

ENGINEERING EXHIBIT

Application for Construction Permit

prepared for

Ramar Communications II, Ltd.

KSTQ-FM New Deal, Texas

Facility ID 54684

Ch. 247C2 32 kW 187 m

Table of Contents

FCC Form 301, Section III-B - FM Engineering

Exhibit 26

Statement A	Nature of the Proposal, Allocation Considerations
Figure 1	Antenna Horizontal Plane Envelope Pattern
Figure 2	Proposed Coverage Contours
Table I	Allocation Spacing Summary
Figure 3	First Adjacent Allocation Study
Figure 3A	First Adjacent Allocation Study Detail

Exhibit 31

Statement B	Environmental Considerations
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Exhibit 32

Statement C	Section 307(b) Showing
Figure 4	Lubbock, Texas Urbanized Area Coverage Comparison
Table II	KSTQ-FM Class C2 Gain-Loss Summary
Table III	Summary of Alternate Services in Plainview, TX
Table IV	Summary of Alternate Services in New Deal, TX

This material supplies a "hard copy" of the engineering portions of this application as entered May 15, 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: 247

2. Class (select one):
 A B1 B C3 C2 C1 C0 C D

3. Antenna Location Coordinates: (NAD 27)
 Latitude:
 Degrees 33 Minutes 30 Seconds 08 North South
 Longitude:
 Degrees 101 Minutes 52 Seconds 20 West East

4. Proposed Allotment or Assignment Coordinates: (NAD 27) Not Applicable
 Latitude:
 Degrees 33 Minutes 44 Seconds 13 North South
 Longitude:
 Degrees 101 Minutes 50 Seconds 10 West East

5. Antenna Structure Registration Number: 1248244
 Not Applicable Notification filed with FAA

6. Overall Tower Height Above Ground Level: 289.6meters

7. Height of Radiation Center Above Mean Sea Level: 1168 meters(H) 1168 meters(V)

8. Height of Radiation Center Above Ground Level: 190.5meters(H) 190.5meters(V)

9. Height of Radiation Center Above Average Terrain: 187meters(H) 187meters(V)

10. Effective Radiated Power: 32 kW(H) 32 kW(V)

11. Maximum Effective Radiated Power: Not Applicable (Beam-Tilt Antenna ONLY) kW(H) kW(V)

12. Directional Antenna Relative Field Values: Not applicable (Nondirectional)
 Rotation (Degrees): 0 No Rotation

Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value	Degrees	Value
0	1.000	10	1.000	20	1.000	30	1.000	40	1.000	50	1.000
60	1.000	70	1.000	80	1.000	90	1.000	100	1.000	110	1.000
120	1.000	130	1.000	140	1.000	150	1.000	160	1.000	170	1.000
180	1.000	190	1.000	200	1.000	210	0.800	220	0.650	230	0.580
240	0.580	250	0.640	260	0.770	270	0.950	280	1.000	290	1.000
300	1.000	310	1.000	320	1.000	330	1.000	340	1.000	350	1.000
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. Allotment. The proposed facility complies with the allotment requirements of 47 C.F.R. Section 73.203.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 23]</p>
<p>14. Community Coverage. The proposed facility complies with 47 C.F.R. Section 73.315.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 24]</p>
<p>15. Main Studio Location. The proposed main studio location complies with 47 C.F.R. Section 73.1125.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 25]</p>
<p>16. Interference. The proposed facility complies with all of the following applicable rule sections: Check all those that apply:</p> <p>Separation Requirements. <input checked="" type="checkbox"/> a) 47 C.F.R. Section 73.207</p> <p>Grandfathered Short-Spaced.</p> <p><input type="checkbox"/> b) 47 C.F.R. Section 73.213(a) with respect to station(s): [Exhibit 27] Exhibit required</p> <p><input type="checkbox"/> c) 47 C.F.R. Section 73.213(b) with respect to station(s): [Exhibit 28] Exhibit required</p> <p><input type="checkbox"/> d) 47 C.F.R. Section 73.213(c) with respect to station(s): [Exhibit 29] Exhibit required.</p> <p>Contour Protection</p> <p><input checked="" type="checkbox"/> e) 47 C.F.R. Section 73.215 with respect to station(s): [Exhibit 30] Exhibit required.</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 26]</p>
<p>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.</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</p>	<p><input checked="" type="radio"/> Yes <input type="radio"/> No</p> <p>See Explanation in [Exhibit 31]</p>

electromagnetic exposure in excess of FCC guidelines.	
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)). An exhibit is required unless this question is not applicable.	<input checked="" type="radio"/> Yes <input type="radio"/> No <input type="radio"/> N/A [Exhibit 32]
<p>PREPARERS CERTIFICATION ON PAGE 3 MUST BE COMPLETED AND SIGNED.</p>	

