

CITY OF LICENSE
CALL LETTERS
FACILITY ID
PREPARED FOR
VERSION
JOB

Gallup, NM
KNIZ
174368
Available Media, Inc.
1.1
110014

CONSOLIDATED

ENGINEERING EXHIBIT

FCC Form 340 - Section VII - FM Engineering

ENGINEERING STATEMENT
APPLICATION FOR A MINOR-MODIFICATION
OF ORIGINAL CONSTRUCTION PERMIT BNPED-20071018BBT
KNIZ (FM), Gallup, NM
Available Media, Inc., Albuquerque, NM

Available Media, Inc. (AMI) hereby submits this minor-modification to the original Construction Permit, for KNIZ (FM), Gallup, NM. The minor-modification proposes to modify the site, frequency, antenna height & pattern, and ERP of the CP. The proposal would modify the pattern to non-directional. The frequency would be changed from Ch210 to Ch211.

As shown by the attached **Exhibit 14a**, a significant portion of the CP 60dBu contour overlaps the proposed 60dBu contour, qualifying this proposal as a minor-change. AMI was granted a CP without restrictions, and is therefore not constrained by the Holding Period provisions of §73.7005(b).

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Michael D. Brown

3740 S.W. Comus St.

Portland, Oregon 97219-7418

503-245-6065

EXHIBIT 14

COMMUNITY COVERAGE

The proposed facility complies with the community coverage requirements of §73.515, as shown by the data below and Exhibit 14a. This Rule requires that at least 50% of the area **or** population of the community of license must be covered by a 60dBu signal.

Total Population of Community of License	20,207
Population within 60dbu	20,183
Population within 60dbu %	99.88%
Total Area of Community of License - km ²	34.5
Area within 60dbu - km ²	33.4
Area within 60dbu%	96.81%

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Exhibit 14a - Community of License Coverage

Brown Broadcast Services, Inc.
Job: KNIZ 082410db.fmj
Master Database: 2010_Aug_24.fmd
Lat: N35:29:39 Lon: W108:44:32 NAD-27
Scale: 1:200000
Channel: 211 Class: A

rfInvestigator Version 3.4.18
by rfSoftware, Inc.
Date: 8/24/2010 6:16:19 PM
Key:
City Grade
Protected
Co-Channel
1st Adj
2nd/3rd Adj

