

## **RFP SU-030717Revised: Design, Provide, Install Audio / Visual Upgrade to PepsiCo Theatre**

### **Questions and Answers**

#### **1. Is this a Prevailing-Wage project?**

Yes

#### **2. Is this a Union or Non-Union project? If union, is CWA or IBEW labor acceptable?**

Union labor is not a requirement for award.

#### **3. Who is responsible for pulling AV cable, installing AV equipment?**

The Offerer / AV Proposer is responsible for all cable and equipment installation, except as specifically listed in the RFP document.

#### **4. I assume this is a tax exempt project, please confirm.**

Yes.

#### **5. Please provide electrical infrastructure drawings.**

A full set of drawings electrical infrastructure drawings is not available. The RFP document specifies where power and data services will be made available. The Offerer will be responsible for providing and installing any needed additional wiring for their proposed equipment.

#### **6. Please clarify number of racks and locations.**

There is a 42U amplifier / data rack in the basement under stage left (PAL210-2 / B Trap). The entire rack is available for equipment. Available power and data services are detailed in the RFP documents. The PAC presumes that this location would be used to house cinema / multi-purpose amplifiers, etc.

There is a 44U rack downstage left backstage. The rack currently houses a stage box (Yamaha RIO3224-D), audio patch bays, UPS, etc. There is currently 12U of continuous rack space available which the PAC presumes would be a possible location for a speaker patch bay, as mentioned in the RFP.

There is a 42U rack, with at least 24U of continuous available space, in the stage right front of house service hallway at the catwalk level. This rack is well-positioned to offer the shortest possible cable runs for main sound system speakers and wireless microphone antennas. Data and power services available in the rack are described in the RFP document.

There are multiple existing racks in the audio section of the Orchestra level control booth. The paging / monitor amplifiers are located here. There is ample available rack space for an amplifier for the delay speakers. The booth racks also contain existing audio and speaker patch bays that will need to be modified as per the RFP.

#### **7. Please clarify expected location of projector.**

The projector will go in the center of the front of house Orchestra level control booth, between the sound and lighting control positions. In this position, the projector will be approximately centered on the horizontal and vertical axis of the screen.

The throw from the booth to the screen is approximately eighty feet. The PAC would like the projector to produce an image anywhere from 20' to 42' feet wide with an aspect ratio of 16:9 and an image brightness of anywhere from 14,000 to 18,000 lumens.

The center of the projector lens should be approximately 6'-3" from the booth floor. There is space to provide two racks, along the front to rear axis of the control booth, beneath the projector.

There is available exhaust fan ventilation duct above the projection position.

The Center will provide 208 power with a female receptacle to match the male receptacle of projector chosen on the downstage wall of the booth, directly in front of the projector position. Center will also provide (2) dedicated 20amp Edison quad boxes for supporting projection equipment

**8. Per section D. I. requesting a predictive computer modeling of proposed system performance: a RT60 acoustic analyzation of the room would be needed before the computer model could be provided. Is this available?**

An RT60 acoustic analyzation of the room is not available. An .svd Soundvision format model is available, along with the drawings posted on the Procurement Opportunities web page.

**9. Per II b. 2. PAC would like 5.1 surround – see no need for rear surround & 8. Base speaker design on QSC Audio SC-424-8F (may need to quote from QSC) – However there is a 7.1 channel processor in scope section IX for use with projector. Please clarify.**

The QSC SC-424-8F is one model identified by the PAC's internal research as possibly meeting our needs, as outlined in the RFP. The PAC is open to consideration of other models that meet our requirements, particularly with regard to durability and ease of hanging / removal for other events. The PAC is aware of the SMPTE specification that calls for a maximum output of 103.5 dB SPL but is not insisting on full standards compliance given the size of the venue and the nature of our programming.

**10. Please clarify how VOX paging is expected to operate.**

The venue currently has a monitor / paging system which serves the dressing rooms, etc. The system has volume control override relays on the speakers to allow paging mic audio to override program audio and be heard at a fixed volume level, regardless of the speaker attenuators setting. In the current configuration, the PAC uses paging microphones with a contact closure output. Currently, the paging microphone keys a set of relays that manages the volume override relays and provides a contact closure to key the mute bus on the paging amplifier. The paging amplifier is a Toa 912MKII. Currently there is no mute activity on the paging mic input and the program input is configured for mute receive. The PAC would like to re-configure the system to allow use of paging microphones without contact closure by replacing the paging input module with one configured for voice operated mute send and by providing a means for the amplifier's mute bus to provide a contact closure to activate the override relay pack (instead of the current arrangement where the relay pack activates the mute bus on the amplifier. Additionally, as mentioned in the RFP, the PAC is looking to insert Dante input / output modules into the paging and program audio chains. To better explain the reasoning behind the request, the PAC is a multiple venue facility and large events frequently need to use dressing rooms physically associated with other venues. The ultimate goals of the requested modifications are to allow input and out of paging and program audio from other sources and / or to link systems across multiple venues on an as needed basis.