

APPLICATION FOR STATION LICENSE
APEX BROADCASTING, INC.
WALJ RADIO STATION
CH 286A - 105.1 MHZ - 2.60 KW
NORTHPORT, ALABAMA
September 2011

EXHIBIT A

WALJ Transmission System Calculations

Effective Radiated Power: 2.60 kilowatts (horizontal/vertical)

Antenna: Electronics Research LPX-2E-HW
2 bay half wavelength spaced
Horizontal gain 0.702 (horizontal/vertical)

Transmission Line: Andrew Corporation HJ12-50A
(336 feet) 2 1/4 inch air dielectric
87.5% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power: 4.23 kilowatts

Facilities Authorized: Channel 286A - 105.1 MHZ

Effective Radiated Power: 2.60 kilowatts (H/V)

Geographic Coordinates: North Latitude 33° 12' 29"
West Longitude 87° 43' 10"

Antenna Center of Radiation: Above Ground 98.0 meters
Above MSL 226.0 meters
HAAT 154.0 meters

Antenna Structure Registration #: 1033606