TV CHANNEL 6 INTERFERENCE STUDY

A study of the Commission's database reveals that the nearest channel 6 television facility is WBRC Birmingham, AL. WBRC is located within the minimum distance specified by the Commission and therefore must be considered. WBRC operates with 100kW at 615m COR AMSL. Coordinates for WBRC are: **33-29-19** **86-47-58**

The WBRC contours were plotted on a map and the affected contour was found to be the 69.5 dBu contour.

The population within an area of interference using a maximum of 11.5 kW would exceed the commissions population limits of 3000 persons, therefore the applicant chooses vertical only polarized transmissions. CFR 47 section 73.525 (4)(I) states the maximum permissible vertically polarized ERP will be the maximum horizontally polarized ERP permissible at the same proposed height, calculated without the adjustment for television receiving antenna directivity specified in paragraph (e)(iii) of the section, multiplied by either: 40 if the predicted interference area lies entirely outside the limits of a city of 50,000 persons or more; or 10 if it does not. A horizontal ERP of .2875 kW (11.5/40=.2875) is used to calculate the area of interference. This power level causes no interference persons because of the lack of overlap of relevant contours.

Pursuant to Section 73.525, applicant proposes vertical only polarity of 11.5 kW. The attached exhibit indicates no overlap relevant contours, a population of less than 3,000 persons are affected by the proposed channel and as such the proposed is in compliance with 47 CFR 73.525 of the Commission's Rules.