

TECHNICAL STATEMENT
K266AU WEST YELLOWSTONE, MT
TED W. AUSTIN
FCC FORM 349
AUGUST 2011

This Technical Statement is in support of FCC form 349 filed by Ted W. Austin for a minor change in the licensed facility of K266AU, facility ID 155904. It is proposing to relocate to an existing 13 meter overall height tower site near West Yellowstone, MT, and remain on channel 266 with 250 watts Effective Radiated Power.

Figure 1 shows a detailed channel interference study conducted from the proposed site for K266AU. It shows that the proposed operation of K266AU on channel 266D, will not cause any prohibited outgoing interference to any licensed or proposed FM services on pertinent same or adjacent channels.

Figure 2 shows that the proposed K266AU will 60 dB μ overlap with the currently licensed operation of K266AU.

It was concluded that the new proposed operation of K266AU West Yellowstone, MT on channel 266D will not cause any harmful interference to any existing stations, and will be in full compliance with the commission's rules.

FIGURE 1, DETAILED CHANNEL INTERFERENCE STUDY
K266AU WEST YELLOWSTONE, MT, CHANNEL 266D
Average Protected F(50-50)= 7.09 km
Omni-directional

REFERENCE		CH# 266D		- 101.1 MHz, Pwr= 0.25 kW, HAAT= -129.3 M, COR= 2059 M					DISPLAY DATES		
44 41 11.0 N.									DATA 08-26-11		
111 14 54.0 W.									SEARCH 08-26-11		
CH	CALL	TYPE	ANT	AZI	DIST	LAT	PWR (kW)	INT (km)	PRO (km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG	HAAT (M)	COR (M)	LICENSEE	(Overlap	in km)
266D	K266AU *	LIC _C_		104.4	11.8	44 39 36.0	0.250	24.1	7.1	-19.9*	-24.5 *
West Yellowstone		MT		284.5	BLFT20100423ABR	111 06 14.0		2035	Ted W. Austin		
265C2	AL4351	VAC ____		272.2	113.3	44 42 58.0	50.000	74.7	48.5	31.9	50.7
Lima		MT		91.2	RM11364	112 40 40.0	150	2174	Sand Hill Media Corp & Gro		
267D	K267BE	CP DC_		346.6	67.6	45 16 41.0	0.030	2.3	1.2	58.3	45.6
Big Sky		MT		166.4	BNPFT20030829AKD	111 26 57.0	1004	3398	Hi-line Radio Fellowship,		
266C	KZMT	LIC _C_		340.3	244.1	46 44 51.8	95.000	189.2	85.7	48.0	131.4
Helena		MT		159.5	BLH20041122ACA	112 19 47.6	607	2278	Ccr-helena Iv, Llc		
266C2	R14314	DEL ____		93.0	193.2	44 34 13.0	50.000	134.6	49.2	49.8	116.2
Cody		WY		274.7		108 49 09.0	150	1685	Lovecom, Inc		
266C2	KROW	LIC _CX		93.0	193.2	44 34 13.0	5.400	124.3	50.9	60.1	114.5
Cody		WY		274.7	BLH20100212ABI	108 49 09.0	427	1965	White Park Broadcasting, I		
264C1	KXLB	LIC _C_		15.1	113.7	45 40 24.0	100.000	11.8	48.1	97.7	64.5
Livingston		MT		195.4	BLH20000906AHE	110 52 02.0	248	2097	Townsquare Media Bozeman L		
264C1	KSNA	LIC _CX		202.5	160.3	43 21 06.0	100.000	10.8	74.8	142.5	84.4
Idaho Falls		ID		22.0	BLH20110330ACH	112 00 29.0	193	1789	Sandhill Media Group, Llc		
268C	KCVI	LIC _C_		221.1	173.7	43 30 03.0	100.000	11.8	79.8	154.9	92.8
