

Radio Frequency Field Strength Measurements

KAWS CH-206 89.1 MHz

MARSING, ID

Prepared by:
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Sr. Field Technician
Calvary Chapel of Twin Falls, Inc.
August 13, 2012

This report is the result of an RF field strength survey taken at the transmitter site of KAWS Marsing, ID. This report is being submitted to comply with part 1 of the "Special operating conditions or restrictions" of the license, license file number: BMLED-20080721ACP, which requires RF field strength measurements to ensure compliance with FCC guidelines (OET Bulletin No. 65, Edition 97-01, August 1997).

KAWS is a class C1 station operating on channel 206 (89.1 MHz) with an ERP of 8.8 KW. The antenna consists of a 4 bay, vertically polarized array with a center of radiation at 12 meters, and is non-directional. The transmitter site is located on War Eagle Mountain, near Silver City, ID. Two other full power FM stations operate approximately 200 meters to the West and were in operation at the time of this survey. They are KARJ and KGCL.

Equipment used for the survey consisted of the following:

Narda model NBM-520A RF field strength meter, SN# D-0181 last calibrated 7-26-11.

Narda model EA-5091 "E field" probe, SN# 01014.

A calibration certificate is included with this report. 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, or to the limit that terrain would allow. 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.	06% of uncontrolled environment
45 deg.	06% of uncontrolled environment
90 deg.	04% of uncontrolled environment
135 deg.	04% of uncontrolled environment
180 deg.	05% of uncontrolled environment
225 deg.	04% of uncontrolled environment
270 deg.	03% of uncontrolled environment
315 deg.	07% of uncontrolled environment

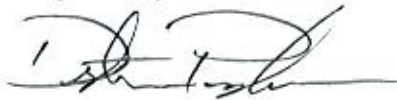
The variations in level along the 8 radials are due to terrain. The tower sits approximately 15 feet below the peak of the mountain, which is located to the Northwest. Terrain is relatively flat West of the tower, and drops off rapidly to the East and South of the tower.

In summary, the field strength measurements around the tower of the KAWS transmitter indicate that the highest field strength readings of 07% of maximum for an uncontrolled environment are within the 200 W/cm² uncontrolled (public) exposure limit.

I hereby certify that I have been a broadcast technician for over 6 years. I have been involved in or supervised the construction of 11 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 stylized flourish at the end.

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



TRSRenTelco

1830 West Airfield Drive
DFW Airport, Texas 75261

Calibration Certificate Traceability Statement

Asset Number: 1133515
MFG/Model Number: NAR/NBM-520;A
Serial Number: D-0181
Description: RF SURVEY METER
Customer: CSN INTERNATIONAL
Address: 4002 NORTH 3300 EAST
TWIN FALLS ID 83301

Customer P.O. No: 5647
Rental Agreement Number: 1505855-0
Certificate Number: 15058550113351511726

This certificate applies to the instrument identified above and shall not be reproduced, except in full, without written approval of TRS-RenTelco.

This certifies that the above instrument was calibrated to manufacturer's specifications using approved procedures and traceable measurement standards.

This calibration was performed by an approved vendor.

The Quality System of TRS-RenTelco is registered by UL QCS Certificate Number 10000112 to the Quality Management System Standard ISO 9001:2008. TRS-RenTelco's Laboratory is in compliance with MIL-STD-45662A, ANSI/NCSL Z540-1-1994, ISO/IEC 17025:2005 and ISO 10012:2003.

Measurement standards are calibrated at planned intervals. Traceability is to the International System of Units (SI) through the National Institute of Standards and Technology (NIST) or other recognized National Metrology Institute (NMI), natural physical constants, consensus standards, or by ratio type measurements using self calibrating techniques. Supporting documentation relative to traceability is available for review by appointment.

This instrument is initially being sent to the above customer calibrated and fully functional.

Although the calibration laboratory is in compliance with ANSI/NCSL Z540-1-1994 and MIL-STD-45662A this calibration certificate is issued only as a Traceability Statement and does not carry the requirement of recalibration at the end of rental and customer notification of Out of Tolerance conditions.

TRS-RenTelco's calibration interval for this instrument is 24 months.

Processed By: DAVID ERNST

Calibration Date: Jul 26, 2011

Calibration Due Date: Jul 26, 2013

Quality Assurance:



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TRS-RenTelco 800-621-6354
ID: 1133515 Date: 07/26/11
AV Due: 07/26/13

Certificate Print Date: July 27, 2012

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