

Marietta College
Marietta, Ohio

Application for License to Cover Construction Permit

File No. 0000218499
Issued 8/21/2023

This station was originally constructed in 1975. That tower was replaced in 1994 by a taller tower built five feet from the location of that original tower. The antenna structure registration was automatically generated by the Commission using the coordinates and site elevation for the 1975 tower.

At the request of tower lessee A.T. & T. Mobility, notification was filed with the FAA regarding planned 5G upgrades to the present cellular installation at the top of this tower. FAA requested correction to the coordinates and elevation of the tower site based on current mapping techniques. The Antenna Registration (1222994) has been updated.

The change in the physical coordinates is less than 3 seconds in latitude and longitude, there is no actual change in the location of the tower.

Power Calculations. The original antenna is still in use, it is a Gates Model FMC-4 Dual Cycloid, four bay antenna, with the bays spaced one wavelength apart. Antenna gain is 2.1. The coaxial cable is Andrew 1 5/8th inch air (Heliac) cable, equivalent to the current HJ7-50A. System loss is 360 watts. TPO is therefore 4.74 KW.

Environmental. As this construction permit merely corrects site coordinates and site elevation, there is no change to the existing tower or antenna installation. Therefore no actual construction required and no environmental impact to the site.