

21 February 2002

To: James Dogan

Fm: Jim Wades

Re: FCC Form 301 Application/Modifications

*MEMORANDUM*

Attached you will find a copy of the pertinent technical data necessary to modify the current FCC Form 301 application for minor change to the WGPR transmitter facility.

Subsequent review indicates that the problems identified by the Commission may be traced to two causes:

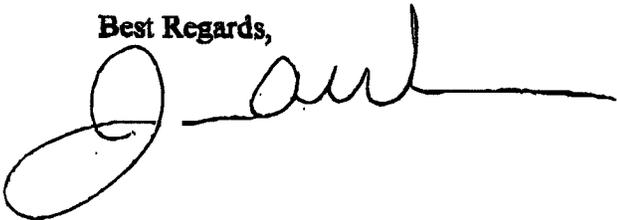
1) The geodetic coordinates under which WGPR is currently licensed are incorrect. This is undoubtedly due to the procedures used many years ago when the transmitter site was originally established. Such methods utilized a form of analog interpolation based on USGS topographical maps. Today, scientific methods based on the use of Global Positioning System satellites are in general use.

It appears likely that the DPS engineering department utilized GPS methods to more accurately determine tower location.

2) The height of the tower was likely determined using a paragrametric study in our original engineering data. The DPS may have had access to more accurate building blue prints or may have utilized GPS technology in combination with these prints to more accurately determine the height of the building. Therefore, we have modified our application to utilize the data reflected in the FAA documentation.

Please call me with any questions.

Best Regards,



**SECTION III-B FM Engineering**

**TECHNICAL SPECIFICATIONS**

Ensure that the specifications below are accurate. Contradicting data found elsewhere in this application will be disregarded. All items must be completed. The response "on file" is not acceptable.

**TECH BOX**

1. Channel: 298
2. Class:  A  B1  B  C3  C2  C1  C  D
3. Antenna Location Coordinates: (NAD 27)  

<u>42</u> °	<u>21</u> '	<u>28</u> "	<input checked="" type="checkbox"/> N	<input type="checkbox"/> S	Latitude
<u>83</u> °	<u>03</u> '	<u>55</u> "	<input type="checkbox"/> E	<input checked="" type="checkbox"/> W	Longitude
4. One-Step Proposal Allotment Coordinates: (NAD 27)  Not applicable  

_____ °	_____ '	_____ "	<input type="checkbox"/> N	<input type="checkbox"/> S	Latitude
_____ °	_____ '	_____ "	<input type="checkbox"/> E	<input type="checkbox"/> W	Longitude
5. Antenna Structure Registration Number: 1019984  
 Not applicable  FAA Notification Filed with FAA
6. Overall Tower Height Above Ground Level: 142.0 meters
7. Height of Radiation Center Above Mean Sea Level: 315.47 meters 315.47 meters (V)
8. Height of Radiation Center Above Ground Level: 123.47 meters 123.47 meters (V)
9. Height of Radiation Center Above Average Terrain: 123.47 meters 123.47 meters (V)
10. Effective Radiated Power: 50.0 kW (E) 50.0 kW (V)
11. Maximum Effective Radiated Power:  Not applicable \_\_\_\_\_ kW (E) \_\_\_\_\_ kW (V)  
 (Beam-Tilt Antenna ONLY)
12. Directional Antenna Relative Field Values:  Not applicable (Nondirectional)  
 Rotation: \_\_\_\_\_ °  No rotation

Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value	Degree	Value
0		60		120		180		240		300	
10		70		130		190		250		310	
20		80		140		200		260		320	
30		90		150		210		270		330	
40		100		160		220		280		340	
50		110		170		230		290		350	
Additional Azimuths											