

**TECHNICAL EXHIBIT
MINOR CHANGE APPLICATION
FOR AN EXISTING FM TRANSLATOR FACILITY
Call Sign W280ED
File No.: BNPFT-20090605AAJ
Facility ID number: 148018**

CTC Media Group, Inc.

April 5, 2012

**Licensed – 103.9 MHz, 0.038 KW
Requested -103.9 MHz, 0.250 KW**

Prepared by CTC Media Group, Inc.

New Bern, NC

TECHNICAL EXHIBIT
APPLICATION FOR MINOR CHANGE MODIFICATION OF LICENSE
FM TRANSLATOR for RADIO STATION WWNB
File No.: BNPFT-20090605AAJ

CTC Media Group, Inc.
NEW BERN, NORTH CAROLINA

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1. Technical Narrative & Summary of the Application

The technical exhibit has been prepared by the CTC Media Group to support a minor change to an existing licensed FM translator in New Bern, NC. This translator is operated for the purpose of broadcasting the programming of AM radio station WWNB, 1490, 1kW, U in New Bern, NC. The application requests a construction permit to increase power from the currently license power of 38 Watts to a power of 250 Watts using the existing site location and raise antenna height.

The following paragraphs address the compliance of this application with pertinent engineering allocation issues associated with this application.

2. Antenna site

The location of the antenna facility is at the City of New Bern's, 911 dispatch center in New Bern, NC.

The sites NAD27geographic are coordinates:

35-07-59 N
77-03-56 W

Antenna Height Site AMSL (Meters)	143.0
Antenna Height above Ground (Meters)	140.0
Antenna HAAT (Meters)	133.7
Tower ASRN:	1056837

3. Proposed Coverage Area

The proposed operation is in full compliance with the provisions of §74.1201 (j) in that the proposed 60 dBu contour falls wholly within the existing 2 mV/m contour of WWNB. Figure 1 is a map illustrating the location of the calculated 60 dBu service contour and the 2 mV/m contour.

