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Annual Report for 1991 Experimental Station KA2XZE

Two air shows were performed in October, 1991. The first was a Bergstrom AFB, Austin Texas, and the second at Naval Air Station Dallas, Dallas Texas.

Bergstrom Air Force Base: Due to past experience of disarray between the public address system and the broadcast, an experimental wireless public address speaker system was built to determine the feasibility at this air show. The environment was noisy and windy. One special speaker with a 4" throat was used on top of a building. The broadcast was performed on the flight line, in the communications trailer. The show narration and all information went over the FM band, and was also picked up by FM tuners that then placed the programming over a public address system. This allowed audio to be received in places it would not have been possible without the broadcast.

The experimental speaker system had an automobile radio, feeding a crossover network, an equalizer, and large 12 volt amplifier. The speaker performed better than expected. The Air Force had several different systems they provided, all worked quite well from the broadcast. The number of portable radios with the spectators could not be determined.

Naval Air Station Dallas: Commander Peck's letter of appreciation is enclosed. This show had approximately 300,000 Saturday, and a larger crowd on Sunday. The broadcast was set up at show center, and operation was from a Navy supplied van. Programming was developed unless the show announcer or Blue Angels announcer was on, at that time the programming was switched to their input. The Blue Angels Public Relations officer commented on our professional work, and they were favorably impressed. Mr. Gary Emery, of our team, wrote and produced information segments that were very well received. Again the experimental speaker was tested, and this time with over ten knots of wind into the speaker. It was very satisfactory.

Conclusion: The quantity of spectators receiving the program is difficult to determine. By using the programming and broadcast capabilities to a large speaker, all present hear the program without the danger or loss of audio with wires. The quality is far superior to any thing people have heard before in such an environment. With portable radios, the noise and distance make no difference. The system proves very satisfactory.