

# ENGINEERING EXHIBIT

## Application for Construction Permit

prepared for

**Beacon Broadcasting, Inc.**  
WEXC(FM) Greenville, Pennsylvania  
Facility ID 25225

Ch. 296A 3 kW 100 m

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*This material supplies a "hard copy" of the engineering portions of this application as entered January 30, 2004 for filing electronically. Since the FCC's electronic filing system may be accessed by anyone with the applicant's name and password, and electronic data may otherwise be altered in an unauthorized fashion, we cannot be responsible for changes made subsequent to our entry of this data and related attachments.*

Federal Communications Commission Washington, D.C. 20554  <p style="text-align: center;"><b>FCC 301</b></p>	Approved by OMB 3060-0027 (June 2002)  FOR FCC USE ONLY  FOR COMMISSION USE ONLY FILE NO. -
<p>Read INSTRUCTIONS Before Filling Out Form</p>	

**Section I - General Information**

1. Legal Name of the Applicant BEACON BROADCASTING INC.		
Mailing Address 64 CLINTON STREET		
City GREENVILLE	State or Country (if foreign address) PA	ZIP Code 16125 -
Telephone Number (include area code) 7245888000		E-Mail Address (if available)
FCC Registration Number:	Call Sign WEXC	Facility ID Number 25225
2. Contact Representative (if other than Applicant) BEACON BROADCASTING INC.		Firm or Company Name
Telephone Number (include area code) 7245888000		E-Mail Address (if available)
3. If this application has been submitted without a fee, indicate reason for fee exemption (see 47 C.F.R. Section 1.1114): <input type="radio"/> Governmental Entity <input type="radio"/> Other		
4. <b>Application Purpose</b> <input type="radio"/> New station <input type="radio"/> Major Change in licensed facility <input checked="" type="radio"/> Minor Change in licensed facility  (a) File number of original construction permit:  (b) Service Type:  (c) Community of License: City: GREENVILLE (d) Facility Type		
		<input type="radio"/> Major Modification of construction permit <input type="radio"/> Minor Modification of construction permit <input type="radio"/> Major Amendment to pending application <input type="radio"/> Minor Amendment to pending application <input type="checkbox"/> NA  <input type="radio"/> AM <input checked="" type="radio"/> FM <input type="radio"/> TV <input type="radio"/> DTV  State: PA <input checked="" type="radio"/> Main <input type="radio"/> Auxiliary
If an amendment, <b>submit as an Exhibit</b> a listing by Section and Question Number the portions of the pending application that are being revised.		[Exhibit 1]

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

**Section II - Legal**

1. <b>Certification.</b> Applicant certifies that it has answered each question in this application based on its review of the application instructions and worksheets. Applicant further certifies that where it has made an affirmative certification below, this certification constitutes its representation that the application satisfies each of the pertinent standards and criteria set forth in the application instructions and worksheets.	<input type="radio"/> Yes <input type="radio"/> No
2. <b>Parties to the Application.</b> a. List the applicant, and, if other than a natural person, its officers, directors, stockholders with attributable interests, non-insulated partners and/or members. If a corporation or partnership holds an attributable interest in the applicant, list separately its officers, directors, stockholders with attributable interests, non-insulated partners and/or members. Create a separate row for each individual or entity. Attach additional pages if necessary.	

