

SIERRA GRANDE BROADCASTING
PO BOX 51
DES MOINES, NEW MEXICO 88418-0051

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October 1, 2001

Petition for rule making

I hereby request the 47 CFR 73.202(b) *Table of FM Allotments* be amended as

follows:

As reads:	Battle Mountain, Nevada	253A
	Fallon, Nevada	257A, 267C2, 281C
	Moab, Utah	246C1
Change to:	Elkhart, Kansas	263C1
	Austin, Nevada	227C
	Baker, Nevada	296C
	Battle Mountain, Nevada	231C, 253A
	Eureka, Nevada	300C
	Fallon, Nevada	257A, 267C2, 281C, 297C
	Cimarron, New Mexico	236C2
	Moab, Utah	234C, 246C1
	Salina, Utah	276C

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List A B C D E MMB

Elkhart is the county seat of Morton County, Kansas. This would be the first aural signal for the county. Elkhart is the headquarters for the Cimarron National Grassland. It has its own school district, water system, airport, a minor league baseball team, several gas

stations, many restaurants, and other businesses. There are several churches. The downtown business district is to the northwest of US Highway 56. The railroad passes next to all three, large grain elevators. The railroad is a service loop from Dodge City, Kansas to La Junta, Colorado, where it connects to the Santa Fe Railroad at both ends.

KOMX Pampa, Texas 262C2 is the only station that will affect the proposed Elkhart 263C1 allocation from upgrading to a possible Class 263C allocation. KOMX is blocked in. They have KBZD, Amarillo, Texas 259C3 (94.3 km) and KNNK, Dimmitt, Texas 263C2 (168.0 km) to the west-southwest, and KWFX, Woodward, Oklahoma 261C1 (158.7 km) to the east-northeast. They may maximize their Class C2 facilities at their present location, or move their maximized Class C2 transmitter site to between Panhandle and White Deer to include Amarillo and Borger within their coverage area.

The proposed Cimarron allocation will probably be short-spaced with KSYU, if I can get the transmitter site I would like to have on Philmont Scout Ranch. The site that I am looking at is 214.8 km from the KSYU transmitter site. 47 CFR 73.215(e) states that you will not consider it if there is less than 211 km between the sites. The Sangre de Cristo Mountain Range is a physical barrier between the KSYU transmitter site and the transmitter site that I am considering. KSYU with 100 kW @ 132 m HAAT has a 60 dB μ (F(50,50)) of approximately 56 km. A Class C2 of 50 kW @ 150 m HAAT has a 40 dB μ (F(50,10)) of approximately 148 km. The sum of 204 km is less than the 214 km between the sites. KSYU will not be getting closer to be me because it is already 82 km from KHFM. This site will allow me to service the Boy Scouts and the large recreational lake near Eagle Nest during the summer, and the ski resorts during the winter. With KKIT, Angel Fire

260C2, and the petitioner for Questa 279C1 plan to build on Wheeler Peak, I will be the third FM allocation in the area. KTAO, Taos 270C1, should also put a signal into the area.

If the Boy Scouts do not allow me to build the site on their land, I will build the transmitter site to the south of Cimarron so that I may also cover the communities of Springer, Maxwell, and Wagon Mound. While Cimarron and Wagon Mound will be outside of the protected service area of my Des Moines, New Mexico allocation, Maxwell will be receiving a city grade signal from the Des Moines station, and Springer is within the protected service area.

With K236AK, Eagle Nest, being located on Baldy Mountain, it will have to cease operations regardless of where I put the transmitter site. Just like K291AD, in Des Moines, it is a wide area translator.

I am requesting the second commercial allocation for Moab, Utah. I am planning on putting the transmitter site in the Book Cliffs to the north of Interstate Highway 70. This site will be close to 241 km from the KZHT transmitter site. This site will allow me to cover from northeast, clockwise, to west. I will be able to provide coverage, along Interstate Highway 70, from about Grand Junction, Colorado to the San Rafael Reef. I will be about 775 m above most of this terrain. From west, clockwise, to northeast, the terrain is relative level with the transmitter site. The average of the eight, eyeball, radials is about 485 m. To avoid being a Class C0 station, I have to have at least the equivalent of 100 kW @ 451 m HAAT or greater. Even if the transmitter site is Class C0, I will still put a city grade signal over the City of Moab, and it will be easier to met the separation requirement with KZHT The transmitter site will have a RCAMSL of about 2300 m, and Moab is about 1525 m

elevation. Since I am on a cliff, the terrain toward Moab, drops just south to the transmitter site. Just looking at 100 kW @ 775 m, the city grade signal is about 75 km from the transmitter site. The site is close enough to Moab to put a city grade signal over the entire city of Moab.

