

ENGINEERING EXHIBIT

Application for Construction Permit

prepared for

CBS Radio Stations Inc.

WRBQ-FM Tampa, Florida

Facility ID 11943

Ch. 284C1 100 kW 174 m

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FCC Form 301 Section III-B - FM Engineering

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This material supplies a "hard copy" of the engineering portions of this application as entered August 1, 2007 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.

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: 284

2.

Class (select one):

☐ A

☐ B1

☐ B

☐ C3

☐ C2

☒ C1

☐ C0

☐ C

☐ D

3.

Antenna Location Coordinates: (NAD 27)

Latitude:
Degrees 27 Minutes 55 Seconds 54

☒ North

☐ South

Longitude:
Degrees 82 Minutes 24 Seconds 05

☒ West

☐ East

4.

Proposed Allotment or Assignment Coordinates: (NAD 27)

☒ Not Applicable

Latitude:
Degrees Minutes Seconds

☐ North

☐ South

Longitude:
Degrees Minutes Seconds

☐ West

☐ East

5.

Antenna Structure Registration Number:

☐ Not Applicable

☒ Notification filed with FAA

6.

Overall Tower Height Above Ground Level:

189.6meters

7.

Height of Radiation Center Above Mean Sea Level:

181 meters(H)

181 meters(V)

8.

Height of Radiation Center Above Ground Level:

178meters(H)

178meters(V)

9.

Height of Radiation Center Above Average Terrain:

174meters(H)

174meters(V)

10.

Effective Radiated Power:

100 kW(H)

100 kW(V)

11.

Maximum Effective Radiated Power:

☒ Not Applicable

kW(H)

kW(V)

(Beam-Tilt Antenna ONLY)

12.

Directional Antenna Relative Field Values:

☒ Not applicable (Nondirectional)

Rotation (Degrees):

☐ No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0		10		20		30		40		50	
60		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.

13.	Allotment. The proposed facility complies with the allotment requirements of 47 C.F.R. Section 73.203.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 23]
14.	Community Coverage. The proposed facility complies with 47 C.F.R. Section 73.315.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 24]
15.	Main Studio Location. The proposed main studio location complies with 47 C.F.R. Section 73.1125.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 25]
16.	Interference. The proposed facility complies with all of the following applicable rule sections: Check all those that apply: Separation Requirements. <input checked="" type="checkbox"/> a) 47 C.F.R. Section 73.207 Grandfathered Short-Spaced. <input type="checkbox"/> b) 47 C.F.R. Section 73.213(a) with respect to station(s): [Exhibit 27] Exhibit required <input type="checkbox"/> c) 47 C.F.R. Section 73.213(b) with respect to station(s): [Exhibit 28] Exhibit required <input type="checkbox"/> d) 47 C.F.R. Section 73.213(c) with respect to station(s): [Exhibit 29] Exhibit required. Contour Protection <input checked="" type="checkbox"/> e) 47 C.F.R. Section 73.215 with respect to station(s): [Exhibit 30] Exhibit required.	<input checked="" type="radio"/> Yes <input type="radio"/> No See Explanation in [Exhibit 26]
17.	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. 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.	<input type="radio"/> Yes <input checked="" type="radio"/> No See Explanation in [Exhibit 31]

18. 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 station assignments under Section 307(b) of the Communications Act of 1934, as amended (47 U.S.C. Section 307(b)).	<div><div><div><div></div></div><div>Yes</div></div><div><div><div></div></div><div>No</div></div><div><div><div></div></div><div>N/A</div></div></div> <div>[Exhibit 32]</div>
An exhibit is required unless this question is not applicable.	

PREPARERS CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.

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	Relationship to Applicant (e.g., Consulting Engineer)	
ROBERT J. CLINTON	CONSULTANT	
Signature	Date	
	8/1/2007	
Mailing Address		
CAVELL, MERTZ & ASSOCIATES, INC.		
7839 ASHTON AVENUE		
City	State or Country (if foreign address)	Zip Code
MANASSAS	VA	20109 -2883
Telephone Number (include area code)	E-Mail Address (if available)	
7033929090	BCLINTON@CAVELLMERTZ.COM	

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 26

Description: EXHIBIT 26 - STATEMENT A

EXHIBIT 26 - STATEMENT A - NATURE OF THE PROPOSAL, ALLOCATION CONSIDERATIONS

Attachment 26

Description
<u>EXHIBIT 26 - STATEMENT A</u>

Exhibit 30

Description: EXHIBIT 30 - CONTOUR PROTECTION

SEE EXHIBIT 26 - STATEMENT A FOR CONTOUR PROTECTION DISCUSSION.

Attachment 30

Exhibit 31

Description: EXHIBIT 31 - STATEMENT B

EXHIBIT 31 - STATEMENT B - ENVIRONMENTAL CONSIDERATIONS

Attachment 31

Description
EXHIBIT 31 - STATEMENT B

Exhibit 31 - Statement B
ENVIRONMENTAL CONSIDERATIONS
prepared for
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Nature of the Proposal

The instant application seeks authorization to construct a transmitter facility at a new location and at a different antenna height above average terrain ("HAAT"). The proposed operation will employ a nondirectional FM antenna system side-mounted on a new tower structure. The FAA has issued a "Determination of No Hazard" for the proposed structure.

Section 1.1307(a)(1-8) Considerations

The tower proponent (Richland Towers) has commissioned an environmental consultant to consider the various environmental subjects outlined in Section 1.1307(a)(1-8) of the Commission's Rules for the proposed transmitter location. The subject application will be amended upon receipt of the consultant's report. Pending submission of that amendment, a selection of "no" has been supplied in response to Item 17 of the associated Form 301 Section III-B – FM Engineering.

The Commission's environmental concerns reflected in Section 1.1306(b) of its rules ("RF Exposure") are addressed in the following paragraphs.

Human Exposure to Radiofrequency Electromagnetic Field

CBS will participate in a radiofrequency ("RF") electromagnetic field exposure safety program, along with any other broadcasters and other FCC licensees that will utilize the proposed transmitter site. Following construction of the proposed facility, *CBS* will commission RF exposure measurements (and/or detailed calculations) to evaluate the level of RF exposure resulting from the WRBQ-FM facility. As necessary, based on these results and considering all emitters, appropriate exposure abatement procedures will be established and followed, in order to comply with the Commission's exposure limits. Such abatement procedures may involve the restriction of access to certain areas and/or facility modifications to reduce RF levels.

Exhibit 31 - Statement B
ENVIRONMENTAL CONSIDERATIONS
(page 2 of 2)

Considering the post-construction measurements, access controls, and an appropriate abatement program, the general public will not be exposed to RF levels in excess of the Commission's guidelines. RF exposure warning signs will be posted.

Safety of Tower Workers and the General Public

With respect to worker safety, authorized personnel will be trained and/or supervised as necessary for access to any "controlled" areas. A site exposure policy will be employed protecting maintenance workers from excessive exposure when work must be performed on the tower or 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. The applicant will coordinate exposure procedures with all pertinent stations.

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.