

ENGINEERING REPORT

Requesting a Minor Construction Permit
Modification for

KYFB.C(FM) – Denison, TX
Channel 218A (91.5 MHz)
License No. BPED-19970219MA

Change in Site Location

May, 2006

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Coldwater, MI 49036

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Interference Requirements

Contour Overlap Requirements

- Exhibit 15.1 - Allocation Study for Channel 218A
- Exhibit 15.2 - Contour Protection Studies Toward KVTT(FM) Dallas, TX

Spacing Requirements	(See Discussion)
Grandfathered Short-Spaced Requirements	(none)
Contour Protection Requirements	(none)
TV Channel 6 Protection Requirements	(none)

International Borders (See Discussion)

RF Radiation Study Requirement (See Discussion)

(Exhibit Numbering is in response to FCC Online Form 340, Section VII)

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DISCUSSION OF REPORT

This firm was retained to prepare the required engineering report in support of a minor construction permit modification for KYFB.C(FM), Denison, TX, BPED-19970219MA. KYFB.C is authorized to operate on FM Channel 218A, 91.5 MHz, with 4.0 kW ERP at 63 meters HAAT. Non-directional operation is authorized. This application proposes to relocate to an adjacent tower approximately 1 km away and increase power and height to 4.5 kW at 67 meters HAAT. The facility will still serve Denison, TX.

The antenna proposed in this application will be located on the constructed tower bearing ASR No. 1012248. The vertical plan for the proposed support tower has been designated as **Exhibit 13.2**. A copy of the existing Antenna Structure Registration has been found in **Exhibit 13.1**.

The 60.0 dBu service contour has been calculated in accordance with the Rules, and the data obtained has been plotted in **Exhibit 13.4** of this report. The antenna HAAT and contours employed in this application were calculated using the NED 03 second database furnished by V-Soft™ Communications.

Exhibit 15.1 is an allocation study for KYFB.C(FM). The station, operating as proposed, will continue to fully protect all full service stations within the allocation. Contour protections toward one select station, KVTB(FM) Dallas, TX has been provided in **Exhibit 15.2**. It is believed there is sufficient clearance to preclude the need for further study with respect to the other stations shown in the tabulation. Special international concurrence is not necessary as this application proposes operation more than 320 km between the border of the United States and Canada or Mexico.

The transmitter site proposed in this application is outside of the affected radius of any Channel 6 television station, therefore no Channel 6 study need be provided.

The remainder of the information in this report is responsive to the Rules of the Commission, and provides the data for FCC Form 340, Section VII.

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DISCUSSION OF REPORT (continued)

RADIATION PROTECTION: The FM broadcast facility proposed in this application is within the limits as set forth in the FCC Form 349 Worksheet #7 (RF Exposure Compliance), issued March, 2001. As this facility complies with Worksheet #7, no RF study need be supplied.

The facility will be properly marked with signs, and entry will be 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 table below shows the distances to 60.0 dBu contour from the proposed facility using an ERP of 4.5 kW at an HAAT of 67 meters. These distances have been calculated based on the FCC F(50-50) curves.

N. Lat. = 33 42 10 W. Lng. = 96 34 05						
HAAT and Distance to Contour - FCC Method - NED 03 Arc Sec.						
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	195.0	81.0	4.5000	6.53	1.000	24.02
045	191.0	85.0	4.5000	6.53	1.000	24.56
090	175.5	100.5	4.5000	6.53	1.000	26.59
135	194.8	81.2	4.5000	6.53	1.000	24.03
180	215.2	60.8	4.5000	6.53	1.000	21.10
225	240.6	35.4	4.5000	6.53	1.000	15.81
270	230.2	45.8	4.5000	6.53	1.000	18.27
315	230.9	45.1	4.5000	6.53	1.000	18.09
Ave El= 209.16 M HAAT= 66.84 M AMSL= 276 M						

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