

This minor amendment specifies a change to a new site, a change in the ERP, height, and a change from CH 263 to CH 262.

LPFM Preclusion Study

GRID TEST - Kansas City, KS

The proposed translator site is within 39 km of a Top 50 Spectrum Limited (SL) Market Grid (Kansas City, KS). The below study demonstrates that no LPFM channel opportunity on CH 261 – 263 will be precluded within the Kansas City SL Market Grid.

Kansas City, KS

39-04-35 / 94-33-19

Grid Size 31 x 31

LPFM 100 Watts at 30 m HAAT

CO CH and 1st adjacent CH (include CP & APP) and FM translators protected
2nd & 3rd adjacent CH, I.F., and Auction 83 translator apps not protected

Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	0	240	0	260	0	280	45
201	0	221	0	241	292	261	306	281	0
202	0	222	0	242	0	262	207	282	0
203	0	223	0	243	0	263	124	283	0
204	0	224	38	244	0	264	365	284	961
205	28	225	0	245	367	265	0	285	0
206	0	226	0	246	0	266	0	286	0
207	0	227	0	247	0	267	0	287	0
208	0	228	0	248	0	268	961	288	0
209	0	229	0	249	519	269	961	289	0
210	0	230	0	250	0	270	0	290	0
211	0	231	0	251	0	271	0	291	27
212	0	232	0	252	0	272	0	292	0
213	0	233	421	253	743	273	7	293	0
214	0	234	0	254	0	274	85	294	0
215	0	235	0	255	0	275	0	295	245
216	0	236	0	256	0	276	0	296	0
217	0	237	837	257	492	277	0	297	0
218	0	238	0	258	0	278	0	298	0
219	0	239	0	259	0	279	0	299	116
								300	7
Total	8154								

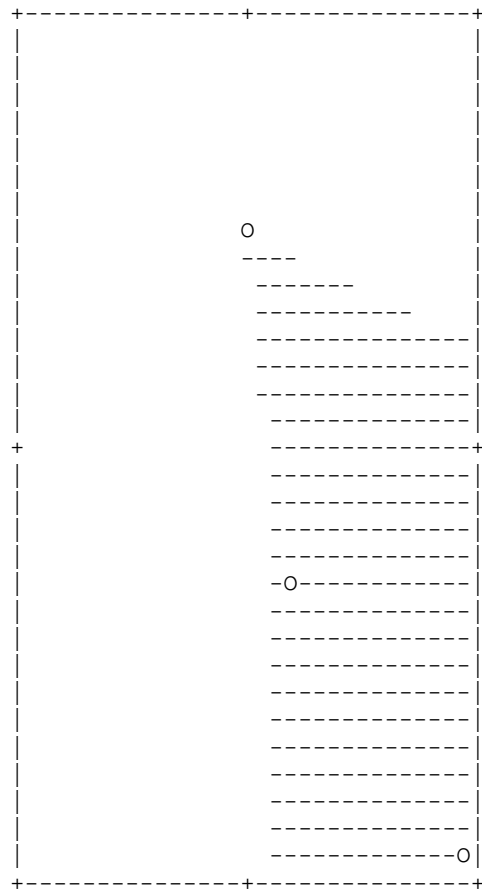
Yellow Highlighting shows CO and 1st adjacent channels to the proposed facility.

Total allotments, least preclusive spacing: 89
Total allotments, most preclusive spacing: 68

LPFM Preclusion Study

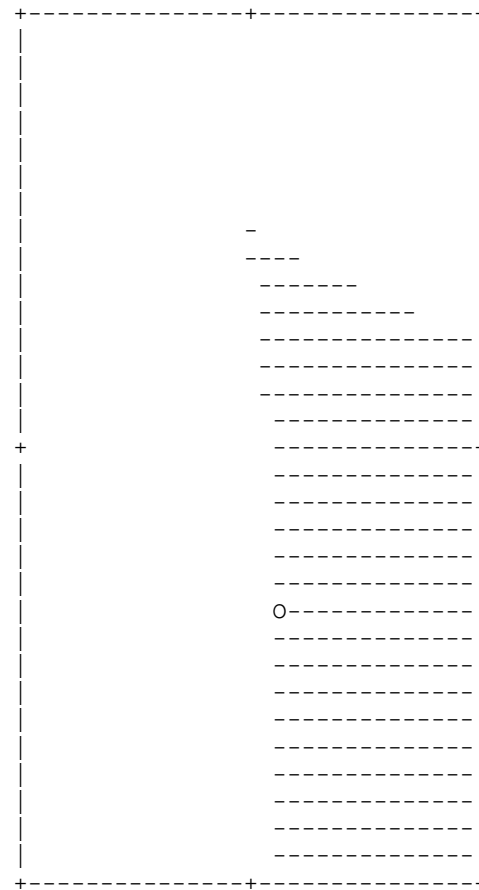
GRID TEST - Kansas City, KS

Kansas City, KS
 Latitude 39-04-35
 Longitude 094-33-19
 Least preclusive siting
 Availability of Channel 261 (X)



Point #489 at 39-12-35 094-33-19
 Point #001 at 38-49-35 094-18-19
 Point #383 at 38-59-35 094-30-19

