

**ENGINEERING EXHIBIT
IN SUPPORT OF AN
APPLICATION FOR CONSTRUCTION PERMIT
WXKX – CLARKSBURG, WEST VIRGINIA
1340 kHz – 0.76 kW - ND-U
FACILITY ID: 67102**

Applicant: Burbach of DE, LLC

February, 2021





**ENGINEERING STATEMENT OF CYNTHIA M. JACOBSON, P.E.
IN SUPPORT OF AN
APPLICATION FOR CONSTRUCTION PERMIT
WXKX – CLARKSBURG, WEST VIRGINIA
1340 kHz – 0.76 KW DAY – ND-U
Facility ID: 67102**

Prepared for: Burbach of DE, LLC

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia.

My education and experience are a matter of record with the Federal Communications Commission. I am a Registered Professional Engineer in the Commonwealth of Virginia, Registration No. 0402027914.

GENERAL

This office has been authorized by Burbach of DE, LLC (“Burbach”), licensee of Standard Broadcast Station WXKX, Clarksburg, West Virginia, to prepare this engineering statement in support of an Application for Construction Permit. WXKX is a Class C station, presently licensed to operate on 1340 kHz with a power of 1.0 kW day and night utilizing a nondirectional antenna.

The instant application proposes to correct coordinate data, the site elevation and radiator height to conform to the FCC’s Antenna Structure Registration. WXKX presently operates with 1.0 kW of power with a restricted efficiency of 384.6 mV/m/kW



at 1 km. The proposed nominal power is 0.76 kW. The proposed power level is equivalent to the present power of 1.0 kW with the restricted efficiency.

CORRECTED DATA

It is proposed to correct the site coordinates of the tower. The NAD-27 coordinates are as follows:

DAY and NIGHT¹

N. Latitude: 39° 17' 21"

W. Longitude: 80° 18' 55"

The site elevation is corrected to 443.2 meters.²

The radiator height will also be corrected to 139.9 meters which corresponds to a 225.1 electrical degree, tall radiator.

The actual physical location and existing physical height of the WXKX(AM) tower remains unchanged.

WXKX currently operates with a restricted efficiency of 384.6 mV/m/kW at 1 kilometer for the radiator height of 226.6 electrical degrees. The proposal herein specifies a power level of 0.76 kW corresponding to an efficiency of 441.0 mV/m/kW at 1 kilometer that would be produced by a 225.1 electrical degree radiator. The proposed power of 0.76 kW is equivalent to the present restricted efficiency operation.

¹ The present FCC authorized NAD-27 coordinates are North Latitude 39° 17' 27", West Longitude 80° 18' 56", thus triggering the necessity for an FCC Form 301.

² The present authorized site elevation is 420.6 meters.

FAA NOTIFICATION AND TOWER REGISTRATION

The overall height of the existing antenna structure is 141.7 meters AGL (584.9 meters AMSL). Figure 1 is the vertical plan antenna sketch showing the pertinent heights. The Federal Aviation Administration (FAA) issued a Determination of No Hazard, Aeronautical Study No. 2020-AEA-533-OE. Tower Registration was modified to reflect the corrections, ASR #1035677.

RELATED ISSUES

The corrected tower coordinates result in less than a 0.19 kilometer distance separation. Due to the fact that the difference is so slight, it is believed that the allocation considerations are not a concern and the predicted coverage remains essentially the same as that on file with the Commission.

SUMMARY

No significant changes are proposed herein. No physical alterations have been made to the existing tower structure.

