



COMMUNICATION TECHNOLOGY

A Division of SPX Corporation

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Mr. Ben Miller
Vice President, Engineering
Trinity Broadcasting Network
2442 Michelle Drive
Tustin, CA 92780

Subject: WWTO-TV Antenna Model Clarification

Dear Ben:

This letter is intended to confirm our discussion regarding the antenna type description listed on the Construction Permit for WWTO-TV (Permit File Number: BPCDT-20080611ACK) and the Antenna Type shown on the Dielectric documentation (Proposal # C-03754-2) provided with the recently shipped antenna.

The antenna type description listed on the CP is THB-C2-6/12-1 SPECIAL. This description was based on a panel antenna design for DTV Channel 10 that produced the azimuth pattern as tabulated for Antenna ID No.: 92202 in the FCC CDBS database. This antenna panel design utilized a single radiator per panel.

At the time of fabrication, it was determined that an antenna panel design that utilized two radiators per panel would produce the same pattern as that specified on the CP. The advantage of that design was to reduce the number of feed cables that needed to be mounted inside the tower with and to lower the windload of the antenna on the tower. For Dielectric, this change modified the antenna type nomenclature used in the manufacturing process to THB-C2SP-3/9HD-1. The "SP" represents the "SPECIAL" from the original type description and the "3/9HD" represents the use of "duplet panels" for a high VHF application.

Although we used duplet panels, the antenna length (height), antenna center of radiation and the antenna radiation patterns are exactly the same for both antenna type descriptions. These performance characteristics meet the specification requirements listed in the above mentioned Construction Permit.

I hope this clarification explains the reasoning behind the information Dielectric provided with the shipped antenna. For future reference, both of the above antenna type descriptions will be associated with this specific project in Dielectric's project records.

Please give me a call if you have questions or need additional information.

Regards,


Kerry