I would like to say that the information for my engineering spreadsheet came from the FCC Internet database. When I was asking for data for my Salina, Utah engineering spreadsheet, 20000698AEK from Bishop, California came up with the coordinate of $37^{\circ} 22' 1''$ N $112^{\circ} 24' 6''$ W. When I asked for a regional map to be drawn, the coordinate was southeast of Alton, Utah. Looking at the coordinates for all the other Bishop radio stations, the 112° probably should be 118° .

The plans for the Salina station is to build the transmitter site on Mount Terrell, southeast of Salina, in the Fishlake National Forest. This would put a city grade signal over Salina and also cover a large portion of US Highway 50 to the east.

Baker, Nevada is not listed in the National Atlas that I looked in. The community of south of US Highway 50. I have only been in the community once. The community may be a community created to serve the federal government interests in the area. The community had its own school district, a business district and many houses. I saw many green, Department of Interior vehicles. I assume the vehicles are there for Humboldt National Forest, Great Basin National Park, or Lehman Caves National Monument. There is a regional power generation plant there. I think that the name of the power plant is Wheeler Peak Power. Wheeler Peak is listed in the National Atlas. I will build my transmitter site on Wheeler Peak in the Humboldt National Forest. They could run four wires from the power

plant directly to the peak, or I could build a combination of solar and wind generated power to power the site. While Wheeler Peak overlooks everything in the region, I do not know if the Class C FM signal will get into Ely, Nevada, or Delta, Utah due to the north-south mountain ranges to the west and east of Wheeler Peak.

I am requesting a second audio service for Battle Mountain. It is my intention to put the transmitter site on North Peak, Battle Mountain. North Peak is 112 km from the Elko, KLKO transmitter site. I lose the Elko FM stations when I pass through the tunnel at Carlin. The Winnemucca, K232BK transmitter site is only 64 km from where I plan to build the transmitter site. This would be well within my protected contour of 92 km. It would have to cease operations or move to another frequency. Battle Mountain and Winnemucca will be the major communities within the coverage area of this allocation.

Eureka, Nevada is the county seat for Eureka County, Nevada. There is an airport north of Eureka. Going down US Highway 50 there are at least two gas stations, many casinos, restaurants, an auto parts store, a convenience store, the county sheriff's office and jail. There have their own school district. South (east) bound on US Highway 50, the city has playing fields, a rest area, and there is a recreation vehicle park. As I travel north out of the city, I see what looks like coal, just laying on the ground, off in the direction of the airport. My proposed transmitter site would be Roberts Creek Mountain northwest of Eureka. From that site, Whistler Mountain might cause a shadow over the city of Eureka. Roberts Creek summit is 3,088 m, Whistler Mountain summit is 2,483 m, and Eureka is approximately 2,000 m.

My engineering spreadsheet for Eureka may look blank, but it is complete. The

closest station is K299AF at Bridgeport, California.

I am requesting the fifth audio service for Fallon. It is my intention to build this station on Fairview Peak to the east of Fallon Naval Air Station bombing range. The site already has an access road and electrical power, for the radio equipment already on the summit. This site would allow the Alturas, California group about 30 km more to move around in for their transmitter site. This site is 64.5 km from the KVLV-FM transmitter site. While I know that there a lot of business and residential area west of Fallon, the maps show that KVLV-FM is northwest of Fallon. A full power Class C FM station has a 70 dB μ contour of about 68 km. This should put a city grade signal over the entire city of Fallon.

Austin, Nevada has a police department, a fire department, two service stations, several restaurants, a sports complex, and several casinos. The sign on the west end of town states that they have a Boy Scout unit and a few churches. I will probably build this transmitter site south of Austin.

To the best of my knowledge the information in this petition for rule making is correct. I will submit an application for construction permit for the allocations approved.

Willison H. Gormly

Sierra Grande Broadcasting

Elkhart, Kansas

263C1 FM allocation

City of License	Call Sign	Channel	Class	Latitude				Middle latitude			Longitude			
				Degrees	Minutes	Seconds	Decimal	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
<u>Co-channel</u>														
Elkhart, Kansas	Proposed station	263	C1	37	0	18	37.005	37.005	0.6459	101	53	48	101.9	
Dodge City, Kansas	20000828AAE	263	L1	37	45	19	37.7553	37.3801	0.6524	100	0	59	100.02	
Dimmitt, Texas	KNNK	263	C2	34	44	49	34.7469	35.876	0.6262	102	29	37	102.49	
<u>First adjacent channel</u>														
Colby, Kansas	KQLS	262	C1	39	28	50	39.4806	38.2428	0.6675	100	54	34	100.91	
Pampa, Texas	KOMX	262	C2	35	34	39	35.5775	36.2913	0.6334	100	57	8	100.95	
Pueblo, Colorado	KGFT	264	C	38	44	44	38.7456	37.8753	0.661	104	51	39	104.86	
<u>Second adjacent channel</u>														
Dodge City, Kansas	20000830AAG	261	L1	37	47	2	37.7839	37.3944	0.6527	100	2	50	100.05	
Woodward, Oklahoma	KWFX	261	C1	36	20	40	36.3444	36.6747	0.6401	99	28	0	99.467	
Amarillo, Texas	KPQZ	265	C1	35	18	4	35.3011	36.1531	0.631	101	51	21	101.86	
<u>Third adjacent channel</u>														
Leoti, Kansas	KSKZ	260	C1	38	16	39	38.2775	37.6413	0.657	101	17	50	101.3	
Woodward, Oklahoma	KWOX	266	C0	36	26	6	36.435	36.72	0.6409	99	26	56	99.449	
<u>Image channel</u>														
Amarillo, Texas	KACV-FM	210	C0	35	20	33	35.3425	36.1738	0.6314	101	49	21	101.82	

