

**Educational Media Foundation**

New, San Francisco, CA Facility ID 147473  
BNPFT-20030314AZB

**EXHIBIT 1**

August 2013

This application specifies the minor amendment change to Section III-A-Engineering Tech Box as follows:

2. Primary Station to KLVN, Livermore, CA
3. Delivery Method to Off-air

**Preclusion Study Analysis**

The proposed FM Translator site is within 39 km of two Spectrum Limited Market Grids, San Francisco, CA , and San Jose, CA. This preclusion study includes a Grid Test for both of these markets. In addition, as the proposed FM Translator site is located outside the adjoining San Jose market grid, a Site Test for the San Jose market is also included.

The following pages of this exhibit contain the Grid Test demonstrating that no LPFM channel opportunity will be precluded by the proposed FM Translator application. The Site Test demonstrates that no "last single remaining" LPFM opportunity is precluded from the proposed FM Translator application site.

**GRID TEST - San Francisco, CA**

Yellow Highlighting shows Co & 1<sup>st</sup> adj channels to the proposed facility.

San Francisco, CA  
Latitude 37-46-30  
Longitude 122-25-06  
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	0	240	0	260	0	280	0
201	0	221	0	241	245	261	6	281	0
202	0	222	0	242	0	262	2	282	0
203	0	223	0	243	0	263	0	283	0
204	0	224	0	244	0	264	0	284	0
205	0	225	0	245	329	265	1	285	29
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	0	288	0
209	0	229	20	249	0	269	0	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	0	233	34	253	0	273	129	293	34
214	0	234	0	254	0	274	0	294	0
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	0	276	0	296	0
217	0	237	4	257	6	277	79	297	0
218	0	238	0	258	0	278	0	298	0
219	0	239	0	259	0	279	0	299	0
								300	0

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Total 918

Total allotments, least preclusive spacing: 23  
Total allotments, most preclusive spacing: 19

**GRID TEST - San Jose, CA (San Francisco, CA adjacent mkt)**

Yellow Highlighting shows Co & 1<sup>st</sup> adj channels to the proposed facility.

San Jose, CA  
Latitude 37-20-07  
Longitude 121-53-38  
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	0	240	0	260	0	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	0
204	0	224	136	244	0	264	1	284	0
205	0	225	273	245	107	265	0	285	0
206	0	226	0	246	0	266	0	286	0
207	0	227	0	247	3	267	0	287	0
208	0	228	0	248	0	268	1	288	0
209	0	229	0	249	0	269	6	289	0
210	0	230	0	250	0	270	30	290	0
211	0	231	0	251	0	271	3	291	0
212	0	232	0	252	0	272	0	292	0
213	0	233	0	253	0	273	0	293	0
214	0	234	0	254	0	274	0	294	0
215	0	235	0	255	0	275	0	295	3
216	0	236	0	256	0	276	0	296	0
217	0	237	0	257	0	277	0	297	0
218	0	238	0	258	0	278	0	298	0
219	0	239	0	259	0	279	0	299	0
								300	0

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Total 563

Total allotments, least preclusive spacing: 14  
Total allotments, most preclusive spacing: 11

