

**KZUS(FM)**  
**Highwood, MT**  
Proposed Minor Modification  
Of Permitted Facility

**CONTINGENT Application Overview:**

The instant 301 Application is being contemporaneously and contingently filed with the co-owned facilities of KEAU(FM) Choteau, MT, and KUUS(FM) Fairfield, MT. In its application, KUUS(FM) proposes to change its community of license and channel from Channel 279C1 at Fairfield, MT, to mutually exclusive Channel 279C3 at the currently unserved community of Vaughn, MT, at a new allotment reference site. In the instant application, KZUS(FM) proposes to change its community of license from Belt, MT, to the currently unserved community of Highwood, MT, modify its allotment reference site coordinates, and remain on mutually exclusive Channel 269C1. KZUS(FM) and KUUS(FM) are both contingent on the contemporaneously proposed change for KEAU(FM). KZUS(FM) is contingent on KEAU(FM) as Channel 269C1 only becomes available at Highwood, MT, for KZUS(FM)'s use if KEAU(FM)'s vacates Channel 272C1 at Choteau and moves to Channel 274C1 at Fairfield. Similarly, KUUS(FM)'s proposal is also contingent on the KEAU(FM)'s proposal as KEAU(FM) will provide "backfill" service at KUUS(FM)'s current community – Fairfield, MT.

KZUS(FM) (FCC Facility ID# 164132) proposes to modify its currently Permitted Facilities and change its community of license from Belt, Montana, to Highwood, Montana, using the following parameters:

**Tech Box:**

Channel: 269

Class:	C1
Antenna Coordinates:	N47-36-24, W111-21-31 (NAD 27)
Allotment Ref. Coordinates:	N47-58-24, W111-02-30(NAD 27)
ASRN:	1051225
Tower Height AMSL:	244 m
COR AMSL:	1349 m
COR AGL:	185 m
COR HAAT:	260 m
ERP:	100 kW
Directional Antenna:	No

**Allotment Modifications:**

In order to change its community of license, the applicant is required to provide a mutually exclusive allotment reference site at its new community. Exhibit 1 is an allotment reference site channel spacings study for Channel 269C1 at Highwood, MT, demonstrating that the proposed facility is fully spaced pursuant to Section 73.207 towards all other authorizations, allotments, and proposals from the following location:

Allotment Reference Coordinates: N47-58-24, W111-02-30 (NAD 27)

**Allotment Site City-Grade Coverage:**

In accordance with the city grade coverage requirements of Section 73.315, Exhibit 2 demonstrates that the proposed allotment site provides requisite coverage of KZUS(FM)'s proposed community of license – Highwood, MT. As can be seen in the Exhibit, 100% of

Highwood's community boundaries are encompassed by the theoretical 70 dBu, circle contour. Also, no terrain obstructions are located between the antenna site and the community.

**Suitable Allotment Reference Site:**

In accordance with Note 1 to Section 73.3573, Exhibit 3 is a site map showing that the allotment reference site is located at a suitable location and is not offshore, in a national or state park, on an airport or otherwise in an area which would necessarily present a hazard to air navigation.

**Antenna Site City-Grade Coverage:**

Exhibit 4 demonstrates that the proposed facility's antenna site provides city grade coverage of KZUS(FM)'s community of license – Highwood, MT. As can be seen in the Exhibit, 100% of Highwood's community boundaries are encompassed by the F(50,50) 70 dBu contour of the proposed facility. Also, no major terrain obstructions are located between the antenna site and the community.

**Interference Study (Fully Spaced):**

Exhibit 5 is a channel spacings study demonstrating that the proposed antenna site is fully spaced towards all applications, authorizations, and permits pursuant to Section 73.207.

**Downward Radiation Study (Measure Upon Construction):**

Due to the fact that this tower accommodates multiple emitters, the Applicant agrees to conduct RFR measurements to demonstrate ANSI compliance prior to initiating operations and shall file the results of this study as part of its Form 302 Application for License.