Sierra Grande Broadcasting

Elkhart, Kansas

263C1 FM allocation

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required seperation km	Direction Degrees	Remarks
Proposed station	110.97514	89.00801	0	0	0			
20000828AAE	110.98226	88.56878	83.26752	166.53391	186	111	68.25	
KNNK	110.95388	90.3068	250.54003	53.90814	256	224	194.81	
KQLS	110.99874	87.54432	274.78355	86.4257	288	177	21.74	
KOMX	110.96167	89.83314	158.39778	84.84241	180	158	146.51	
KGFT	110.99171	87.9832	193.18724	260.79687	325	220	300.42	
20000830AAG	110.98254	88.55195	86.44307	163.77191	185	73	67.16	
KWFX	110.96889	89.39156	73.30112	217.22149	229	94	105.21	
KPQZ	110.95907	89.99129	189.06193	3.67464	189	94	178.63	
KSKZ	110.98724	88.2608	141.23126	52.90745	151	94	25.22	
KWOX	110.96975	89.33916	63.25276	218.68241	228	96	103.11	
KACV-FM	110.95946	89.96764	184.4701	6.6726	185	41	177.45	

Sierra Grande Broadcasting Austin, Nevada 227C FM Allocation

City of License	State	Call Sign	Channel	Class	Latitude				Middle latitude			Longitude			
					Degrees	Minutes	Seconds	Decimal	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
<i><u>Co-Channel</u></i>															
Austin	Nevada	Proposed station	227	C	39	29	36	39.493	39.4933	0.6893	117	4	12	117.07	
Big Pine	California	KRHV	227	B	36	58	39	36.978	38.2354	0.6673	118	7	13	118.12	
<i><u>First Adjacent Channels</u></i>															
<i><u>Second Adjacent Channels</u></i>															
Reno	Nevada	KNHK	225	C	39	42	36	39.71	39.6017	0.6912	119	39	31	119.66	
Elko	Nevada	KLKO	229	C2	40	55	20	40.922	40.2078	0.7018	115	50	56	115.85	
Sun Valley	Nevada	KWYL	229	A	39	35	2	39.584	39.5386	0.6901	119	47	54	119.8	
<i><u>Third Adjacent Channels</u></i>															
Ely	Nevada	KDSS	224	C2	39	14	46	39.246	39.3697	0.6871	114	55	39	114.93	
Tonopah	Nevada	KHWK	224	A	38	4	22	38.073	38.7831	0.6769	117	13	16	117.22	
Winnemucca	Nevada	KWNA-FM	224	C3	41	0	40	41.011	40.2522	0.7025	117	45	59	117.77	
South Lake Tahoe	California	KRLT	230	A	38	57	38	38.961	39.2269	0.6846	119	56	32	119.94	
<i><u>Image Channels</u></i>															
Fallon	Nevada	VACANT	281	C	39	28	30	39.475	39.4842	0.6891	118	40	43	118.68	

**Sierra Grande Broadcasting
Austin, Nevada
227C FM Allocation**

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required separation km	Direction degrees	Remarks
Proposed station KRHV	111.02284 110.9986	86.02387 87.55314	0 279.25398	0 91.95512	0 294	274	202.66	
KNHK	111.02494	85.89021	24.0554	222.33635	224	105	274.78	
KLKO	111.03671	85.13672	158.65912	103.96139	190	105	40.52	
KWYL	111.02372	85.96804	10.05381	234.54947	235	95	271.9	
KDSS	111.02045	86.176	27.44672	184.63208	187	105	96.58	
KHWK	111.00912	86.89253	157.69462	13.13043	158	95	186.07	
KWNA-FM	111.03757	85.08109	168.53036	59.24953	179	96	335.35	
KRLT	111.01769	86.35122	59.14776	248.01989	255	95	259.49	
VACANT	111.02266	86.03517	2.03542	138.39713	138	48	269.35	