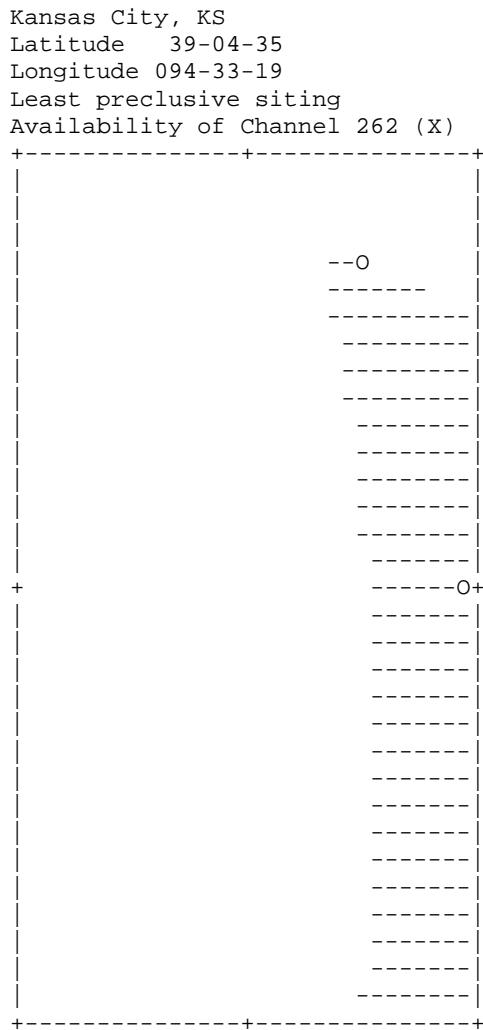
Kansas City, KS
 Latitude 39-04-35
 Longitude 094-33-19
 Most preclusive siting
 Availability of Channel 261 (X)



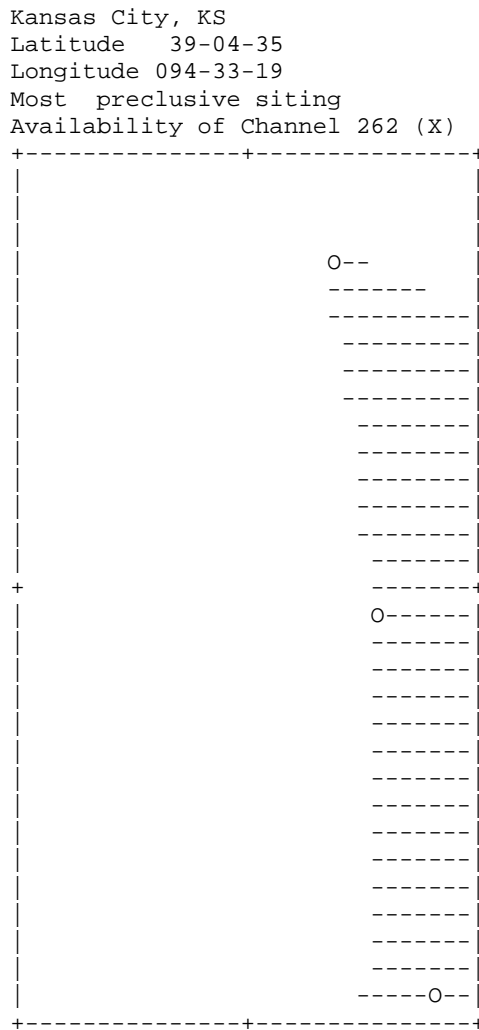
Point #413 at 38-58-35 094-31-19

LPFM Preclusion Study

GRID TEST - Kansas City, KS



Point #245 at 39-16-35 094-25-19
 Point #016 at 39-04-35 094-18-19

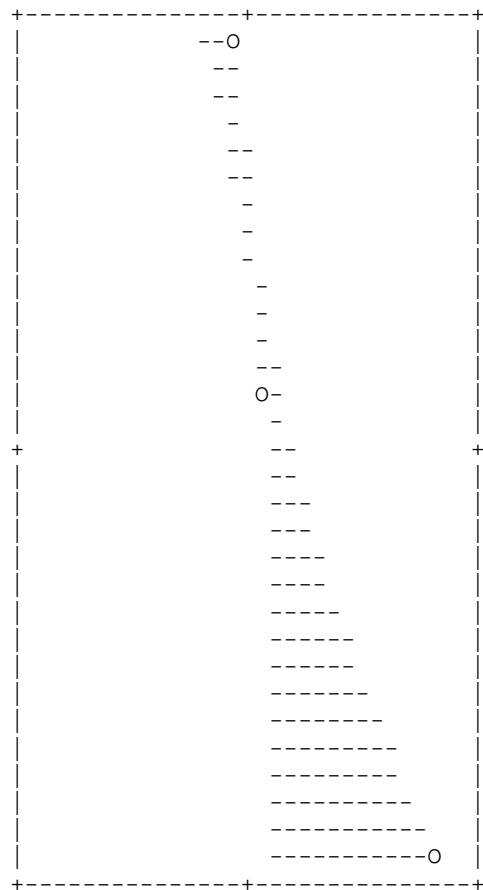


Point #201 at 39-03-35 094-24-19
 Point #063 at 38-49-35 094-20-19
 Point #307 at 39-16-35 094-27-19

LPFM Preclusion Study

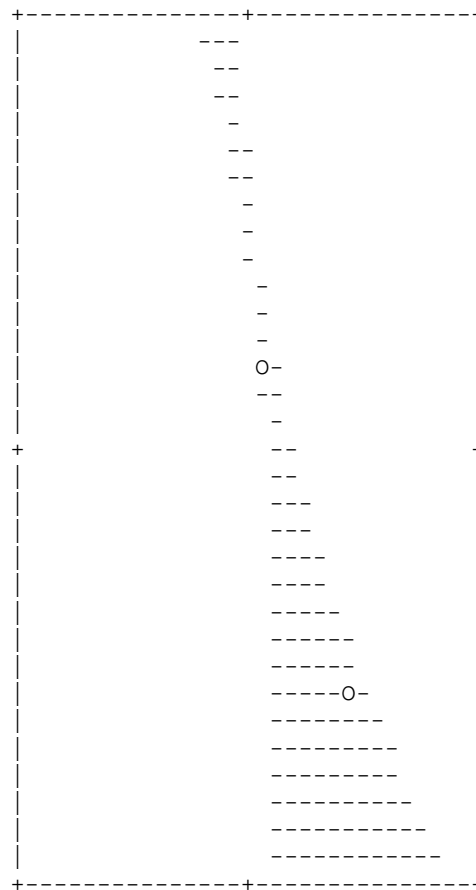
GRID TEST - Kansas City, KS

Kansas City, KS
 Latitude 39-04-35
 Longitude 094-33-19
 Least preclusive siting
 Availability of Channel 263 (X)