**SITE TEST - San Jose, CA (San Francisco, CA adjacent mkt)**

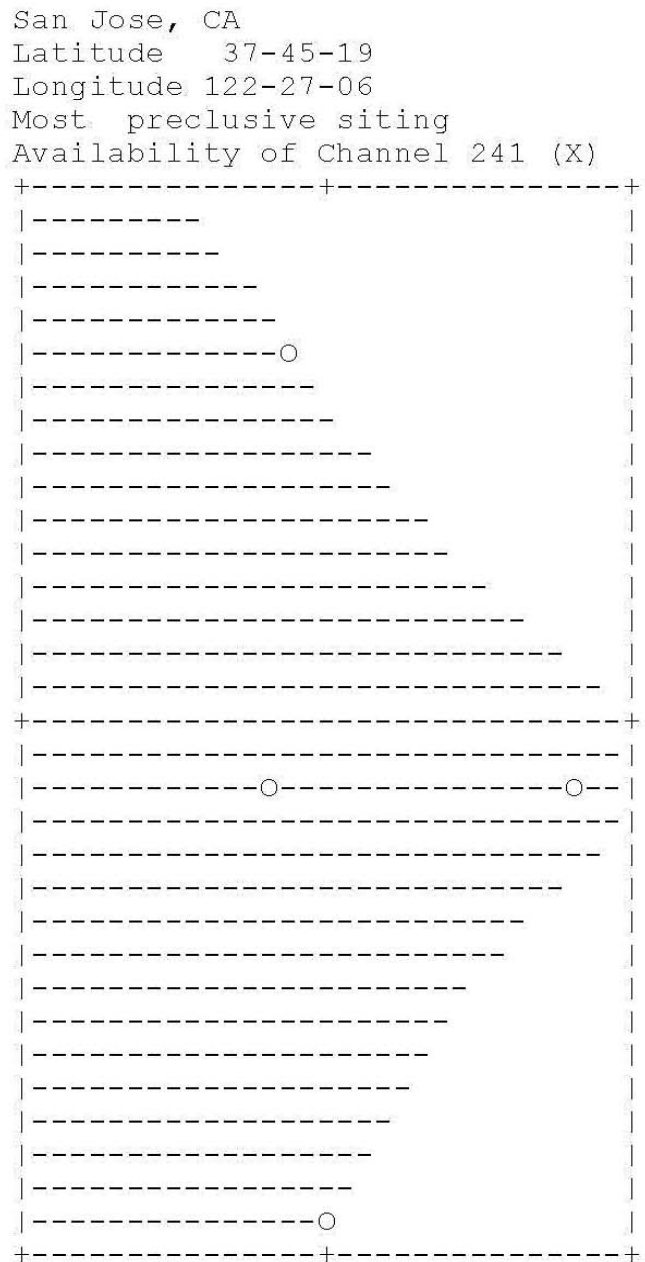
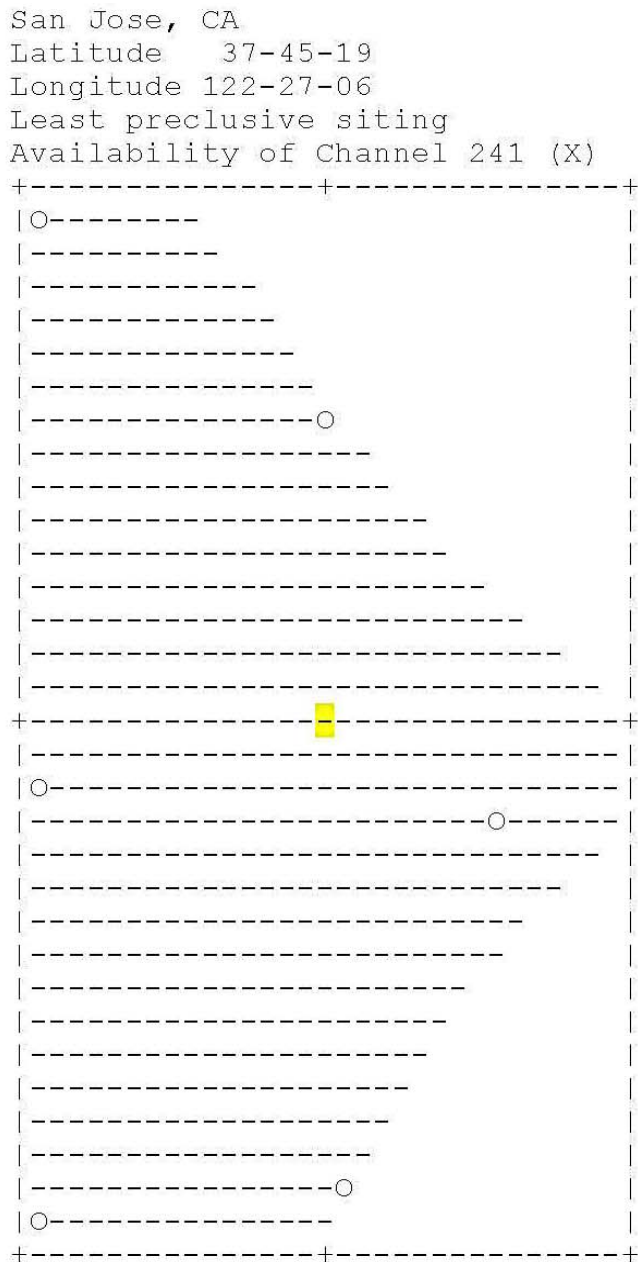
Green Highlighting shows additional channels available to LPFM applicants at the proposed site.

