

EXHIBIT 1

SAINT PETERS, MO SHORT FORM BNPFT-20030317GPU AMENDMENT LPFM NON-PRECLUSION SHOWING

This LPFM non-preclusion showing is provided because the proposed Saint Peters facility is located within the 39 km buffer zone of the Saint Louis, MO “spectrum limited” market 30X30 grid, and it is located in St. Charles county, one of the Saint Louis top 50 “spectrum limited” market ARB metro counties.

LPFM preclusion test:

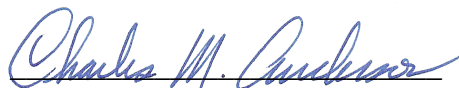
The LPFM6 study excerpted herein shows the channel 268-271 LPFM channel points that must be protected. There are no points on channel 272 or 273. Exhibit 1A demonstrates that the Saint Peters channel 271 proposal co-channel (32 km) LPFM preclusion circle does not penetrate the Saint Louis 30X30 grid and clears all protected LPFM channel points. The closest points are on channel 271 at a distance of 32.6 km. Clearly, the adjacent channel preclusion circles are not a factor. The LPFM preclusion circle radii are based on the proposed 0.250 kW ERP and 12 radial 69.4 meters HAAT (USGS 3 second terrain) 60 dBu of 10.9 km. This results in the use of the 32, 21 and 14 km radii in accordance with §73.807(d)(1).

LPFM site test:

The proposed channel 271 site is in St. Charles County, MO which is part of the St. Louis top 50 “spectrum limited” ARB metro market. Therefore, an LPFM site test is provided in accordance with DA 13-427, Appendix B. which instructs that the site test “....ignore LPFM second-adjacent and intermediate-frequency protection requirements...” The Commission’s LPFM channel finder tool was used at the proposed site and indicates there are eight LPFM channels available there for assignment (220, 224, 225, 236, 240, 275, 287 and 291). Therefore,

this application does not preclude the only LPFM facility at the proposed site, and there are eight other channels available,

It is concluded that the amended Saint Peters application does not preclude any LPFM channel point in an Appendix A market nor the only LPFM channel at its proposed site.



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SAINT LOUIS, MO
 Latitude 38-37-40
 Longitude 090-14-34
 Grid Size 31 x 31
 Micro FM 100 Watts at 30m HAAT
 Co-Channel and 1st Adjacent Protected
 2nd Adjacent Channel Not Protected
 3rd Adjacent Channel Not Protected
 I.F. Not Protected
 TV Channel 6 Protected
 CP Records Protected
 APP Records Protected
 FM Translators Protected
 TV Channel 6 Translators/LP Protected
 Auc83 FX App Records Not Protected

Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	43	240	452	260	80	280	0
201	0	221	0	241	0	261	0	281	0
202	0	222	0	242	0	262	0	282	0
203	0	223	0	243	0	263	0	283	319
204	0	224	961	244	701	264	659	284	0
205	0	225	547	245	0	265	0	285	0
206	0	226	122	246	0	266	0	286	0
207	0	227	124	247	0	267	0	287	445
208	0	228	0	248	373	268	53	288	0
209	0	229	0	249	390	269	275	289	0
210	0	230	0	250	0	270	727	290	0
211	0	231	595	251	0	271	784	291	68
212	84	232	927	252	0	272	0	292	0
213	0	233	0	253	170	273	0	293	0
214	0	234	0	254	155	274	0	294	0
215	0	235	0	255	0	275	961	295	961
216	0	236	961	256	0	276	0	296	946
217	0	237	0	257	0	277	0	297	961
218	0	238	0	258	607	278	0	298	0
219	0	239	0	259	197	279	854	299	0
								300	0

 Total 15502

Total allotments, least preclusive spacing: 130
 Total allotments, most preclusive spacing: 99

