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## ELECTRO-VOICE® X-LINE™ INSTALLED AT CLEMSON UNIVERSITY

Clemson, SC (April 2, 2003): The Winston-Salem NC division of One Source Building Technologies (formerly known as Long Communications) and Dallas based acoustic design consultants Wrightson, Johnson, Haddon & Williams recently installed Electro-Voice X-Line loudspeaker arrays and HP horns at Clemson University's Little John Coliseum. One Source's Joe Davidson and WJHW's Gary White described the installation at Clemson, and why Electro-Voice X-Line was selected as the sound solution there:



White Electro-Voice X-Line Line Array Loudspeakers Cover the Coliseum

Joe Davidson outlined the project: "One Source were the installation contractors; the system was designed by WJHW and put into use on January 5<sup>th</sup>. The arena is approximately 300 feet square. The EV design used four clusters of four medium-throw 120-degree coverage X-Line Xvlt boxes. The contract documents presented two types of loudspeaker systems in the base design. One option was to use another manufacturer's cabinets in four clusters around the scoreboard. However, using the X-Line Xvlt boxes allowed us to speed up the installation process in every aspect, from aiming to actual installation. The aiming software and rigging design really helped save time. As is usual in these kinds of arena installations, scheduled events mean that contractors are working to tight deadlines. Every detail makes a difference: The X-Line

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had the edge in terms of providing a quick and efficient solution in a highly reverberant space."



Side View of a Four-Speaker Array of White Electro-Voice X-Line

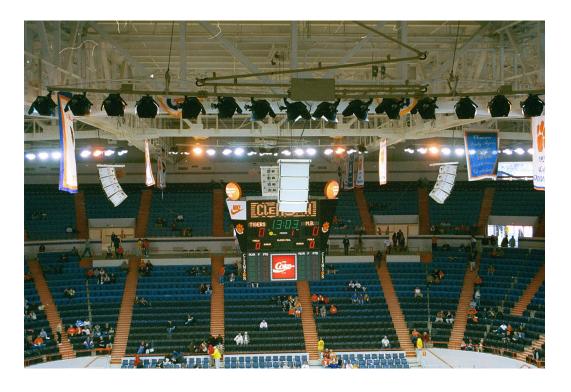
Gary White described the system design: "The space is a typically sized college arena of approximately eight thousand seats, but it's a more square-shaped building than the usual rectangular or round geometry. WJHW has a lot of experience in sports facility installations, though this was the first time we'd used a line array in one. Electro-Voice came down to Dallas a couple of years ago to demo a pair of X-Line arrays in the Reunion Arena, having invited sound professionals from the Dallas-Fort Worth area to come and hear the new technology. We heard it and thought it to be a credible option for some of the projects we had in house. We thought that the Clemson project would be an ideal opportunity to try out the Electro-Voice line array. We started the Clemson project with two potential sound solutions: the EV X-Line and a more conventional cluster using trapezoidal boxes. Both systems would provide good sound coverage and quality, and we gave the bidders the choice of using either one. The X-Line configuration was four arrays of four Xvlt boxes. We worked with Bill Gelow and Monte Wise at EV in developing the design using the X-Line. They were very helpful in terms of educating us about EV's EASE 3.0 modeling and aiming technology for the X-Line components, and also helped with the type, power and quantity of amplifiers we needed, along with required processing."

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Gary continued: "We used Electro-Voice HP 640 horns too. These were used to provide some coverage to the sideline and endline seats, because we weren't able to put speakers on the bottom of the scoreboard. We needed coverage there because the X-Lines hang directly above those seats and we had not planned on putting any down-fill boxes off of the line array in lieu of the scoreboard mounted cabinets. The existing scoreboard wouldn't support any additional weight at all, so we decided to hang two of the HP 640's on each sideline and each endline catwalk to provide sound to those areas, and we then delayed them to match the sound coming from the X-Line. We had lots of low end already from the XvIt boxes; we just needed more intelligibility above 1.5 kHz. The HP horns gave us that. This was a particularly inexpensive and effective solution to a common problem in these kinds of spaces. One Source Technologies came up with an elegant mounting solution using an omnimount bracket to bolt to the side of the steel truss. We had the outputs off the DSP and the amplifiers all ready from the speakers that were originally going to be on the scoreboard, so this was a real slam-dunk solution! Bill Gelow and Monte Wise came down to perform the initial aiming and setup, and WJHW came back later to tweak out the EQ. Again, EV's support and interest in getting the X-Line into this kind of application was a real advantage, and suggested how useful the X-Line array could be on future projects like this.

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