Even though the site will fully comply with the Uncontrolled Site Standards, access to the transmitting site will be restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

**Existing Tower:**

The proposed facility is exempt from environmental processing because the facility is not located at a location specified in Section 1.1307(a)(1)-(8) of the Commission's Rules and since the tower in question already exists.

# **Exhibit 1**

## **Allotment Reference Site Channel Spacings Study**

KZUS(FM) 269C1 Highwood, MT  
 Section 73.207 Spacings Study

REFERENCE  
 47 58 24.0 N.  
 111 02 30.0 W.

CLASS = C1 Int = C1  
 Current Spacings

DISPLAY DATES  
 DATA 02-12-08  
 SEARCH 02-16-08

----- Channel 269 - 101.7 MHz -----

Call	Channel	Location		Azi	Dist	FCC	Margin
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KZUS	CP	269C1	Bel t	MT	178.5	90.51	244.5 -153.99
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Of Note:

Mutually Exclusive current authorization for KZUS at Bel t, MT.

KEAU	CP	272C1	Choteau	MT	253.5	59.12	81.5 -22.38
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Of Concern:

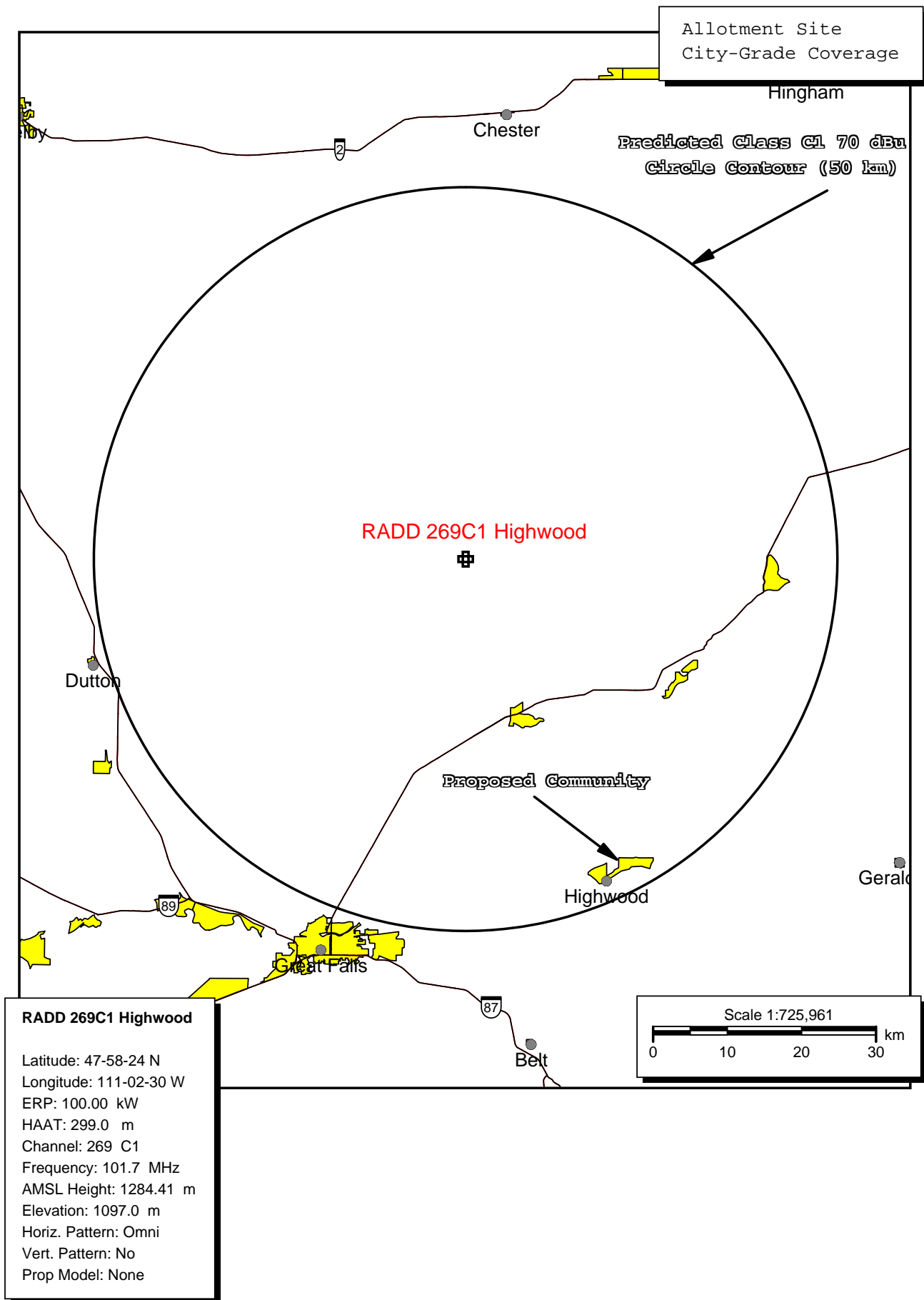
Applicant contingently proposes the deletion of Channel 272C1 at Choteau and the addition of mutually exclusive Channel 274C1 at Fairfield, MT. This community and channel change eliminates this shortspace.

