

# **ERI<sup>®</sup> Electronics Research, Inc.**

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## Directional Antenna System For WCCV, Cartersville, Georgia

December 12, 2000

Electronics Research Inc. is providing a custom fabricated antenna system that is specially designed to meet the FCC requirements and the general needs of radio station WCCV.

The antenna is the ERI model 1091-2CP-DA configuration. The circular polarized system consists of two driven circular polarized radiating element, three horizontal parasitic elements placed one quarter wave above and below the bay and two vertical parasitic elements. The antenna was mounted on the North 338 degrees East tower face with bracketry to provide an antenna orientation of North 338 degrees East. The antenna was tested on a 15" **ERI<sup>®</sup>  $\lambda$  MOUNTING SYSTEM**, which is the structure the station plans to use to support the array. All tests were performed on a frequency of 91.7 megahertz which is the center of the FM broadcast channel assigned to WCCV.

Pattern measurements were made on a sixty-acre antenna pattern range which is owned and operated by Electronics Research, Inc. The tests were performed under the direction of Thomas B. Silliman, president of Electronics Research, Inc. Mr. Silliman has the Bachelor of Electrical Engineering and the Master of Electrical Engineering degrees from Cornell University and is a registered professional engineer in the states of Indiana, Maryland and Minnesota.