Point #527 at 39-19-35 094-34-19
 Point #452 at 39-06-35 094-32-19
 Point #063 at 38-49-35 094-20-19

Kansas City, KS
 Latitude 39-04-35
 Longitude 094-33-19
 Most preclusive siting
 Availability of Channel 263 (X)



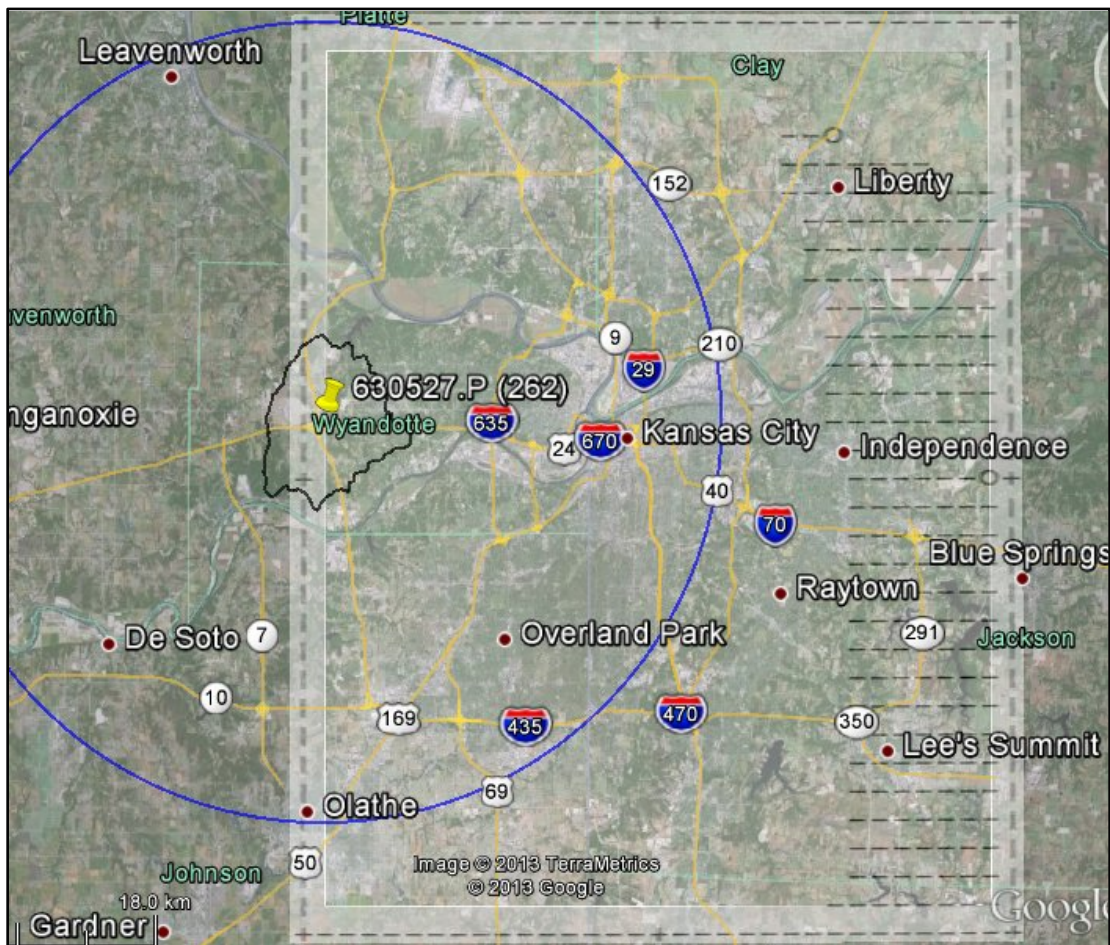
Point #255 at 38-55-35 094-26-19
 Point #453 at 39-07-35 094-32-19

LPFM Preclusion Study

GRID TEST - Kansas City, KS

The proposed translator will operate on CH 262 with .016 kW ERP (non-da) at an antenna COR AMSL of 322 meters. For LPFM study purposes, the proposed translator's 60 dBu maximum distance in any direction is 6.0 km (104 degrees). The below maps show the 60 dBu contour of the proposed FM and the pertinent Section 73.807 LPFM protection distances for co-channel 262 and 1st adjacent channels 261 & 263. Also shown on the maps are the LPFM protected points aligned to the Kansas City grid. There are no LPFM protected points within the LPFM protection distance for co-channel 262 or 1st adjacent channels 261/263, therefore the proposed FM will not preclude any LPFM opportunities within the Kansas City grid.

Proposed translator 60 dBu (black) and co-channel LPFM protection distance of 26 km (blue)



GRID TEST - Kansas City, KS

[illegible]

LPFM Preclusion Study

SITE TEST - Kansas City, KS

A Site Test is also required to determine the availability of LPFM opportunities at the proposed site. Although the proposed FM translator will preclude the use of CH 261 – 263 at the site, no LPFM opportunity on CH 261 – 263 exists at the site due to short spacing to KDVV (CP), CH 262C, Topeka, KS. However, the Site Test included in this exhibit shows that there are multiple additional LPFM opportunities available at the proposed site.

Kansas City, KS
39-06-34 / 94-48-29
Grid Size 31 x 31

LPFM 100 Watts at 30m HAAT

CO CH and 1st adjacent CH (include CP & APP) and FM translators protected
2nd & 3rd adjacent CH, I.F., and Auction 83 translator apps not protected

Yellow Highlighting shows Co & 1st adjacent channels to the proposed translator.
Green Highlighting shows additional channels available to LPFM applicants at the proposed site.

Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail	Chan	Avail
200	0	220	0	240	0	260	0	280	70
201	0	221	0	241	725	261	2	281	0
202	0	222	0	242	0	262	0	282	0
203	0	223	0	243	0	263	23	283	0
204	0	224	4	244	0	264	809	284	961
205	195	225	0	245	21	265	0	285	0
206	0	226	0	246	0	266	0	286	0
207	0	227	0	247	0	267	0	287	0
208	0	228	0	248	0	268	961	288	0
209	0	229	13	249	944	269	961	289	0
210	0	230	0	250	0	270	0	290	0
211	0	231	0	251	0	271	0	291	0
212	0	232	0	252	0	272	0	292	0
213	2	233	3	253	442	273	315	293	0
214	0	234	0	254	0	274	183	294	0
215	0	235	0	255	0	275	1	295	0
216	0	236	0	256	0	276	0	296	0
217	0	237	960	257	434	277	0	297	0
218	0	238	0	258	0	278	0	298	0
219	0	239	0	259	0	279	68	299	65
								300	40

Total 8202

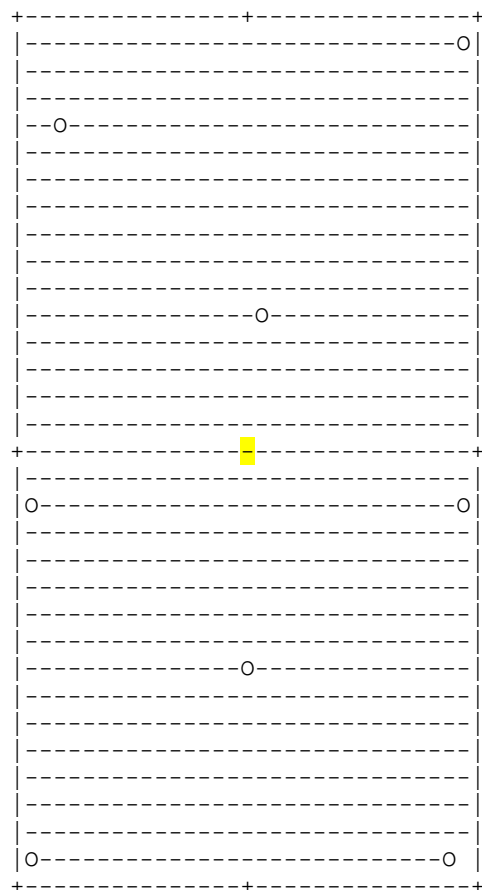
Total allotments, least preclusive spacing: 84
Total allotments, most preclusive spacing: 58

LPFM Preclusion Study

SITE TEST - Kansas City, KS

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

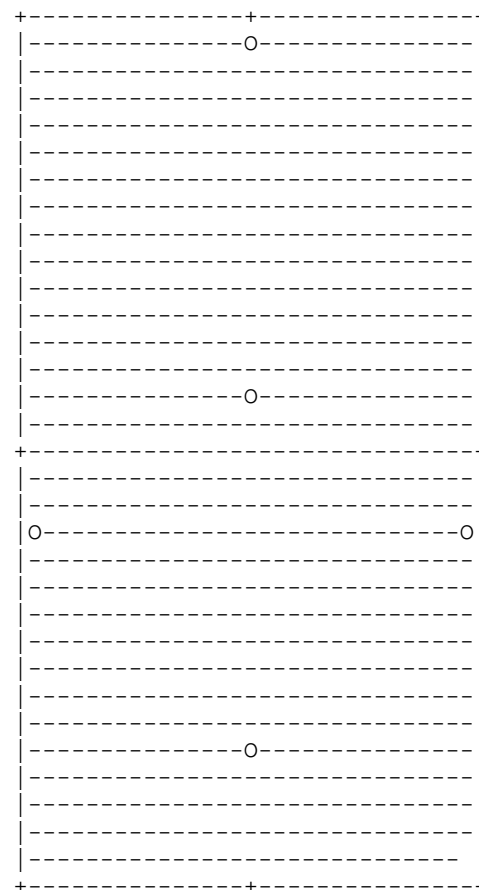
Least preclusive siting
Availability of Channel 237 (X)



Point #931 at 38-51-34 095-03-29
Point #032 at 38-51-34 094-34-29
Point #031 at 39-21-34 094-33-29
Point #014 at 39-04-34 094-33-29
Point #473 at 38-58-34 094-48-29
Point #944 at 39-04-34 095-03-29
Point #455 at 39-11-34 094-47-29
Point #896 at 39-18-34 095-01-29

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

Most preclusive siting
Availability of Channel 237 (X)



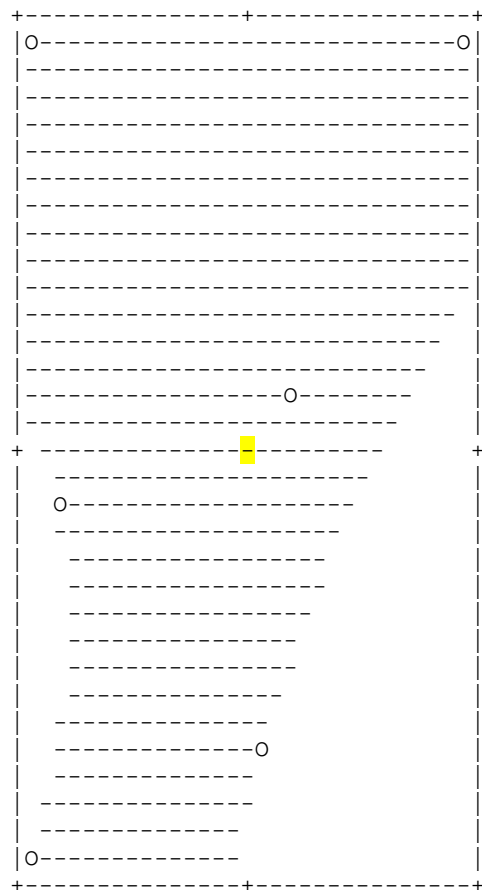
Point #483 at 39-08-34 094-48-29
Point #470 at 38-55-34 094-48-29
Point #496 at 39-21-34 094-48-29
Point #013 at 39-03-34 094-33-29
Point #943 at 39-03-34 095-03-29