Blackfoot		ID		40.1	BMLH20030825ANH	112 39 43.0	461	2030	Riverbend Communications,		
268D	K268AS	LIC _V_		18.4	118.5	45 41 49.0	0.010	0.2	10.4	111.2	107.0
Bozeman		MT		198.7	BLFT20061218ACH	110 46 03.0	385	2218	Calvary Chapel Of Twin Fal		
267C1	KPIN	CP _CX		153.5	201.6	43 03 30.0	100.000	83.5	53.5	111.3	130.6
Pinedale		WY		334.3	BPH20100204ACY	110 08 32.0	174	2524	Robert R. Rule D/b/a Rule		
212C2	KUWJ	LIC _CN		163.6	141.8	43 27 40.0	3.000	60.5	52.0	15.0R	126.8M
Jackson		WY		344.0	BLED19921207KC	110 45 09.0	337	2489	University Of Wyoming		
213A	KAIO	LIC _VX		202.0	136.8	43 32 37.0	0.500	24.0	22.6	10.0R	126.8M
Idaho Falls		ID		21.6	BLED20060927AMH	111 53 07.0	161	1708	Educational Media Foundati		
213C1	KBWY	CP _VX		68.7	160.7	45 11 40.0	37.000	26.3	24.8	22.0R	138.7M
Pryor		MT		250.0	BNPED20071018ALX	109 20 30.0	362	2418	Better Public Broadcasting		
269A	NEW	CP _CX		332.6	148.0	45 51 50.0	0.150	0.9	6.2	140.0	140.6
Whitehall		MT		152.0	BNPH20110629AAJ	112 07 41.0	-118	1386	Lopester Broadcasting		
266C3	KPIN	LIC _CX		152.1	230.8	42 50 39.0	4.000	83.4	27.8	140.4	178.8
Pinedale		WY		333.0	BLH20070727AHF	109 55 23.0	145	2358	Robert R. Rule D/b/a Rule		
213C2	KJLF	LIC _VX		328.0	174.0	46 00 22.0	1.000	43.5	38.9	15.0R	159.0M
Butte		MT		147.1	BLED20080211ADA	112 26 33.0	530	2493	Hi-line Radio Fellowship,		
212C1	KZJB	CP DEX		207.1	226.9	42 51 46.0	26.500	43.8	39.1	22.0R	204.9M
Pocatello		ID		26.2	BPED20080917AAC	112 31 03.0	325	1842	Calvary Chapel Of Idaho Fa		
266L1	KFWH-LP	LIC ____		59.3	246.5	45 46 59.0	0.100	18.6	5.6	217.8	207.8
Billings		MT		241.3	BLL20090504AAR	108 31 13.0		971	Best Of Billings Schools A		
264D	KSNA-FM1	CP DC_		205.6	225.8	42 50 55.0	2.200	1.6	12.3	217.1	212.4
Pocatello		ID		24.8	BMPFTB20110330ACI	112 26 45.0		1443	Sandhill Media Group, Llc		
212C3	KZJB	LIC _VX		207.1	226.9	42 51 46.0	0.910	42.6	38.2	12.0R	214.9M
Pocatello		ID		26.2	BLED20050727ACZ	112 31 03.0	314	1842	Calvary Chapel Of Idaho Fa		
269C1	KDNO	LIC NC_		116.9	295.4	43 26 18.0	16.500	6.7	62.5	281.5	231.8
Thermopolis		WY		299.2	BLH20011030AAI	107 59 37.0	580	2500	Carjim, Llc		
267A	1428637	APP ____		102.1	311.5	44 02 08.0	6.000	59.3	39.9	244.2	260.4
Ten Sleep		WY		284.8	BSFH20110208AED	107 26 50.0	100	1619	Lovcom, Inc.		
267A	AU9112731	VAC ____		102.1	311.5	44 02 08.0	6.000	59.3	39.9	244.2	260.4
Ten Sleep		WY		284.8	RM11506	107 26 50.0	100	1619	Legend Comm. Of Wyoming, L		

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= West Zone, Co to 3rd adjacent.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
**affixed to 'IN' or 'OUT' values = site inside protected contour.

* Translator being modified by this application.

FIGURE 2, PRESENT AND PROPOSED 60 DBU CONTOURS
K266AU WEST YELLOWSTONE, MT, CHANNEL 266D

Coverage Study - NGDC 30 SEC
08-26-2011