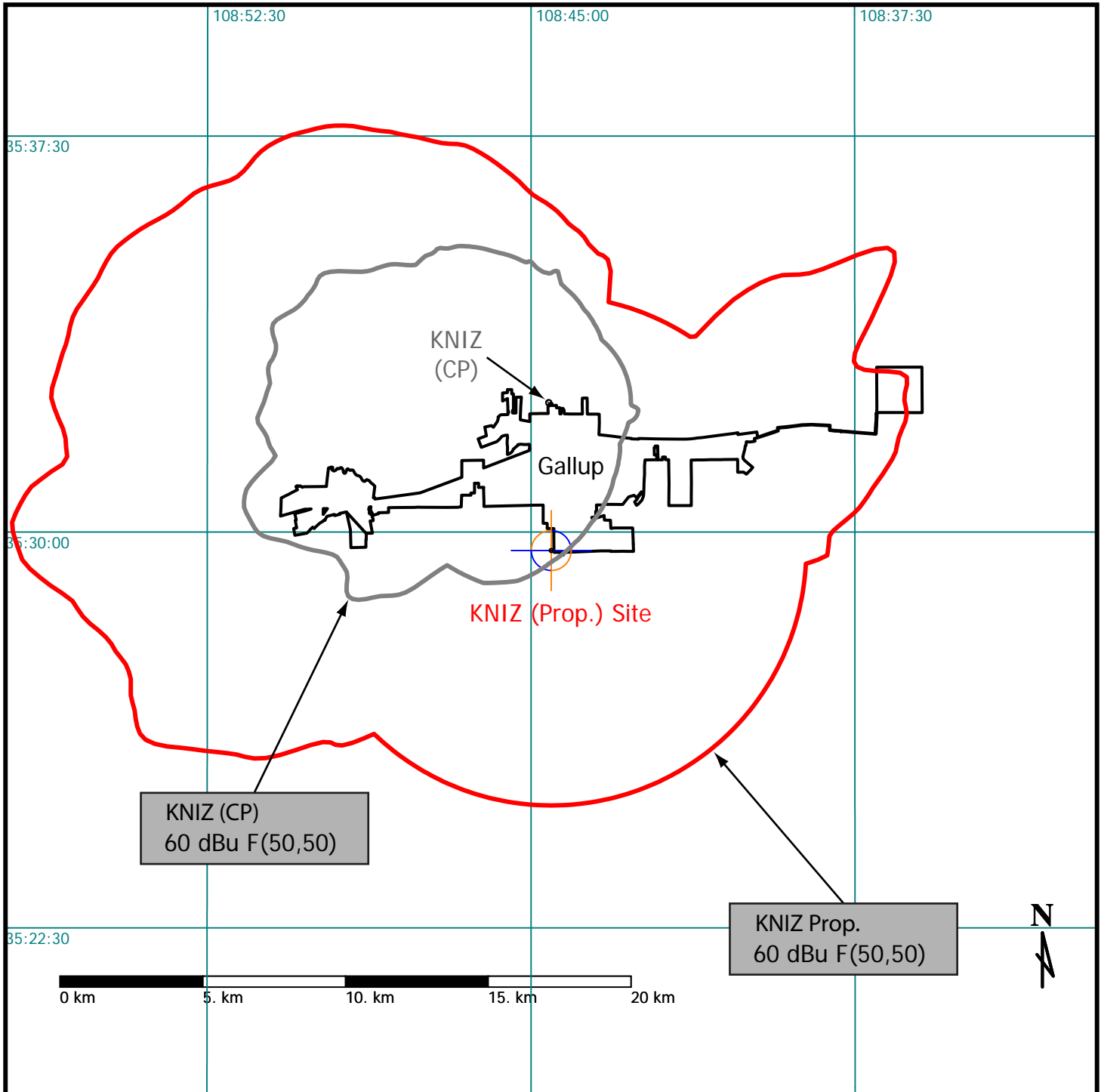


EXHIBIT 16

CONTOUR OVERLAP PROTECTION TO OTHER RESERVED-BAND STATIONS

This proposed minor-change to KNIZ meets the contour overlap requirements of §73.509 with respect to all other reserved-band stations.

Domestic reserved-band stations considered:

ID	City	St	Chan	CL	Stat	Prefix	ARN	Dist	Min 207	Clear 207
KLGG	GRANTS	NM	212	C1	CP	BPED	20090923ACU	109.1	133	-23.9
KLGG	GRANTS	NM	212	C2	LIC	BLER	20060526AET	107.6	106	1.6
KNIZ	GALLUP	NM	210	A	CP	BNPED	20071018BBT	5.18	72	-66.82

All contour calculations were made using the methods and procedures described in 47 CFR §73.313(c). Areas were calculated using a spline integration in one-degree increments. Population totals were calculated by testing each U.S. Census-defined block-centroid population point in the region with a point-in-polygon method. The population was summed for each point within the polygon using data from the 2000 Census.

FMOver calculations were done using V-Soft FM Commander software, using “HAAT method 0 (zero)”, 51 data points per radial, and the FCC-modified version of the NGDC 30 second terrain database. According to V-Soft, this combination results in “astounding agreement” with FCC software.

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Exhibit 16a - 1st Adjacent Contour Protection

Brown Broadcast Services, Inc.
Job: KNIZ 082410db.fmj
Master Database: 2010_Aug_24.fmd
Lat: N35:29:39 Lon: W108:44:32 NAD-27
Scale: 1:1250000
Channel: 211 Class: A

rfInvestigator Version 3.4.18
by rfSoftware, Inc.
Date: 8/24/2010 6:13:06 PM

PROPOSED
Protected: 60dBu F(50,50)
Interfering: 54dBu F(50,10)
AFFECTED
Protected: 60dBu F(50,50)
Interfering: 54dBu F(50,10)