NEW	OPE	268C1	Medicine Hat	AB	7.5	232.53	216.5 16.03
AL1023	AL	270B	Cardston	AB	310.2	215.28	194.5 20.78
AL8537		269C	Swift Current	SK	41.1	347.53	301.5 46.03
NEW	OPE	271C	Medicine Hat	AB	8.6	194.20	143.5 50.70
KRYK	LIC	267C1	Chinook	MT	69.6	137.80	81.5 56.30

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## **Exhibit 2**

### **Allotment Reference Site City-Grade Coverage Map**

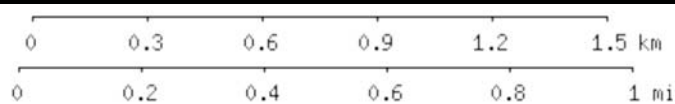




## **Exhibit 3**

### **Allotment Reference Site Topographic Map**

Allotment Site  
269C1 Highwood,  
Montana



47° 58' 24"N, 111° 02' 30"W (NAD27)  
**USGS Dent Bridge NE (MT) Quadrangle**  
Projection is UTM Zone 12 NAD83 Datum

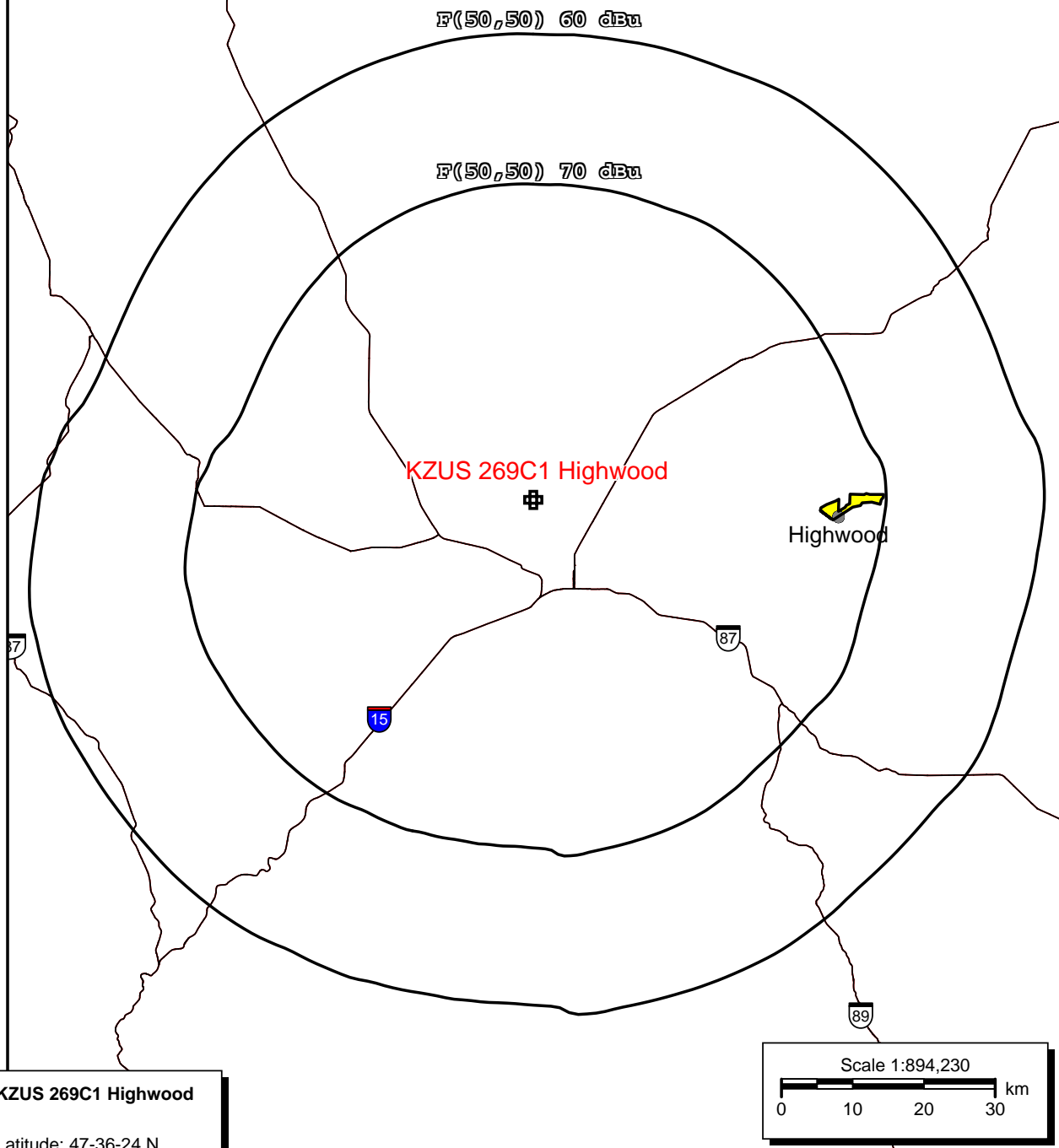
\* M  
G  
M=13.717  
G=-0.032

## **Exhibit 4**

### **Proposed Antenna Site Contour Map:**

**F(50,50) Protected Contour  
F(50,50) City-Grade Contour**

KZUS 269C1 Highwood, MT  
Antenna Site Contour Map



**KZUS 269C1 Highwood**

Latitude: 47-36-24 N  
Longitude: 111-21-31 W  
ERP: 100.00 kW  
HAAT: 260.06 m  
Channel: 269 C1  
Frequency: 101.7 MHz  
AMSL Height: 1349.0 m  
Elevation: 1164.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

