

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
W13DS-LD
FCC FACILITY ID: 68016
CLEVELAND, OHIO
JANUARY 2024

ENGINEERING NARRATIVE - AS AMENDED

Minor Change Application:

W13DS-LD seeks to modify its licensed facility to specific a new transmitter site and antenna system parameters. The proposed antenna is a DIE THA-MC2 horizontally polarized directional HI-VHF 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. **This engineering amendment proposes to rotate the antenna pattern to 289 degrees - no other changes are proposed.**

Maximum Effective Radiated Power (ERP) is 3.0 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	41-45-26.0 N	081-02-29.0 W	25.72	15.98
PROPOSED CP MOD	41-31-40.8 N	081-05-05.5 W		

FCC Tower Registration - 1013753

FAA Notification Not Required.

The proposed antenna mounting structure is 95.4 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 62.0 meter AGL level.

Antenna Elevations:

The ground elevation at the site is 396.2 meters above mean sea level (AMSL). The center of radiation of the proposed antenna is 62.0 meters above ground level (AGL). The center of radiation is 458.2 meters above mean sea level (AMSL), as tabulated below:

ALL ELEVATIONS IN METERS

GROUND ELEVATION	396.2
SUPPORTING STRUCTURE OVERALL HEIGHT AGL	95.4
ANTENNA HEIGHT AGL	62.0
ANTENNA RCAMSL	458.2

FCC TVStudy Results (Cell Size 1.0 km, Profile Spacing 0.1):

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, as well as the full study results. 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 cell size of 1.0 kilometers, with a 0.1 terrain profile spacing was used.

Canada Coordination is requested (required):

With regards to Canada protection requirements from this proposal, the predicted 21 dBu (f50,10) interference contour from this proposal does enter Canada. In particular, protection to co-channel CKCO-LD, is required and demonstrated on map exhibit Figure 3C and the full FCC TVStudy details provided in Figure 3B.

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.

January 19, 2024



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