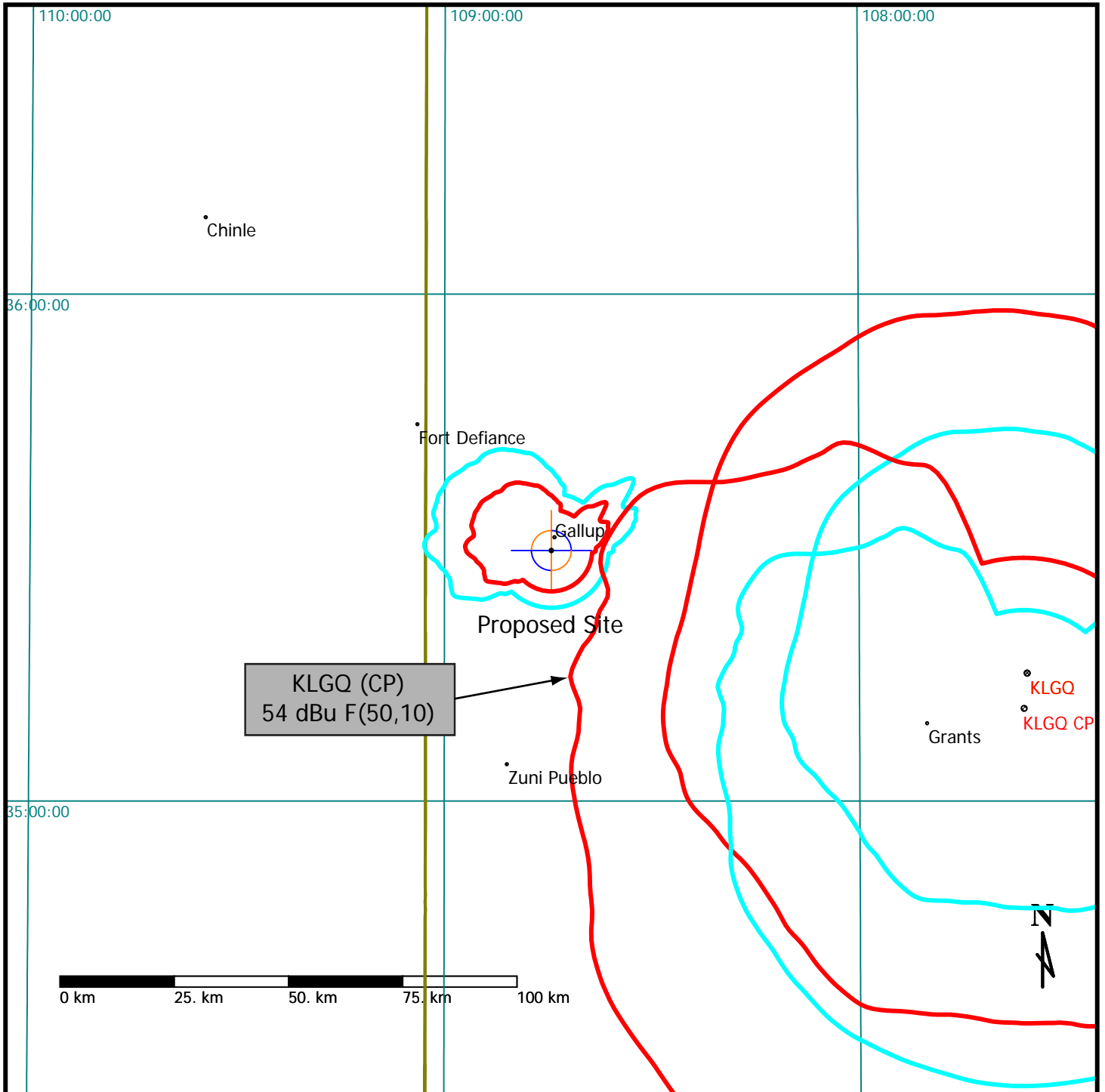


EXHIBIT 16b

FMOver Analysis - KNIZ CP Proposed Minor-Mod. vs. KLGQ CP, Grants, NM

08-24-2010

FCC NGDC 30 Sec Terrain Data

FMOver Analysis

KNIZ Proposed

KLGQ CP BPED20090923ACU

Channel = 211A
Max ERP = 0.6 kW
RCAMSL = 2115 M
N. Lat. 35 29 39.0
W. Lng. 108 44 32.0
Protected
60 dBu

Channel = 212C1
Max ERP = 20 kW
RCAMSL = 2818 M
N. Lat. 35 10 57.0
W. Lng. 107 36 13.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
063.0	000.6000	0072.0	013.6	294.4	020.0000	0455.6	099.9	53.56	
064.0	000.6000	0073.4	013.7	294.4	020.0000	0455.7	099.6	53.65	
065.0	000.6000	0072.3	013.6	294.3	020.0000	0456.1	099.5	53.69	
066.0	000.6000	0070.2	013.4	294.1	020.0000	0456.5	099.5	53.72	
067.0	000.6000	0069.0	013.3	293.9	020.0000	0456.9	099.4	53.76	
068.0	000.6000	0068.5	013.3	293.8	020.0000	0457.2	099.2	53.81	
069.0	000.6000	0067.8	013.2	293.7	020.0000	0457.5	099.1	53.86	
070.0	000.6000	0066.1	013.1	293.6	020.0000	0457.9	099.0	53.89	
071.0	000.6000	0063.6	012.8	293.4	020.0000	0458.4	099.1	53.90	
072.0	000.6000	0061.8	012.7	293.2	020.0000	0458.7	099.0	53.92	
073.0	000.6000	0060.7	012.6	293.1	020.0000	0459.1	099.0	53.95	
074.0	000.6000	0059.7	012.5	293.0	020.0000	0459.4	098.9	53.98	
075.0	000.6000	0057.7	012.3	292.8	020.0000	0459.8	098.9	53.99	
076.0	000.6000	0055.5	012.1	292.6	020.0000	0460.2	098.9	53.99	
077.0	000.6000	0053.5	011.9	292.4	020.0000	0460.6	099.0	53.98	
078.0	000.6000	0051.5	011.7	292.3	020.0000	0461.0	099.1	53.97	
079.0	000.6000	0049.7	011.5	292.1	020.0000	0461.3	099.1	53.97	
080.0	000.6000	0048.2	011.3	292.0	020.0000	0461.6	099.2	53.96	
081.0	000.6000	0046.7	011.1	291.8	020.0000	0461.8	099.2	53.95	
082.0	000.6000	0045.1	010.9	291.7	020.0000	0462.1	099.3	53.94	
083.0	000.6000	0043.3	010.7	291.5	020.0000	0462.2	099.4	53.91	
084.0	000.6000	0041.2	010.4	291.3	020.0000	0462.4	099.6	53.87	
085.0	000.6000	0039.2	010.1	291.2	020.0000	0462.5	099.7	53.83	
086.0	000.6000	0037.4	009.9	291.0	020.0000	0462.5	099.9	53.79	
087.0	000.6000	0036.4	009.8	290.9	020.0000	0462.6	099.9	53.77	
088.0	000.6000	0036.2	009.7	290.8	020.0000	0462.6	099.9	53.78	
089.0	000.6000	0035.9	009.7	290.7	020.0000	0462.5	099.8	53.79	
090.0	000.6000	0035.7	009.7	290.6	020.0000	0462.5	099.8	53.80	
091.0	000.6000	0035.4	009.6	290.5	020.0000	0462.4	099.8	53.81	
092.0	000.6000	0032.9	009.3	290.4	020.0000	0462.3	100.1	53.72	
093.0	000.6000	0028.7	008.9	290.2	020.0000	0462.0	100.4	53.62	
094.0	000.6000	0024.4	008.9	290.1	020.0000	0461.9	100.3	53.63	
095.0	000.6000	0019.4	008.9	290.0	020.0000	0461.7	100.3	53.64	
096.0	000.6000	0014.3	008.9	290.0	020.0000	0461.5	100.3	53.64	
097.0	000.6000	0008.4	008.9	289.9	020.0000	0461.3	100.2	53.64	
098.0	000.6000	0003.6	008.9	289.8	020.0000	0461.0	100.2	53.64	
099.0	000.6000	-0000.7	008.9	289.7	020.0000	0460.7	100.2	53.65	
100.0	000.6000	-0004.5	008.9	289.6	020.0000	0460.4	100.1	53.64	
101.0	000.6000	-0007.8	008.9	289.5	020.0000	0460.0	100.1	53.64	

