



## 2004 TECHNICAL REQUIREMENTS

### **Overview:**

This is a pops style concert with a conventional rock band, and symphony accompaniment. The technical package should serve as basic template for regional sound companies, venues, and orchestral technical staff. While the production requirements for this concert are modest, it is important that the minimum production guidelines are followed to ensure the best possible performance. Since there will be a considerable amount of stage volume from the instruments, it is recommended that an orchestra shell not be used.

### **Main Speakers:**

The main speaker system shall be 3, 4, or 5 way, and capable of delivering 105db of clear undistorted, even SPL from 18Hz to 20KHz throughout the performance space. Subwoofers should be driven from a post fader auxiliary buss on the console. Preferred cabinets are: Adamson, EAW, Meyer, Electrovoice, or JBL. The system should be flown when ever possible. Smooth, distributed even coverage rather than SPL should be considered when arraying the PA system. Sufficient power amplification such as; Crest, Crown, or QSC, is preferred. Special consideration should be given to delay and front fill speakers if the venue depth and width is a concern. Sightlines should also be taken into consideration if the P.A. system is ground stacked. The system shall be free of hums, buzzes, and phasing problems.

### **F.O.H Console:**

The Front of House console shall be a minimum of 48 mono inputs w/ 8 sub groups, 6 auxiliary sends, and 4 stereo returns. Each mono input shall contain a variable HPF filter, 4 band sweepable equalizer, phantom power, and insert point. Preferred consoles are: Yamaha, Midas, Soundcraft, or Crest. If a 48 channel console cannot be provided, then 2-24 channel consoles with the above mentioned facilities will be required.

### **F.O.H Processing and Drive:**

F.O.H. Processing shall consist of the following: 4- Digital Effects Devices ( Yamaha SPX Series , Rev5, T.C. Electronics M2000, M3000, D2, Lexicon PCM 70, 91, Roland SDE 3000), 8- Insertable Compressors, 4- Insertable Gates ( BSS, dbx, Presonus), 1- 1/3<sup>rd</sup> Octave Equalizer with a variable HPF filter is required for each separate zone of audio. Preferred equalizers are Lake Mesa, TC EQ Station, Klark Teknik , and BSS.

### **Audio Snake System:**

The audio snake shall have a minimum of 48 inputs for FOH, and for the monitor console. The monitor split should be transformer isolated, and should contain a ground lift on each channel. Please ensure that all channels on the audio snake are in proper working order.

### **Stage Monitor System:**

The monitor console shall be a minimum of 48 mono inputs and should be capable of supplying at least 12 separate monitor mixes. Each mono input shall contain a variable HPF filter and 4 band sweepable equalizer. A minimum of 12-1/3<sup>rd</sup> Octave Equalizers shall be provided, with 1- 1/3<sup>rd</sup> octave EQ inserted on each mix. The stage monitor system shall consist of at least 10- two way bi-amplified stage monitors w/ 1-12" and 1-2" component per monitor , 2- 2-way bi-amplified side fills w/ 2-15" and 1-2" per cabinet, and 4-passive stage monitors for use in the orchestra brass and

percussion sections . Sufficient power and crossovers shall be provided for each mix. Extra monitors and mixes for the orchestra sections will be advanced on a per show bases, and will be at the discretion of the orchestra.

**Stage Requirements:**

Minimum stage size shall be 40' Wide x 40' Deep x 3' High. Stairs and handrails need to be provided as well.

**Riser Requirements:**

Drum Riser : 3 Risers @ 4'x8'x24" (12'x8'x24" Riser)

Orchestra Risers: 6 Risers @ 8'x4'x 8" (Tier #1)

Orchestra Risers: 6 Risers @ 8'x4'x 16" (Tier #2)

Orchestra Risers: 6 Risers @ 8'x4'x 32" (Tier #3)

\*\*See Stage Plot for further information\*\*

**Stage Lighting:**

The lighting should consist of enough fixtures to provide an even 3 color wash on the staging area. 1-Follow Spot is also required.

**Power Requirements:**

*Main Audio System:*

Minimum power requirements should be at the discretion of the sound company.

Adequate stage power for the band will need to be provided by the sound company.

*Main Lighting System:*

Minimum power requirements should be at the discretion of the lighting company. Power for music stand lights should be provided by the lighting company.

**Backline:**

Backline requirements for the Gary Puckett Band are enclosed with this package.

**Microphone Selections:**

The microphone selections that are listed on the input list are only suggestions. We realize that all production companies do not have the same inventory. Due to the amount of stage volume contact mics on the strings are preferred. If contact mics are not available, then a good large condenser, or dynamic microphone is preferred. Microphones will be advanced on a per show bases. There may be some instances when the MusiQuest technical staff may provide some of the orchestra microphones. 1 Shure UHF Series HH SM58, or SM87 Wireless Microphone will need to be provided by the sound company for use on Gary Puckett. Please make sure that all microphones, stands and cables are in good working order

**NOTE:** If any of the above production requirements cannot be provided, or if there are any questions regarding these requirements, then please contact Mariano Longo immediately, so that appropriate arrangements can be made with their preferred sound and lighting vendor.