

ENGINEERING REPORT

**MINOR CONSTRUCTION
PERMIT APPLICATION**

FOR

**KSSB(FM) – CH265A – Calipatria, CA
BLH-19950503KC**

**Minor Change in Frequency
to CH242A (96.3 MHz)**

February, 2010

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(Exhibit Numbering is in response to FCC Online Form 301, Section III-B)

DISCUSSION OF REPORT

This firm was retained to prepare the required engineering report in support of a minor construction permit application for KSSB(FM), Calipatria, CA, License No. BLH-19950503KC. KSSB(FM) is currently authorized to operate with 3.0 kW ERP (H)&(V) at -21 meters AMSL on CH265A. This minor construction permit application requests operation from the same site location with 6.0 kW ERP (H)&(V) at -16 meters AMSL. The facility will operate on the new channel of CH242A (96.3 MHz) utilizing a non-directional antenna. While no change in site location is proposed, the applicant would like to note a correction of coordinates has also been requested. KSSB(FM) will continue to serve the community of Calipatria, CA.

The corrected site for the Class A operation meets all the domestic and international spacing requirements of 47 C.F.R. §73.207 toward other stations in the CH242A allocation. A tabulation of the existing and required spacing toward each of the other relevant stations is found in **Exhibit 27.1**.

In this instance, the operational site will both remain fully spaced to all allocation requirements and place a 16.2 km Class A city reference arc or operational 70 dBu F(50:50) contour over the city of Calipatria, CA. In fact, the community of Calipatria itself resides within the CH242A fully spaced open area. Therefore the operational site may also serve as the special allotment reference point. As a result, it is believed no further special allotment reference point showings are required.

The KSSB(FM) service contours have been calculated in accordance with the Rules, and the data obtained has been tabulated and plotted in this report. The plotted contours are found as **Exhibit 24.4** of this report. The tabulation of the distances to the respective contours shown in this discussion is based on the use of the standard eight cardinal bearings, which were also used for the computation of the HAAT. However, the plotted contours shown in **Exhibit 24.4**, are based on the use of a full 360 terrain radials. The NGDC 30 second terrain database has been used in calculation of both HAAT and contour distance computations. This exhibit shows the overall service provided by the 1.0 mV/m and the 3.16 mV/m contour which serves 100% of Calipatria, CA.

The proposed antenna will be mounted on existing Antenna Structure Registration 1240680. Notifications to the FAA regarding errors in coordinates and tower height for ASR 1240680 are presently pending. The ASR will be corrected upon receipt of FAA "Determination of No Hazard". A copy of USGS Topographic Mapping of the existing site has been included in **Exhibit 24.1**. A copy of the vertical antenna plan has been included as **Exhibit 24.2**.

The remainder of the information in this report and exhibit numbering is responsive to the Rules of the Commission, and provides the data for FCC Online Form 301, Section III-B.

RADIATION PROTECTION: The FM Broadcast facility proposed in this application will not result in human exposure to radiofrequency radiation in excess of the applicable safety standards specified in §1.1310 of the Commission's rules. **Exhibit 32.1** provides the details of the study that was made to demonstrate compliance. 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.

DISCUSSION OF REPORT (continued)

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 the 3.16 mV/m and 1.0 mV/m contours from the proposed facility using an ERP of 6.0 kW at an HAAT of 25 meters. These distances have been calculated based on the FCC F(50-50) curves.

N. Lat. = 330713 W. Lng. = 1153043 HAAT and Distance to Contour, FCC, FM 2-10 Mi, 51 pts Method - NGDC 30 SEC						
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	-39.1	23.1	6.0000	7.78	1.000	15.75
045	-11.2	-4.8	6.0000	7.78	1.000	15.75
090	-18.0	2.0	6.0000	7.78	1.000	15.75
135	-32.4	16.4	6.0000	7.78	1.000	15.75
180	-41.6	25.6	6.0000	7.78	1.000	15.75
225	-54.6	38.6	6.0000	7.78	1.000	17.94
270	-63.7	47.7	6.0000	7.78	1.000	20.08
315	-65.6	49.6	6.0000	7.78	1.000	20.50
Ave El= -40.78 M HAAT= 24.78 M AMSL= -16 M						