

APPLICATION FOR STATION LICENSE
SINCLAIR COMMUNICATIONS
WROX-FM RADIO STATION
CH 241B - 96.1 MHZ - 23.0 KW
CAPE CHARLES, VIRGINIA
April 2002

EXHIBIT A

WKHT Transmission System Calculations

Effective Radiated Power:

Horizontal	23.0 kilowatts
Vertical	23.0 kilowatts

Antenna:

Electronics Research SHP-5AE
5 bay full wavelength
Horizontal gain 2.7154

Transmission Line:
(456 feet)

Andrew HJ8-50B
3.0 inch air dielectric
86.6% efficiency

(250 feet)

Cablewave HCC-300-50J
3.0 inch air dielectric
93.1% efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

10.51 kilowatts

Facilities Authorized:

Channel 241B - 96.1 MHz

Effective Radiated Power:

23.0 kilowatts (H/V)

Geographic Coordinates:

North Latitude 37° 15' 45"
West Longitude 76° 00' 45"

Antenna Center of Radiation:

Above Ground	218.0 meters
Above MSL	227.0 meters
HAAT	220.0 meters

FCC Tower Registration Number:

1035317