

APPLICATION FOR STATION LICENSE
THE UNIVERSITY OF TENNESSEE
WUTM RADIO STATION
CH 212A - 90.3 MHZ - 0.175 KW
MARTIN, TENNESSEE
August 2011

EXHIBIT A

WUTM Transmission System Calculations

Effective Radiated Power:

Horizontal	0.175 kilowatt
Vertical	0.175 kilowatt

Antenna:

ERI Model 100A-2F
2 bay full wavelength spaced

Horizontal gain

0.90

Transmission Line:
(270 feet)

Andrew Corporation LDF4-50A
1/2 inch foam dielectric
66.8% Efficiency

Required Transmitter Power Output
To Reach Effective Radiated Power:

0.291 kilowatt (291 watts)

Facilities Authorized:

Channel 212A - 90.3 MHZ

Effective Radiated Power:

0.175 kilowatt (H/V)

Geographic Coordinates:

North Latitude	36° 20' 23"
West Longitude	88° 51' 35"

Antenna Center of Radiation:

Above Ground	76.0 meters
Above MSL	196.0 meters
HAAT	86.0 meters

Antenna Structure Registration Number:

1262806