LPFM Preclusion Study

SITE TEST - Kansas City, KS

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

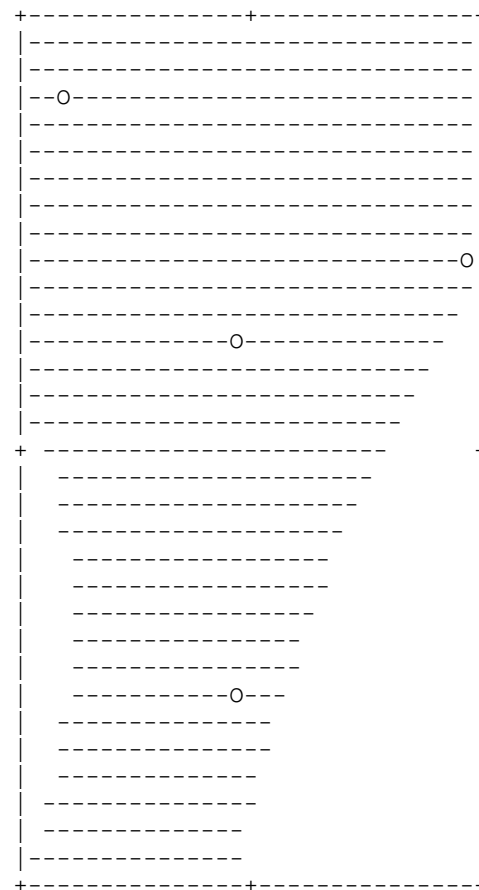
Least preclusive siting
Availability of Channel 241 (X)



Point #931 at 38-51-34 095-03-29
Point #439 at 38-55-34 094-47-29
Point #882 at 39-04-34 095-01-29
Point #961 at 39-21-34 095-03-29
Point #031 at 39-21-34 094-33-29
Point #390 at 39-08-34 094-45-29

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

Most preclusive siting
Availability of Channel 241 (X)



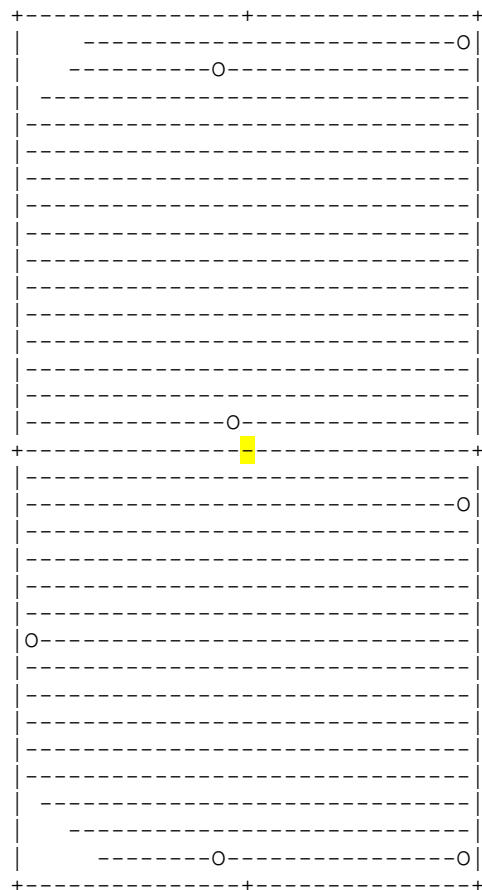
Point #516 at 39-10-34 094-49-29
Point #503 at 38-57-34 094-49-29
Point #023 at 39-13-34 094-33-29
Point #897 at 39-19-34 095-01-29

LPFM Preclusion Study

SITE TEST - Kansas City, KS

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

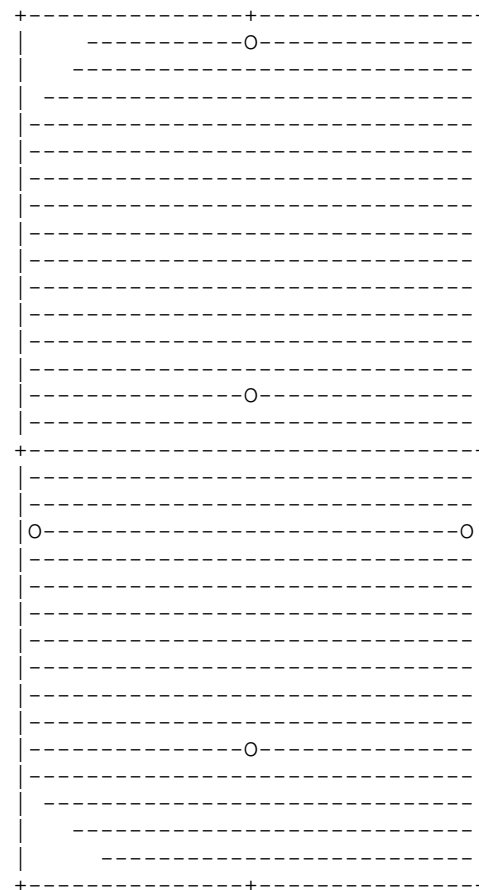
Least preclusive siting
Availability of Channel 249 (X)



Point #001 at 38-51-34 094-33-29
Point #031 at 39-21-34 094-33-29
Point #014 at 39-04-34 094-33-29
Point #528 at 38-51-34 094-50-29
Point #939 at 38-59-34 095-03-29
Point #513 at 39-07-34 094-49-29
Point #557 at 39-20-34 094-50-29

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

Most preclusive siting
Availability of Channel 249 (X)