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Portland, Oregon 97219-7418

503-245-6065

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
102.0	000.6000	-0010.1	008.9	289.4	020.0000	0459.7	100.1	53.63	
103.0	000.6000	-0012.6	008.9	289.3	020.0000	0459.3	100.1	53.63	
104.0	000.6000	-0016.0	008.9	289.2	020.0000	0458.8	100.1	53.62	
105.0	000.6000	-0019.5	008.9	289.2	020.0000	0458.3	100.0	53.60	
106.0	000.6000	-0023.4	008.9	289.1	020.0000	0457.8	100.0	53.59	
107.0	000.6000	-0026.8	008.9	289.0	020.0000	0457.3	100.0	53.57	
108.0	000.6000	-0030.2	008.9	288.9	020.0000	0456.6	100.0	53.56	
109.0	000.6000	-0034.6	008.9	288.8	020.0000	0455.9	100.0	53.53	
110.0	000.6000	-0040.4	008.9	288.7	020.0000	0455.2	100.0	53.51	
111.0	000.6000	-0046.9	008.9	288.6	020.0000	0454.6	100.0	53.49	
112.0	000.6000	-0053.8	008.9	288.5	020.0000	0453.8	100.1	53.46	
113.0	000.6000	-0060.1	008.9	288.4	020.0000	0453.0	100.1	53.43	
114.0	000.6000	-0067.7	008.9	288.4	020.0000	0452.1	100.1	53.40	
115.0	000.6000	-0075.3	008.9	288.3	020.0000	0451.3	100.1	53.37	
116.0	000.6000	-0082.3	008.9	288.2	020.0000	0450.4	100.1	53.34	
117.0	000.6000	-0088.3	008.9	288.1	020.0000	0449.5	100.1	53.30	
118.0	000.6000	-0094.3	008.9	288.0	020.0000	0448.5	100.2	53.27	
119.0	000.6000	-0100.4	008.9	287.9	020.0000	0447.5	100.2	53.23	
120.0	000.6000	-0106.6	008.9	287.8	020.0000	0446.5	100.2	53.19	
121.0	000.6000	-0112.7	008.9	287.7	020.0000	0445.5	100.3	53.15	
122.0	000.6000	-0118.3	008.9	287.7	020.0000	0444.5	100.3	53.10	
123.0	000.6000	-0124.2	008.9	287.6	020.0000	0443.4	100.3	53.06	
124.0	000.6000	-0130.2	008.9	287.5	020.0000	0442.3	100.4	53.01	
125.0	000.6000	-0136.2	008.9	287.4	020.0000	0441.2	100.4	52.96	
126.0	000.6000	-0140.9	008.9	287.3	020.0000	0440.1	100.5	52.92	
127.0	000.6000	-0143.8	008.9	287.2	020.0000	0438.9	100.5	52.87	
128.0	000.6000	-0144.8	008.9	287.1	020.0000	0437.8	100.6	52.82	
129.0	000.6000	-0144.4	008.9	287.1	020.0000	0436.7	100.7	52.77	
130.0	000.6000	-0142.0	008.9	287.0	020.0000	0435.6	100.7	52.72	
131.0	000.6000	-0138.1	008.9	286.9	020.0000	0434.5	100.8	52.66	
132.0	000.6000	-0132.8	008.9	286.8	020.0000	0433.4	100.8	52.61	
133.0	000.6000	-0128.4	008.9	286.7	020.0000	0432.4	100.9	52.56	
134.0	000.6000	-0124.6	008.9	286.7	020.0000	0431.3	101.0	52.51	
135.0	000.6000	-0120.7	008.9	286.6	020.0000	0430.4	101.1	52.46	
136.0	000.6000	-0116.0	008.9	286.5	020.0000	0429.6	101.1	52.42	
137.0	000.6000	-0110.1	008.9	286.4	020.0000	0428.7	101.2	52.37	
138.0	000.6000	-0104.5	008.9	286.4	020.0000	0427.9	101.3	52.32	
139.0	000.6000	-0100.8	008.9	286.3	020.0000	0427.1	101.4	52.27	
140.0	000.6000	-0099.1	008.9	286.2	020.0000	0426.4	101.5	52.23	
141.0	000.6000	-0097.8	008.9	286.1	020.0000	0425.8	101.6	52.19	
142.0	000.6000	-0095.9	008.9	286.1	020.0000	0425.1	101.6	52.14	
143.0	000.6000	-0092.7	008.9	286.0	020.0000	0424.5	101.7	52.10	
144.0	000.6000	-0089.0	008.9	285.9	020.0000	0424.1	101.8	52.06	
145.0	000.6000	-0085.1	008.9	285.9	020.0000	0423.6	101.9	52.01	
146.0	000.6000	-0080.9	008.9	285.8	020.0000	0423.1	102.0	51.97	
147.0	000.6000	-0076.1	008.9	285.7	020.0000	0422.7	102.1	51.93	
148.0	000.6000	-0071.3	008.9	285.7	020.0000	0422.4	102.2	51.89	
149.0	000.6000	-0066.8	008.9	285.6	020.0000	0422.1	102.3	51.85	
150.0	000.6000	-0062.1	008.9	285.5	020.0000	0421.8	102.5	51.82	
151.0	000.6000	-0057.2	008.9	285.5	020.0000	0421.5	102.6	51.78	
152.0	000.6000	-0053.3	008.9	285.4	020.0000	0421.2	102.7	51.74	

