

MINOR CHANGE MODIFICATION
BNPFT-20171204AAM
COFFEE COUNTY BROADCASTERS, INC.
W292FQ FM TRANSLATOR STATION
CH 292D - 106.3 MHZ - 0.25 kW
DOUGLAS, GEORGIA
October 2018

EXHIBIT D

Radio Frequency Assessment

This radio frequency radiation study is being conducted to determine whether this proposal is in compliance with OET Bulletin #65, dated August 1997, regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This utilizes the appropriate formulas contained in the OET Bulletin.

The proposed W292FQ antenna will be mounted 107.25 meters (352 feet) above ground level, will operate with 0.25 kilowatt of power in the horizontal and vertical planes (circularly polarized) and will utilize an SWR FM, FCC Type 1, four bay full wavelength spaced antenna. The potential for delivery of high levels of radio frequency radiation to areas surrounding the proposed antenna was analyzed using the FCC Program FM Model. This antenna will deliver 0.000884 mW/cm² to the ground.¹ Based on exposure limitations for a controlled environment of 1.0 mW/cm², less than 0.1% of the allowable ANSI limit is reached. For uncontrolled environments of 0.2 mW/cm², a maximum of less than 0.5% is reached.

Since this level for controlled and uncontrolled environments is less than the 5.0% limit defined by the Commission in §1.1307(b)(3)(i) of the Commission's rules, the proposed W292FQ

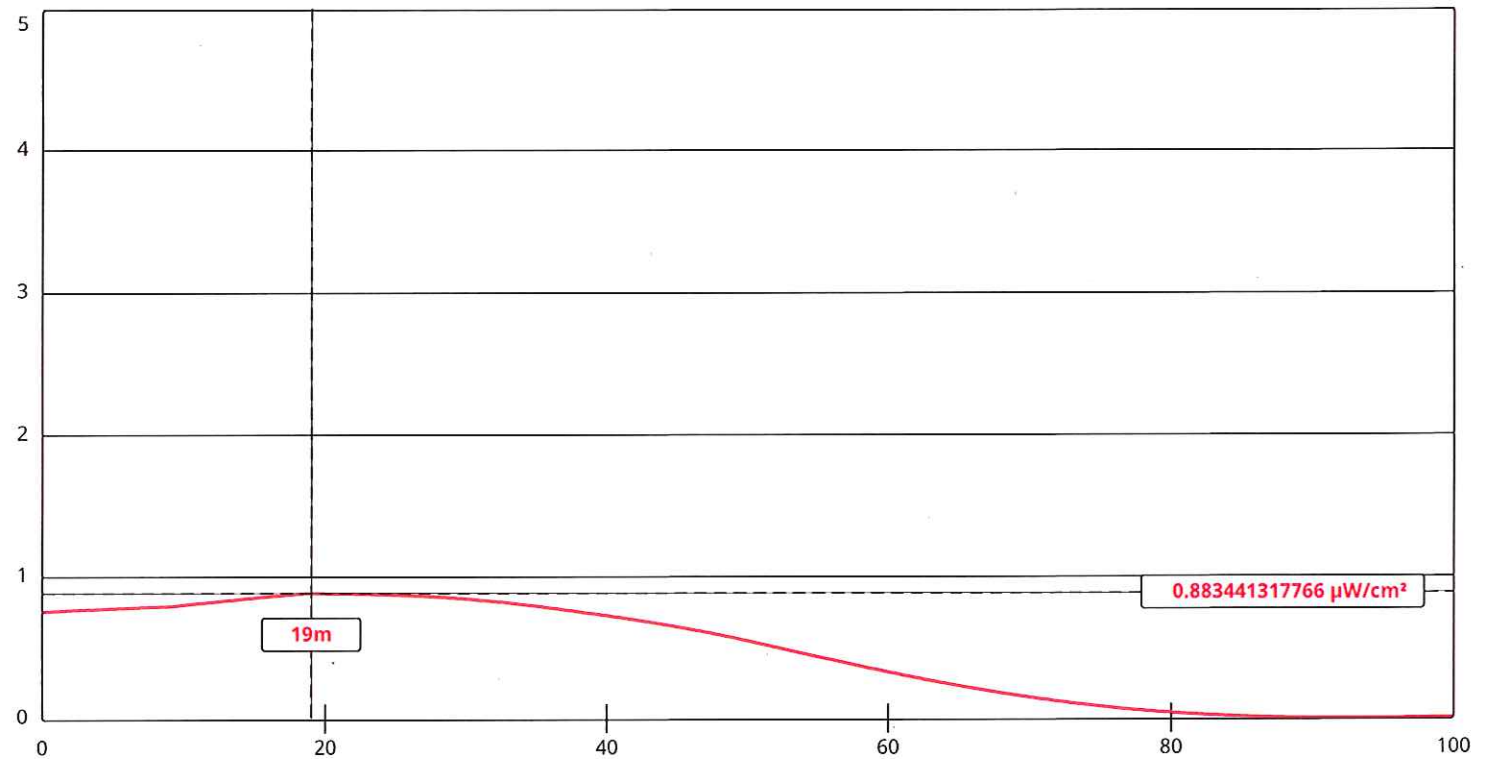
1) This level of signal is delivered 19.0 meters from the tower base and is considered 'worst case'.