<p>(1) Name and address of the applicant and each party to the application holding an attributable interest (if other than individual also show name, address and citizenship of natural person authorized to vote the stock or holding the attributable interest). List the applicant first, officers next, then directors and, thereafter, remaining stockholders and other entities with attributable interests, and partners.</p> <p>[Enter Parties/Owners Information]</p>	<p>(2) Citizenship.</p> <p>(3) Positional Interest: Officer, director, general partner, limited partner, LLC member, investor/creditor attributable under the Commission's <b>equity/debt plus</b> standard, etc.</p> <p>(4) Percentage of votes.</p> <p>(5) Percentage of total assets (equity plus debt).</p>	
<p>b. Applicant certifies that equity and financial interests not set forth above are non-attributable.</p>	<p><input type="radio"/> Yes <input type="radio"/> No  <input type="radio"/> N/A                  See Explanation in [Exhibit 2]</p>	
<p>3. <b>Other Authorizations.</b> List call signs, locations, and facility identifiers of all other broadcast stations in which applicant or any party to the application has an attributable interest.</p>	<p><input type="checkbox"/> N/A                  [Exhibit 3]</p>	
<p>4. <b>Multiple Ownership.</b></p> <p>a. Applicant certifies that the proposed facility:</p> <ol style="list-style-type: none"> <li>1. complies with the Commission's multiple and cross-ownership rules;</li> <li>2. does not present an issue under the Commission's policies relating to media interests of immediate family members;</li> <li>3. complies with the Commission's policies relating to future ownership interests; and</li> <li>4. complies with the Commission's restrictions relating to the insulation and non-participation of non-party investors and creditors.</li> </ol> <p>b. Radio Applicants Only. If the grant of the application would result in certain principal community service contour overlaps, see Local Radio Ownership Worksheet, Question 1, applicant certifies that all relevant information has been placed in public inspection file(s) and submitted to the Commission.</p>		<p><input type="radio"/> Yes <input type="radio"/> No                  See Explanation in [Exhibit 4]</p> <p><input type="radio"/> Yes <input type="radio"/> No  <input type="radio"/> N/A                  See Explanation in [Exhibit 5]</p>
<p>5. <b>Character Issues.</b> Applicant certifies that neither applicant nor any party to the application has or has had any interest in or connection with:</p> <ol style="list-style-type: none"> <li>a. any broadcast application in any proceeding where character issues were left unresolved or were resolved adversely against the applicant or party to the application; or</li> <li>b. any pending broadcast application in which character issues have been raised.</li> </ol>	<p><input type="radio"/> Yes <input type="radio"/> No                  See Explanation in [Exhibit 6]</p>	
<p>5. <b>Adverse Findings.</b> Applicant certifies that, with respect to the applicant and any party to the application, no adverse finding has been made, nor has an adverse final action been taken by any court or administrative body in a civil or criminal proceeding brought under the provisions of any law related to any of the following: any felony; mass media-related antitrust or unfair competition; fraudulent statements to another government unit; or discrimination.</p>	<p><input type="radio"/> Yes <input type="radio"/> No                  See Explanation in [Exhibit 7]</p>	
<p>7. <b>Alien Ownership and Control.</b> Applicant certifies that it complies with the provisions of Section 310 of the Communications Act of 1934, as amended, relating to interests of aliens and foreign governments.</p>	<p><input type="radio"/> Yes <input type="radio"/> No                  See Explanation in [Exhibit 8]</p>	
<p>3. <b>Program Service Certification.</b> Applicant certifies that it is cognizant of and will comply with its obligations as a commission licensee to present a program service responsive to the issues of public concern facing the station's community of license and service area.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>	
<p>2. <b>Local Public Notice.</b> Applicant certifies that it has or will comply with the public notice requirements of 47 C.F.R. Section 73.3580.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>	
<p>10. <b>Auction Authorization.</b> If the application is being submitted to obtain a construction permit for which the applicant was the winning bidder in an auction, then the applicant certifies, pursuant to 47 C.F.R. Section 73.5005(a), that it has attached an exhibit containing the information required by 47 C.F.R. Sections 1.2107(d), 1.2110(i), 1.2112(a) and 1.2112(b), if applicable.</p> <p><b>An exhibit is required unless this question is inapplicable.</b></p>	<p><input type="radio"/> Yes <input type="radio"/> No  <input type="radio"/> N/A                  [Exhibit 9]</p>	
<p>11. <b>Anti-Drug Abuse Act Certification.</b> Applicant certifies that neither applicant nor any party to the application is subject to denial of federal benefits pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. Section 862.</p>	<p><input type="radio"/> Yes <input type="radio"/> No</p>	