San Jose, CA  
Latitude 37-45-19  
Longitude 122-27-06  
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	0	240	0	260	0	280	0
201	0	221	0	241	666	261	67	281	2
202	0	222	0	242	0	262	12	282	0
203	0	223	0	243	0	263	0	283	0
204	0	224	0	244	0	264	0	284	0
205	0	225	0	245	849	265	7	285	114
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	0	288	0
209	0	229	106	249	40	269	43	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	0	233	35	253	0	273	477	293	35
214	0	234	0	254	0	274	0	294	0
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	0	276	0	296	0
217	0	237	151	257	102	277	226	297	0
218	0	238	0	258	0	278	0	298	0
219	0	239	0	259	0	279	0	299	0
								300	0

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Total 2932

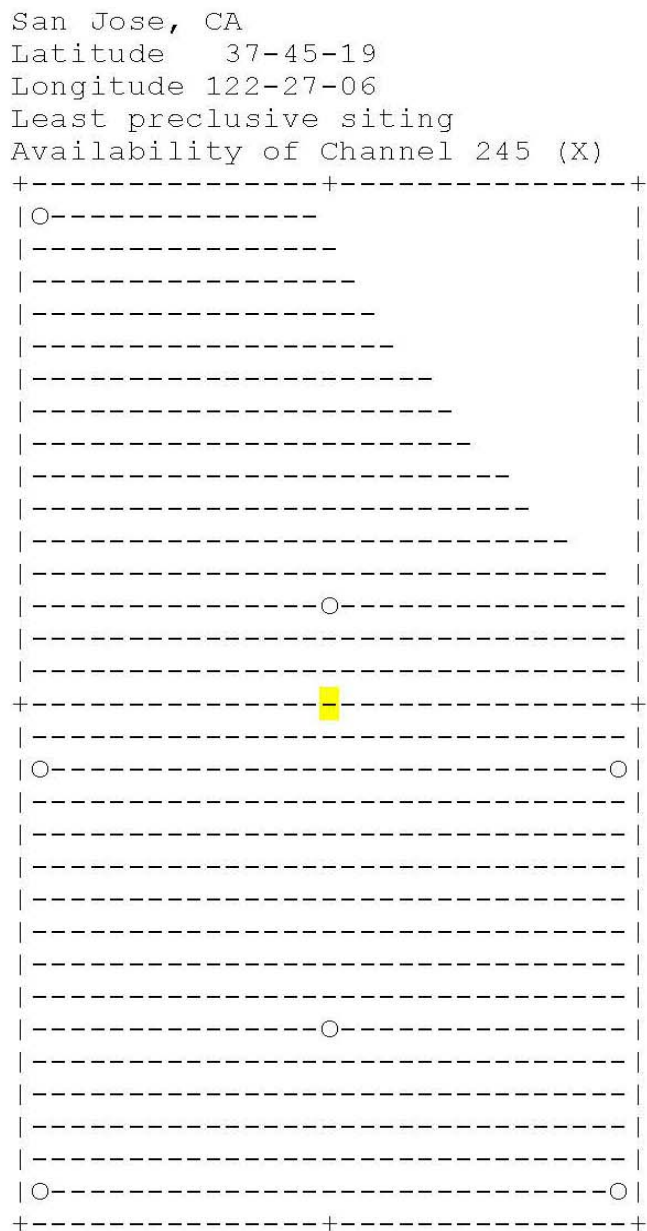
Total allotments, least preclusive spacing: 41  
Total allotments, most preclusive spacing: 30



