

# **EXHIBIT 10**

## **Form 350 - Comprehensive Engineering Statement**

prepared for

**Newcomb Broadcasting Corporation**

W264DB Falls Church, VA

Facility ID 158365

Ch. 264D 0.1 kW (MAX-DA) 75 m AGL

Special Operating Conditions 2 through 4 are discussed in this document as follows:

**Special Operating Condition #2** reads: *"This construction permit authorizes the mounting of an antenna on the non-directional tower of the AM station identified below. During the installation of the antenna, the AM station shall determine operating power by the indirect method (see Section 73.51 of the Commission's Rules). Upon completion of the antenna installation, antenna impedance measurements on the AM antenna shall be made. If the resistance of the AM antenna has changed by more than 2 percent from the licensed value (see Section 73.45(c)(1) of the Commission's Rules), an application for the AM station to return to direct power measurement, including a tower sketch of the installation, shall be filed with the Commission by the AM station licensee using form FCC 302-AM. (See Section 1.30003 of the Commission's Rules.) The permittee must submit confirmation of completion of the requirements of this condition in the application for license to cover this construction permit. Station WFAX(AM), Falls Church, VA."*

Attached to this filing as **Figure 1**, and included with the 302-AM filing for Station WFAX(AM) is a complete sketch of the installation on the WFAX(AM) tower. Additionally, the Section III (License Application Engineering Data) of the Form 302-AM filing for Station WFAX(AM) is attached to this filing as **Figure 2**.

**Special Operating Condition #3** reads: *"Prior to commencing program test operations, FM Translator or FM Booster permittee must have on file at the Commission, FCC Form 350, Application for an FM Translator or FM Booster Station License, pursuant to 47 C.F.R. Section 74.14."*

This filing of FCC Form 350 fulfills this Special Operating Condition.

**Special Operating Condition #4** reads: *"The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having*

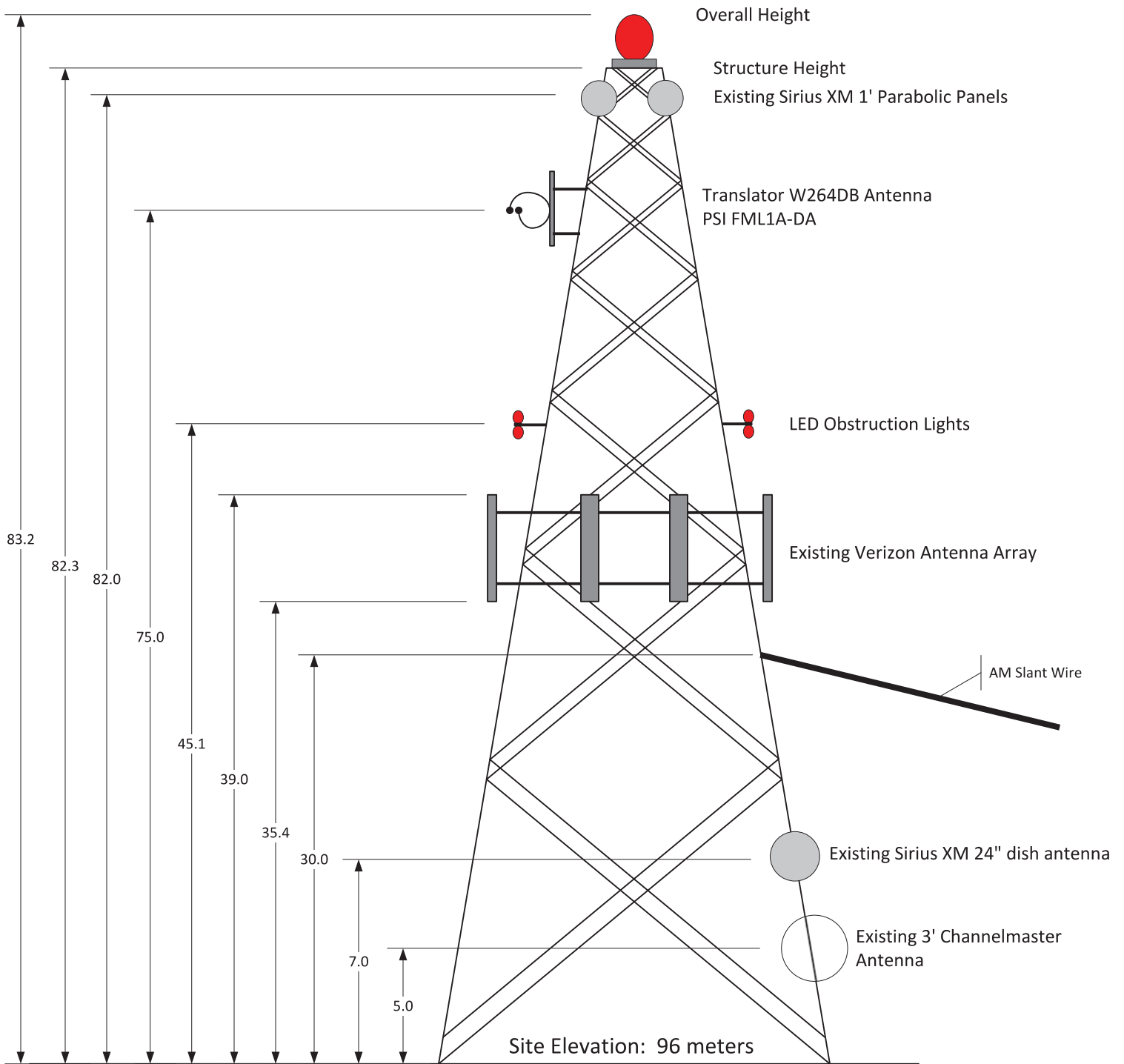
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*access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.”*

Newcomb Broadcasting Corporation, as licensee of W264DB, will reduce power or cease operation as necessary to protect employees, tower workers, or any other persons having access to the site from electromagnetic fields in excess of FCC guidelines.