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08-24-2010 FCC NGDC 30 Sec Terrain Data

KLQK CP BPED20090923ACU

KNIZ Proposed

Channel = 212C1
Max ERP = 20 kW
RCMSL = 2818 M
N. Lat. 35 10 57.0
W. Lng. 107 36 13.0
Protected
60 dBu

Channel = 211A
Max ERP = 0.6 kW
RCMSL = 2115 M
N. Lat. 35 29 39.0
W. Lng. 108 44 32.0
Interfering
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
244.0	020.0000	0537.8	072.1	149.6	000.6000	-0064.0	076.8	28.46	
245.0	020.0000	0527.1	071.4	149.0	000.6000	-0067.0	075.6	28.67	
246.0	020.0000	0519.4	070.9	148.5	000.6000	-0069.1	074.5	28.89	
247.0	020.0000	0513.1	070.5	148.0	000.6000	-0071.2	073.3	29.10	
248.0	020.0000	0505.7	070.0	147.5	000.6000	-0073.8	072.2	29.31	
249.0	020.0000	0497.7	069.4	146.8	000.6000	-0076.8	071.1	29.50	
250.0	020.0000	0490.3	068.9	146.2	000.6000	-0079.9	070.0	29.69	
251.0	020.0000	0486.1	068.6	145.7	000.6000	-0082.1	068.9	29.89	
252.0	020.0000	0483.3	068.4	145.3	000.6000	-0083.8	067.8	30.09	
253.0	020.0000	0482.1	068.3	144.9	000.6000	-0085.3	066.7	30.29	
254.0	020.0000	0482.5	068.4	144.6	000.6000	-0086.6	065.5	30.51	
255.0	020.0000	0482.4	068.4	144.3	000.6000	-0087.9	064.4	30.72	
256.0	020.0000	0482.6	068.4	143.9	000.6000	-0089.3	063.3	30.93	
257.0	020.0000	0482.5	068.4	143.5	000.6000	-0091.0	062.2	31.15	
258.0	020.0000	0482.2	068.3	143.0	000.6000	-0092.7	061.1	31.36	
259.0	020.0000	0481.7	068.3	142.5	000.6000	-0094.3	060.0	31.58	
260.0	020.0000	0481.2	068.3	142.0	000.6000	-0096.0	059.0	31.80	
261.0	020.0000	0480.2	068.2	141.3	000.6000	-0097.3	058.0	32.01	
262.0	020.0000	0478.9	068.1	140.7	000.6000	-0098.2	057.0	32.21	
263.0	020.0000	0476.3	067.9	139.9	000.6000	-0099.3	056.1	32.41	
264.0	020.0000	0471.8	067.6	138.9	000.6000	-0101.1	055.3	32.58	
265.0	020.0000	0465.6	067.2	137.8	000.6000	-0105.4	054.6	32.73	
266.0	020.0000	0459.5	066.7	136.7	000.6000	-0111.9	053.9	32.88	
267.0	020.0000	0454.8	066.4	135.7	000.6000	-0117.8	053.2	33.03	
268.0	020.0000	0453.4	066.3	134.7	000.6000	-0121.8	052.4	33.20	
269.0	020.0000	0452.1	066.3	133.8	000.6000	-0125.3	051.6	33.37	
270.0	020.0000	0450.7	066.2	132.8	000.6000	-0129.3	050.9	33.53	
271.0	020.0000	0454.0	066.4	132.0	000.6000	-0132.9	049.9	33.73	
272.0	020.0000	0461.3	066.9	131.3	000.6000	-0136.4	048.8	33.98	
273.0	020.0000	0468.2	067.3	130.6	000.6000	-0139.8	047.7	34.22	
274.0	020.0000	0473.7	067.7	129.7	000.6000	-0142.8	046.7	34.46	
275.0	020.0000	0470.5	067.5	128.4	000.6000	-0144.7	046.2	34.57	
276.0	020.0000	0464.1	067.1	126.9	000.6000	-0143.5	045.9	34.64	
277.0	020.0000	0457.3	066.6	125.3	000.6000	-0137.8	045.8	34.68	
278.0	020.0000	0450.6	066.2	123.8	000.6000	-0128.8	045.6	34.72	
279.0	020.0000	0440.1	065.5	122.1	000.6000	-0118.9	045.7	34.69	
280.0	020.0000	0432.3	065.0	120.5	000.6000	-0109.9	045.8	34.68	
281.0	020.0000	0428.4	064.7	119.1	000.6000	-0101.0	045.6	34.72	
282.0	020.0000	0429.6	064.8	117.8	000.6000	-0092.8	045.2	34.82	
283.0	020.0000	0427.7	064.7	116.3	000.6000	-0084.5	045.0	34.87	
284.0	020.0000	0422.6	064.4	114.9	000.6000	-0074.3	045.1	34.85	
285.0	020.0000	0420.4	064.3	113.4	000.6000	-0063.2	045.0	34.87	
286.0	020.0000	0424.5	064.5	112.0	000.6000	-0054.0	044.6	34.98	