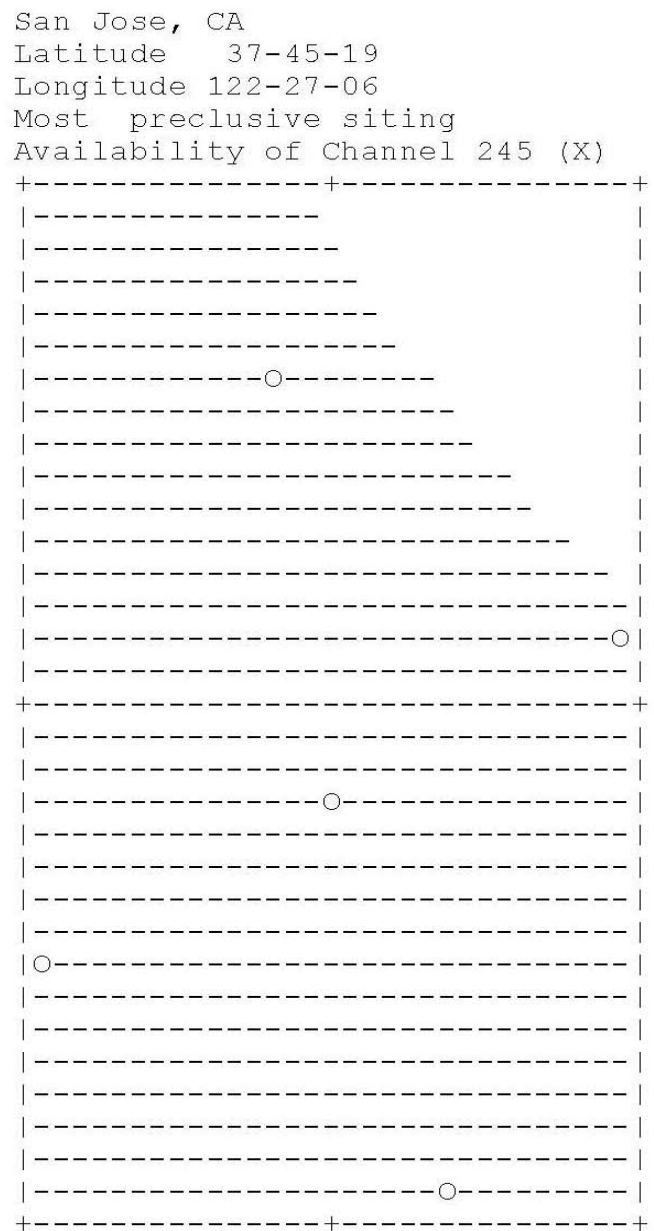
Point #961 at 38-00-19 122-42-06  
 Point #931 at 37-30-19 122-42-06  
 Point #436 at 37-31-19 122-26-06  
 Point #944 at 37-43-19 122-42-06  
 Point #490 at 37-54-19 122-27-06  
 Point #199 at 37-42-19 122-18-06

Point #572 at 37-43-19 122-30-06  
 Point #554 at 37-56-19 122-29-06  
 Point #466 at 37-30-19 122-27-06  
 Point #076 at 37-43-19 122-14-06

