

## **Radio Frequency Field Strength Measurements**

KJCC CH-208 89.5 MHz

CARNEGIE, OK

Prepared by:  
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Calvary Chapel of Twin Falls, Inc.  
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This report is the result of an RF field strength survey taken at the transmitter site of KJCC Carnegie, OK. This report is being submitted to comply with part 4 of the "special operating conditions or restrictions" of the construction permit, file number: BMPED-20160609AAP, which requires RF field strength measurements to ensure compliance with FCC guidelines (OET Bulletin No. 65, Edition 97-01, August 1997).

KJCC is a class C2 station operating on channel 208 (89.5 MHz) with an ERP of 23.5 kW. The antenna consists of a 4 bay, circularly polarized array with a center of radiation at 64 meters, and is directional.

Equipment used for the survey consisted of the following:

Narda model NBM-520A RF field strength meter, SN# D-0065 last calibrated 6-01-2016.

Narda model EA-5091 "E field" probe.

The meter was set to read and store instantaneous peak values using the FCC standard for "uncontrolled environments".

The survey was conducted along 8 radials beginning from the base of the tower and extending out approximately 100 meters. The probe of the field strength meter was held upward approximately 7-8 feet off the ground and swept horizontally while walking the radials.

Radial	Peak Value
0 deg.	04% of uncontrolled environment
45 deg.	06% of uncontrolled environment
90 deg.	06% of uncontrolled environment
135 deg.	09% of uncontrolled environment
180 deg.	08% of uncontrolled environment
225 deg.	07% of uncontrolled environment
270 deg.	08% of uncontrolled environment
315 deg.	07% of uncontrolled environment

In summary, the field strength measurements around the tower of the KJCC transmitter indicate that the highest field strength readings of 09% of maximum for an uncontrolled environment are within the 200 W/cm<sup>2</sup> uncontrolled (public) exposure limit.

I hereby certify that I have been a broadcast technician for over 10 years. I have been involved in or supervised the construction of 13 full power FM stations, and numerous FM translator stations. I presently hold the title of Senior Field Technician for CSN International and Calvary Chapel of Twin Falls, Inc.

I further certify that the preceding is true and correct to the best of my knowledge and ability.

Respectfully,

A handwritten signature in black ink, appearing to read 'Dustin Pamplona', with a long horizontal line extending to the right.

Dustin Pamplona  
Sr. Field Technician  
Calvary Chapel of Twin Falls, Inc.