

T Z SAWYER TECHNICAL CONSULTANTS

2130 HUTCHISON GROVE COURT, SUITE 100
FALLS CHURCH, VIRGINIA 22043
TELEPHONE (703) 848-2130 / (202) 642-2130

DIGITAL LPTV FACILITY
MINOR CHANGE APPLICATION
WFGZ-LD
FCC FACILITY ID: 189670
LAKE CITY, FLORIDA

JANUARY 2024

ENGINEERING NARRATIVE

Minor Change Application:

WFGZ -LD (was W22EF) seeks to modify its licensed facility to specific a new transmitter site and antenna system parameters. The proposed antenna is a PSI PSILP16OI horizontally polarized directional UHF slot antenna system. A full-service filter mask is to be employed. The facility requested is not contingent upon a grant or channel move of any other known facility at the time of filing.

Maximum Effective Radiated Power (ERP) is 15-kilowatts, horizontal polarization only.

Modification Compliance:

Pursuant to 47 CFR §74.787(b) the instant application is considered a “minor” change because;

- There is no change in transmitting antenna location such that the protected service contour resulting from the change does not overlap some portion of the protected service contour of the authorized facility of the station license as illustrated in Figure 1, Present & Proposed Service Contours.
- There is no change in transmitting antenna location ***greater than 30 miles*** (48.27 km) from the reference coordinates of the existing station licensed antenna location, as noted below:

CALCULATED DISTANCE BETWEEN EXISTING LICENSE AND PROPOSED SITES

| SITE | LAT (NAD83) | LON (NAD83) | (KM) | (MI) |
|-------------------|--------------|---------------|-------|-------|
| EXISTING LICENSED | 29-51-34.0 N | 082-34-28.0 W | 25.44 | 15.81 |
| PROPOSED CP MOD | 29-37-47.7 N | 082-34-24.0 W | | |

FCC Tower Registration - 1242355

FAA Notification Not Required.

The proposed antenna mounting structure is 292.0 meters in overall height above ground level (AGL). No change in the overall height of this structure will occur. This is an existing communication tower that does not require further FAA notification. The antenna is to be side-mounted on the supporting structure at the 183.0 meter AGL level.

Antenna Elevations:

The ground elevation at the site is 26.5 meters above mean sea level (AMSL). The center of radiation of the proposed antenna is 183.0 meters above ground level (AGL). The center of radiation is 209.5 meters above mean sea level (AMSL), as tabulated below:

ALL ELEVATIONS IN METERS

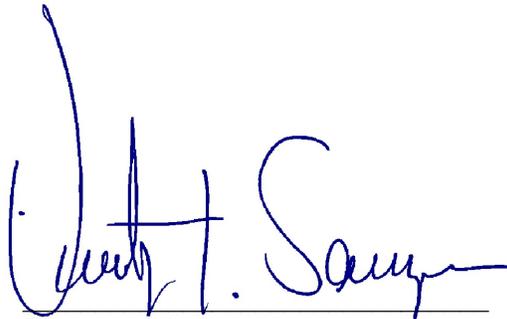
| | |
|---|-------|
| GROUND ELEVATION | 26.5 |
| SUPPORTING STRUCTURE OVERALL HEIGHT AGL | 292.0 |
| ANTENNA HEIGHT AGL | 183.0 |
| ANTENNA RCAMSL | 209.5 |

FCC TVStudy Results: The results of a interference study of the proposal using the FCC TVStudy program (Version 2.2.5), shows that no prohibitive interference will occur from the proposal. A copy of the summary report has been included in this application. The applicant accepts any incoming interference that is predicted to exist to the proposed facility by any authorized or pending, primary or secondary TV station at the time this application is submitted. A standard cell size of 1.0 kilometer, with 1.0 terrain profile spacing was used.

Environmental Evaluation Statement:

The environmental evaluation statement concerning this proposal has been included in this application and can be found as a separate file upload within the application. A grant of this proposal would NOT be an action which would have a significant environmental effect as demonstrated in the environmental evaluation statement.

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Timothy Z. Sawyer, Consulting Engineer

T Z Sawyer Technical Consultants
2130 Hutchison Grove Court, Suite 100
Falls Church, VA 22043
Tel.: (703) 848-2130
e-mail: tzsawyer@tzsawyer.com