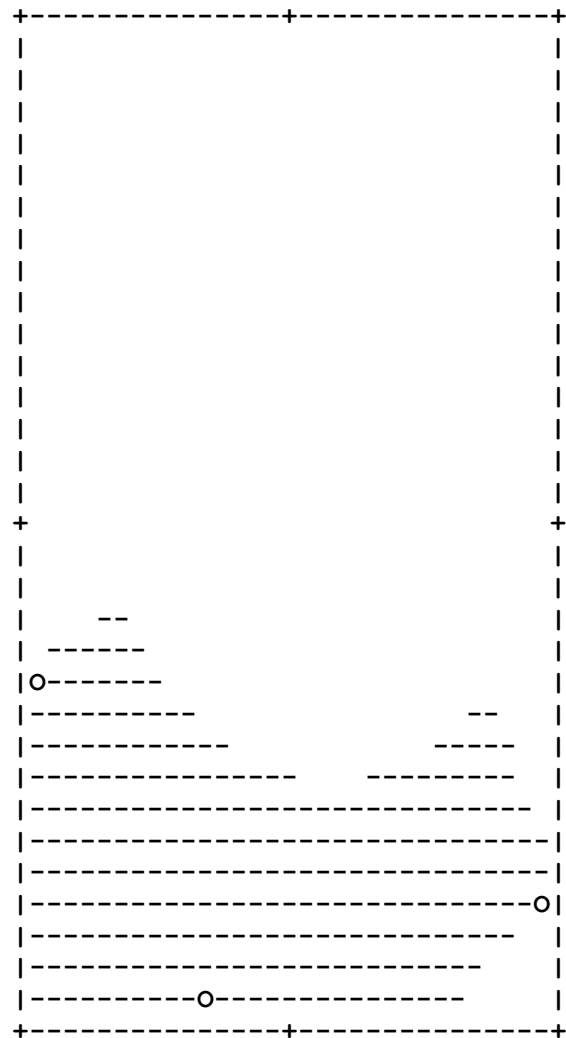
SAINT LOUIS, MO

Latitude 38-37-40

Longitude 090-14-34

Least preclusive siting

Availability of Channel 269 (X)



Point #941 at 38-32-40 090-29-34
Point #621 at 38-22-40 090-19-34
Point #004 at 38-25-40 089-59-34

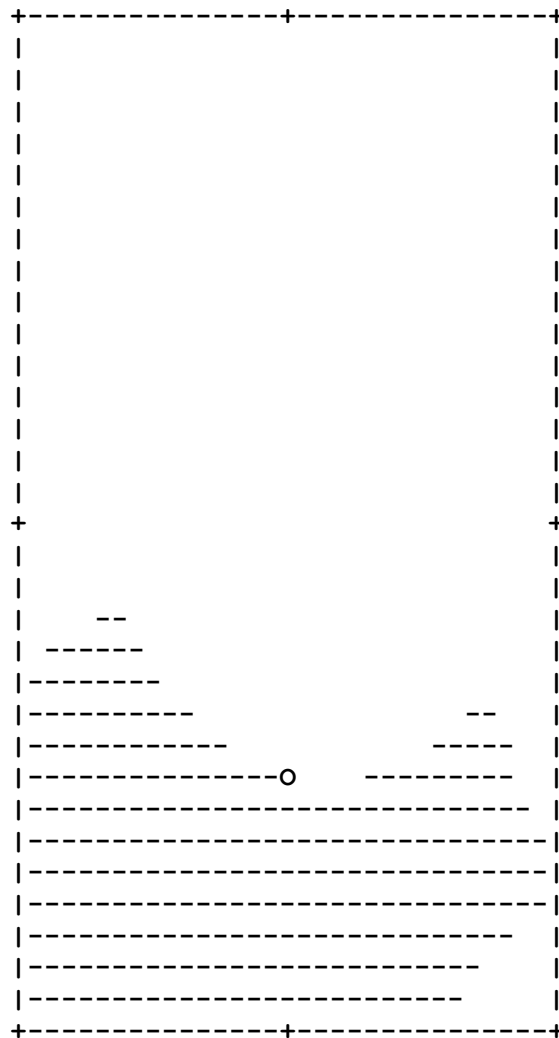
SAINT LOUIS, MO

Latitude 38-37-40

Longitude 090-14-34

Most preclusive siting

Availability of Channel 269 (X)