**TECHNICAL EXHIBIT—APPLICATION FOR CONSTRUCTION PERMIT
CTC MEDIA GROUP, INC.**

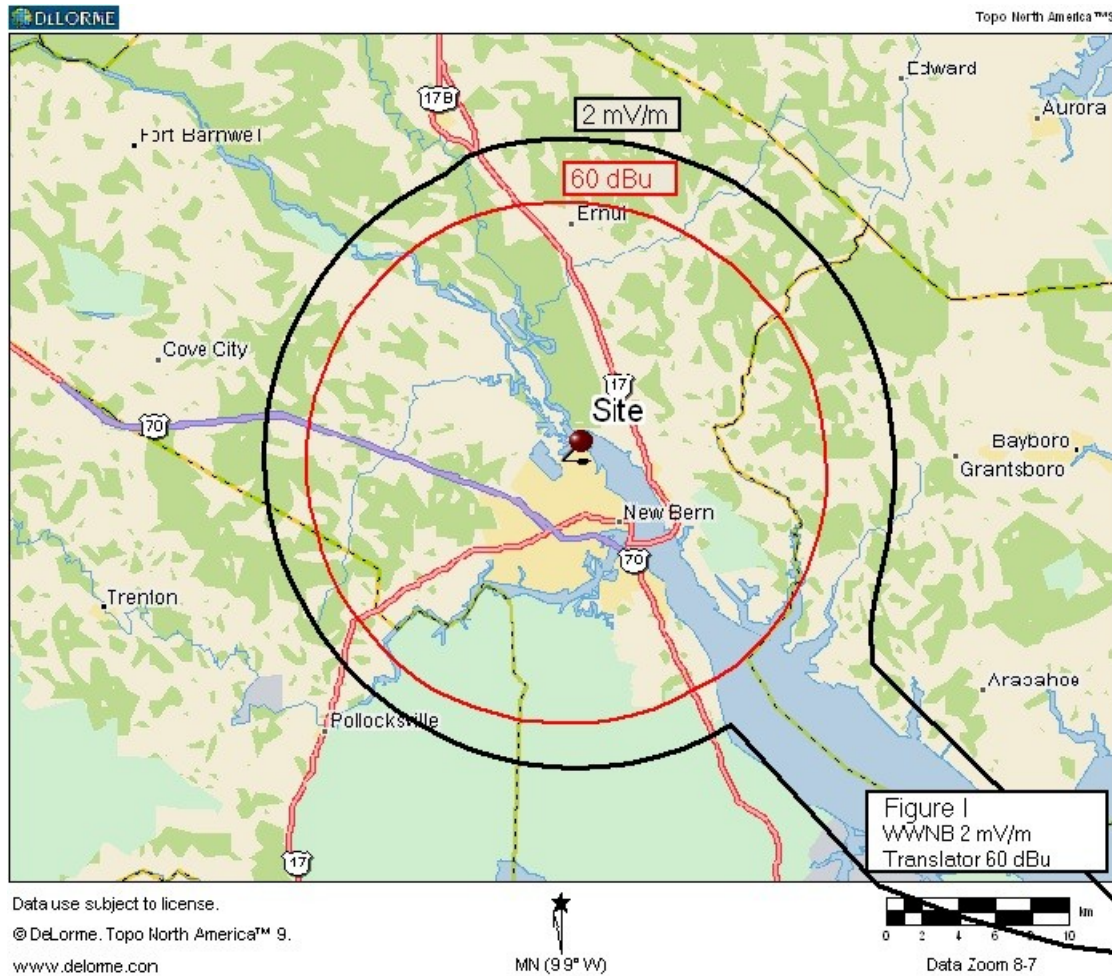


Figure 1: Proposed 60 dBu Service Area with Respect to the WWNB 2 mV/m contour

4. Compliance with § 74.1204

Table 1 is a tabulation of all pertinent existing and pending assignments include in the FCC online database. All facilities included in the table, with the exception of WMGV New Bern channel 277, are fully constant with the requirements under §74.1204. With regard to WMGV, the calculated F (50, 50) field strength is 89 dBu at the proposed site as illustrated on the map in Figure 2. Using the 40 dB ration specified under §74.1204 (a) (3) the pertinent interference contour of the translator is 129 dBu. The proposed 129 dBu contour calculated based on free space loss at the point of maximum radiation will extend a maximum of 100 meters from the antenna. The antenna is to be located 140 meters above ground level, no interference will result. We respectfully request a waiver of §74.1204 under provision of subsection (d) since no population reside within the predicted interference area (i.e., in the elevated area of the tower).

Table 1: Facilities Examined

<u>Call</u>	<u>Fre- quency (MHz)</u>	<u>CH</u>	<u>Class</u>	<u>Statu s</u>	<u>City</u>	<u>ERP (kW)</u>	<u>HAAT</u>	<u>Dis- tance (km)</u>	<u>Bearing (deg)</u>
WMGV	103.3	277	C1	LIC	NEWPORT	100	299	18.50	92.44
WTIB	103.7	279	C1	LIC	WILLIAMSTON	100	299	84.64	5.62
NEW	104.1	281	D	APP	NEWPORT	0.019	104.3	40.29	157.11
NEW	104.1	281	D	APP	MOREHEAD CITY	0.038	78.3	51.26	150.20
NEW	104.1	281	D	APP	ATLANTIC BEACH	0.25	96.9	46.83	154.14
NEW	104.1	281	D	APP	MOREHEAD CITY	0.019	100.9	46.83	154.14
WKGV	104.1	281	A	LIC	SWANSBORO	5.4	105.3	48.64	198.69
NEW	104.3	282	D	APP	MOREHEAD CITY	0.019	100.9	46.83	154.14
WSTK	104.5	283	A	LIC	AURORA	4.2	119.7	49.98	68.51

