

RF HAZARD STATEMENT
PROPOSED FM BROADCAST STATION WAZO
SOUTHPORT, NORTH CAROLINA
CHANNEL 298C1 100 KW 178 M HAAT

With respect to the potential for human exposure to radio frequency (RF) radiation, calculations prepared in accordance with FCC Bulletin OET-65 (Edition 97-01) indicate that the proposal will not result in human exposure to RF radiation at ground level in excess of FCC standards. Power density calculations were conducted at 2-m above ground* based on the following conservative assumptions, with the following results:

Call Sign	Channel	Average ERP (kW)	Relative Field Factor [†]	FCC Limit [‡] (mW/cm ²)	Percentage of Limit
WAZO	298	200 (H + V)	0.20	200	4.5%

As indicated above, the exposure to RF radiation at 2-m above ground level will not 4.5% of the FCC limit for general population / uncontrolled exposure. Therefore, the proposal complies with the FCC limits for human exposure to RF radiation and it is categorically excluded from environmental processing. The applicant, in coordination with any other users of the transmission facility, shall reduce power or cease operation as necessary to protect persons having access to the tower or antenna from radio frequency radiation in excess of the FCC guidelines.

* The radiation center height above ground is 175 m.

† This is a conservative estimate of the relative field factor in the downward direction. See attached elevation pattern for proposed ERI model SHPX-12AC6-HW, 12-bay transmitting antenna.

‡ for general population/uncontrolled environments

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FIGURE H12

-----THEORETICAL-----
VERTICAL PLANE RELATIVE FIELD

12 ERI TYPE SHP, SHPX, LP, OR LPX ELEMENTS
0 DEGREE(S) BEAM TILT
0 PERCENT FIRST NULL FILL
0 PERCENT SECOND NULL FILL

MAY 24, 1993
ELEMENT SPACING:
0.5 WAVELENGTH

POWER GAIN IS 8.732 IN THE HORIZONTAL PLANE(3.732 IN THE MAX.)