Point #473 at 38-29-40 090-14-34

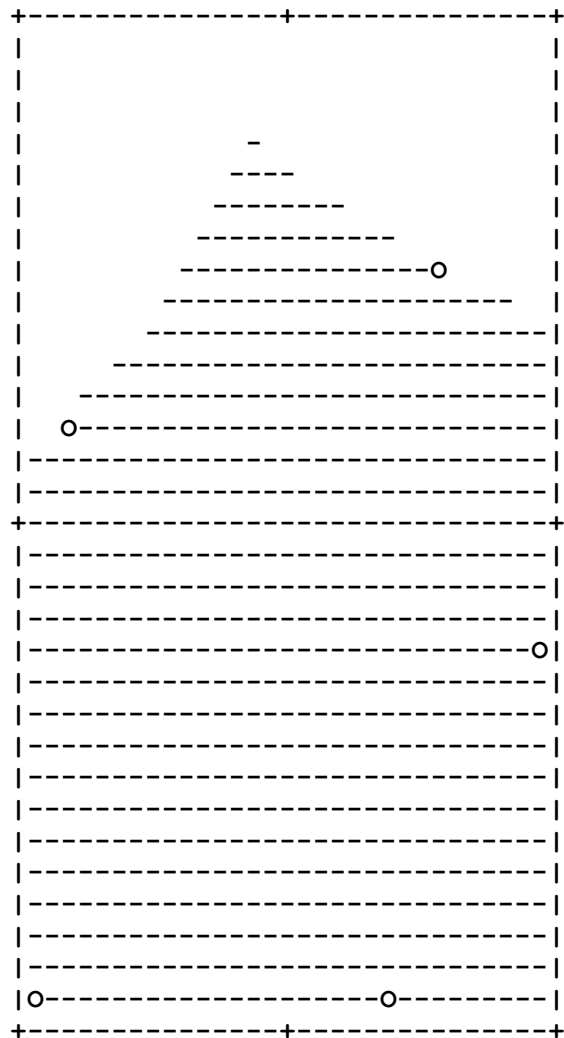
SAINT LOUIS, MO

Latitude 38-37-40

Longitude 090-14-34

Least preclusive siting

Availability of Channel 270 (X)



Point #931 at 38-22-40 090-29-34
Point #280 at 38-22-40 090-08-34
Point #012 at 38-33-40 089-59-34
Point #210 at 38-45-40 090-05-34
Point #887 at 38-40-40 090-27-34