**Sierra Grande Broadcasting
Baker, Nevada
296C FM allocation**

City of License	State	Call Sign	Channel	Class	Latitude				Middle latitude			Longitude			
					Degrees	Minutes	Seconds	Decimal	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
<i><u>Co-Channel</u></i>															
Baker	Nevada	Proposed station	296	C	38	51	12	38.853	38.8533	0.6781	114	18	6	114.3	
Colorado City	Arizona	KZNZ	296	C3	36	59	24	36.99	37.9217	0.6619	112	58	36	112.98	
Beaver	Utah	K296AP	296	D	38	27	4	38.451	38.6522	0.6746	112	39	15	112.65	
Delta	Utah	K296AB	296	D	39	21	15	39.354	39.1038	0.6825	112	20	30	112.34	
Fruita	Utah	K296DO	296	D	38	17	35	38.293	38.5732	0.6732	111	14	52	111.25	
Long Valley Junction	Utah	K296AR	296	D	37	30	25	37.507	38.1801	0.6664	112	30	37	112.51	
Panguitch	Utah	K296DN	296	D	37	49	19	37.822	38.3376	0.6691	112	27	28	112.46	
Richfield	Utah	K296AC	296	D	38	38	4	38.634	38.7439	0.6762	112	3	33	112.06	
Wayne County	Utah	K296AA	296	D	38	28	20	38.472	38.6628	0.6748	111	48	29	111.81	
<i><u>First Adjacent Channels</u></i>															
Overton	Nevada	VACANT	295	C1	36	53	17	36.888	37.8707	0.661	114	34	27	114.57	
Colorado City	Arizona	KZNZ	297	C1	37	5	42	37.095	37.9742	0.6628	113	11	12	113.19	
<i><u>Second Adjacent Channels</u></i>															
Orem	Utah	KENZ	298	C	40	16	48	40.28	39.5667	0.6906	111	56	5	111.93	
Orem	Utah	KENZ	298	C	40	16	48	40.28	39.5667	0.6906	111	56	5	111.93	
<i><u>Third Adjacent Channels</u></i>															
Battle Mountain	Nevada	K293AA	293	D	40	34	10	40.569	39.7114	0.6931	116	41	39	116.69	
Enterprise	Utah	K293AF	293	D	37	30	46	37.513	38.1831	0.6664	113	39	14	113.65	
Spanish Fork	Utah	KOSY	293	C	40	16	50	40.281	39.5669	0.6906	111	56	6	111.94	
<i><u>Image Channels</u></i>															

Sierra Grande Broadcasting

Baker, Nevada

296C FM allocation

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required separation km	Direction degrees	Remarks
Proposed station	111.01048	86.80718	0	0	0			
KZMZ	110.99259	87.928	206.81619	116.5046	237.4	237	144.58	Moving From
K296AP	111.0066	87.05108	44.64932	143.41665	150.2		103.72	
K296AB	111.01531	86.50198	55.60017	169.54388	178.4		75.67	
K296DO	111.00508	87.14663	62.19368	266.13613	273.3		100.4	
K296AR	110.99754	87.61938	149.44585	156.96038	216.7		126.93	
K296DN	111.00056	87.43044	114.48474	161.21202	197.7		119.22	
K296AC	111.00837	86.94004	24.2985	194.96304	196.5		95.57	
K296AA	111.00681	87.03831	42.30593	217.0397	221.1		98.69	
VACANT	110.99162	87.98865	218.12936	23.97691	219.4	209	187.89	
KZMZ	110.9936	87.86546	195.16375	97.96999	218.4	209	147.62	Moving to
KENZ	111.02426	85.93343	158.39461	203.39965	257.8	105	58.92	Main
KENZ	111.02426	85.93343	158.39461	203.39965	257.8	105	58.92	Auxiliary
K293AA	111.02707	85.75452	190.53479	205.16769	280		305.65	
K293AF	110.9976	87.61589	148.79845	56.75563	159.3		154.21	
KOSY	111.02427	85.93308	158.45631	203.37496	257.8	105	58.91	

Sierra Grande Broadcasting Battle Mountain, Nevada 231C FM Allocation

City of License	State	Call Sign	Channel	Class	Latitude				Middle latitude			Longitude			
					Degrees	Minutes	Seconds	Decimal	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
<u>Co-Channel</u>															
Battle Mountain	Nevada	Proposed station	231	C	40	38	18	40.638	40.6383	0.7093	116	56	6	116.94	
<u>First Adjacent Channels</u>															
Winnemucca	Nevada	K232BK	232	D	41	0	38	41.011	40.8244	0.7125	117	45	40	117.76	
<u>Second Adjacent Channels</u>															
Elko	Nevada	KLKO	229	C2	40	55	20	40.922	40.7803	0.7118	115	50	56	115.85	
Elko	Nevada	VACANT	233	C3	40	49	48	40.83	40.7342	0.7109	115	45	36	115.76	
<u>Third Adjacent Channels</u>															
<u>Image Channels</u>															
Battle Mountain	Nevada	K285EK	285	D	40	34	10	40.569	40.6039	0.7087	116	41	39	116.69	

