

Klein Broadcast Engineering, L.L.C.

Job: KTUN DA MOD with KSMT.fmj

Master Database: FCC CDBS 2005\_MAR\_21W.fmd

Lat: N39:44:18 Lon: W106:47:58 NAD-27

Channel: 269 Class: C1

Status: Licensed, Construction Permit, Application, Addition, Vacant/Reserved

Channels: Co-Channel, 1st Adj, 2nd Adj, 3rd Adj, IF, TV6

Range: 100 km

Comments: No Comments

Description: EXHIBIT E-1 FCC FM CHANNEL SPACING STUDY

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Page 1 of 2

Date: 3/21/2005

Callsign	Latitude (NAD27)	Longitude (NAD27)	City	State	Servi	Channel	Class	ERP	HAAT	Status	73 207 Min	73 207 Clear	73 215 Min	73 215 Clear	Adjacency	Distance	Bearing
KTUN	N39:44:18	W106:47:58	EAGLE	CO	FM	269 : 101.7 MHz	C1	11.80	674	CP	245	-245.00	224	-224.00	Co-Chan	0.00	000
STAT:ADD	N39:45:15	W106:54:13	EAGLE	CO	FM	269 : 101.7 MHz	C1	0.00	0	ADD	245	-235.90	224	-214.90	Co-Chan	9.10	281
KTUN	N39:44:18	W106:47:58	EAGLE	CO	FM	268 : 101.5 MHz	C	36.00	674	LIC	209	-209.00	188	-188.00	1st Adj	0.00	000
*KKCS-FM	N38:44:43	W104:51:41	COLORADO S	CO	FM	270 : 101.9 MHz	C	72.00	695	LIC	209	-8.62	188	12.38	1st Adj	200.38	123
STAT:ADD	N39:25:52	W106:06:17	BRECKENRID	CO	FM	272 : 102.3 MHz	A	0.00	0	ADD	75	-6.25	69	-0.25	3rd Adj	68.75	120
KSMT	N39:29:44	W106:01:44	BRECKENRID	CO	FM	272 : 102.3 MHz	A	3.00	-70	LIC	75	-3.55	69	2.45	3rd Adj	71.45	112
KSMT	N39:29:44	W106:01:44	BRECKENRID	CO	FM	272 : 102.3 MHz	A	6.00	-70	APP	75	-3.55	69	2.45	3rd Adj	71.45	112
K272AF	N39:44:00	W106:48:00	EAGLE	CO	FM	272 : 102.3 MHz	DX	0.01	501	LIC	0	0.56	0	0.56	3rd Adj	0.56	185
STAT:VAC	N38:36:18	W107:58:54	OLATHE	CO	FM	270 : 101.9 MHz	C2	0.00	0	VAC	158	4.08	144	18.08	1st Adj	162.08	219
STAT:ADD	N38:36:25	W108:09:47	OLATHE	CO	FM	270 : 101.9 MHz	C2	0.00	0	ADD	158	14.23	144	28.23	1st Adj	172.23	223
**KKCS-FM	N39:08:11	W104:55:34	COLORADO S	CO	FM	270 : 101.9 MHz	C2	50.00	150	CP	158	16.58	144	30.58	1st Adj	174.58	113
K266AM	N39:39:51	W107:00:22	GYPSUM	CO	FM	266 : 101.1 MHz	DX	0.01	0	CP	0	19.54	0	19.54	3rd Adj	19.54	245
KOSI	N39:43:45	W105:14:06	DENVER	CO	FM	266 : 101.1 MHz	C	74.00	495	LIC	105	29.12	99	35.12	3rd Adj	134.12	090
K215BV	N39:36:58	W106:26:57	VAIL, ETC.	CO	FM	215 : 90.9 MHz	DX	0.25	-184	LIC	0	32.98	0	32.98	IF	32.98	114
KBRU-FM	N39:55:22	W103:58:18	FORT MORG	CO	FM	268 : 101.5 MHz	C	92.00	621	CP	209	33.95	188	54.95	1st Adj	242.95	085
K215BV	N39:36:17	W106:21:33	VAIL, ETC.	CO	FM	215 : 90.9 MHz	DX	0.01	0	APP	0	40.59	0	40.59	IF	40.59	111
STAT:ADD	N39:51:39	W103:51:44	STRASBURG	CO	FM	268 : 101.5 MHz	C	0.00	0	ADD	209	42.94	188	63.94	1st Adj	251.94	087
K215BC	N39:21:12	W106:41:00	THOMASVILLE	CO	FM	215 : 90.9 MHz	DX	0.02	-431	LIC	0	43.89	0	43.89	IF	43.89	167
KXDC	N40:15:56	W105:33:37	ESTES PARK	CO	FM	271 : 102.1 MHz	C3	10.00	156	CP	76	44.94	70	50.94	2nd Adj	120.94	061
