of Work To Be Performed
  7. Develop and submit final Integration Services Plan

### **B. Deliverable #2: Procure Goods**

#### **Key Activities:**

- Receive Judicial Council approval of final list of equipment and components to be purchased
- Purchase equipment
- Receive equipment
- Pre-install testing and configuring
- Provide a list of equipment purchased, received, status of pre-installation testing and configuring.
- Provide an Excel spreadsheet with the product description, manufacturer, model, serial number, quantity, and unit price.

### **C. Deliverable #3: Perform Integration Services**

#### **Key Activities:**

- Perform integration services onsite at the Judicial Council in San Francisco
- Deliver, assemble, install, test and integrate equipment and services into studio and control room
- De-install obsolete equipment
- Provide documentation of signal path and as built diagrams using PDF's and AutoCAD versions.
- Perform acceptance testing with Judicial Council staff member.
- Provide 4 hours of training with Judicial Council members.

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## **CONTRACTOR RESPONSIBILITIES**

The Contractor will have the following responsibilities under this Contract:

- A. The Contractor is the primary contact
- B. The Contractor will work closely with the Judicial Council Project Manager
- C. The Contractor will proactively assist with resolution of issues with any aspect of the Work

## **JUDICIAL COUNCIL PROJECT MANAGER RESPONSIBILITIES**

The Judicial Council Project Manager will have the following responsibilities:

- A. Manage, schedule, and coordinate the activities of the State's resources
- B. Make the work space available during standard business's hours, around the availability of the studio
- C. Provide the Contractor access to the Judicial Council location, all cable pathways, equipment, and facility spaces that are required
- D. Meet with the Contractor to conduct an assessment of the described Integration Work, prior to commencement of the Work, unless, otherwise expressly pre-approved in writing by the Judicial Council Project Manager
- E. Supervise and coordinate the Work of the Contractor
- F. Evaluate the work, provide punch list items, and provide Acceptance of the work upon completion of each defined phase of the project work and upon completion of the project work