Sierra Grande Broadcasting Battle Mountain, Nevada 231C FM Allocation

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required seperation km	Direction degrees	Remarks
Proposed station	111.0451	84.59566	0	0	0			
K232BK	111.04873	84.36029	41.33481	69.69097	81		294.25	Within protected area
KLKO	111.04787	84.41623	31.52526	91.68541	97	105	75.35	
VACANT	111.04697	84.47457	21.284	99.25762	102	96	80.74	
K285EK	111.04442	84.63912	7.64973	20.38392	22	29	105.96	

Sierra Grande Broadcasting
Eureka, Nevada
300C FM allocation

City of License	State	Call Sign	Channel	Class	Latitude				Middle latitude			Longitude			
					Degrees	Minutes	Seconds	Decimal	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
Eureka	Nevada	Proposed station	300	C	39	38	48	39.647	39.6467	0.692	115	57	42	115.96	

Sierra Grande Broadcasting
Eureka, Nevada
300C FM allocation

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required seperation km	Remarks
Proposed station	111.02581	85.8346	0	0	0		

Sierra Grande Broadcasting Fallon, Nevada 297C FM Allocation

City of License	State	Call Sign	Channel	Class	Latitude				Middle latitude			Longitude			
					Degrees	Minutes	Seconds	Decimal	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
<u>Co-Channel</u>															
Fallon	Nevada	Proposed station	297	C	39	28	24	39.473	39.4733	0.6889	118	46	36	118.78	
Alturas	California	VACANT	297	C	41	29	34	41.493	40.4831	0.7066	120	31	37	120.53	
<u>First Adjacent Channels</u>															
Madera	California	KMMM	296	B1	37	7	48	37.13	38.3017	0.6685	119	40	38	119.68	
<u>Second Adjacent Channels</u>															
Incline Village	Nevada	RM 99-229 ADD	295	C	39	18	38	39.311	39.3919	0.6875	119	53	1	119.88	
Reno	Nevada	KRNO	295	C	39	18	38	39.311	39.3919	0.6875	119	53	1	119.88	
Reno	Nevada	RM 99-229 ADD	295	C	39	18	38	39.311	39.3919	0.6875	119	53	1	119.88	
Kings Beach	California	KSRN	299	C3	39	18	48	39.313	39.3933	0.6875	119	52	59	119.88	
<u>Third Adjacent Channels</u>															
<u>Image Channels</u>															
Tahoe City	California	KLCA	243	C1	39	18	38	39.311	39.3919	0.6875	119	53	1	119.88	

**Sierra Grande Broadcasting
Fallon, Nevada
297C FM Allocation**

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required seperation km	Direction degrees	Remarks
Proposed station VACANT	111.02245 111.04207	86.04851 84.79134	0 224.24329	0 148.4084	0 269	290	319.08	
KMMM	110.99987	87.47365	260.1097	78.77488	272	193	201.02	
RM 99-229 ADD	111.02088	86.14868	18.07173	95.3618	97	105	261.63	
KRNO	111.02088	86.14868	18.07173	95.3618	97	105	261.63	
RM 99-229 ADD	111.02088	86.14868	18.07173	95.3618	97	105	261.63	
KSRN	111.02091	86.14698	17.76335	95.31206	97	96	261.77	
KLCA	111.02088	86.14868	18.07173	95.3618	97	41	261.63	

**Sierra Grande Broadcasting
Cimarron, New Mexico
236C2 Allocation**

City of License	State	Call Sign	Channel	Class	Latitude			Middle latitude			Longitude			
					Degrees	Minutes	Seconds	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
<u>Co-channel</u>														
Cimarron	New Mexico	Proposed station	236	C2	36	30	42	36.512	36.5117	0.6372	104	55	0	104.92
Colorado Springs	Colorado	KRDO-FM	236	C	38	44	45	38.746	37.6288	0.6567	104	51	38	104.86
Corrales	New Mexico	KSYU	236	C1	35	4	4	35.068	35.7897	0.6246	106	46	46	106.78
Eagle Nest	New Mexico	K236AK	236	D	36	38	28	36.641	36.5764	0.6384	105	13	48	105.23
<u>Second adjacent channel</u>														
Clayton	New Mexico	20010612AFG	234	L1	36	27	29	36.458	36.4849	0.6368	103	11	16	103.19
Santa Fe	New Mexico	KBOM	234	C1	36	5	21	36.089	36.3004	0.6336	106	1	41	106.03
Santa Fe	New Mexico	KHFM	238	C1	35	46	49	35.78	36.146	0.6309	106	31	37	106.53
<u>Third adjacent channel</u>														
Raton	New Mexico	20010611AAF	239	L1	36	54	12	36.903	36.7075	0.6407	104	26	42	104.45
<u>Image channel</u>														
Santa Fe	New Mexico	KRZY-FM	290	C	35	46	49	35.78	36.146	0.6309	106	31	34	106.53