TECHNICAL EXHIBIT—APPLICATION FOR CONSTRUCTION PERMIT
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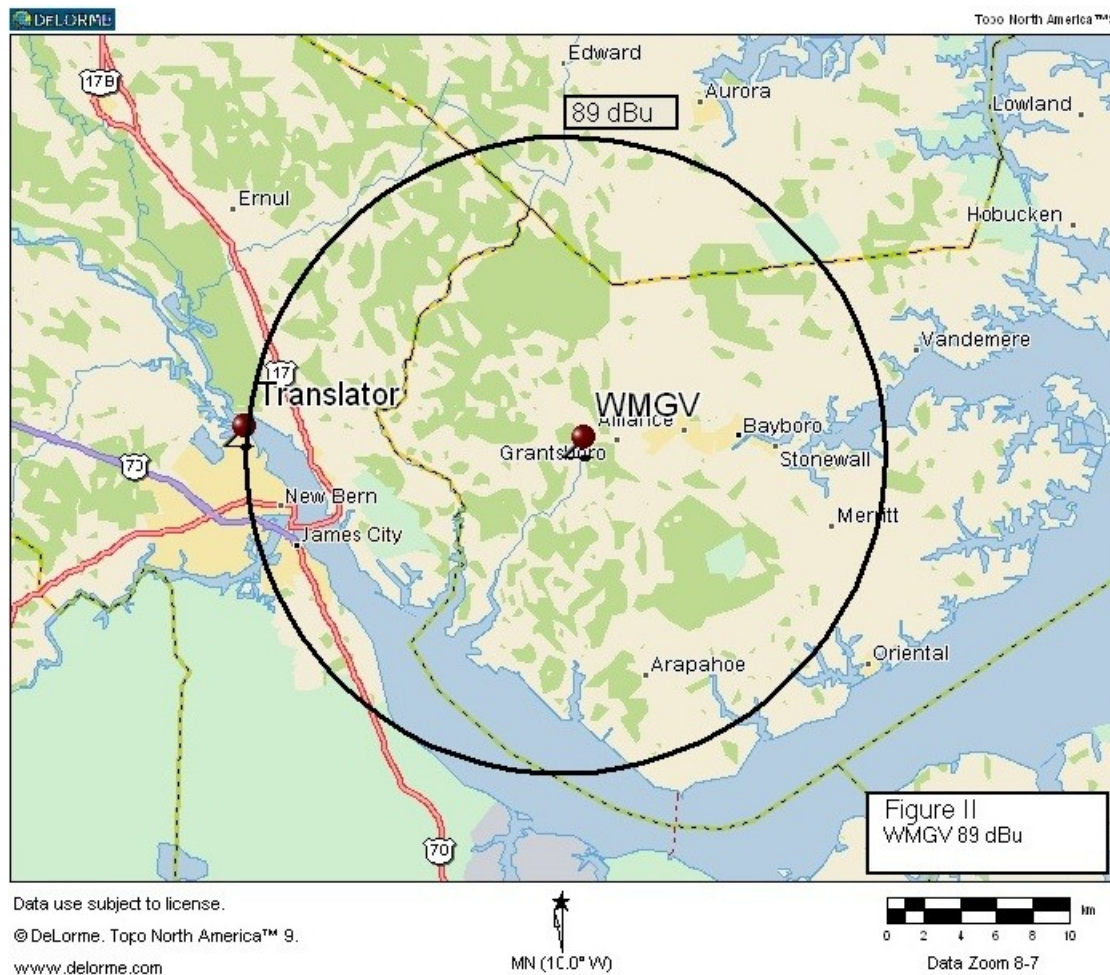


Figure 2: Location of WMGV-FM 89 dBu Signal Contour

Qualifications of Engineer

State of Maryland)
County of Talbot) ss:

Edwin L. (Lee) Afflerbach declares that he is a Professional Engineer registered in the States of Maryland, Delaware, and Washington and the District of Columbia. Mr. Afflerbach's engineering qualifications are a matter of record before the Federal Communications Commission.

He holds a Bachelor of Science – Electrical Engineering (BSEE) degree from Drexel University, Philadelphia, granted in 1966. Upon graduation from Drexel University he served for four years on the engineering staff of the FCC Broadcast Bureau. For the past 40 years he has overseen the design and planning of a wide range of telecommunication and broadcast facility projects.

The Technical Exhibits prepared in support of this application were assembled either by him or under his direct supervision.

This is to certify that all materials and exhibits attached hereto are believed to be true and correct based on information derived from the client (CTC Media Group) and pertinent FCC public files.

This 5th day of March, 2012,

Edwin L. (Lee) Afflerbach, P.E.
Registered Professional Engineer
State of Maryland #8132