SECTION III-A AM 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. Frequency: 1050 kHz

2. Class: ☐ A ☒ B ☐ C ☐ D

3. Hours of Operation: ☐ Unlimited ☐ Limited ☒ Daytime ☐ Share Time ☐ Specified Hours: ____

4. **Daytime Operation:** ☒ Yes ☐ No

   a. Power: 3.5 kW

   b. Antenna Location Coordinates: (NAD 27)

   39 ° 00 ' 51 " ☒ N ☐ S Latitude
   77 ° 01 ' 46 " ☐ E ☒ W Longitude

   c. **Nondirectional:** ☒ Yes ☐ No

   If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

   Exhibit No. E

   Theoretical 307.38 mV/m per kW at 1 km

Tower	
Overall height above ground (include obstruction lighting) (meters)	80.9
Antenna structure registration	1058238 Number ☐ Notification filed with FAA ☐ Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)	74.1
Electrical height of radiator (degrees)	92.2
Top-Loaded/Sectionalized apparent height (degrees)	
A	0
B	0
C	0
D	0

TECH BOX - DAYTIME OPERATION

d. **Directional:** ☐ Yes ☒ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical _____ mV/m at 1 km

Standard RMS: _____ mV/m at 1 km

Towers	1	2	3	4
Overall height above ground (include obstruction lighting) (meters)				
Antenna structure registration	_____ Number ☐ Notification filed with FAA ☐ Not applicable	_____ Number ☐ Notification filed with FAA ☐ Not applicable	_____ Number ☐ Notification filed with FAA ☐ Not applicable	_____ Number ☐ Notification filed with FAA ☐ Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)				
Electrical height of radiator (degrees)				
Field ratio				
Phase (degrees)				
Spacing (degrees)				
Tower orientation (degrees)				
Tower reference switch				
Top-Loaded/Sectionalized apparent height (degrees)				
A				
B				
C				
D				

Augmented: ☐ Yes ☐ No

If "Yes," complete the following:

Augmented RMS: _____ mV/m at 1 km

Azimuth	Span	Augmentation radiation (mV/m at 1 km)

TECH BOX - NIGHTTIME OPERATION

5. **Nighttime Operation:** [X] Yes [ ] No

a. Power: 0.044 kW

b. Antenna Location Coordinates: (NAD 27)

39 ° 00 ' 51 " [X] N [ ] S Latitude
77 ° 01 ' 46 " [ ] E [X] W Longitude

c. **Nondirectional:** [X] Yes [ ] No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical 303.31 mV/m per kW at 1 km

Tower	
Overall height above ground (include obstruction lighting) (meters)	80.9
Antenna structure registration	1058238 Number [ ] Notification filed with FAA [ ] Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)	74.1
Electrical height of radiator (degrees)	92.2
Top-Loaded/Sectionalized apparent height (degrees)	
A	0
B	0
C	0
D	0

TECH BOX - NIGHTTIME OPERATION

d. **Directional:** ☐ Yes ☒ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical _____ mV/m at 1 km

Standard RMS: _____ mV/m at 1 km

Towers	1	2	3	4
Overall height above ground (include obstruction lighting) (meters)				
Antenna structure registration	_____ Number ☐ Notification filed with FAA ☐ Not applicable	_____ Number ☐ Notification filed with FAA ☐ Not applicable	_____ Number ☐ Notification filed with FAA ☐ Not applicable	_____ Number ☐ Notification filed with FAA ☐ Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)				
Electrical height of radiator (degrees)				
Field ratio				
Phase (degrees)				
Spacing (degrees)				
Tower orientation (degrees)				
Tower reference switch				
Top-Loaded/Sectionalized apparent height (degrees)				
A				
B				
C				
D				

Augmented: ☐ Yes ☐ No

If "Yes," complete the following:

Augmented RMS: _____ mV/m at 1 km

Azimuth	Span	Augmentation radiation

TECH BOX - CRITICAL HOURS OPERATION

6. **Critical Hours Operation:** ☐ Yes ☒ No

a. Power: _____ kW

b. Antenna Location Coordinates: (NAD 27)

_____ o _____ ' _____ " ☐ N ☐ S Latitude

_____ o _____ ' _____ " ☐ E ☐ W Longitude

c. **Nondirectional:** ☐ Yes ☐ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical _____ mV/m per kW at 1 km

Tower	
Overall height above ground (include obstruction lighting) (meters)	
Antenna structure registration	_____ Number ☐ Notification filed with FAA ☐ Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)	
Electrical height of radiator (degrees)	
Top-Loaded/Sectionalized apparent height (meters)	
A	
B	
C	
D	

TECH BOX - CRITICAL HOURS OPERATION

d. **Directional:** ☐ Yes ☒ No

If "Yes," complete the following items. If additional space is needed, please provide the information requested below in an Exhibit.