KXDC	N40:17:34	W105:33:05	ESTES PARK	CO	FM	271 : 102.1 MHz	C3	25.00	52	LIC	76	47.07	70	53.07	2nd Adj	123.07	060
K272AI	N39:33:48	W107:18:59	GLENWOOD S	CO	FM	272 : 102.3 MHz	DX	0.01	-220	LIC	0	48.44	0	48.44	3rd Adj	48.44	246
KTUN-1	N39:33:40	W107:19:00	GLENWOOD S	CO	FM	269 : 101.7 MHz	DB	0.60	0	APP	0	48.56	0	48.56	Co-Chan	48.56	246
K272AM	N39:21:10	W107:06:06	BASALT	CO	FM	272 : 102.3 MHz	DX	0.00	0	LIC	0	50.07	0	50.07	3rd Adj	50.07	211
K216ES	N39:31:58	W107:20:30	CARDIFF	CO	FM	216 : 91.1 MHz	DX	0.01	-22	LIC	0	51.84	0	51.84	IF	51.84	244
NEW	N40:14:10	W106:52:30	OAK CREEK	CO	FM	266 : 101.1 MHz	DX	0.01	0	APP	0	55.64	0	55.64	3rd Adj	55.64	353
KVLE-FM	N38:33:53	W106:55:38	GUNNISON	CO	FM	272 : 102.3 MHz	A	3.00	-140	LIC	75	55.76	69	61.76	3rd Adj	130.76	185
K266AK	N39:13:33	W106:50:00	ASPEN	CO	FM	266 : 101.1 MHz	DX	0.05	0	CP	0	56.97	0	56.97	3rd Adj	56.97	183
K269DS	N39:13:16	W106:48:47	ASPEN	CO	FM	269 : 101.7 MHz	DX	0.02	261	LIC	0	57.44	0	57.44	Co-Chan	57.44	181
K216BF	N39:13:16	W106:48:47	ASPEN	CO	FM	216 : 91.1 MHz	DX	0.02	258	LIC	0	57.44	0	57.44	IF	57.44	181
K269DS	N39:13:15	W106:48:47	ASPEN	CO	FM	268 : 101.5 MHz	DX	0.02	0	CP	0	57.47	0	57.47	1st Adj	57.47	181
KBRU-FM	N40:15:31	W103:51:07	FORT MORG	CO	FM	269 : 101.7 MHz	A	3.00	41	LIC	200	58.27	178	80.27	Co-Chan	258.27	077
K215AC	N39:13:08	W106:54:33	SNOWMASS V	CO	FM	215 : 90.9 MHz	DX	0.02	0	LIC	0	58.44	0	58.44	IF	58.44	189
NEW	N39:55:21	W108:37:31	DINOSAUR	CO	FM	266 : 101.1 MHz	C0	0.00	0	RSV	94	63.64	88	69.64	3rd Adj	157.64	277
NEW	N39:55:21	W108:37:31	DINOSAUR	CO	FM	266 : 101.1 MHz	C0	43.00	602	APP	94	63.64	88	69.64	3rd Adj	157.64	277
K215BZ	N39:36:50	W106:04:02	DILLON	CO	FM	215 : 90.9 MHz	DX	0.08	0	LIC	0	64.33	0	64.33	IF	64.33	102
K215BD	N39:14:20	W107:13:02	REDSTONE	CO	FM	215 : 90.9 MHz	DX	0.01	0	APP	0	66.08	0	66.08	IF	66.08	213
K272DB	N39:14:19	W107:13:01	REDSTONE	CO	FM	272 : 102.3 MHz	DX	0.01	0	LIC	0	66.09	0	66.09	3rd Adj	66.09	213
K215BD	N39:14:18	W107:13:28	REDSTONE	CO	FM	215 : 90.9 MHz	DX	0.02	-238	LIC	0	66.47	0	66.47	IF	66.47	213
STAT:ADD	N38:32:05	W107:30:27	CRAWFORD	CO	FM	272 : 102.3 MHz	C2	0.00	0	ADD	79	67.98	73	73.98	3rd Adj	146.98	205
KIGN	N41:07:01	W104:40:07	BURNS	WY	FM	270 : 101.9 MHz	C2	50.00	150	LIC	158	78.93	144	92.93	1st Adj	236.93	050
K272DE	N40:27:13	W106:50:25	STEAMBOAT S	CO	FM	272 : 102.3 MHz	DX	0.05	152	LIC	0	79.50	0	79.50	3rd Adj	79.50	357
K219DA	N40:27:16	W106:44:34	STEAMBOAT S	CO	FM	216 : 91.1 MHz	DX	0.01	0	CP	0	79.66	0	79.66	IF	79.66	003
K270AL	N40:02:24	W105:56:11	GRANBY	CO	FM	270 : 101.9 MHz	DX	0.01	0	CP	0	81.07	0	81.07	1st Adj	81.07	066
K272DL	N39:30:41	W107:46:55	RIFLE	CO	FM	272 : 102.3 MHz	DX	0.00	30	LIC	0	88.04	0	88.04	3rd Adj	88.04	253
KBRU-FM	N39:57:47	W103:38:58	FORT MORG	CO	FM	268 : 101.5 MHz	C1	100.00	299	APP	177	93.75	158	112.75	1st Adj	270.75	085

