

## **RFR Engineering Statement for Red Grade Communication Site Big Horn National Forest, Wyoming**

The instant Engineering Statement was prepared on behalf Lovcom, Inc., licensee of radio stations KZWY(FM) Sheridan, Wyoming, KYTI(FM) Sheridan, Wyoming, and KLQQ(FM) Clearmont, Wyoming. KZWY, KYTI, and KLQQ share co-located transmission facilities on a single tower owned by Lovcom at coordinates N44-37-20, W107-06-57, in Sheridan County, Wyoming.

The Lovcom tower is located at a developed communications site commonly known as the Red Grade Communications Site on land owned by the United States Forest Service. The Lovcom tower has a height of 150 feet AGL and, in addition to the stations already mentioned, supports one other primary broadcast service - KJCW-LP television. The main antenna and tower of full service television station KSGW-TV Sheridan, Wyoming, is also located adjacent to the Lovcom tower.

The Red Grade Communications Site does not qualify for the standard “worksheet” determination of RFR compliance due to the fact that there is a mix of FM and Television facilities at the site. Therefore, this Statement provides the radio frequency electromagnetic exposure measurements for the purpose of site compliance and was conducted in accordance of the FCC Guidelines (OET Bulletin No. 65 edition 97-01 August 1997) to determine acceptable levels of Radiofrequency Electromagnetic Exposure.

The attached measurements were taken by the undersigned at noon on October 28, 2006. A Narda SRM-3000 narrow band radiofrequency measurement test set with a 300 KHz–3 GHz three axis probe designed for E-field measurements was used in gathering the data. The attached map shows the RFR measurements taken at various locations from the Lovcom tower base to 100 feet from the tower in all directions. All measurements on the attached map indicate the percentage of the FCC Occupational/Controlled Standard (OET Bulletin No. 65 edition 97-01 August 1997) where 100% equal 1000 microvolts per square centimeter.

The radiofrequency environment at the Red Grade Communications site can be considered an occupational/controlled environment. This is a remote mountain top site at 2340 meters above mean sea level. The area is off limits to the general public and is protected by a locked gate on the access road 0.5 miles from the site. The gate also includes an RFR warning sign indicating that a communications site is located beyond the gate and hazardous RFR may be encountered at the site and should not be accessed by the public.

This access road affords the only means of vehicular access to the site due to hazardous terrain. The locked gate prevents inadvertent access by the general public. Additionally, the access road is not passable during 6 months of the year due to deep snow. A snow vehicle or helicopter is required to access the site during that time of the year. In the

event that a member of the general public does gain access to the site without using the access road, appropriate RFR warning signs are posted in accordance to FCC rules and regulations at regular intervals around the tower encompassing a radius of approximately 40 feet from the tower base.

In an examination of the measurements recorded, one can observe that at no location does the RFR field exceed the limits for Maximum Permissible Exposure (MPE) for persons familiar with working in RFR environments (ie: a Controlled Site). And, with the exception of areas within 30 feet of the Lovcom tower (areas well inside the warning sign perimeter), the RFR field does not exceed the MPE for the general public (ie: an Uncontrolled Site).

I, Kevin Terry, conducted the radiofrequency field survey. A Narda SRM-3000 narrow band radiofrequency measurement test set with a 300 KHz–3 GHz three axis probe designed for E-field measurements was employed. Manufacturer calibration is in current for the device and it is in good working order. The RFR measurements recorded on the 28th day of October are true and accurate to the best of my knowledge.

Dated this 30th day of October, 2006.

