

Technical Certifications Exhibit

This minor modification of licensed facility complies with all engineering standards and assignment requirements specified in the applicable FCC rules and regulations. This application proposes a change from channel 215 to channel 214 due to displacement by KHAL (CP), channel 216C3, Craig, CO (Facility ID 767297).

K215BS complies with Section 74.1235(j) to continue operating with its currently licensed ERP of 0.051 kW, which does not comply with the ERP limitations of Section 74.1235(b), as K215BS was authorized prior to June 1, 1991 (original construction permit BPFT-19901214TD granted on February 28, 1991). There are no changes to the technical parameters of K215BS other than the channel change as indicated below:

	Licensed	Minor Mod of Licensed Facility
Channel / Class	215D	214D
ASRN	N/A	N/A
Geographical coordinates	40 33 49.8 107 36 43.2	40 33 49.8 107 36 43.2
Site elevation	2283.0 m	2283.0 m
Tower AGL	15.0 m	15.0 m
Antenna COR AGL	7.0 m	7.0 m
Antenna COR AMSL	2290.0 m	2290.0 m
HAAT	277.0 m	276.5 m
ERP	0.051 kW (H&V, DA)	0.051 kW (H&V, DA)
ANTENNA	SCALA CA5-FM/CP/RM/1	SCALA CA5-FM/CP/RM/1

FCC 30 second terrain data

Tabulation of HAAT / ERP / distance to 60 dBu contour

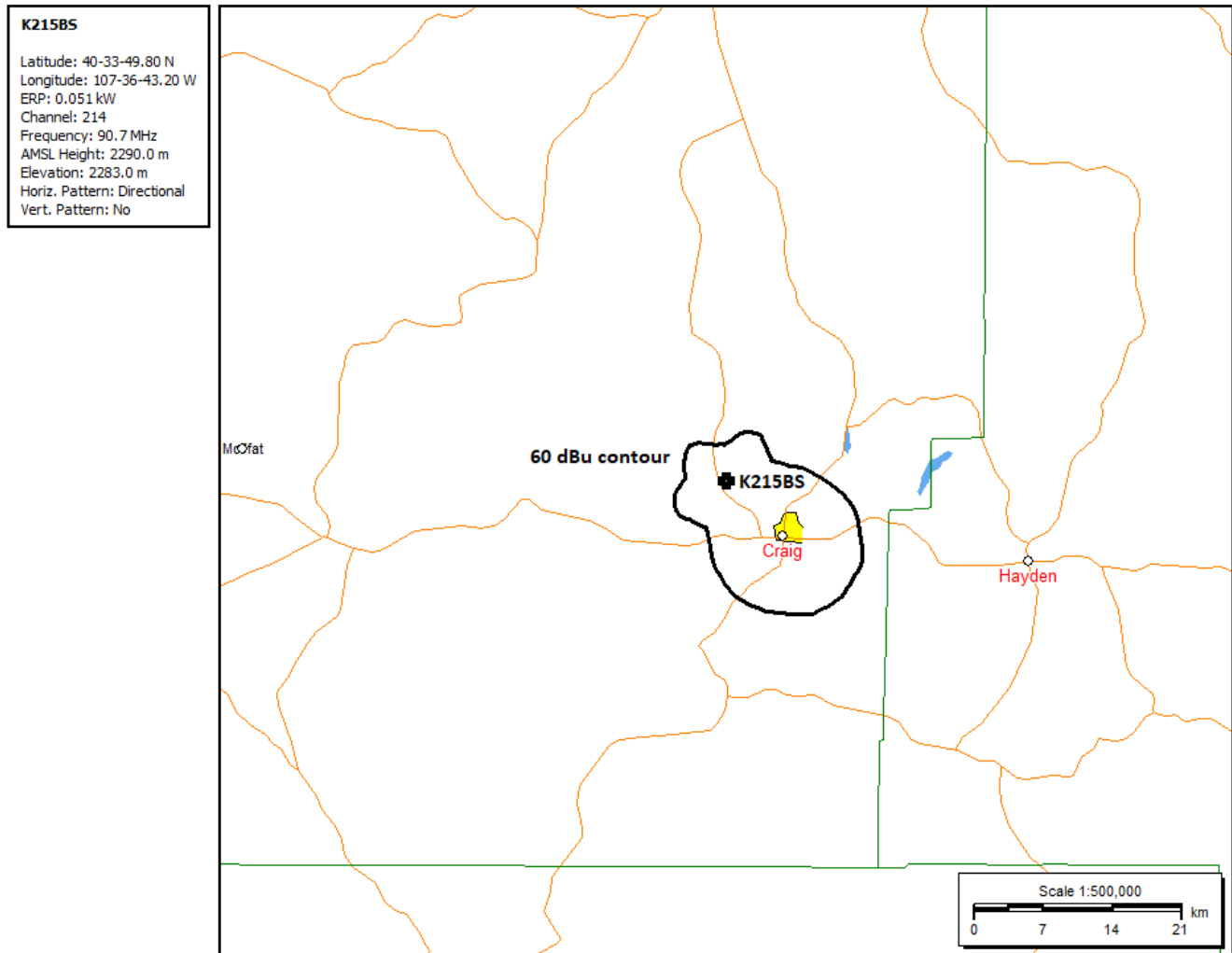
CH 214D 40 33 49.8 / 107 36 43.2 0.051 kW ERP (H&V, DA) 2290.0 m COR AMSL 276.5 m HAAT

Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	2113.1	176.9	0.0009	-30.51	0.132	3.94
010	2089.4	200.6	0.0012	-29.12	0.155	4.57
020	2058.0	232.0	0.0016	-27.87	0.179	5.31
030	2032.9	257.1	0.0017	-27.63	0.184	5.64
040	2011.7	278.3	0.0015	-28.37	0.169	5.52
050	1998.7	291.3	0.0011	-29.40	0.150	5.18
060	1981.0	309.0	0.0010	-30.13	0.138	4.97
070	1965.3	324.7	0.0013	-28.73	0.162	5.66
080	1963.5	326.5	0.0034	-24.66	0.259	7.75
090	1980.0	310.0	0.0093	-20.30	0.428	10.10
100	1958.7	331.3	0.0198	-17.03	0.623	12.59
110	1962.7	327.3	0.0320	-14.95	0.792	14.05
120	1941.6	348.4	0.0421	-13.75	0.909	15.53
130	1946.1	343.9	0.0486	-13.14	0.976	16.01
135	1943.9	346.1	0.0510	-12.92	1.000	16.27
140	1941.9	348.1	0.0486	-13.14	0.976	16.11
150	1948.0	342.0	0.0421	-13.75	0.909	15.39
160	1967.4	322.6	0.0320	-14.95	0.792	13.95
170	1967.0	323.0	0.0198	-17.03	0.623	12.43
180	1951.8	338.2	0.0093	-20.30	0.428	10.54
190	1921.2	368.8	0.0034	-24.66	0.259	8.16
200	1957.6	332.4	0.0013	-28.73	0.162	5.70
210	1958.6	331.4	0.0010	-30.13	0.138	5.08
220	1986.7	303.3	0.0011	-29.40	0.150	5.25
230	2002.1	287.9	0.0015	-28.37	0.169	5.60
240	2009.7	280.3	0.0017	-27.63	0.184	5.85
250	2026.3	263.7	0.0016	-27.87	0.179	5.60
260	2016.0	274.0	0.0012	-29.12	0.155	5.17
270	2031.8	258.2	0.0009	-30.51	0.132	4.51
280	2052.9	237.1	0.0008	-30.71	0.129	4.34
290	2065.8	224.2	0.0011	-29.52	0.148	4.64
300	2086.8	203.2	0.0015	-28.26	0.171	4.88
310	2082.5	207.5	0.0018	-27.44	0.188	5.22
320	2103.1	186.9	0.0018	-27.44	0.188	4.99
330	2127.3	162.7	0.0015	-28.26	0.171	4.44
340	2131.5	158.5	0.0011	-29.52	0.148	4.02
350	2116.5	173.5	0.0008	-30.71	0.129	3.86

FCC 30 second Terrain Data
(yellow highlighted values establish average HAAT)

60 dBu contour coverage map

The only change specified in this minor modification application is a change from channel 215 to channel 214. There will be no change to the 60 dBu contour coverage.