12. <b>Equal Employment Opportunity (EEO).</b> If the applicant proposes to employ five or more full-time employees, applicant certifies that it is filing simultaneously with this application a Model EEO Program Report on FCC Form 396-A.	<input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A
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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 know and understand 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-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 Number: 296
2.	Class (select one): <input checked="" type="radio"/> A <input type="radio"/> B1 <input type="radio"/> B <input type="radio"/> C3 <input type="radio"/> C2 <input type="radio"/> C1 <input type="radio"/> C0 <input type="radio"/> C <input type="radio"/> D
3.	Antenna Location Coordinates: (NAD 27)  Latitude: Degrees 41 Minutes 22 Seconds 50 <input checked="" type="radio"/> North <input type="radio"/> South  Longitude: Degrees 80 Minutes 24 Seconds 48 <input checked="" type="radio"/> West <input type="radio"/> East
4.	One Step Proposal Allotment Coordinates: (NAD 27) <input type="checkbox"/> Not Applicable  Latitude: Degrees Minutes Seconds <input type="radio"/> North <input type="radio"/> South  Longitude: Degrees Minutes Seconds <input type="radio"/> West <input type="radio"/> East
5.	Antenna Structure Registration Number: 1013110 <input type="checkbox"/> Not Applicable <input type="checkbox"/> Notification filed with FAA
5.	Overall Tower Height Above Ground Level: 95.4meters
7.	Height of Radiation Center Above Mean Sea Level: 443.7 meters(H) 443.7 meters(V)
8.	Height of Radiation Center Above Ground Level: 56meters(H) 56meters(V)
9.	Height of Radiation Center Above Average Terrain: 100meters(H) 100meters(V)
10.	Effective Radiated Power: 3 kW(H) 3 kW(V)
11.	Maximum Effective Radiated Power: <input checked="" type="checkbox"/> Not Applicable (Beam-Tilt Antenna ONLY) kW(H) kW(V)
12.	Directional Antenna Relative Field Values: <input checked="" type="checkbox"/> Not applicable (Nondirectional)  Rotation (Degrees): <input type="checkbox"/> No Rotation

Degrees	Value										
0		10		20		30		40		50	
50		70		80		90		100		110	

120	130	140	150	160	170
180	190	200	210	220	230
240	250	260	270	280	290
300	310	320	330	340	350
Additional Azimuths					

[Relative Field Polar Plot](#)

**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**

**AUXILIARY ANTENNA APPLICANTS ARE NOT REQUIRED TO RESPOND TO ITEMS 13-16. PROCEED TO ITEM 17.**

<p>13. <b>Allotment.</b> The proposed facility complies with the allotment requirements of 47 C.F.R. Section 73.203.</p>	<p align="center"> <input checked="" type="radio"/> Yes <input type="radio"/> No                   See Explanation in [Exhibit 21]             </p>
<p>14. <b>Community Coverage.</b> The proposed facility complies with 47 C.F.R. Section 73.315.</p>	<p align="center"> <input checked="" type="radio"/> Yes <input type="radio"/> No                   See Explanation in [Exhibit 22]             </p>
<p>15. <b>Main Studio Location.</b> The proposed main studio location complies with 47 C.F.R. Section 73.1125.</p>	<p align="center"> <input checked="" type="radio"/> Yes <input type="radio"/> No                   See Explanation in [Exhibit 23]             </p>
<p>16. <b>Interference.</b> The proposed facility complies with all of the following applicable rule sections: Check all those that apply:</p> <p><b>Separation Requirements.</b>  <input checked="" type="checkbox"/> a) 47 C.F.R. Section 73.207</p> <p><b>Grandfathered Short-Spaced.</b></p> <p><input type="checkbox"/> b) 47 C.F.R. Section 73.213(a) with respect to station(s): [Exhibit 25]  <b>Exhibit required</b></p> <p><input type="checkbox"/> c) 47 C.F.R. Section 73.213(b) with respect to station(s): [Exhibit 26]  <b>Exhibit required</b></p> <p><input checked="" type="checkbox"/> d) 47 C.F.R. Section 73.213(c) with respect to station(s): [Exhibit 27]  <b>Exhibit required.</b></p> <p><b>Contour Protection</b></p> <p><input type="checkbox"/> e) 47 C.F.R. Section 73.215 with respect to station(s): [Exhibit 28]  <b>Exhibit required.</b></p>	<p align="center"> <input checked="" type="radio"/> Yes <input type="radio"/> No                   See Explanation in [Exhibit 24]             </p>
<p>17. <b>Environmental Protection Act.</b> 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 <b>Exhibit is required.</b></p> <p>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.</p>	<p align="center"> <input checked="" type="radio"/> Yes <input type="radio"/> No                   See Explanation in [Exhibit 29]             </p>

**PREPARERS CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.**

**SECTION III - PREPARER'S CERTIFICATION**

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		Relationship to Applicant (e.g., Consulting Engineer)	
Signature		Date	
Mailing Address			
City		State or Country (if foreign address)	Zip Code
Telephone Number (include area code)		E-Mail Address (if available)	

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).