STATEMENT OF CYNTHIA M. JACOBSON, P.E.
WXKX – CLARKSBURG, WEST VIRGINIA
Page 4

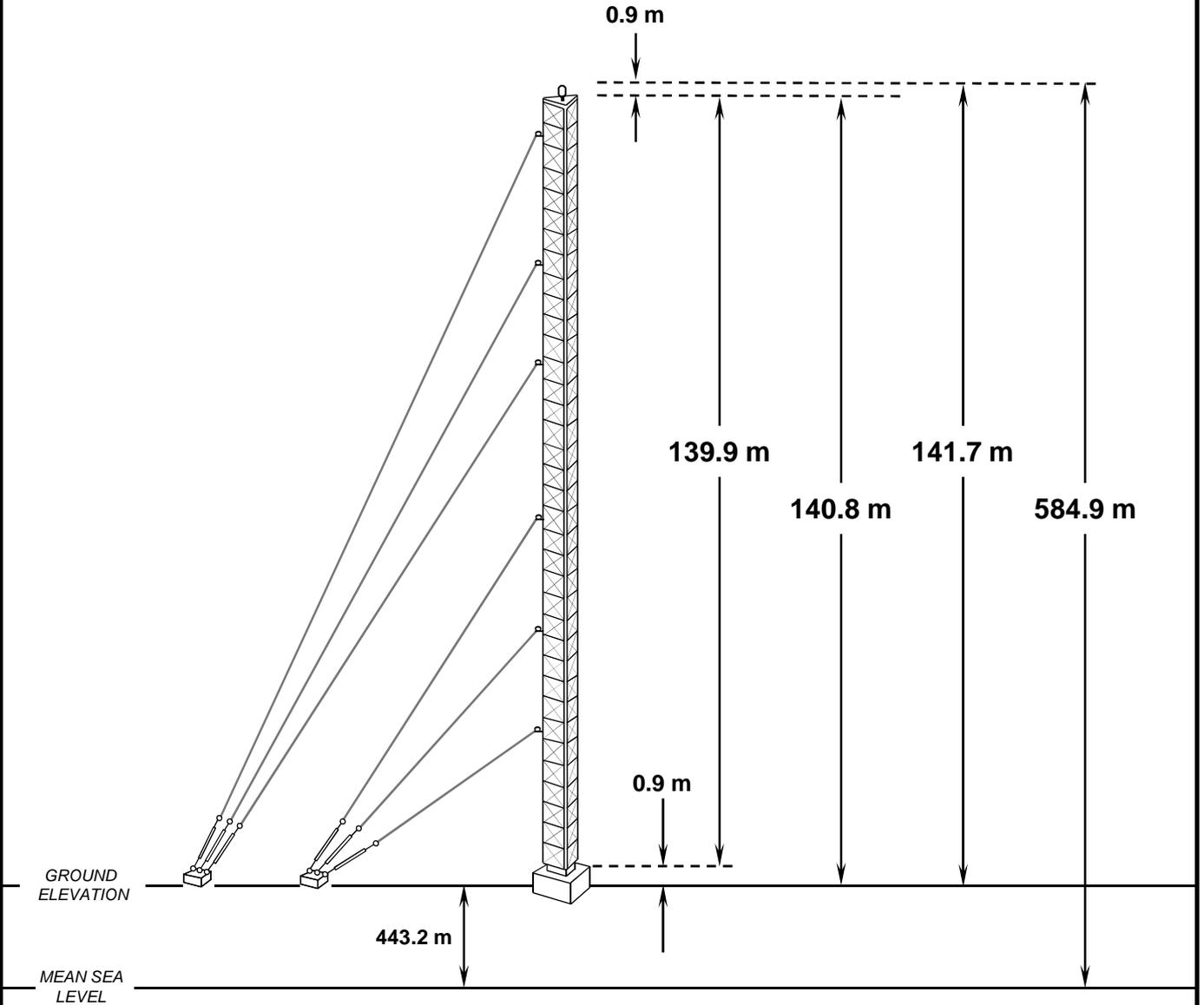
This statement and Section III-A of FCC Form 301 were prepared by me or under my direct supervision and are believed to be true and correct.

DATED: February 10, 2021



FIGURE 1

COORDINATES NAD-27
NORTH LATITUDE: 39° 17' 21"
WEST LONGITUDE: 80° 18' 55"
TOWER REGISTRATION
1035677



VERTICAL PLAN ANTENNA SKETCH
WXXK - CLARKSBURG, WEST VIRGINIA
1340 kHz - 0.76 kW DAY/0.76 kW NIGHT - ND-U
FEBRUARY, 2021