BROWN BROADCAST SERVICES
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503-245-6065

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)	IX (km)
287.0	020.0000	0435.8	065.2	110.7	000.6000	-0044.6	043.8	35.19	
288.0	020.0000	0448.5	066.0	109.2	000.6000	-0035.7	042.9	35.43	
289.0	020.0000	0457.4	066.6	107.6	000.6000	-0028.9	042.3	35.60	
290.0	020.0000	0461.6	066.9	106.0	000.6000	-0023.5	042.1	35.67	
291.0	020.0000	0462.5	067.0	104.4	000.6000	-0017.5	042.1	35.66	
292.0	020.0000	0461.5	066.9	102.9	000.6000	-0012.3	042.4	35.60	
293.0	020.0000	0459.3	066.7	101.4	000.6000	-0008.8	042.7	35.50	
294.0	020.0000	0456.7	066.6	099.9	000.6000	-0004.2	043.1	35.38	
295.0	020.0000	0454.0	066.4	098.5	000.6000	0001.4	043.6	35.25	
296.0	020.0000	0451.0	066.2	097.1	000.6000	0007.7	044.1	35.11	
297.0	020.0000	0447.4	065.9	095.8	000.6000	0015.2	044.7	34.95	
298.0	020.0000	0443.4	065.7	094.6	000.6000	0021.6	045.4	34.77	
299.0	020.0000	0437.8	065.3	093.5	000.6000	0026.7	046.2	34.58	
300.0	020.0000	0429.7	064.8	092.5	000.6000	0030.9	047.1	34.52	
301.0	020.0000	0419.1	064.2	091.7	000.6000	0034.3	048.2	34.87	
302.0	020.0000	0404.9	063.3	091.0	000.6000	0035.4	049.5	34.76	
303.0	020.0000	0386.4	062.2	090.6	000.6000	0035.5	051.0	34.41	
304.0	020.0000	0364.4	060.8	090.4	000.6000	0035.6	052.8	34.01	
305.0	020.0000	0340.5	059.3	090.4	000.6000	0035.6	054.7	33.55	
306.0	020.0000	0317.7	057.7	090.5	000.6000	0035.6	056.5	33.11	
307.0	020.0000	0298.5	056.4	090.4	000.6000	0035.6	058.1	32.74	
308.0	020.0000	0282.7	055.3	090.3	000.6000	0035.6	059.6	32.41	
309.0	020.0000	0269.0	054.3	090.2	000.6000	0035.6	060.9	32.11	
310.0	020.0000	0257.5	053.5	090.0	000.6000	0035.7	062.2	31.84	
311.0	020.0000	0247.3	052.8	089.8	000.6000	0035.7	063.3	31.60	
312.0	020.0000	0238.2	052.1	089.5	000.6000	0035.8	064.4	31.38	
313.0	020.0000	0229.5	051.5	089.3	000.6000	0035.9	065.5	31.16	
314.0	020.0000	0221.7	050.9	089.1	000.6000	0035.9	066.6	30.95	
315.0	020.0000	0215.2	050.3	088.9	000.6000	0036.0	067.6	30.75	
316.0	020.0000	0210.1	049.9	088.7	000.6000	0036.0	068.5	30.58	
317.0	020.0000	0206.5	049.6	088.4	000.6000	0036.1	069.3	30.42	
318.0	020.0000	0203.6	049.4	088.0	000.6000	0036.2	070.1	30.27	
319.0	020.0000	0201.1	049.2	087.7	000.6000	0036.3	070.9	30.11	
320.0	020.0000	0198.2	049.0	087.4	000.6000	0036.3	071.7	29.96	
321.0	020.0000	0195.6	048.7	087.2	000.6000	0036.3	072.5	29.80	
322.0	020.0000	0194.1	048.6	086.8	000.6000	0036.5	073.3	29.66	
323.0	020.0000	0194.1	048.6	086.5	000.6000	0036.9	074.0	29.55	
324.0	020.0000	0194.3	048.6	086.1	000.6000	0037.3	074.7	29.44	
325.0	020.0000	0192.8	048.5	085.8	000.6000	0037.6	075.5	29.31	
326.0	020.0000	0189.1	048.2	085.7	000.6000	0037.8	076.3	29.14	
327.0	020.0000	0182.5	047.7	085.7	000.6000	0037.8	077.3	28.93	
328.0	020.0000	0173.7	046.8	086.0	000.6000	0037.4	078.4	28.67	
329.0	020.0000	0164.0	045.8	086.4	000.6000	0037.0	079.7	28.39	
330.0	020.0000	0154.0	044.6	086.9	000.6000	0036.5	080.9	28.09	
331.0	020.0000	0144.4	043.3	087.4	000.6000	0036.3	082.2	27.81	
332.0	020.0000	0135.6	042.2	087.9	000.6000	0036.2	083.3	27.55	
333.0	020.0000	0128.3	041.2	088.3	000.6000	0036.1	084.4	27.32	