**Exhibits**

**Exhibit 24**  
**Description:** EXHIBIT 24 - STATEMENT A, FIGURE 1 AND TABLE 1

**Attachment 24**

Description
<a href="#">Exhibit 24 - Statement A, Figure 1 and Table 1</a>

**Exhibit 27**  
**Description:** COMPLIES WITH SECTION 73.213(C) WITH RESPECT TO WRQK -FM. SEE EXHIBIT 24.

**Attachment 27**

  

**Exhibit 29**  
**Description:** EXHIBIT 29 - STATEMENT B

**Attachment 29**

Description
<a href="#">Exhibit 29 - Statement B</a>

Exhibit 29 - Statement B  
**ENVIRONMENTAL CONSIDERATIONS**

prepared for  
**Beacon Broadcasting, Inc.**  
WEXC(FM) Greenville, Pennsylvania  
Facility ID 25225  
Ch. 296A 3 kW 100 m

**Nature of The Proposal**

*Beacon Broadcasting, Inc.* ("*Beacon*"), licensee of radio station WEXC-FM Greenville, Pennsylvania, herein proposes to move the WEXC transmitting site to a registered tower structure at a different location and increase the WEXC antenna height above average terrain (HAAT). The instant proposal is not believed to have a significant environmental impact as defined under §1.1306 of the Commission's Rules. Based on information provided by the applicant, it is believed that the provisions of §1.1307(a)(1-8) of the Commission's Rules would not apply in this case. Consequently, preparation of an Environmental Assessment is not required.

**Human Exposure to Radiofrequency Radiation**

The proposed operation was evaluated for human exposure to radiofrequency ("RF") electromagnetic fields using the procedures outlined in the Commission's OET Bulletin No. 65 ("OET 65"). OET 65 describes a means of determining whether a proposed facility exceeds the radiofrequency exposure guidelines adopted in §1.1310.

*Beacon* proposes to utilize a transmitting antenna with its center of radiation located 56 meters above ground. An ERP of 3 kilowatts, circularly polarized, will be employed. The "uncontrolled/general population" limit specified in §1.1310 for FM radio frequency is 200  $\mu\text{W}/\text{cm}^2$ . RF plane wave power density was predicted pursuant to OET 65. Based on the procedure in OET 65, WEXC will contribute no more than a maximum of 5.1 percent of the general population/uncontrolled limit in the vicinity of the tower structure.

It is noted that there is a STA for WGRP(AM) (Greenville, PA) to temporarily use this tower as an antenna system. WEXC will coordinate with the licensee of WGRP to ensure that areas where the predicted RF power density will exceed the Commission's limit public access will be restricted.

Exhibit 29 - Statement B  
**ENVIRONMENTAL CONSIDERATIONS**  
(page 2 of 2)

According to the FCC's CDBS database, the nearest authorized AM station is WGRP(AM), Greenville, PA), at 0.69 km from the proposed WEXC facility. There are no other authorized AM, FM or television within 5 km of the proposed site. At these large distances, consideration of other broadcast station emitters is not necessary.

**Safety of Tower Workers and the General Public**

As demonstrated herein, excessive levels of RF energy attributable to the proposal will not be caused at publicly accessible areas at ground level near the antenna supporting structure. Consequently, members of the general public will not be exposed to RF levels in excess of the Commission's guidelines. Nevertheless, tower access will be restricted and controlled through the use of a locked fence. Additionally, appropriate RF exposure warning signs will be posted.

With respect to worker safety, it is believed that based on the preceding analysis, excessive exposure would not occur in areas at ground level. A site exposure policy will be employed protecting maintenance workers from excessive exposure when work must be performed on the tower in areas where high RF levels may be present. Such protective measures may include, but will not be limited to, restriction of access to areas where levels in excess of the guidelines may be expected, power reduction, or the complete shutdown of facilities when work or inspections must be performed in areas where the exposure guidelines will be exceeded. On-site RF exposure measurements may also be undertaken to establish the bounds of safe working areas. The applicant agrees to cooperate with any existing and future licensees operating on or near this tower structure to ensure worker and public safety.

**Conclusion**

Based on the preceding, it is believed that the instant proposal may be categorically excluded from environmental processing under Section 1.1306 of the Rules, hence preparation of an Environmental Assessment is not required.