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NEW	N38:54:07	W106:58:26	CRESTED BUT	CO	FM	270 : 101.9 MHz DX	0.04	0	0	APP	0	94.07	0	94.07	1st Adj	94.07	189
NEW	N38:54:07	W106:58:26	CRESTED BUT	CO	FM	270 : 101.9 MHz DX	0.04	0	0	APP	0	94.07	0	94.07	1st Adj	94.07	189
KSBP-LP	N39:23:27	W107:48:48	PARACHUTE	CO	FM	266 : 101.1 MHz L1	0.00	-596	LIC	0	95.29	0	95.29	3rd Adj	95.29	246	
KLDV	N39:36:00	W105:12:35	MORRISON	CO	FM	216 : 91.1 MHz C	100.00	356	LIC	41	96.28	0	137.28	IF	137.28	096	
NEW	N40:31:16	W107:17:46	CRAIG	CO	FM	266 : 101.1 MHz DX	0.04	0	0	APP	0	96.68	0	96.68	3rd Adj	96.68	334
NEW	N40:31:16	W107:17:46	CRAIG	CO	FM	270 : 101.9 MHz DX	0.04	0	0	APP	0	96.68	0	96.68	1st Adj	96.68	334
STAT:ADD	N39:37:32	W104:47:47	GREENWOOD	CO	FM	272 : 102.3 MHz A	0.00	0	0	ADD	75	97.31	69	103.31	3rd Adj	172.31	094
KVNF	N38:52:20	W107:39:45	PAONIA	CO	FM	215 : 90.9 MHz A	3.00	-52	LIC	22	99.60	0	121.60	IF	121.60	218	

\* Station KKCS is not afforded Class C protection as Station KKCS has been downgraded to Class C2. A license application has been filed to license KKCS as a Class C2 Station. As a Class C2 station KKCS is fully spaced to the facility of KTUN. (see FCC File Number: BLH-20050128ALV) In KKCS FCC Construction Permit File Number BPH-20040106ABD, the Commission has downgraded KKCS to a Class C2 station and has deleted the KKCS Class C channel at Colorado Springs, Colorado.

\*\* Station KKCS as a Class C2 station is fully spaced to the facility of KTUN under 47 CFR Section 73.207 of the Rules and Regulations of the Federal Communications Commission.