**Sierra Grande Broadcasting
Cimarron, New Mexico
236C2 Allocation**

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required seperation km	Direction degrees	Remarks
Proposed station	110.96582	89.57982	0	0	0			
KRDO-FM	110.987	88.27558	247.96346	4.95324	248	249	1.44	
KSYU	110.95226	90.40458	160.20274	168.40364	232.4	224	232.22	
K236AK	110.96704	89.50518	14.36407	28.04496	31.5		292.45	
20010612AFG	110.96531	89.6107	5.94897	154.92694	155	53	91.78	
KBOM	110.96184	89.82263	46.88138	99.82787	110.3	79	249.19	
KHFM	110.95894	89.99938	81.15414	144.924	166.1	79	245.57	
20010611AAF	110.96951	89.35363	43.46306	42.14513	60.5	0	50.29	
KRZY-FM	110.95894	89.99938	81.15414	144.849	166	35	245.56	

Sierra Grande Broadcasting

Moab, Utah

234C FM Allocation

City of License	State	Call Sign	Channel	Class	Latitude				Middle latitude			Longitude			
					Degrees	Minutes	Seconds	Decimal	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
<i><u>Co-Channel</u></i>															
Moab	Utah	Proposed station	234	C	38	34	24	38.573	38.5733	0.6732	109	32	54	109.55	
Carbondale	Colorado	K234AF	234	D	39	25	24	39.423	38.9983	0.6806	107	22	32	107.38	
<i><u>First Adjacent Channels</u></i>															
Crested Butte	Colorado	K233AE	233	D	38	52	3	38.868	38.7204	0.6758	106	59	0	106.98	
New Castle	Colorado	VACANT	233	A	39	34	12	39.57	39.0717	0.6819	107	31	54	107.53	
Ouray	Colorado	K233AH	233	D	38	4	16	38.071	38.3222	0.6688	107	41	2	107.68	
Teasdale	Utah	K233AF	233	D	38	17	0	38.283	38.4283	0.6707	111	30	37	111.51	
Jack's Cabin	Colorado	K235AK	235	D	38	42	47	38.713	38.6432	0.6745	106	48	36	106.81	
Aztec	New Mexico	KWYK-FM	235	C1	36	41	54	36.698	37.6358	0.6569	108	13	18	108.22	
Provo	Utah	KZHT	235	C	40	16	58	40.283	39.4281	0.6881	111	56	11	111.94	
<i><u>Second Adjacent Channels</u></i>															
Hesperus	Colorado	K232DA	232	D	37	22	25	37.374	37.9735	0.6628	108	6	5	108.1	
Roaring Fork	Colorado	K232AD	232	D	39	25	33	39.426	38.9996	0.6807	107	22	25	107.37	
Telluride	Colorado	K232BW	232	D	37	56	20	37.939	38.2561	0.6677	107	49	50	107.83	
Moab	Utah	K232AR	232	D	38	34	26	38.574	38.5736	0.6732	109	32	57	109.55	
Roosevelt	Utah	KXRQ	232	C1	40	31	15	40.521	39.5471	0.6902	109	42	25	109.71	
Delta	Colorado	KKNN	236	C0	38	52	40	38.878	38.7256	0.6759	108	13	30	108.23	
<i><u>Third Adjacent Channels</u></i>															
Montrose	Colorado	KKXK	231	C	38	20	16	38.338	38.4556	0.6712	107	38	23	107.64	
Teec Nos Pos	Arizona	VACANT	237	C1	36	54	36	36.91	37.7417	0.6587	109	6	0	109.1	
Aspen	Colorado	K237BH	237	D	39	9	8	39.152	38.8628	0.6783	106	49	12	106.82	
Eagle	Colorado	K237CB	237	D	39	38	46	39.646	39.1097	0.6826	106	54	41	106.91	
Hesperus	Colorado	K237CR	237	D	37	22	25	37.374	37.9735	0.6628	108	6	5	108.1	
Vail	Colorado	K237BL	237	D	39	36	56	39.616	39.0944	0.6823	106	26	57	106.45	
Castle Dale	Utah	VACANT	237	C3	39	12	48	39.213	38.8933	0.6788	111	1	18	111.02	
Escalenta	Utah	K237AD	237	D	37	56	25	37.94	38.2568	0.6677	111	43	40	111.73	
Fillmore	Utah	K237AH	237	D	39	2	10	39.036	38.8047	0.6773	112	19	31	112.33	
Marysvale	Utah	K237AG	237	D	38	30	13	38.504	38.5385	0.6726	112	12	41	112.21	
Orangeville	Utah	K237AB	237	D	39	12	36	39.21	38.8917	0.6788	111	8	30	111.14	
Teasdale	Utah	K237AE	237	D	38	17	0	38.283	38.4283	0.6707	111	30	37	111.51	
Vernal	Utah	K237AC	237	D	40	21	1	40.35	39.4618	0.6887	109	9	42	109.16	

