

Compliance with Special Operating Conditions

The WGLA (Formerly Known As WGCN) Construction Permit (File Number BPED-20190823AAZ) contains several Special Operating Conditions summarized as follows:

1. The permittee/licensee must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.
2. BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee shall submit the results of a complete proof-of-performance to establish the horizontal plane radiation patterns for both the horizontally and vertically polarized radiation components. This proof-of-performance may be accomplished using the complete full size antenna, or individual bays therefrom, mounted on a supporting structure of identical dimensions and configuration as the proposed structure, including all braces, ladders, conduits, coaxial lines, and other appurtenances; or using a carefully manufactured scale model of the entire antenna, or individual bays therefrom, mounted on an equally scaled model of the proposed supporting structure, including all appurtenances. Engineering exhibits should include a description of the antenna testing facilities and equipment employed, including appropriate photographs or sketches and a description of the testing procedures, including scale factor, measurements frequency, and equipment calibration.
3. BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee must submit a certification executed by a licensed surveyor showing that the FM directional antenna system has been oriented at the azimuth(s) specified in the directional antenna proof of performance. This certification must include a description of the method used by the surveyor to determine the azimuth(s) of the installed directional antenna system and the accuracy of that determination.
4. BEFORE PROGRAM TESTS ARE AUTHORIZED, permittee/licensee shall submit an affidavit that the installation of the directional antenna system was overseen by a qualified engineer. This affidavit shall include a certification by the engineer that the antenna was installed pursuant to the manufacturer's instructions and list the qualifications of the certifying engineer.
5. BEFORE PROGRAM TESTS ARE AUTHORIZED, the permittee must submit an exhibit demonstrating that the measured directional antenna pattern complies with the appropriate community coverage provisions of 47 C.F.R. Sections 73.315 or 73.515 (See 47 C.F.R. Section 73.316(c)(2)(ix)(B)).
6. The relative field strength of neither the measured horizontally nor vertically polarized radiation component shall exceed at any azimuth the value indicated on the composite radiation pattern authorized by this construction permit. A relative field strength of 1.0 on the composite radiation pattern herein authorized corresponds to the following effective radiated power:
0.001 kilowatts (H) and 9.2 kilowatts (V).

Principal minima and their associated field strength limits:
320 degrees True: 2.25 kilowatts

7. Educational Media Foundation requests waiver of 47 C.F.R. § 73.509 to allow Station WGCN(FM), as authorized herein, to receive contour overlap from the 100 dBu contour of second adjacent channel Station WVVS-FM, Valdosta, GA (Facility ID No. 69649) on Channel 215A. We have afforded this request the "hard look" called for under *WAIT Radio v. FCC*, 418 F.2d 1153 (D.C. Cir. 1969), and find that the facts and circumstances presented in the applicant's justification are sufficient to establish that grant of the requested waiver is in the public interest. Accordingly, waiver of 47 C.F.R. § 73.509 IS HEREBY GRANTED. Furthermore, further modifications of Station WVVS-FM will not be construed as a "per se" modification of WGCN(FM)'s facility. (See *Educational Information Corporation*, 6 FCC Rcd 2207 (1991)).

EMF complies with, or agrees to, these conditions as follows:

1. EMF in coordination with other users of the site, agrees to reduce power or cease operation as necessary to protect persons having access to the site, tower, or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.
2. A complete Proof of Performance is contained in Exhibit 1-A
3. The directional antenna system has been oriented at the correct azimuth as certified in Exhibit 1-B.
4. The installation of the directional antenna system was done under the supervision of a qualified engineer with the signed affidavit certification in Exhibit 1-C.
5. Community of License coverage using the measured directional pattern is seen in Exhibit 1-D.
6. The measured relative field strengths of the horizontal and vertical patterns are seen in Exhibit 1-A and abide by the principal minima values as listed.
7. EMF acknowledges and agrees with the waiver of interference received from second adjacent channel Station WVVS-FM, Valdosta, GA (Facility ID No. 69649) on Channel 215A and that further modifications of Station WVVS-FM will not be construed as a "per se" modification of WGCN(FM)'s facility.

HAND

LAND SURVEYING

324 S. Jefferson Street Nashville, GA 31639
229-507-1031 phone wjhand@gmail.com
Georgia Land Survey Firm No. 1230

10/4/21

George Grimes
EMF
5700 West Oaks Blvd
Rocklin, CA 95765

RE: Orientation Verification, Adel GA – PO# EMF015312
State Highway 76

On September 30, 2021 we determined the orientation of the installed antenna on the above referenced tower to be at a true north azimuth of 107 degrees with an accuracy of +/-1.0 degree. The azimuth was verified by physically sighting the antenna through conventional optical surveying equipment set up on control points set on said azimuth with GNSS RTK equipment.

Sincerely,



Weston James Hand
GA RLS 2965

Engineer Certification

Certification for WGLA Antenna Installation

RE: Construction Permit BPED-20190823AZ

October 12 2021

This is to certify the installation of the SHIVELY directional antenna for WGLA, model 6513-3 was installed in accordance with the manufacturer's detailed instructions.

All work was performed by qualified personnel using good engineering practices and under my direct supervision. TOWER SERVICES OF SOUTH GA performed all antenna work at this site.

Certifying engineer qualifications:

MIKE ROSE
RF ENGINEER
EMF Broadcasting
5700 West Oaks Blvd
Rocklin, CA 95765

15 years of AM/FM Broadcast Experience



Community of License Coverage with Antenna Proof Pattern
--

Exhibit 1-D

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

WGLA
BPED20190823AAZ
Latitude: 31-08-15.70 N
Longitude: 083-23-40.60 W
ERP: 9.20 kW
Channel: 213
Frequency: 90.5 MHz
AMSL Height: 212.0 m
Elevation: 75.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None