**NOTE: ALL HEIGHTS IN METERS**



**FIGURE 1**  
**WFX(AM) TOWER SKETCH**

prepared September 2016 for  
**Newcomb Broadcasting Corporation**  
W264DB Falls Church, VA Fac ID 158365  
Ch. 264D 0.1 kW 93.2 m HAAT

**Cavell, Mertz & Associates, Inc.**  
Manassas, Virginia

**FIGURE 2****SECTION III - LICENSE APPLICATION ENGINEERING DATA**

Name of Applicant

**Newcomb Broadcasting Corp.**

PURPOSE OF AUTHORIZATION APPLIED FOR: (check one)

☐

Station License

☒

Direct Measurement of Power

**1. Facilities authorized in construction permit**

Call Sign	File No. of Construction Permit (if applicable)	Frequency (kHz)	Hours of Operation	Power in kilowatts	
<b>WFX</b>	N/A	1220	Unlimited	Night 0.048	Day 5.0

**2. Station location**

State <b>Virginia</b>	City or Town <b>City of Falls Church</b>
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**3. Transmitter location**

State <b>Virginia</b>	County <b>N/A</b>	City or Town <b>City of Falls Church</b>	Street address (or other identification) <b>161-b Hillwood Ave</b>
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**4. Main studio location**

State <b>Virginia</b>	County <b>N/A</b>	City or Town <b>City of Falls Church</b>	Street address (or other identification) <b>161-b Hillwood Ave</b>
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**5. Remote control point location (specify only if authorized directional antenna)**

State <b>N/A</b>	County	City or Town	Street address (or other identification)
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6. Has type-approved stereo generating equipment been installed?

☐

Yes

☒

No

7. Does the sampling system meet the requirements of 47 C.F.R. Section 73.68?

☐

Yes

☐

No

☒

Not Applicable

Attach as an Exhibit a detailed description of the sampling system as installed.

Exhibit No.  
N/A**8. Operating constants:**

RF common point or antenna current (in amperes) without modulation for night system <b>0.926</b>	RF common point or antenna current (in amperes) without modulation for day system <b>9.45</b>
Measured antenna or common point resistance (in ohms) at operating frequency Night <b>56</b> Day <b>56</b>	Measured antenna or common point reactance (in ohms) at operating frequency Night <b>0</b> Day <b>0</b>

**Antenna indications for directional operation**

Towers	Antenna monitor Phase reading(s) in degrees		Antenna monitor sample current ratio(s)		Antenna base currents	
	Night	Day	Night	Day	Night	Day
N/A						

Manufacturer and type of antenna monitor:

N/A

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9. Description of antenna system ((f directional antenna is used, the information requested below should be given for each element of the array. Use separate sheets if necessary.)

Type Radiator  <b>self-supporting vertical</b>	Overall height in meters of radiator above base insulator, or above base, if grounded.  <b>82.3</b>	Overall height in meters above ground (without obstruction lighting)  <b>82.3</b>	Overall height in meters above ground (include obstruction lighting)  <b>83.2</b>	If antenna is either top loaded or sectionalized, describe fully in an Exhibit.  Exhibit No. <b>N/A</b>
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Excitation

☐

Series

☒

Shunt

Geographic coordinates to nearest second. For directional antenna give coordinates of center of array. For single vertical radiator give tower location.

North Latitude <b>38</b> ° <b>52</b> ' <b>47</b> "	West Longitude <b>77</b> ° <b>10</b> ' <b>18</b> "
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If not fully described above, attach as an Exhibit further details and dimensions including any other antenna mounted on tower and associated isolation circuits.

Exhibit No.  
**on file**

Also, if necessary for a complete description, attach as an Exhibit a sketch of the details and dimensions of ground system.

Exhibit No.  
**on file**


10. In what respect, if any, does the apparatus constructed differ from that described in the application for construction permit or in the permit?

**No difference.**

11. Give reasons for the change in antenna or common point resistance.

**Addition of side-mounted antenna and feed-line for W264BD**

I certify that I represent the applicant in the capacity indicated below and that I have examined the foregoing statement of technical information and that it is true to the best of my knowledge and belief.

Name (Please Print or Type) <b>Lucinda Hutter Cavell</b>	Signature (check appropriate box below) 
Address (include ZIP Code) <b>Cavell Mertz &amp; Associates, Inc.</b> <b>7724 Donegan Drive</b> <b>Manassas, VA 20109</b>	Date <b>9/28/16</b>  Telephone No. (Include Area Code) <b>(703) 392-9090</b>

☐

Technical Director

☐

Registered Professional Engineer

☐

Chief Operator

☒

Technical Consultant

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Other (specify)