

**REQUEST FOR SPECIAL TEMPORARY AUTHORITY**  
**RADIO LICENSE HOLDING CBC, LLC**  
**KRUZ AM RADIO STATION**  
**1230 kHz - 0.02 KW**  
**MURRAY, UTAH**  
**March 2016**

This Technical Statement was prepared on behalf of Radio License Holding CBC, LLC ("Radio License Holding"), licensee of AM station KRUZ, 1230 kHz, Murray, Utah. Radio License Holding herein requests Special Temporary Authority ("STA") to operate KRUZ with a unipole antenna at its studio at 434 Bearcat Drive, Salt Lake City, Utah, which is 6.1 kilometers north of the licensed KRUZ site.

This STA is necessary due to the loss of the use of the licensed transmitter site and antenna system. KRUZ requests authority to operate at a reduced power of 0.02 kilowatt during daytime hours while locating a final transmitter site or repair of the current KRUZ site. The power of the station will be monitored by the indirect method. The folded unipole antenna will be attached to an existing auxiliary services tower that is at the rear of the studio property and is 125 feet in height. Access to the long-wire antenna is restricted by a fence surrounding the property and antenna.

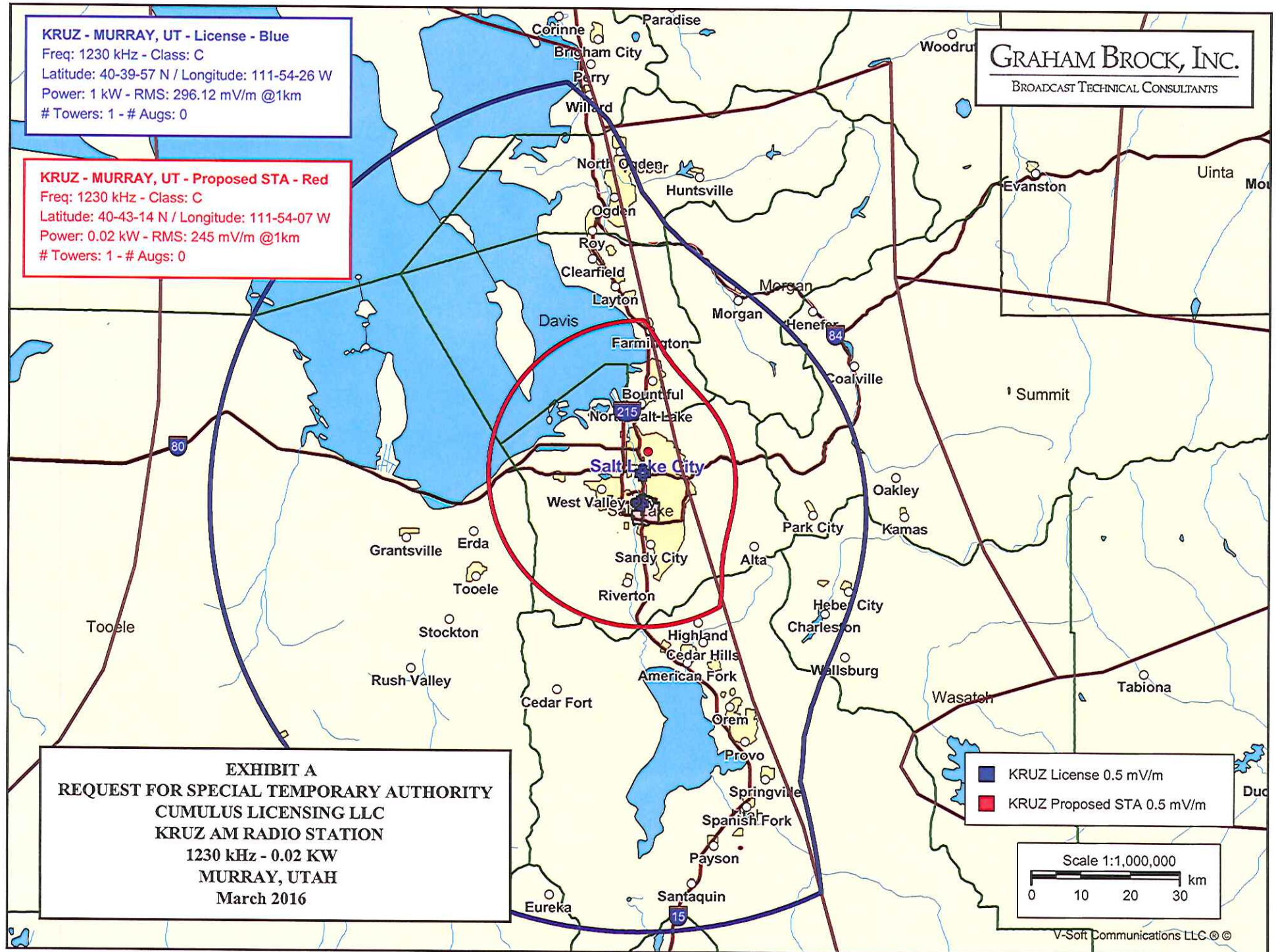
Exhibit A is a depiction of the proposed KRUZ STA's 0.5 mV/m contour compared to the licensed 0.5 mV/m contour of KRUZ. The proposed STA's operation does not extend beyond the licensed contour in any direction. Exhibit B is a sketch of the antenna system (not to scale). Exhibit C is a Google Earth Satellite map showing the proposed STA's location. Exhibit D demonstrates compliance with FCC guidelines for radio frequency exposure.