FCC 30 second terrain data

Interference Study

CH 214D 40 33 49.8 / 107 36 43.2 0.051 kW ERP (H&V, DA) 2290.0 m COR AMSL 276.5 m HAAT

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
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Reference station:

215D Craig	K215BS CO	LIC CO	0.0 0.0	0.00 BMLFT20170531AAB	40 33 49.80 107 36 43.20	0.051 277	2290	Educational Media Foundation		
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Co-channel, 1st, 2nd, & 3rd adjacent channel relationships:

211C2 Hayden	KHCO CO	LIC CO	99.5 280.0	73.98 0000203516	40 27 04.80 106 45 06.00	1.800 522	2.9 3140	60.0 Educational Media Foundation	56.8	13.5
211D New Castle	K211EQ CO	LIC CO	175.8 355.9	111.13 0000092822	39 33 56.20 107 31 00.70	0.075 1948	0.6 Educational Communications	5.2	96.9	105.6
213C0 Rock Springs	KUWZ WY	LIC WY	307.6 126.7	159.19 BLED20060213ADF	41 25 38.80 109 07 19.40	35.000 512	107.0 2680	72.7 University Of Wyoming	46.9	78.7
213C2 Carbondale	KVOV CO	LIC CO	170.7 350.9	128.79 BLED20040913AAA	39 25 07.90 107 22 12.10	0.450 775	64.1 3227	43.1 Public Broadcasting Of Col	50.4	66.6
214A Breckenridge	KMPB CO	LIC CO	130.9 311.9	179.77 BLED20130930BUD	39 29 43.90 106 01 46.00	0.600 -76	57.5 3246	17.3 Community Radio For Northern	106.7	98.9
215C0 Chugwater	KLWV WY	LIC WY	64.7 246.1	199.64 0000166073	41 18 35.90 105 27 18.90	100.000 329	128.8 2736	86.5 Educational Media Foundation	60.6	105.1
K216C3 Craig	KHAL CO	CP CO	8.9 188.9	0.18 0000167314	40 33 55.60 107 36 42.00	1.600 283	2.5 2297	38.6 Cheyenne Broadcasting Found	-6.8	-38.5
216D Meeker	K216BP CO	LIC CO	205.4 25.2	63.98 BLFT19900814TA	40 02 34.90 107 56 03.20	0.021 202	0.3 2290	3.8 Public Broadcasting Of Col	54.0	56.1
216D Steamboat Springs	K216FW CO	LIC CO	99.1 279.7	74.62 BLFT20050406ABV	40 27 15.90 106 44 36.10	0.010 534	0.2 3168	16.4 Mercer County Community Co	60.1	57.9
217C3 Gypsum	KLRY CO	LIC CO	143.2 323.7	109.20 BLED20051109AAM	39 46 30.00 106 50 47.10	0.110 859	0.7 3361	33.0 Educational Media Foundation	92.4	75.4

I.F. relationships:

N/A

Protection of CH 6 TV

Per Section 74.1205(a), NCE-FM translator stations operating on channel 214 must provide protection to TV Channel 6 broadcast stations located within a distance of 187 km. There are no TV Channel 6 broadcast stations within this distance, therefore K215BS as proposed is in full compliance with all provisions of Section 74.1205 with regard to Channel 6 TV protection.

 FCC 30 second terrain data

Interference Study

K215BS as proposed on channel 214 is located within the protected contour of the following facility:

KHAL (CP), CH 216C3, Craig, CO

KHAL signal strength at the K215BS site	123.8 dBu
K215BS interference contour	163.8 dBu
Distance to K215BS interference contour	0.3 meters

K215BS's antenna COR AGL height is 7.0 meters. With the interference contour extending out 0.3 meters, no interference will reach the ground with a clearance of 6.7 meters. There are no occupied structures at the site. Therefore, based on the showing of no population within the area of predicted interference a waiver of Section 74.1204(d) is respectfully requested.



Environmental Impact & RFR Compliance Statement

K215BS is located at an established communications site that is in compliance with all environmental impact requirements.

This minor modification application specifies a change in channel only, from channel 215 to channel 214. K215BS will continue to operate with 0.051 kW ERP (H&V) at an antenna COR AGL height of 7.0 meters. For a worse case estimation at 2 meters above ground level the RFR is no more than 68.2% of the general population/uncontrolled MPE limit. There are no other broadcast facilities on the tower.

The site has restricted access to only authorized personnel. The applicant certifies that in cooperation with other users of the site all authorized personnel will be protected from RFR exposure in excess of FCC guidelines while accessing any controlled exposure area, including the tower, by either reducing power or ceasing operations.