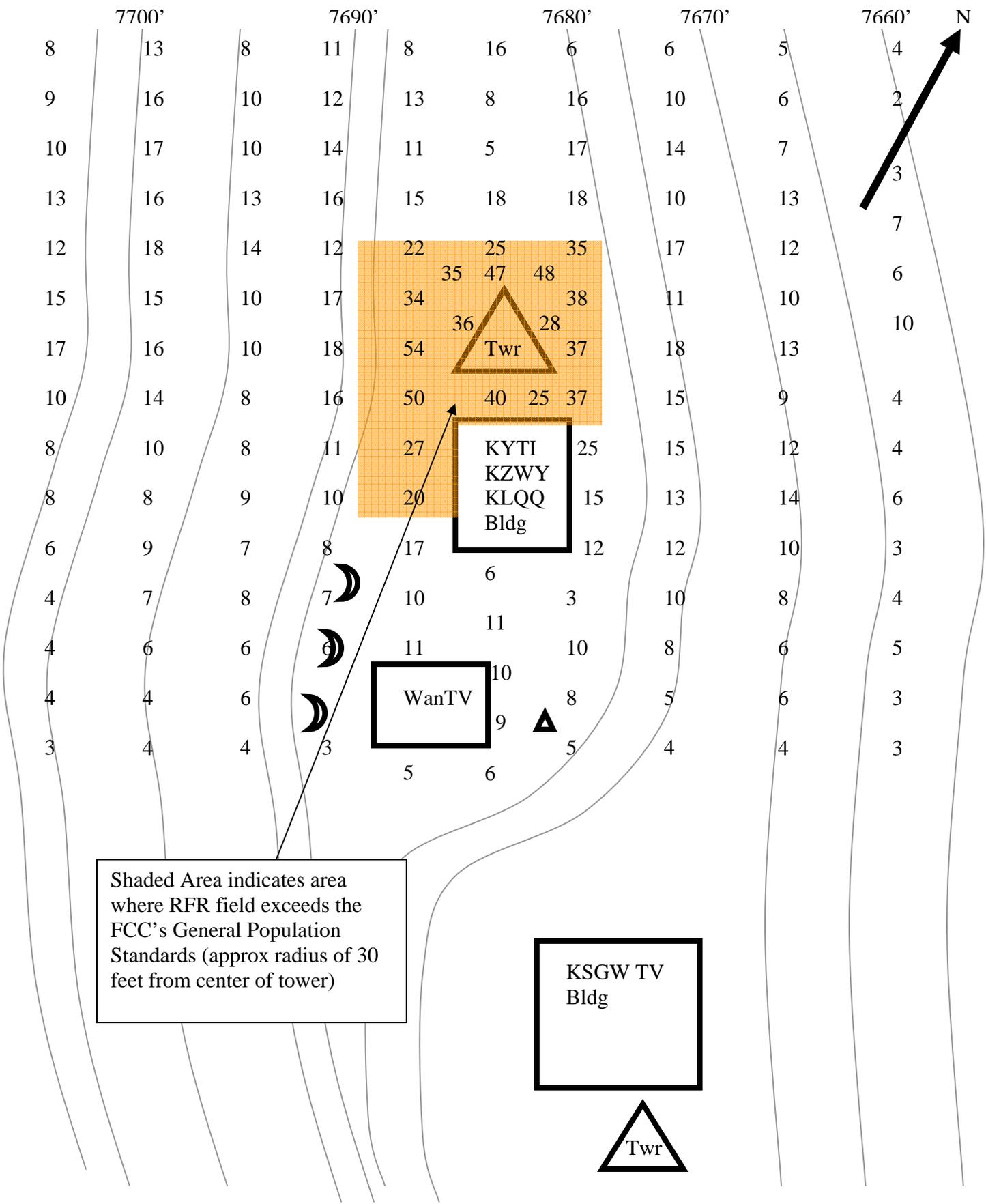


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Kevin Terry  
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Park City, UT 84098

Consulting Engineer to:  
Lovcom, Inc.

**KZWY, KYTI, KLQQ Radiofrequency Radiation Measurements  
(as a Percentage of FCC Controlled Standard)  
October 28, 2006**



Shaded Area indicates area where RFR field exceeds the FCC's General Population Standards (approx radius of 30 feet from center of tower)

KSGW TV Bldg

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# Calibration Certificate

Narda Safety Test Solutions hereby certifies that the referenced equipment has been calibrated by qualified personnel to Narda's approved procedures. The calibration was carried out within a certified quality management system conforming to ISO 9001:2000.

The metrological confirmation system for test equipment complies with ISO 10012-1.

Object	<b>Probe SRM, E-Field, Three-Axis 75 MHz to 3 GHz</b>
Type	<b>BN 3501/01</b>
Serial Number	<b>D-0014</b>
Manufacturer	Narda Safety Test Solutions
Customer	
Date of Calibration	16-Nov-2004
Results of Calibration	Test results within specifications
Confirmation interval recommended	24 Months
Ambient conditions	23°C +/-3°C (20...60)% rel. humidity
Test procedure	3000-8702-00A

Pfullingen, 16-Nov-2004

  
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Person in charge  
Moll

  
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Quality management representative  
W. Kumbier



Certified by DQS against  
DIN EN ISO 9001  
(Reg.-No. 99379)

This certificate may only be published in full, unless permission for the publication of an approved extract has been obtained in writing from the Managing Director.

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Object	<b>Selective Radiation Meter Basic Unit 100 kHz to 3 GHz</b>
Type	<b>SRM-3000, BN 3001/01</b>
Serial Number	<b>D-0016</b>
Manufacturer	<b>Narda Safety Test Solutions</b>
Customer	
Date of Calibration	<b>03-Nov-2004</b>
Result of Calibration	<b>Measurement results within specifications</b>
Confirmation interval recommended	<b>24 months</b>
Ambient conditions	<b>23 °C ± 3 °C (20 ... 60) % rel. humidity</b>
Test procedure	<b>3000-8701-00A</b>

Pfullingen, 03-Nov-2004

  
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 Person in charge  
 P. Geyer

  
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 Quality management representative  
 W. Kumbier



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