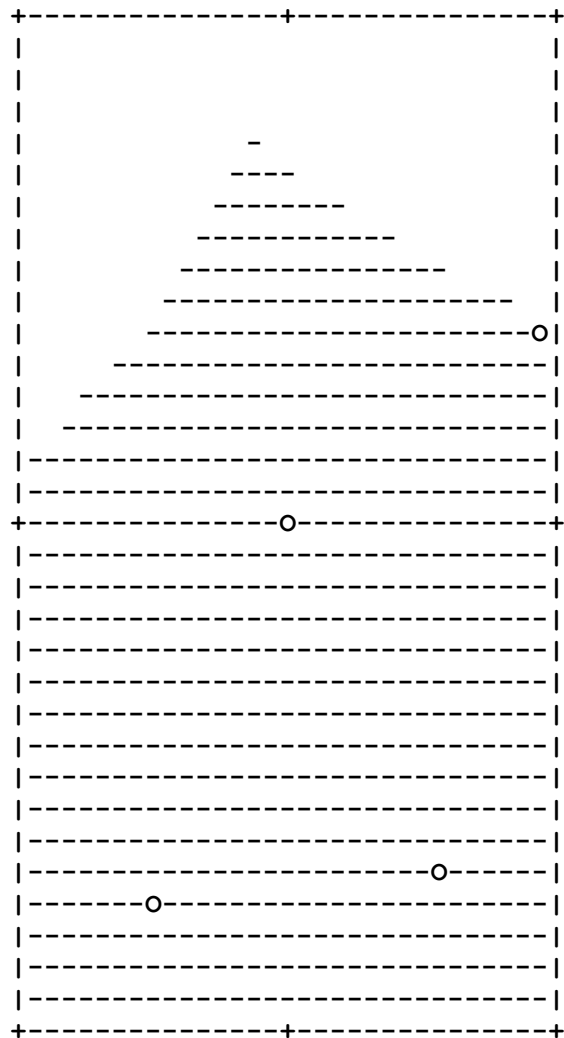
SAINT LOUIS, MO

Latitude 38-37-40

Longitude 090-14-34

Most preclusive siting

Availability of Channel 270 (X)



Point #481 at 38-37-40 090-14-34
Point #717 at 38-25-40 090-22-34
Point #191 at 38-26-40 090-05-34
Point #022 at 38-43-40 089-59-34

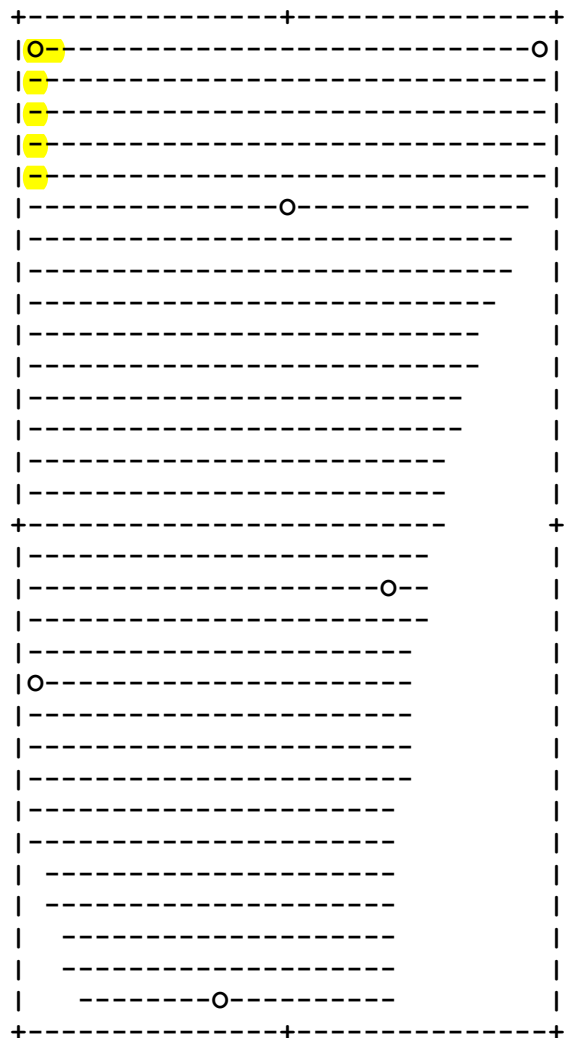
SAINT LOUIS, MO

Latitude 38-37-40

Longitude 090-14-34

Least preclusive siting

Availability of Channel 271 (X)



Point #031 at 38-52-40 089-59-34
Point #961 at 38-52-40 090-29-34
Point #491 at 38-47-40 090-14-34
Point #293 at 38-35-40 090-08-34
Point #941 at 38-32-40 090-29-34
Point #590 at 38-22-40 090-18-34