# **Exhibit 5**

## **Proposed Antenna Site Channel Spacings Study**

KZUS(FM) 269C1 Highwood, MT  
Section 73.207 Spacings Study

REFERENCE  
47 36 24.0 N.  
111 21 31.0 W.

CLASS = C1 Int = C1  
Current Spacings

DISPLAY DATES  
DATA 02-12-08  
SEARCH 02-16-08

----- Channel 269 - 101.7 MHz -----

Call		Channel	Location		Azi	Dist	FCC	Margin
KZUS	CP	269C1	Bel t	MT	152.1	56.23	244.5	-188.27
Of No Concern: This is the former Community of License for KZUS(FM) which was changed in the Allotment Stage of the instant application.								
KEAU	CP	272C1	Choteau	MT	306.0	40.68	81.5	-40.82
Of No Concern: In the Allotment Stage, Channel 272C1 was deleted at Choteau and Channel 274C1 was added at Fairfield, MT, for KEAU's use.								
KZMT	LIC	266C	Hel ena	MT	217.9	120.58	104.5	16.08
KHFG-LP	LIC	270L1	Hel ena	MT	205.6	116.16	99.5	16.66
KHFG-LP	CP	270L1	Hel ena	MT	205.1	118.36	99.5	18.86
AL1023	AL	270B	Cardston	AB	321.8	228.10	194.5	33.60
KXGZ	LIC-N	268C1	Frenchtown	MT	246.6	217.30	176.5	40.80
AP2052	APP	216A	Augusta	MT	261.7	79.35	21.5	57.85

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