

ENGINEERING STATEMENT

LONG-FORM APPLICATION FOR A NEW FM TRANSLATOR

SUMMARY

Community Media Assistance Project (CMAP), formerly known as Northwest Community Radio Project¹, hereby submits a 349 Long-Form application, to serve Donelson, TN. The original Short-Form submission was BNPFT-20030317MAu. An LPFM Preclusion Study was included as part of the amended Short Form and Settlement, filed in July, 2013. The antenna height is increased, but the ERP is reduced. Not other changes are proposed herein, from the amended Short-Form. Since the location and translator-class status has not changed, the last-filed LPFM Preclusion is still completely valid. Hhowever, the Preclusion Map is attached herein, in Attachment 1.

CMAP is a non-profit organization. This proposal would rebroadcast WFRN-LP, Pasquo, TN.

¹This name change has been duly registered with the State of Oregon. The FCC Auctions Desk was notified of the change, by letter, on March 20, 2013. The FRN and CDBS records have been updated. There has been no change in the mission, purpose, or board members of the organization, since its inception in 2003. Only the name has changed. The original 2003 Short Form was filed under the “old” name.

EXHIBIT 13

FM OVERLAP REQUIREMENTS

INTERFERENCE PROTECTION

This application meets all requirements of 47 CFR §74.1204 regarding interference protection to other stations and authorizations. See **Exhibit 13a**.

Contour protection to 2nd adjacent stations WUBT, Russelville KY, and WRLT, Franklin, TN, are provided using the ratio method. WRLT is the worst case. The F(50/50) contour of WRLT is 61.45dBu at the proposed translator site. Using the appropriate U/D ratio of 40dB, the corresponding interfering contour of the proposed translator is therefore 101.45dBu. This extends a maximum of 58.9 meters from the antenna. The nearest populated area, a house, is 65m from the antenna. Therefore no interference would be caused to any station in populated areas.

Exhibit 13a Contour Protection

Brown Broadcast Services, Inc.
Job: 20030317MAU Donelson LONG FORM.fmj
Master Database: 2013_Aug_29.fmd
Lat: N36:10:28 Lon: W086:40:09 NAD-27
Scale: 1:250000
Channel: 264 Class: DX
Status: Licensed, Construction Permit, Application
Channels: Co-Channel, 1st Adj, 2nd Adj, 3rd Adj
Range: 100 km, Clearance: -0.5km

rfInvestigator Version 3.7.10
by rfSoftware, Inc.
Date: 8/30/2013 6:40:20 PM
Key:
City Grade
Protected
Co-Channel
1st Adj
2nd/3rd Adj

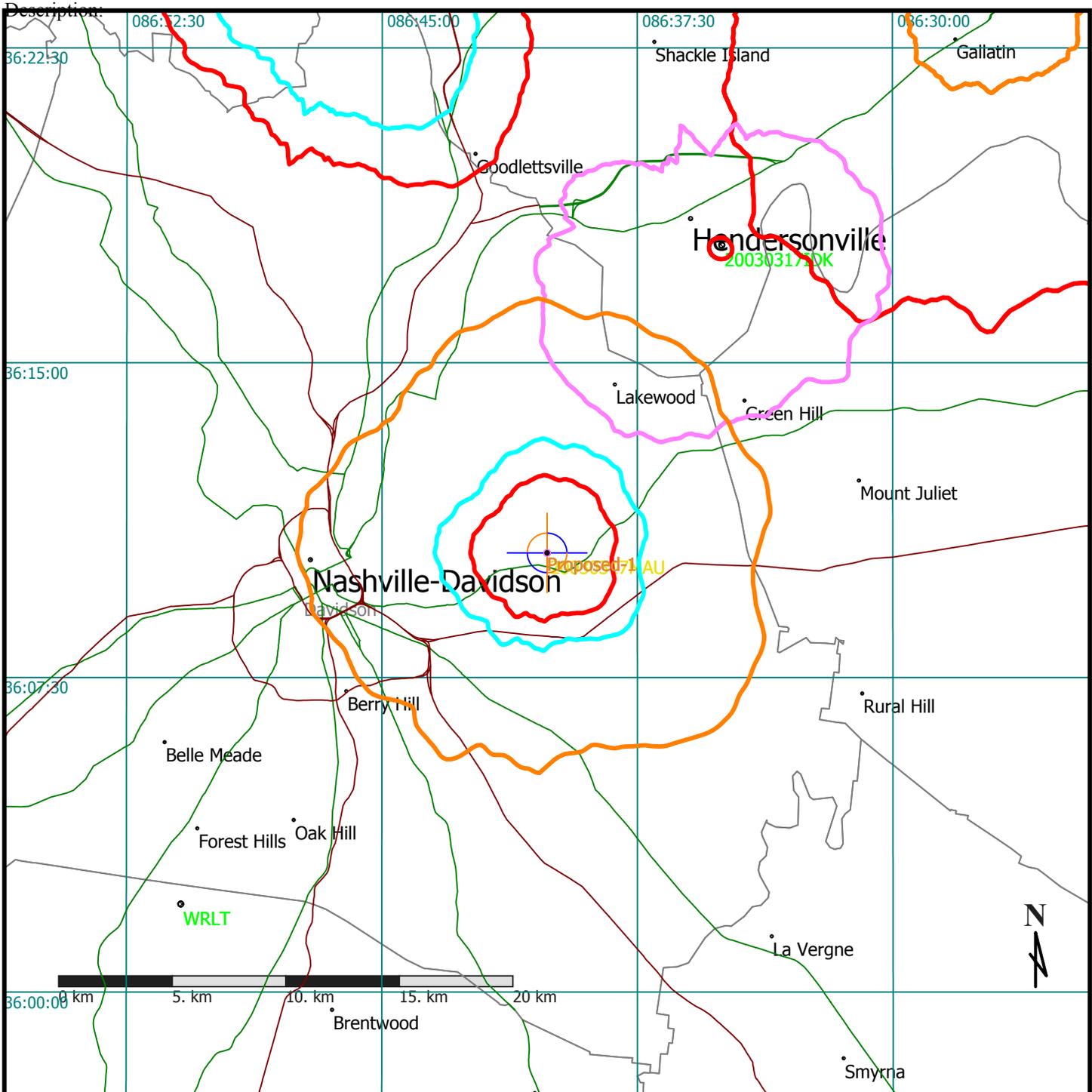


EXHIBIT 17

ENVIRONMENTAL PROTECTION ACT / NEIR ANALYSIS

The applicant proposes mounting a new one bay antenna at 15m above the ground. Calculations were made using FM Model for Windows, version 2.10, with the Phelps-Dodge “Ring Stub” or Dipole setting as a worst case. This setting indicated a worst case peak exposure of $0.24\mu\text{W}/\text{cm}^2$, at 3.6 meters from the tower.

The applicant will ensure that public access to the tower is restricted by fencing, anti-climb devices, or other appropriate measures. The site will be posted with appropriate RF exposure warning signs. If tower climbing by authorized personnel becomes necessary, transmitter power will be reduced or operation will cease, as necessary, so as to not exceed the RF exposure limits.