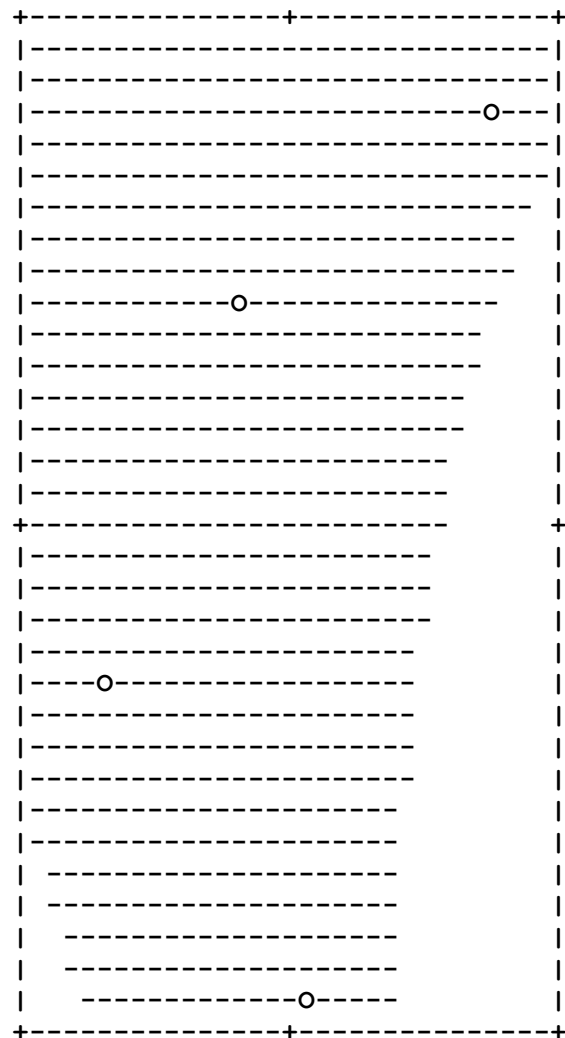
SAINT LOUIS, MO

Latitude 38-37-40

Longitude 090-14-34

Most preclusive siting

Availability of Channel 271 (X)



Point #581 at 38-44-40 090-17-34
Point #817 at 38-32-40 090-25-34
Point #122 at 38-50-40 090-02-34
Point #435 at 38-22-40 090-13-34

EXHIBIT 1A

NEW 271

BNPFT20030317GPU
Latitude: 38-49-11 N
Longitude: 090-52-05 W
ERP: 0.25 kW
Channel: 271
Frequency: 102.1 MHz
AMSL Height: 250.0 m
Elevation: 180.0 m
Horiz. Pattern: Directional

CLOSEST SAINT LOUIS CH 271 CHANNEL POINTS:

N 38-50-40 W 90-29-34 = 32.7 KM
N 38-49-50 W 90-29-34 = 32.6 KM
N 38-48-50 W 90-29-34 = 32.6 KM

ADJACENT CHANNEL PRECLUSION CIRCLE

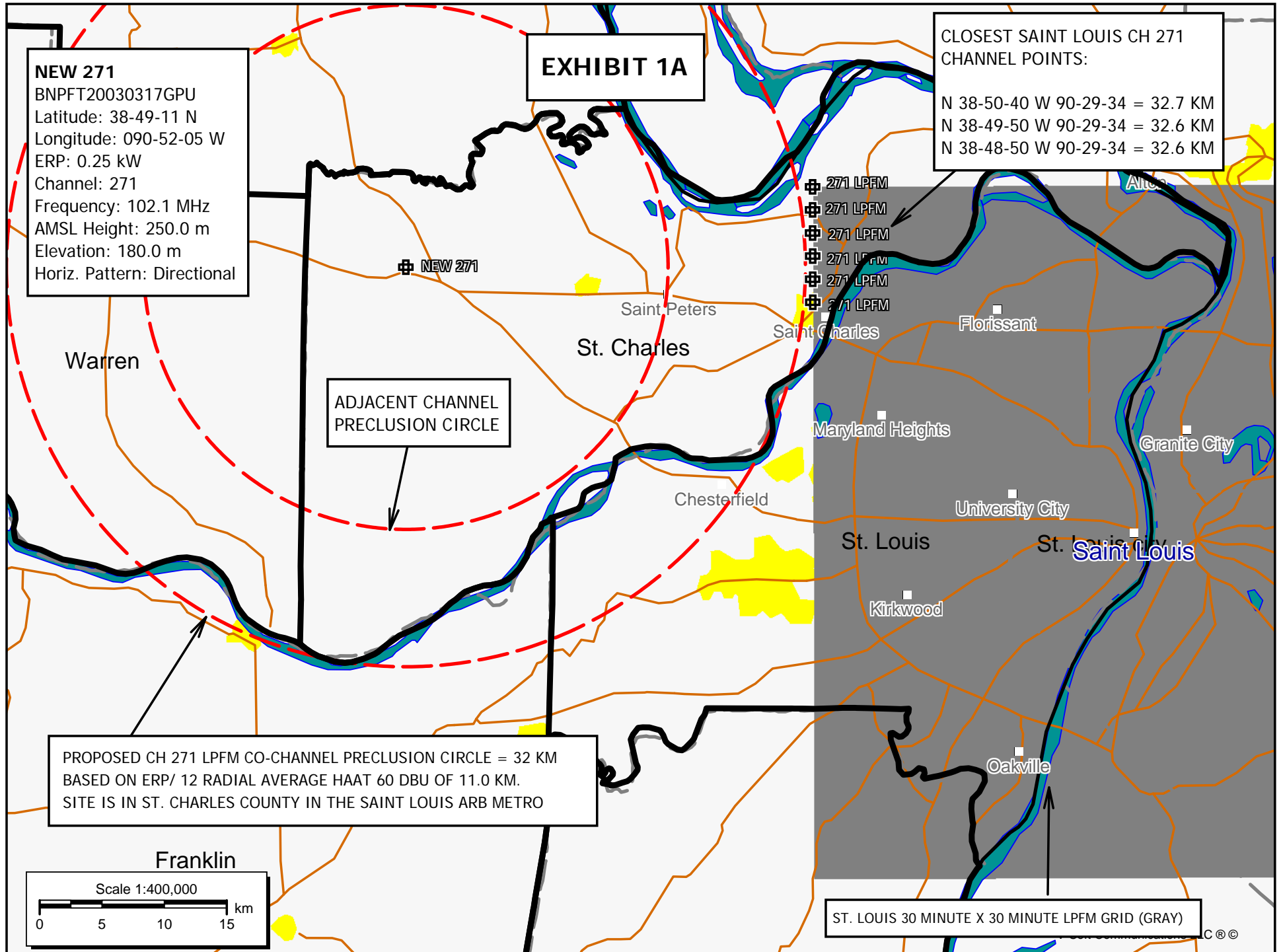
PROPOSED CH 271 LPFM CO-CHANNEL PRECLUSION CIRCLE = 32 KM
BASED ON ERP/ 12 RADIAL AVERAGE HAAT 60 DBU OF 11.0 KM.
SITE IS IN ST. CHARLES COUNTY IN THE SAINT LOUIS ARB METRO

Franklin

Scale 1:400,000



ST. LOUIS 30 MINUTE X 30 MINUTE LPFM GRID (GRAY)





Audio Division

(202)-418-2700

Distance, Bearing Between Two Sets of Coordinates

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[FCC site map](#)

Find Distance and Azimuths Between 2 Sets of Coordinates -- Results

Distance between

N Latitude 38 49 11.00, W Longitude 90 52 5.00 (Point 1)

and N Latitude 38 50 40.00, W Longitude 90 29 34.00 (Point 2)

32.702 kilometers; 20.320 miles

Azimuth from point 1 to point 2 = 85.05°

Azimuth from point 2 to point 1 = 265.28°

[Another Distance Computation?](#)

Use [Sprong](#) to find the terminal or end coordinates, given a bearing and a distance.