Sierra Grande Broadcasting Moab, Utah 234C FM Allocation

City of License	State	Call Sign	Channel	Class	Latitude				Middle latitude			Longitude			
					Degrees	Minutes	Seconds	Decimal	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
<i><u>Image Channels</u></i>															
Grand Junction	Colorado	KZKS-FM1	287	D	39	3	57	39.066	38.8196	0.6775	108	44	45	108.75	
Placerville	Colorado	K288BM	288	D	38	0	6	38.002	38.2875	0.6682	108	4	0	108.07	
Monticello	Utah	K288AZ	288	D	37	50	21	37.839	38.2063	0.6668	109	27	43	109.46	

Sierra Grande Broadcasting

Moab, Utah

234C FM Allocation

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required seperation km	Direction degrees	Remarks
Proposed station	111.00509	87.14646	0	0	0			
K234AF	111.01327	86.63066	94.36128	188.22917	211	226	68.63	
K233AE	111.00792	86.9685	32.65483	223.0742	225	165	83.46	
VACANT	111.01469	86.54117	110.64464	174.52469	207	165	63.7	
K233AH	111.00026	87.44896	55.7468	163.04373	172	165	105.08	
K233AF	111.0023	87.32134	32.19067	171.31962	174	165	261.59	
K235AK	111.00643	87.062	15.51007	238.40478	239	165	87.08	
KWYK-FM	110.98713	88.26721	208.10087	117.10117	239	209	144.72	
KZHT	111.02158	86.10426	189.78522	205.62176	280	241	305.6	
K232DA	110.99358	87.86629	133.16146	127.13764	184	95	129.66	
K232AD	111.0133	86.62914	94.63884	188.39432	211	95	68.59	
K232BW	110.999	87.52832	70.4227	150.3542	166	95	110.27	
K232AR	111.00509	87.14613	0.06167	0.07262	0	95	303.69	
KXRQ	111.02388	85.95759	216.21901	13.63383	217	105	355.34	
KKNN	111.00802	86.96227	33.79577	115.08007	120	105	77.04	
KKXK	111.00282	87.28855	26.14733	166.5999	169	105	97.04	
VACANT	110.98915	88.14187	184.61195	39.51694	189	105	164.92	
K237BH	111.01066	86.7957	64.26284	236.8076	245	95	78.02	
K237CB	111.01542	86.49468	119.09488	228.08167	257	95	67.86	
K237CR	110.99358	87.86629	133.16146	127.13764	184	95	129.66	
K237BL	111.01513	86.51335	115.70244	268.11929	292	95	71.41	
VACANT	111.01125	86.75854	71.0472	127.82425	146	96	293.48	
K237AD	110.99901	87.52749	70.26854	190.7613	203	95	253.8	
K237AH	111.00954	86.86623	51.37275	241.22269	247	95	279.46	
K237AG	111.00442	87.18856	7.73947	232.18798	232	95	268.5	
K237AB	111.01122	86.76057	70.67714	138.23851	155	95	291.78	
K237AE	111.0023	87.32134	32.19067	171.31962	174	95	261.59	
K237AC	111.02223	86.06271	197.28033	33.27758	200	95	12.28	

Sierra Grande Broadcasting Moab, Utah 234C FM Allocation

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required seperation km	Direction degrees	Remarks
KZKS-FM1	111.00983	86.84818	54.67234	69.69566	89	48	58.46	
K288BM	110.9996	87.49066	63.45477	129.63199	144	29	111.1	
K288AZ	110.99804	87.5881	81.49106	7.56664	82	29	173.29	