antenna system facility is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Coffee will ensure warning signs are posted in the vicinity of the tower warning of potential radio frequency radiation hazards at the site. In addition, Coffee will reduce the power of the facility or cease operation, in cooperation and coordination with other tower users, as necessary, to protect persons having access to the site, tower or antenna from radio frequency radiation in excess of FCC guidelines.

FM Model

EXHIBIT D1
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The FM Model calculator determines the potential exposure from radiofrequency (RF) electromagnetic fields produced by FM broadcast station antennas at ground level. The FM Model software was originally developed by the FCC in 1997 as a standalone executable program and this improved version provides more precise predictions and runs via a JavaScript enabled web browser. The FM Model is originally based on measured data [published in 1985 by the EPA](http://nepis.epa.gov/Exe/ZyNET.exe/2000ED2W.TXT?ZyActionD=ZyDocument&Client=EPA&Index=1981+Thru+1985&Docs=&Query=&Time=&EndTime=&SearchMethod=1&TocRestrict=n&Toc=&TocEntry=&QField=&QFieldYear=&QFieldMonth=&QFieldDay=&IntQFieldOp=0&ExtQFieldOp=0&XmlQuery=&File=D%3A\zyfiles\Index%20Data\81thru85\Txt\00000003\2000ED2W.txt&User=ANONYMOUS&Password=anonymous&SortMethod=h|-&MaximumDocuments=1&FuzzyDegree=0&ImageQuality=r75g8/r75g8/x150y150g16/i425&Display=p|f&DefSeekPage=x&SearchBack=ZyActionL&Back=ZyActionS&BackDesc=Results%20page&MaximumPages=1&ZyEntry=1&SeekPage=x&ZyPURL) (<http://nepis.epa.gov/Exe/ZyNET.exe/2000ED2W.TXT?ZyActionD=ZyDocument&Client=EPA&Index=1981+Thru+1985&Docs=&Query=&Time=&EndTime=&SearchMethod=1&TocRestrict=n&Toc=&TocEntry=&QField=&QFieldYear=&QFieldMonth=&QFieldDay=&IntQFieldOp=0&ExtQFieldOp=0&XmlQuery=&File=D%3A\zyfiles\Index%20Data\81thru85\Txt\00000003\2000ED2W.txt&User=ANONYMOUS&Password=anonymous&SortMethod=h|-&MaximumDocuments=1&FuzzyDegree=0&ImageQuality=r75g8/r75g8/x150y150g16/i425&Display=p|f&DefSeekPage=x&SearchBack=ZyActionL&Back=ZyActionS&BackDesc=Results%20page&MaximumPages=1&ZyEntry=1&SeekPage=x&ZyPURL>). [▼ Show More....](#)



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Channel Selection

[Antenna Type +](#)

Height (m)

ERP-H (W)

Num of Elements

Num of Points

Channel 292 (106.3 MHz) ▼

EPA Type 1: Ring-and-Stub or "Other" ▼

107.25

Distance (m)

250

ERP-V (W)

4

Element Spacing (λ)

500

100

250

1

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