

From: [Priscilla Lee](#)
To: [Rodolfo Bonacci](#)
Subject: FW: Construction Permit application for KGFN, BPED-20190326AAJ
Date: Tuesday, April 9, 2019 2:40:00 PM

Fyi.

From: Ronald Payne <wb5klj@gmail.com>
Sent: Tuesday, April 9, 2019 2:37 PM
To: Priscilla Lee <Priscilla.Lee@fcc.gov>
Subject: Re: Construction Permit application for KGFN, BPED-20190326AAJ

Hello Priscilla,
Yes you are correct with the 100 meter value. I miss typed with the incorrect value.
Sorry for the confusion.

Ronald Payne

On Tue, Apr 9, 2019 at 11:09 AM Priscilla Lee <Priscilla.Lee@fcc.gov> wrote:

Dear applicant,

It appears that the Height Above Average Terrain (HAAT) value on the application does not conform to the calculated HAAT values as shown below using the FCC's HAAT calculator. Specifically, the application states that the HAAT value is 65.33 meters, but the average Radial HAAT, based on a sample of 8-degree and 360-degree radials, are 107 meters and 100 meters respectively. Please kindly verify the stated HAAT value, and how it's calculated.

Please reply with the requested information as soon as you can.

Antenna Height Above Average Terrain Calculations -- Results

Input Data

Latitude 37° 43' 36" North
Longitude 117° 13' 31" West (NAD 83)

These coordinates convert to NAD 27 coordinates of
37° 43' 36.24", North, 117° 13' 27.72" West (NAD 27).

Height of antenna radiation center above mean sea level: 1861 meters AMSL.

Number of Evenly Spaced Radials = 8 0° is referenced to True North

Results

Calculated HAAT = 107 meters

Antenna Height Above Average Terrain calculated
using FCC 30 second terrain database (continental USA only)

Individual "Radial HAAT" Values, in meters

0°	273.3 m
45°	134.9 m
90°	52.6 m
135°	198.1 m
180°	115.8 m
225°	16.6 m
270°	-128.9 m
315°	195.6 m

Input Data

Latitude 37° 43' 36" North
Longitude 117° 13' 31" West (NAD 83)

These coordinates convert to NAD 27 coordinates of
37° 43' 36.24", North, 117° 13' 27.72" West (NAD 27).

Height of antenna radiation center above mean sea level: 1861 meters AMSL.

Number of Evenly Spaced Radials = 360 0° is referenced to True North

Results

Calculated HAAT = 100 meters

Antenna Height Above Average Terrain calculated
using FCC 30 second terrain database (continental USA only)

Individual "Radial HAAT" Values, in meters

0°	273.3 m	120°	161.8 m	240°	-115.4 m
1°	272.0 m	121°	165.8 m	241°	-130.2 m
2°	270.7 m	122°	169.9 m	242°	-146.0 m
3°	269.0 m	123°	174.0 m	243°	-163.1 m
4°	266.6 m	124°	177.9 m	244°	-180.3 m
5°	263.6 m	125°	181.2 m	245°	-197.0 m
6°	260.8 m	126°	183.8 m	246°	-212.1 m
7°	257.5 m	127°	186.0 m	247°	-225.2 m
8°	254.4 m	128°	188.0 m	248°	-236.8 m
9°	251.9 m	129°	189.7 m	249°	-247.4 m
10°	249.9 m	130°	191.3 m	250°	-259.1 m

Regards,

Priscilla M. Lee
Electronics Engineer

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