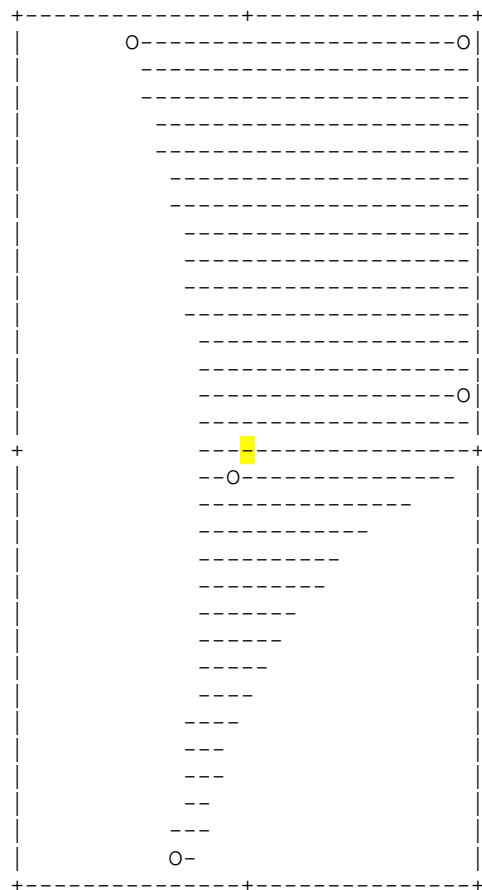
Point #483 at 39-08-34 094-48-29
Point #470 at 38-55-34 094-48-29
Point #496 at 39-21-34 094-48-29
Point #013 at 39-03-34 094-33-29
Point #943 at 39-03-34 095-03-29

LPFM Preclusion Study

SITE TEST - Kansas City, KS

Kansas City, KS
 Latitude 39-06-34
 Longitude 094-48-29

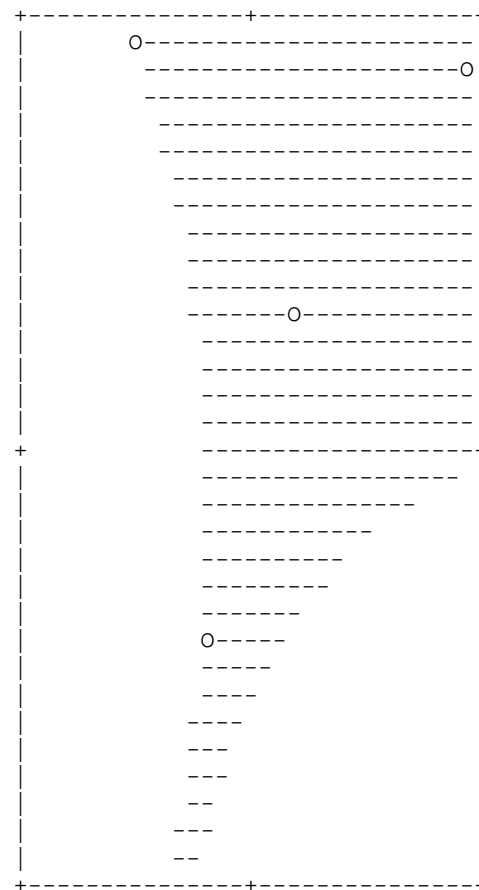
Least preclusive siting
 Availability of Channel 257 (X)



Point #621 at 38-51-34 094-53-29
 Point #744 at 39-21-34 094-56-29
 Point #031 at 39-21-34 094-33-29
 Point #018 at 39-08-34 094-33-29
 Point #511 at 39-05-34 094-49-29

Kansas City, KS
 Latitude 39-06-34
 Longitude 094-48-29

Most preclusive siting
 Availability of Channel 257 (X)



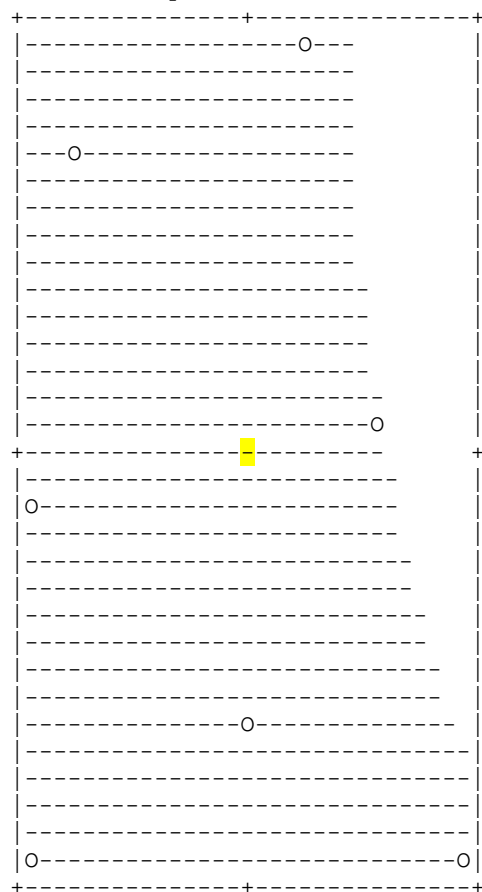
Point #393 at 39-11-34 094-45-29
 Point #567 at 38-59-34 094-51-29
 Point #030 at 39-20-34 094-33-29
 Point #744 at 39-21-34 094-56-29

LPFM Preclusion Study

SITE TEST - Kansas City, KS

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

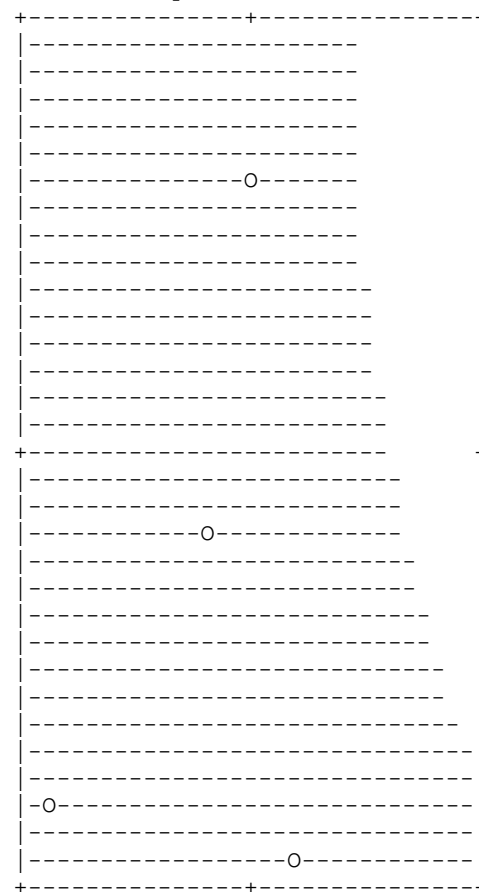
Least preclusive siting
Availability of Channel 264 (X)