BROWN BROADCAST SERVICES
INCORPORATED

Michael D. Brown

3740 S.W. Comus St.

Portland, Oregon 97219-7418

503-245-6065

EXHIBIT 19

TV CHANNEL 6 PROTECTION PER §73.525

The affected TV Channel 6 stations, as defined by §73.525(a), are:

ID	City	St	Chan	Stat	Serv	Distance	Min 73.525	Clear 73.525
KNJO-LP	HOLBROOK	AZ	6	Lic.	LP	150.3	196	-45.7

This proposed minor-amendment will employ an antenna with mixed-polarization, and the interference area will fall outside any community with 50,000 or more persons. Therefore, the effective ERP is $600 + 600/40 = 615 \text{ W}$ (0.615kW).

Exhibit 19a shows that there would be no overlap of the proposal with the 62dBu Protected contour of any Low Power Channel 6 station. The U/D ratio at the 62dBu protected contour is 5.5dB, for a corresponding FM interfering contour of 67.5dBu. While a 6dB antenna directivity adjustment is allowed in this case, none was used on this map.

BROWN BROADCAST SERVICES

Michael D. Brown

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3740 S.W. Comus St. Portland, Oregon 97219-7418

503-245-6065

Exhibit 19a - TV Channel 6 Protection - Low Power

Brown Broadcast Services, Inc.
Job: KNIZ 082410db.fmj
Master Database: 2010_Aug_24.fmd
Lat: N35:29:39 Lon: W108:44:32 NAD-27
Scale: 1:1500000
Channel: 211 Class: A

rfInvestigator Version 3.4.18
by rfSoftware, Inc.
Date: 8/24/2010 6:22:47 PM
Key:
Low Power TV 62dBu
Protected Contour