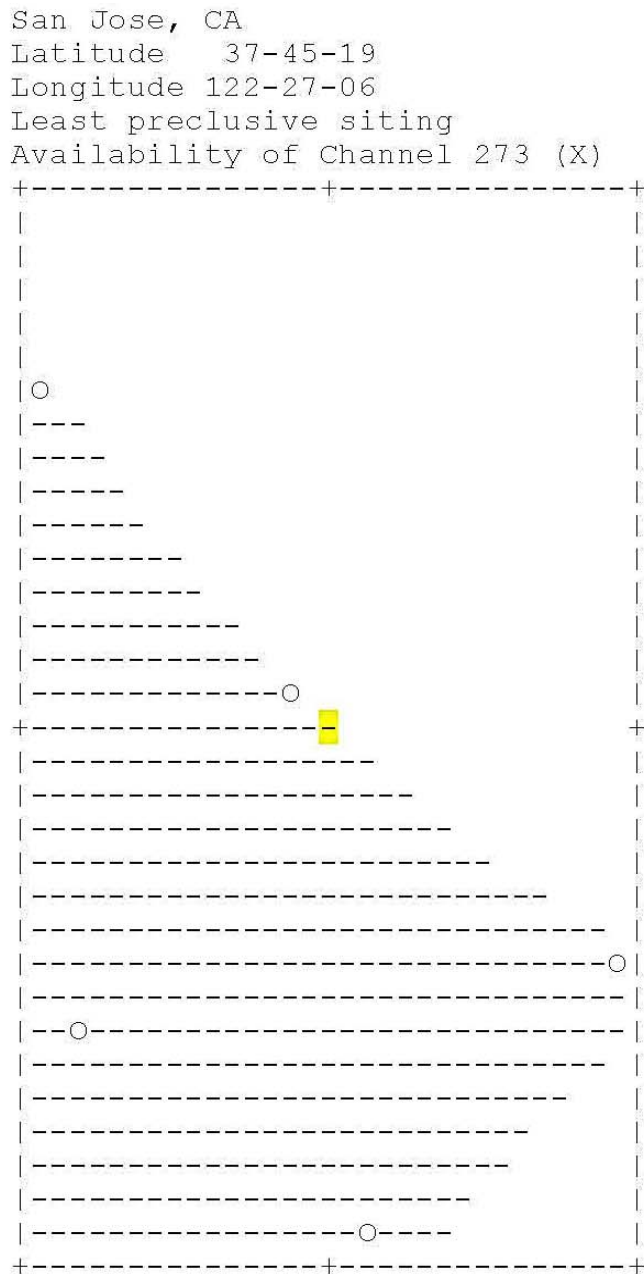




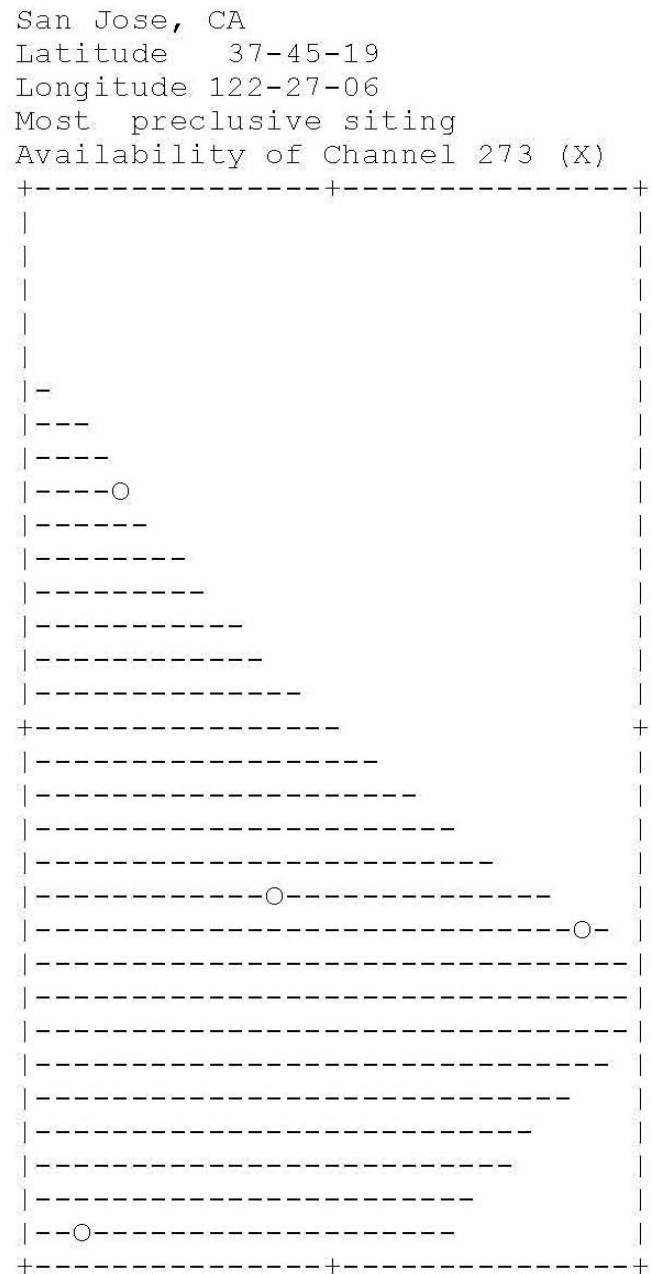
Point #001 at 37-30-19 122-12-06  
Point #014 at 37-43-19 122-12-06  
Point #931 at 37-30-19 122-42-06  
Point #471 at 37-35-19 122-27-06  
Point #944 at 37-43-19 122-42-06  
Point #961 at 38-00-19 122-42-06  
Point #484 at 37-48-19 122-27-06



Point #478 at 37-42-19 122-27-06  
Point #584 at 37-55-19 122-30-06  
Point #280 at 37-30-19 122-21-06  
Point #938 at 37-37-19 122-42-06  
Point #018 at 37-47-19 122-12-06



Point #956 at 37-55-19 122-42-06  
 Point #009 at 37-38-19 122-12-06  
 Point #544 at 37-46-19 122-29-06  
 Point #404 at 37-30-19 122-25-06  
 Point #875 at 37-36-19 122-40-06



Point #569 at 37-40-19 122-30-06  
 Point #829 at 37-52-19 122-38-06  
 Point #072 at 37-39-19 122-14-06  
 Point #869 at 37-30-19 122-40-06