Exhibit No.

Theoretical _____ mV/m at 1 km

Standard RMS: _____ mV/m at 1 km

Towers	1	2	3	4
Overall height above ground (include obstruction lighting) (meters)				
Antenna structure registration	_____ Number ☐ Notification filed with FAA ☐ Not applicable	_____ Number ☐ Notification filed with FAA ☐ Not applicable	_____ Number ☐ Notification filed with FAA ☐ Not applicable	_____ Number ☐ Notification filed with FAA ☐ Not applicable
Height of radiator above base insulator, or above base, if grounded (meters)				
Electrical height of radiator (degrees)				
Field ratio				
Phase (degrees)				
Spacing (degrees)				
Tower orientation (degrees)				
Tower reference switch				
Top-Loaded/Sectionalized apparent height (degrees)				
A				
B				
C				
D				

Augmented: ☐ Yes ☐ No

If "Yes," complete the following:

Augmented RMS: _____ mV/m at 1 km

Azimuth	Span	Augmentation radiation

NOTE: In addition to the information called for in this section, an explanatory exhibit providing full particulars must be submitted for each question for which a "No" response is provided.

CERTIFICATION

7. **Broadcast Facility.** The proposed facility complies with the engineering standards and assignment requirements of 47 C.F.R. Sections 73.24(e), 73.24(g), 73.33, 73.45, 73.150, 73.152, 73.160, 73.182(a)-(i), 73.186, 73.189, 73.1650. **Exhibit Required.**

[X] Yes [ ] No

See Explanation in Exhibit No.

Exhibit No. E

8. **Community Coverage.** The proposed facility complies with community coverage requirements of 47 C.F.R. Section 73.24(i).

[X] Yes [ ] No

See Explanation in Exhibit No.

9. **Main Studio Location.** The proposed main studio location complies with requirements of 47 C.F.R. Section 73.1125.

[X] Yes [ ] No

See Explanation in Exhibit No.

10. **Interference.** The proposed facility complies with all of the following applicable rule sections. Check all those that apply. An exhibit is required for each applicable section.

[X] Yes [ ] No

See Explanation in Exhibit No.

Groundwave.

a. [X] 47 C.F.R. Section 73.37

Exhibit No. E

Skywave.

b. [ ] 47 C.F.R. Section 73.182.

Exhibit No.

Critical Hours.

c. [ ] 47 C.F.R. Section 73.187.

Exhibit No.

11. **Environmental Protection Act.** The proposed facility is excluded from environmental processing under 47 C.F.R. Section 1.1306 (*i.e.*, the facility will not have a significant environmental impact and complies with the maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments). Unless the applicant can determine compliance through the use of the RF worksheets in Appendix A, an **Exhibit is required.**

[X] Yes [ ] No

See Explanation in Exhibit No. E

By checking "Yes" above, the applicant also certifies that it, in coordination with other users of the site, will reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic exposure in excess of FCC guidelines.

12. **Community of License Change - Section 307(b).** If the application is being submitted to change the facility's community of license, then the applicant certifies that it has attached an exhibit containing information demonstrating that the proposed community of license change constitutes a preferential arrangement of assignments under Section 307(b) of the Communications Act of 1934, as amended (47 U.S.C. Section 307(b)).

[ ] Yes [ ] No [ ] N/A

Exhibit No.

An exhibit is required unless this question is not applicable.

PREPARER'S CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.

I certify that the statements in this application are true, complete, and correct to the best of my knowledge and belief, and are made in good faith. I acknowledge that all certifications and attached Exhibits are considered material representations. I hereby waive any claim to the use of any particular frequency as against the regulatory power of the United States because of the previous use of the same, whether by license or otherwise, and request an authorization in accordance with this application. (See Section 304 of the Communications Act of 1934, as amended.)

Typed or Printed Name of Person Signing	Typed or Printed Title of Person Signing
Signature	Date

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

SECTION III PREPARER'S CERTIFICATION

I certify that I have prepared Section III (Engineering Data) on behalf of the applicant, and that after such preparation, I have examined and found it to be accurate and true to the best of my knowledge and belief.

Name Donald G. Everist		Relationship to Applicant (e.g., Consulting Engineer) Consulting Engineer
Signature		Date February 28, 2007
Mailing Address Cohen, Dippell and Everist, P.C., 1300 L Street, NW, Suite 1100		
City Washington	State or Country (if foreign address) DC	ZIP Code 20005
Telephone Number (include area code) (202) 898-0111	E-Mail Address (if available) cde@attglobal.net	

WILLFUL FALSE STATEMENTS ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).