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THE UNIVERSITY OF NORTH CAROLINA

PREMITTEE OF W51EE-D

LAKE LURE, NORTH CAROLINA

FAC ID# 168595

FCC FILE # BDCCDTT-20060915AOA

**APPLICATION FOR A CONSTRUCTION PERMIT FOR
A MINOR RELOCATION OF THE TRANSMITTING FACILITIES
FOR W51EE-D**

ENGINEERING EXHIBIT 11

January 16, 2007

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**THE UNIVERSITY OF NORTH CAROLINA
REASEARCH TRIANGLE PARK, NC
APPLICATION FOR A CONSTRUCTION PERMIT FOR
A MINOR RELOCATION FOR W51EE-D**

EXHIBIT 11

FACILITIES REQUESTED

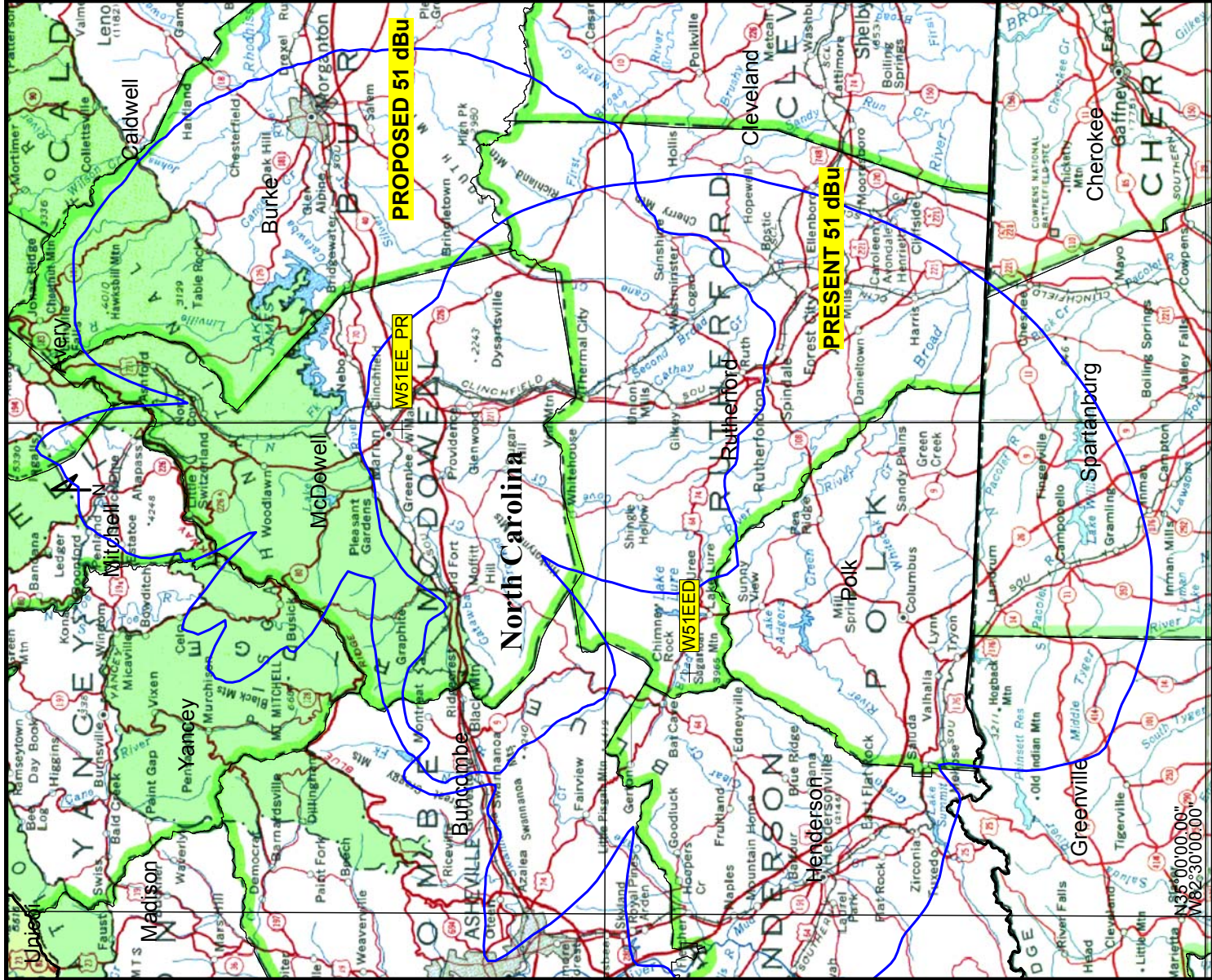
THE UNIVERSITY OF NORTH CAROLINA (UNCTV), is filing this minor application for W51EE-D, FCC File No.BDCCDDT-20060915AOA, to request authority to relocate the transmitting facilities to a new site with an effective radiated power of 0.5 kW (non-D), (H). As shown in Figure 1, the proposed relocation meets the requirements of a minor change to a TV translator by the proposed 51 dBu F(50,90) coverage overlapping the existing 51 dBu F(50,90) coverage.

Pursuant to FCC Public Notice, DA 06-1748 and Rules regarding digital LPTV stations, this office, with assistance from Techware, Inc., has completed a Longley-Rice analysis of the proposed digital operation on TV Channel 51 with an ERP of 0.5 kW, a “Stringent” channel filter per 74.794, and utilizing a Scala SL-8 non-directional antenna and that study shows that no prohibited interference will occur to any other authorized or pending full service and LPTV

analog or digital station as required by 74.792 and 74.793. The results of the Longley-Rice Study can be supplied to the staff if needed.

CONCLUSIONS

By using the FCC recognized Longley-Rice terrain model and receiver antenna directivity, we have shown that the instant proposal for DTV operation on CH 51 meets the requirements for a minor relocation for W51EE-D, Channel 51 and we believe that this proposal for a minor relocation of the transmitter of W51EE-D on Channel 51 should be GRANTED.



SIGNAL™: W51EE_D_relocation.map

Prop. model: FCC-FCC
Time: 90.0% Loc.: 50.0%
Prediction Confidence Margin: 0.0dB
Climate: Continental Temperate
Land use (clutter): USGS-EDX format (.151 files)
Atmospheric Abs.: none
K Factor: 1.333
RX Antenna - Type: ADAPTIVE
Height: 9.2 m AGL Gain: 6.00 dBd

Sites

Site: W51EE_D
N35°25'49.00" W82°15'17.00" 878.0 m
W51EEED Tx.Ht.AGL: 33.0 m Total ERPd: -3.00dBkW
Grp: 1 omni-horizontal/0.0° 692.3100 MHz

Site: W51eed_Proposed
N35°40'10.00" W82°00'24.00" 596.0 m
W51EEE_PR Tx.Ht.AGL: 48.0 m Total ERPd: -3.00dBkW
Grp: 1 omni-horizontal/0.0° 692.3100 MHz

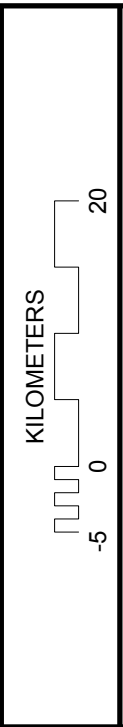
Interference contour study

Propagation methods:
service contour : FCC-FCC 90.0%

= 51.0 dBuV/m service contour

Notes

Present and proposed
51 dBu f(50,90) service contours.
prepared by
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SERVICE OVERLAP
W51EE-D Lake Lure NC

Figure 1

1/12/2007