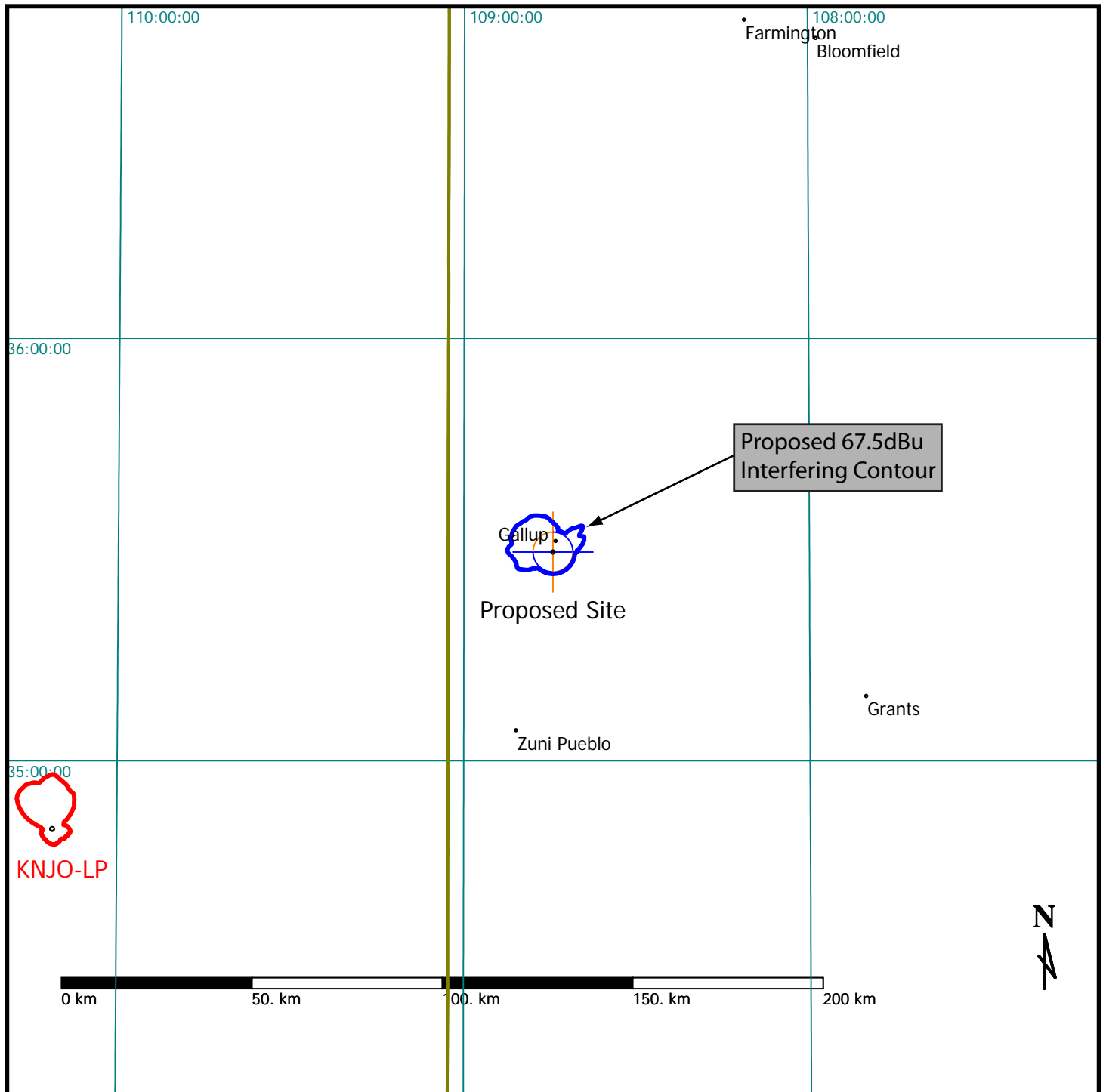


EXHIBIT 22

ENVIRONMENTAL PROTECTION ACT / NIER ANALYSIS

The applicant proposes mounting a new antenna on an existing 62 meter tower. On the same tower is a full power FM station, KFMQ. All other RF facilities at this site are low power and/or facilities with extremely low downward radiation (such as point-to-point microwave services), and are not significant contributors to the overall ground-level RF exposure levels.

The broadcast facilities at or proposed for the site are as follows:

1. FM Full Power, KFMQ, Gallup, NM

Frequency:	106.1 MHz
Maximum ERP:	100 kW
Antenna:	ERI SHPX8AC
Height AGL:	49 meters
Predicted NIER ¹ :	176.4 $\mu\text{W}/\text{cm}^2$
MPE - Uncontrolled:	200 $\mu\text{W}/\text{cm}^2$
Percentage of Maximum:	88.2%

2. Proposed FM Full Power, KNIZ, Gallup, NM (this application)

Frequency:	90.1 MHz
Maximum ERP:	600 W
Antenna:	Shively 6813, 1-bay
Height AGL:	30 meters
Predicted NIER ² :	10.9 $\mu\text{W}/\text{cm}^2$
MPE - Uncontrolled:	200 $\mu\text{W}/\text{cm}^2$
Percentage of Maximum:	5.45%

¹ Calculations made using FM Model for Windows, version 2.10, using the ERI or Jampro JBCP "Rototiller" (EPA) setting

² Calculations made using FM Model for Windows, version 2.10, using the Shively 6810-series setting

The worst-case total predicted RF exposure is therefore $187.3\mu\text{W}/\text{cm}^2$, or 93.65% of the Maximum Permissible Exposure (MPE) for uncontrolled areas.

The applicant will ensure that public access to the tower is restricted by fencing, anti-climb devices, or other appropriate measures. The site will be posted with appropriate RF exposure warning signs. If tower climbing by authorized personnel becomes necessary, transmitter power will be reduced or operation will cease, as necessary, so as to not exceed the RF exposure limits.

No modification of the existing tower is proposed, other than side-mounting the antenna. The tower was constructed prior to March 16, 2001. The Nationwide Programmatic Agreement generally allows such a collocation without consultation or review under Section 106 and Subpart B of 36 CFR §800. The applicant believes that it is in full compliance with the Agreement, and that no further study is required.