

ENGINEERING REPORT

FM Translator Minor Construction Permit Application

for

W282AE – Macon, GA

Lic No. BLFT-19961021TC

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(Exhibit numbering is in response to FCC Online Form 349, Section III-A)

Discussion

This firm has been retained to prepare the required engineering report in support of a minor construction permit application for FM Fill-In Translator W282AE, Macon, GA, License No. BLFT-19961021TC. W282AE presently operates on 104.3 MHz with 27 watts of non-directional power with an antenna COR of 190 meters AMSL. A power decrease is requested from a new site location with a higher AMSL height. Operation on CH282D with 13 watts ERP at 232 meters AMSL is requested. The Translator rebroadcasts and will continue to rebroadcast FM station WYFK(FM), Columbus, GA.

The existing tower bears Antenna Structure Registration Number 1054180. A copy of the existing ASR has been included in ***Exhibit 12.1***. A copy of the vertical antenna system has been included in ***Exhibit 12.2***. It has been determined the translator may be used in the area without interference to any existing FM broadcast station or facility. Allocation details are found in ***Exhibit 12.5***. It is believed sufficient clearance exists precluding the need for additional contour protection showings. The applicant would like to note the max HAAT value as well as all allocation and contour showings have been determined using the 30 sec NGDC terrain database.

The Translator site lies outside of the of the primary contour of WYFK(FM), and the 1 mV/m (60 dBu) contour of the proposed Translator extends beyond the WYFK(FM) station primary contour. A map of the proposed service area in relation to the primary station service contour has been included in ***Exhibit 12.4***.

Regarding protection of international concerns, the present facility is and will remain more than 320 km from the common border between the United States and Canada or Mexico. As a result, no further international showings are required.

The proposed operating parameters have been changed from the licensed values, however the proposed service contour serves a portion of the present service area as seen in ***Exhibit 12.3***.

RADIATION PROTECTION: The Commission requires an engineering study regarding compliance with the guidelines for human protection from radiofrequency radiation. This report section is in response to that provision of the Rules. The current Federal Communications Commission guidelines for RF radiation protection are set forth in OET Bulletin No. 65 (Edition 97-01), and the accompanying Supplement A, (Edition 97-01).

Discussion (continued)

The FM Broadcast facility proposed in this application will not produce human exposure to radiofrequency radiation in excess of the applicable safety standards specified in §1.1307(b)(3) of the Commission's rules concerning RF contributors of less than 5%. **Exhibit 16.1** provides the details of the study that was made to demonstrate compliance. The facility is properly marked with signs, and entry is restricted by means of fencing with locked doors and/or gates. Any other means as may be required to protect employees and the general public will be employed.

In the event work would be required in proximity to the antenna such that the person or persons working in the area would be potentially exposed to fields in excess of the guidelines set forth in OET Bulletin No. 65 (Edition 97-01), the transmitter power will be reduced or the station will cease operation during the critical period.

DISTANCES TO CONTOURS: The following tabulation of the distances to the proposed service contours results from calculations performed in accordance with §73.313(d) and §73.333 Figure 1.

N. Lat. = 325215 W. Lng. = 834133						
HAAT and Distance to Contour						
3-16 km, 51 pts Method - NGDC 30 SEC						
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	122.5	109.5	0.0130	-18.86	1.000	6.53
030	121.0	111.0	0.0130	-18.86	1.000	6.57
060	122.8	109.2	0.0130	-18.86	1.000	6.52
090	130.8	101.2	0.0130	-18.86	1.000	6.28
120	105.4	126.6	0.0130	-18.86	1.000	6.97
150	106.8	125.2	0.0130	-18.86	1.000	6.94
180	110.3	121.7	0.0130	-18.86	1.000	6.86
210	120.5	111.5	0.0130	-18.86	1.000	6.59
240	125.7	106.3	0.0130	-18.86	1.000	6.43
270	125.5	106.5	0.0130	-18.86	1.000	6.44
300	150.7	81.3	0.0130	-18.86	1.000	5.60
330	127.5	104.5	0.0130	-18.86	1.000	6.38
Ave El= 122.47 M HAAT= 109.53 M AMSL= 232 M						