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 ROBERT J. CLINTON		Relationship to Applicant (e.g., Consulting Engineer) CONSULTANT	
Signature		Date 5/15/2007	
Mailing Address CAVELL, MERTZ & ASSOCIATES, INC. 7839 ASHTON AVENUE			
City MANASSAS		State or Country (if foreign address) VA	Zip Code 20109 -2883
Telephone Number (include area code) 7033929090		E-Mail Address (if available) 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 OF CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(a)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

Exhibits

Exhibit 23

Description: EXHIBIT 23 - ALLOTMENT

SEE EXHIBIT 26 - STATEMENT A FOR ALLOTMENT DISCUSSION.

Attachment 23

Exhibit 24

Description: EXHIBIT 24 - COMMUNITY COVERAGE

SEE EXHIBIT 26 - STATEMENT A FOR COMMUNITY COVERAGE DETAILS.

Attachment 24

Exhibit 25

Description: EXHIBIT 25 - STUDIO LOCATION

THE KSTQ-FM MAIN STUDIO IS LOCATED IN LUBBOCK, TEXAS; THIS IS WITHIN THE 70 DBU CITY GRADE CONTOUR OF THE PROPOSED FACILITY AND COMPLIES WITH SECTION 73.1125(A)(2) OF THE RULES.

Attachment 25

Exhibit 26

Description: EXHIBIT 26 - STATEMENT A

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

Attachment 26

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

Exhibit 30

Description: EXHIBIT 30 - SECTION 73.215 SHORT SPACING

SEE EXHIBIT 26 - STATEMENT A FOR SECTION 73.215 PROTECTION DISCUSSION.

Attachment 30

Exhibit 31

Description: EXHIBIT 31 - STATEMENT B

EXHIBIT 31 - STATEMENT B - ENVIRONMENTAL CONSIDERATIONS

Attachment 31

Description
<u>EXHIBIT 31 - STATEMENT B</u>

Exhibit 32

Description: EXHIBIT 32 - STATEMENT C

EXHIBIT 32 - STATEMENT C - SECTION 307(B) DISCUSSION

Attachment 32

Exhibit 31 - Statement B
ENVIRONMENTAL CONSIDERATIONS
prepared for
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The instant proposal is not believed to have a significant environmental impact as defined under Section 1.1306 of the Commission's Rules. Consequently, preparation of an Environmental Assessment is not required.

Nature of the Proposal

The instant application seeks authorization to construct a transmitter facility at a new location and increase the effective radiated power ("ERP") at a different antenna height above average terrain ("HAAT"). The proposed operation will employ a directional FM antenna system side-mounted on an existing tower structure (ASR 1248244).

The use of existing transmitting locations has been characterized as being environmentally preferable by the Commission, according to Note 1 of §1.1306 of the FCC Rules. Since the proposal involves an existing tower structure (no change in height is proposed to accommodate the instant proposal), this application may be categorically excluded from environmental processing pursuant to §1.1306 of the Commission's rules.

Human Exposure to Radiofrequency Electromagnetic Field

Ramar Communications II, Ltd. ("Ramar") will participate in a radiofrequency ("RF") electromagnetic field exposure safety program, along with any other broadcasters and other FCC licensees that utilize the proposed transmitter site. Following construction of the proposed facility, *Ramar* will commission RF exposure measurements (and/or detailed calculations) to evaluate the level of RF exposure resulting from the KSTQ-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

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

may involve the restriction of access to certain areas and/or facility modifications to reduce RF levels.

Considering the post-construction measurement and an appropriate abatement program, workers will not be exposed to RF levels in excess of the Commission's guidelines. RF exposure warning signs will continue to 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. RF exposure measurements may also be undertaken to establish the bounds of safe working areas. 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, hence preparation of an Environmental Assessment is not required.