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Geneva School District

To: Donna Oberg
CC: Tom Rogers, Jim Kafer
From: Elizabeth Janowiak
Date: June 17, 2014

Please submit this purchase information to the BOE for the June 23, 2014 meeting.

The Comprehensive Technology Plan includes the updating of the gymnasium sound system at Geneva High School. In collaboration with the high school administration and athletic staff it was determined that the audio issues that currently exist in the contest gym require the most immediate attention.

Proposals for an upgraded sound system were sought from three vendors. The following quotes were provided:

Pentegra Systems	\$28,329
Hear No Evil Productions	\$26,239
GE Corp Events	\$22,070

Pentegra's proposal, although not the most inexpensive, was the most comprehensive and offered the best value for the equipment provided. Pentegra's design philosophy was to improve on what we already have in place as opposed to simply updating the existing equipment. Their proposal includes accommodations for distributed sound and speech intelligibility, as well as a touch interface for simplified management. The GHS contest gym is used for a variety of activities; therefore it is critical for the sound system to be properly engineered, using reputable equipment that is reliable and easy to use, and produces consistent, quality audio.

Pentegra has years of experience with the installation of similar gymnasium sound systems. Our staff visited or spoke with references at Kaneland High School, Rolling Meadows High School, and Robert Morris University. All of these customers were extremely satisfied with their new systems.

Another important distinction between the proposals is that Pentegra's labor costs comply with the IL prevailing wage act, thus adding to the overall cost of their proposal.

It is our recommendation that we accept the proposal as submitted by Pentegra Systems. Details of this proposal are included on page two of this memo.

Scope of Work

Pentegra Systems will replace the current analog based sound system with a state of the art digitally controlled system. The new system will boast several major advancements that dramatically improve stability, sonic performance, and speech intelligibility:

- New input wiring will be installed.
- The entire system will be under control of a digital signal processor. This device performs all input and loudspeaker equalization, balancing, level and dynamics control. The device is programmed via secure computer link and has no knobs or levers that may be mis-adjusted or tampered with.
- New speaker systems will be installed to provide maximum coverage to the playing field.
- Dedicated zones of loudspeakers will cover the bleacher seating.
- A small portable case will be provided with an easy to use mixer and wireless microphone. This will allow operation of playback audio and wireless microphones from the announcer's position.

Contest Gym Sound System Upgrade

Custom input plate will be installed at wall adjacent the commencement stage location. This plate will contain a microphone input as well as an input to accommodate a computer, Ipad, or other type of MP3 player.

- The existing equipment cabinet will be re-used.
- Internal power distribution for the equipment cabinet with external master switch will be provided.

SHURE wireless hand held microphone system will be installed in the equipment rack.

BIAMP digital signal processor will be installed. This device performs all input and loudspeaker equalization, balancing, level and dynamics control.

BIAMP remote control panel for the above mentioned processor will be installed at the equipment cabinet. This will allow for speaker zone and mode selection.

4 Power amplifiers by QSC will be installed.

14 ELECTRO-VOICE 12" 2-way high output speakers will be installed on the steel beams of the field house ceiling. Two zones of 4 speakers each will provide coverage to the Home and Visitor Bleachers. The playing courts will be covered by 6 additional speakers.

- All necessary cable, connectors, hardware, and miscellaneous materials required to complete the project in the most professional manner achievable.