This program is located at <http://www.fcc.gov/fcc-bin/audio/distance.html>

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Find Distance and Azimuths Between 2 Sets of Coordinates -- Results

Distance between

N Latitude 38 49 11.00, W Longitude 90 52 5.00 (Point 1)

and N Latitude 38 49 40.00, W Longitude 90 29 34.00 (Point 2)

32.603 kilometers; 20.259 miles

Azimuth from point 1 to point 2 = 88.30°

Azimuth from point 2 to point 1 = 268.54°

[Another Distance Computation?](#)

Use [Sprong](#) to find the terminal or end coordinates, given a bearing and a distance.

This program is located at <http://www.fcc.gov/fcc-bin/audio/distance.html>

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Find Distance and Azimuths Between 2 Sets of Coordinates -- Results

Distance between

N Latitude 38 49 11.00, W Longitude 90 52 5.00 (Point 1)

and N Latitude 38 48 40.00, W Longitude 90 29 34.00 (Point 2)

32.608 kilometers; 20.262 miles

Azimuth from point 1 to point 2 = 91.57°

Azimuth from point 2 to point 1 = 271.80°

[Another Distance Computation?](#)

Use [Sprong](#) to find the terminal or end coordinates, given a bearing and a distance.

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EXHIBIT 1B **SAINT PETERS LPFM SITE STUDY**

REFERENCE				Class L1 Preclusions		DISPLAY DATES	
38 49 11.0 N.				Current	Spacings	DATA	03-30-13
90 52 05.0 W.						SEARCH	03-30-13
Call	Channel	Location		Azi	Dist	FCC	Margin
--- Channel 269 101.7 MHz. ---							
KXQX	LIC-N	269A	Elsberry	MO	7.0	31.6	66.5 -34.9
--- Channel 270 101.9 MHz. ---							
KXQX	LIC-N	269A	Elsberry	MO	7.0	31.6	55.5 -23.9
649143	APP	270D	Saint Peters	MO	95.8	18.9	25.5 -6.6
--- Channel 271 102.1 MHz. ---							
KEZK-FM	LIC	273C0	St. Louis	MO	119.9	54.5	83.5 -29.0
--- Channel 272 102.3 MHz. ---							
KEZK-FM	LIC	273C0	St. Louis	MO	119.9	54.5	110.5 -56.0
--- Channel 273 102.5 MHz. ---							
KEZK-FM	LIC	273C0	St. Louis	MO	119.9	54.5	121.5 -67.0

All LPFM channels impacted by the proposed channel 271 facility are precluded by other facilities (highlighted in yellow) based on protection of 2nd adjacent channels. If 2nd adjacent channels are excluded, the FCC LPFM channel finder tool shows eight other LPFM channels available at the proposed site.



Audio Division

Low Power FM (LPFM) Channel Finder

(202)-418-2700

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[FCC site map](#)

Sat Mar 30 16:53:12 2013

EXCLUDES second-adjacent channel spacings
EXCLUDES intermediate frequency (I.F.) spacings

Input options:

Latitude, Longitude: 38° 49' 11", 90 52' 5"

Google Map: [5.6 km radius \(approximate 60 dBu service contour coverage\)](#)



CONDITIONAL. The requested latitude and longitude meet the PROPOSED LPFM spacing requirements for one or more second adjacent and/or intermediate frequency (I.F.) channels.

These proposed spacing rules are not yet in effect.

Channels Available for LPFM LP100 Stations **[Channels 201 to 300, [corresponding to 88.1 to 107.9 MHz](#)]**

Channel 220	----	91.9 MHz
Channel 224	----	92.7 MHz
Channel 225	----	92.9 MHz
Channel 236	----	95.1 MHz
Channel 240	----	95.9 MHz
Channel 275	----	102.9 MHz
Channel 287	----	105.3 MHz
Channel 291	----	106.1 MHz