**Sierra Grande Braodcasting
Salina, Utah
276C FM Allocation**

City of License	Call Sign	Channel	Class	Latitude				Middle latitude			Longitude			
				Degrees	Minutes	Seconds	Decimal	Degrees	Radians	Degrees	Minutes	Seconds	Decimal	
Co-channel														
Salina, Utah	Proposed station	276	C	38	42	44	38.7122	38.7122	0.67566	111	38	46	111.646	
Salina, Utah	City coordinates			38	57	30	38.9583	38.8353	0.6778	111	51	18	111.855	
Bryce Canyon, Utah	K276DK	276	D	37	45	21	37.7558	38.234	0.66731	111	52	27	111.874	
Cedar City, Utah	K276DA	276	D	38	6	16	38.1044	38.4083	0.67035	112	59	47	112.996	
Manti, Utah	K276AS	276	D	39	14	44	39.2456	38.9789	0.68031	111	35	48	111.597	
Millcreek, Utah	K276DP	276	D	40	48	29	40.8081	39.7601	0.69395	111	53	22	111.889	
Panguitch, Utah	K276CU	276	D	37	49	19	37.8219	38.2671	0.66789	112	27	28	112.458	
Park City, Utah	K276CE	276	D	40	40	59	40.6831	39.6976	0.69285	111	31	22	111.523	
Richfield, Utah	K276AT	276	D	38	38	4	38.6344	38.6733	0.67498	112	3	33	112.059	
St. George, Utah	K276DJ	276	D	37	3	49	37.0636	37.8879	0.66127	113	34	20	113.572	
First adjacent channels														
Bishop, California	20000608AEK	275	L1	37	22	1	37.3669	38.0396	0.66392	112	24	6	112.402	
Hurricane, Utah	RM9518 - ADD	275	C3	37	10	30	37.175	37.9436	0.66224	113	17	24	113.29	
Castle Valley, Utah	K277AF	277	D	38	31	45	38.5292	38.6207	0.67406	109	19	21	109.323	
Second adjacent channels														
Junction, Utah	K274AH	274	D	38	12	49	38.2136	38.4629	0.6713	112	14	23	112.24	
Midvale, Utah	KQMB	274	C	40	39	34	40.6594	39.6858	0.69265	111	55	29	111.925	
Montecello, Utah	20000716AAV	278	L1	37	52	41	37.8781	38.2951	0.66838	109	20	38	109.344	
Salt Lake City, Utah	KRSP-FM	278	C	40	39	35	40.6597	39.686	0.69265	112	12	5	112.201	
Salt Lake City, Utah	KRSP-FM	278	C	40	39	37	40.6603	39.6863	0.69266	112	12	5	112.201	
Third adjacent channels														
Image channels														
Payson, Utah	KTCE	222	A	40	3	20	40.0556	39.3839	0.68738	111	49	43	111.829	
Cedar City, Utah	KSSD	223	C	37	38	41	37.6447	38.1785	0.66634	113	22	28	113.374	
Coalville, Utah	KCUA	223	A	40	54	58	40.9161	39.8142	0.69489	111	23	46	111.396	
Coalville, Utah	KCUA	223	C3	40	59	55	40.9986	39.8554	0.69561	111	25	36	111.427	
Ogden, Utah	K223AK	223	D	41	13	14	41.2206	39.9664	0.69755	111	58	9	111.969	
Park City, Utah	KCUA-A	223	D	40	40	59	40.6831	39.6976	0.69285	111	31	20	111.522	

Sierra Grande Braodcasting

Salina, Utah

276C FM Allocation

Call Sign	Kilometers per degree latitude	Kilometers per degree longitude	North South distance km	East West distance km	Distance km	Required separation km	Direction degrees	Remarks
Proposed station	111.00776	86.97843	0	0	0			
City coordinates	111.01013	86.82912	27.32083	18.13764	33	Distance to Salina	319.68	
K276DK	110.99857	87.55481	106.1578	19.96736	108	Translator	193.41	Interference study needed
K276DA	111.00192	87.34542	67.4645	117.94058	136	Translator	245.77	Interference study needed
K276AS	111.0129	86.65436	59.20688	4.28458	59	Translator	5.3	Within 92 km contour
K276DP	111.02801	85.69413	232.6962	20.85224	234	Translator	353.38	
K276CU	110.99921	87.51516	98.82013	71.03314	122	Translator	222.36	Interference study needed
K276CE	111.0268	85.77154	218.81532	10.57849	219	Translator	3.58	
K276AT	111.00701	87.02553	8.63388	35.94638	37	Translator	259.34	Within 92 km contour
K276DJ	110.99195	87.96817	182.98256	169.43647	249	Translator	229.44	
20000608AEK	110.99485	87.78743	149.31891	66.32828	163	120	209.32	Coordinate is SE of Alton, UT
RM9518 - ADD	110.99301	87.90187	170.62092	144.50091	224	176	226.92	
K277AF	111.006	87.08922	20.32026	202.36148	203	Translator	94.5	
K274AH	111.00297	87.27968	55.34731	51.81019	76	Translator	229.97	Within 92 km contour
KQMB	111.02657	85.78615	216.1934	23.90097	218	105	351.86	
20000716AAV	110.99974	87.48149	92.59228	201.40183	222	0	109.92	
KRSP-FM	111.02657	85.78598	216.22425	47.63505	221	105	344.09	
KRSP-FM	111.02658	85.78564	216.28595	47.63486	221	105	344.09	
KTCE	111.02072	86.15859	149.13783	15.72394	150	29	352.26	
KSSD	110.99751	87.62137	118.48984	151.43893	192	48	238.3	
KCUA	111.02906	85.62713	244.69571	21.40678	246	29	6.47	
KCUA	111.02986	85.57593	253.85744	18.77916	255	31	5.48	
K223AK	111.03202	85.43796	278.50532	27.60121	280	Translator	352.66	
KCUA-A	111.0268	85.77154	218.81532	10.62614	219	Booster station	3.6	