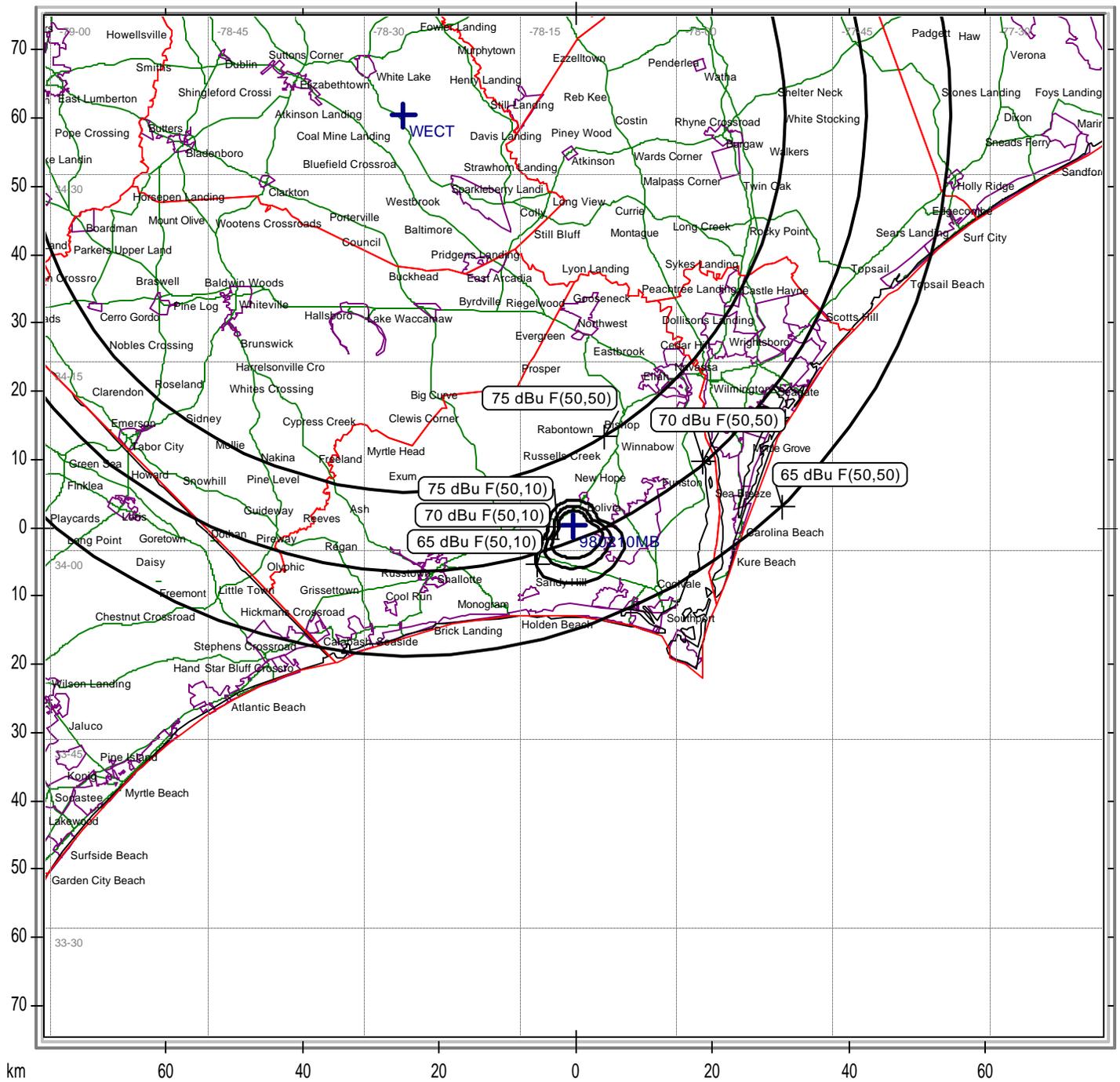


## TV CHANNEL 6 INTERFERENCE STUDY

A study of the Commission's database reveals that WECT Wilmington, NC is located within the minimum distance specified by the Commission and therefore must be considered.. WECT operates with 100kW at 612m COR AMSL. Coordinates for WECT are: **34-34-43 78-26-13**. The population within an area of interference using a maximum of 20kW would exceed the Commission's population limits of 3000 persons, therefore the applicant chooses vertical only polarized transmissions. CFR 47 section 73.525(e)(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)(1)(iii) of this 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 .500 kw ( $20,000/40 = .500$ ) is used to calculate the area of interference. The WECT F(50,50) contours and the appropriate proposed interference contours were plotted using RadioSoft ComStudy 2.2. and a population count within the predicted interference area came to 2,193 people. The map is attached.

**Pursuant to Section 73.525, applicant proposes a vertical only E.R.P. of 20kW, the above statement indicates a population of less than 3000 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.**



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