Point #001 at 38-51-34 094-33-29
Point #931 at 38-51-34 095-03-29
Point #471 at 38-56-34 094-48-29
Point #944 at 39-04-34 095-03-29
Point #203 at 39-07-34 094-39-29
Point #372 at 39-21-34 094-44-29
Point #864 at 39-17-34 095-00-29

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

Most preclusive siting
Availability of Channel 264 (X)



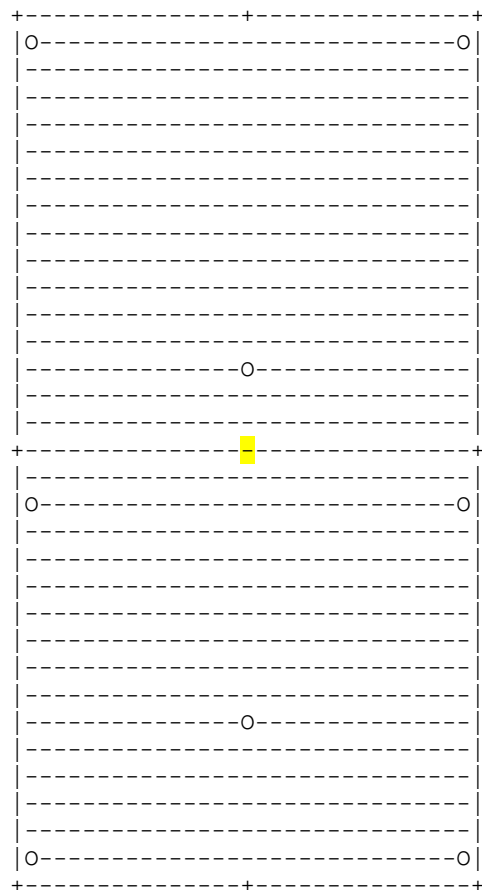
Point #571 at 39-03-34 094-51-29
Point #491 at 39-16-34 094-48-29
Point #373 at 38-51-34 094-45-29
Point #902 at 38-53-34 095-02-29

LPFM Preclusion Study

SITE TEST - Kansas City, KS

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

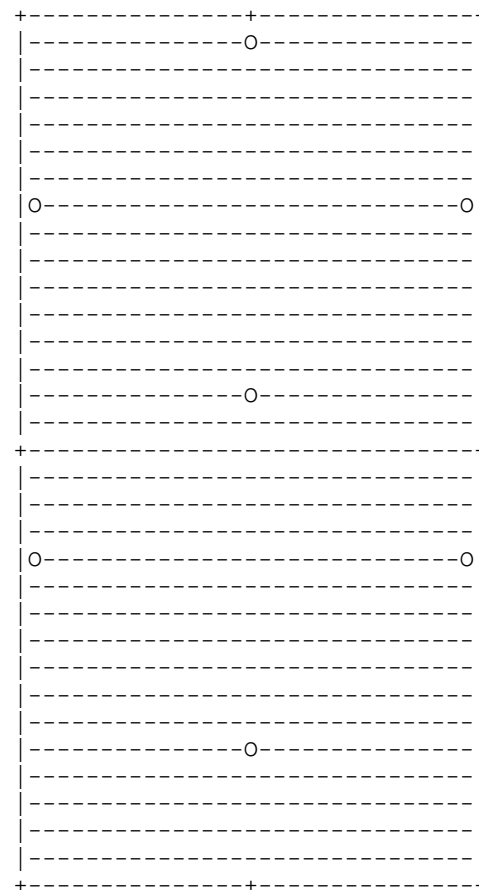
Least preclusive siting
Availability of Channel 268 (X)



Point #001 at 38-51-34 094-33-29
Point #931 at 38-51-34 095-03-29
Point #031 at 39-21-34 094-33-29
Point #961 at 39-21-34 095-03-29
Point #014 at 39-04-34 094-33-29
Point #944 at 39-04-34 095-03-29
Point #471 at 38-56-34 094-48-29
Point #484 at 39-09-34 094-48-29

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

Most preclusive siting
Availability of Channel 268 (X)



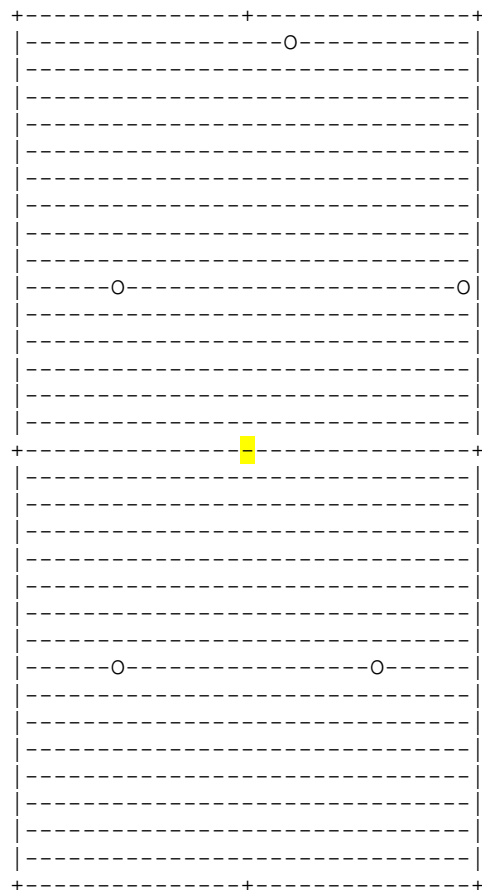
Point #483 at 39-08-34 094-48-29
Point #470 at 38-55-34 094-48-29
Point #496 at 39-21-34 094-48-29
Point #012 at 39-02-34 094-33-29
Point #942 at 39-02-34 095-03-29
Point #025 at 39-15-34 094-33-29
Point #955 at 39-15-34 095-03-29