We have tried to be as accurate as possible in the preparation of this request. All information contained herein was extracted from the CDBS database. We assume no liability for omissions or errors in this source. Should there be any questions concerning the information contained herein, we welcome the opportunity to discuss the matter by phone at 912-638-8028 or by email at [rsg@grahambrock.com](mailto:rsg@grahambrock.com).

**KRUZ - MURRAY, UT - License - Blue**  
Freq: 1230 kHz - Class: C  
Latitude: 40-39-57 N / Longitude: 111-54-26 W  
Power: 1 kW - RMS: 296.12 mV/m @1km  
# Towers: 1 - # Augs: 0

**KRUZ - MURRAY, UT - Proposed STA - Red**  
Freq: 1230 kHz - Class: C  
Latitude: 40-43-14 N / Longitude: 111-54-07 W  
Power: 0.02 kW - RMS: 245 mV/m @1km  
# Towers: 1 - # Augs: 0

**GRAHAM BROCK, INC.**  
BROADCAST TECHNICAL CONSULTANTS



OVERALL  
STRUCTURE  
38.10 m  
( 125.0 ft)  
AGL  
1329.23 m  
( 4361.0 ft)  
AMSL

AM  
RADIATOR  
38.10 m  
( 125.0 ft)

North Latitude 40-43-14  
West Longitude 111-54-07

Site Elev 1291.13 m ( 4236.0 ft) AMSL

(Sketch not drawn to scale)

### VERTICAL PLAN SKETCH

SITE ELEVATION - 1291 m ( 4236 ft) AMSL

TOP OF STRUCTURE - 38 m ( 125 ft) AGL  
1329 m ( 4361 ft) AMSL

AM Radiator - 38 m ( 125 ft)

FIGURES ROUNDED TO NEAREST METER (FOOT).

EXHIBIT B  
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**EXHIBIT C**  
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**KRUZ Proposed STA Location**



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**EXHIBIT D**

**Radio Frequency Assessment**

A study has been made to determine whether this proposal is in compliance with 47 C.F.R. §1.1307 of the Commission's rules and with OET Bulletin #65, dated August 1997 ("Bulletin"), regarding human exposure to radio frequency radiation in the vicinity of broadcast towers. This study considers all nearby contributing stations and utilizes the appropriate formulas contained in the OET Bulletin.

At 1230 kHz, the proposed KRUZ STA's radiator is 54° in electrical height and will operate with a nominal maximum power of 0.02 kilowatt during daytime hours. Access to the radiator is installed at a minimum distance of 1.0 meter (6.3 feet) out from the base of the tower. As the station operates below 1340 kHz, the contributions for controlled and uncontrolled environments are the same. The KRUZ STA tower radiator will contribute 162.2 V/m (electric field) and 0.238 A/m (magnetic field). These values represent 26.4% of the maximum controlled/uncontrolled access electric limit of 614 V/m and 14.6% of the maximum controlled/uncontrolled magnetic limit of 1.63 A/m. Since the contribution for the electric limit in a controlled/uncontrolled environment is highest, it will be considered worst case.

As this level is below the limit defined by the Commission, the proposed KRUZ is believed to be in compliance with the radio frequency radiation exposure limits, as required by the Federal Communications Commission. Further, Cumulus will post warning signs in the vicinity of the towers warning of potential radio frequency radiation hazards at the site. In addition, Cumulus will reduce the power of the proposed facility or cease operation, in cooperation and coordination with other users, as necessary, to protect persons having access to the site, tower, or antenna from radio frequency radiation in excess of FCC guidelines.

**AFFIDAVIT AND QUALIFICATIONS OF CONSULTANT**

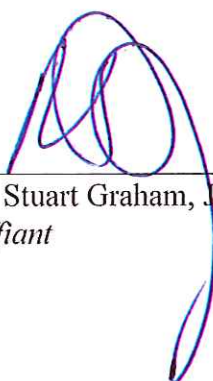
*State of Georgia )*  
*St. Simons Island ) ss:*  
*County of Glynn )*

**R. STUART GRAHAM**, being duly sworn, deposes and says that he is an officer of Graham Brock, Inc. Graham Brock has been engaged by Radio License Holding CBC, LLC to prepare the attached Technical Exhibit.


His qualifications are a matter of record before the Federal Communications Commission. He is a graduate of Auburn University and has been active in Broadcast Engineering since 1972.

The attached report was either prepared by him or under his direction and all material and exhibits attached hereto are believed to be true and correct.

*This the 7th day of March 2016.*

  
\_\_\_\_\_  
R. Stuart Graham, Jr.  
*Affiant*

*Sworn to and subscribed before me  
this the 7th day of March 2016*

  
\_\_\_\_\_  
Notary Public, State of Georgia  
My Commission Expires: March 12, 2019