

**Engineering Statement  
KTRG Channel 28 Del Rio, TX  
Request to Modify STA Digital Facility  
SATV, LLC**

**I. General**

The purpose of this engineering statement is to support a request to modify the Authorized STA facility for Channel 28 DT Del Rio, TX. The proposed modification only slightly changes the authorized antenna from an Omni-directional radiation pattern to a wide lobe directional pattern. This configuration is demonstrated in Exhibits SVC-1 and ANT -1. This changes results in a loss of only 212 persons from the currently authorized facility. This modified facility would service 83% of KTRG DT Channel 28's Appendix B service population and 100% of its community of License requirement. The technical parameters for this proposed facility do not exceed those of its Appendix B facility.

**II. Engineering**

**A. Proposed Site:**

KTRG DT Channel 28 will operate with 11.14kW ERP at the Horizon with a Directional Dipole antenna array with the main lobe oriented 22 degrees at the following NAD27 coordinates:

Latitude 29-20-39

Longitude 100-51-39

This site is the listed site for the KTRG DT Channel 28 Appendix B facility, ASR #1036769.

The site will operate at the following elevation parameters:

AGL 90m

GAMSL 321.80m

RCAMSL 411.80m

HAAT 103.05m

**B. Interference Protections:**

There is no predicted interference above de minimus to adjacent facilities.

**C. Radiofrequency Radiation Hazard to Humans:**

There is no predicted Radio Frequency Radiation hazard to humans. In addition,

Effective radiated power will be lowered to allow for maintenance operations on the tower.