LPFM Preclusion Study

SITE TEST - Kansas City, KS

Kansas City, KS
 Latitude 39-06-34
 Longitude 094-48-29

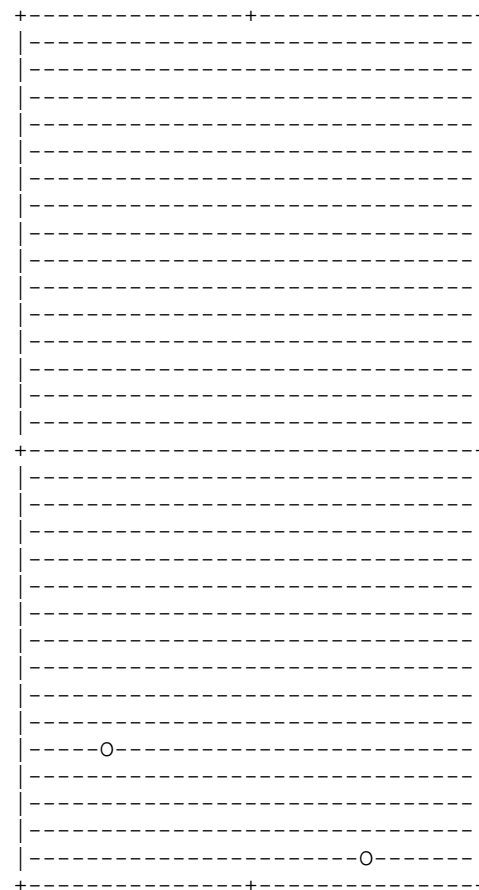
Least preclusive siting
 Availability of Channel 269 (X)



Point #194 at 38-58-34 094-39-29
 Point #752 at 38-58-34 094-57-29
 Point #022 at 39-12-34 094-33-29
 Point #403 at 39-21-34 094-45-29
 Point #766 at 39-12-34 094-57-29

Kansas City, KS
 Latitude 39-06-34
 Longitude 094-48-29

Most preclusive siting
 Availability of Channel 269 (X)



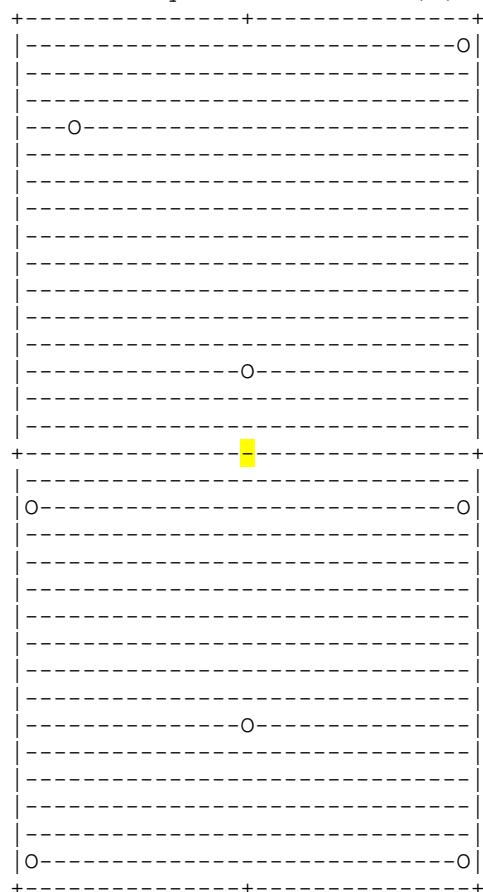
Point #218 at 38-51-34 094-40-29
 Point #780 at 38-55-34 094-58-29

LPFM Preclusion Study

SITE TEST - Kansas City, KS

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

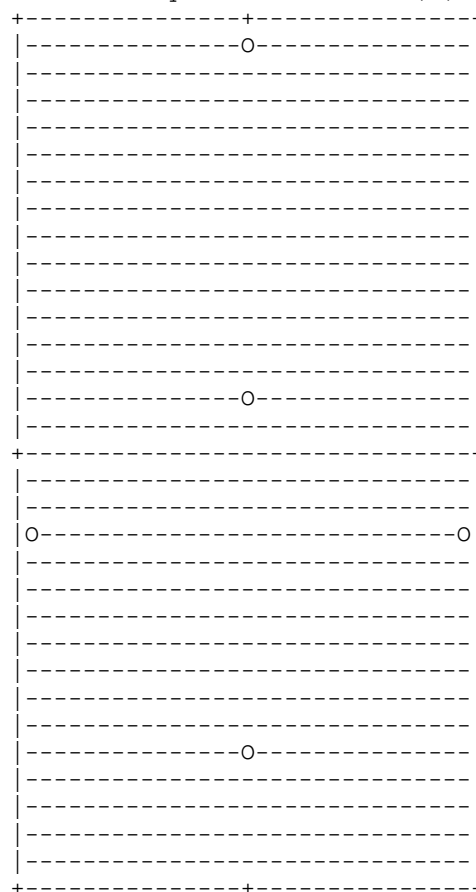
Least preclusive siting
Availability of Channel 284 (X)



Point #001 at 38-51-34 094-33-29
Point #931 at 38-51-34 095-03-29
Point #471 at 38-56-34 094-48-29
Point #014 at 39-04-34 094-33-29
Point #031 at 39-21-34 094-33-29
Point #944 at 39-04-34 095-03-29
Point #484 at 39-09-34 094-48-29
Point #865 at 39-18-34 095-00-29

Kansas City, KS
Latitude 39-06-34
Longitude 094-48-29

Most preclusive siting
Availability of Channel 284 (X)



Point #483 at 39-08-34 094-48-29
Point #470 at 38-55-34 094-48-29
Point #496 at 39-21-34 094-48-29
Point #013 at 39-03-34 094-33-29
Point #943 at 39-03-34 095-03-29