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**ENGINEERING REPORT**

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**Three Points, CA, Channel 251D FM Translator Application**

**EXHIBIT 1: LPFM PRECLUSION STUDY**

Gold Coast Broadcasting, LLC ("Applicant") submits this technical minor amendment for its pending 1983 application for a new FM translator station at Three Points, CA. The pending application file number is BNPFT-20030317GLY.

The corresponding amendment includes a ERP reduction to 10 watts. This Exhibit 1 addresses only the LPFM Preclusion Study requirements of the technical amendment. (The other technical requirements of this amendment are address in a separate document of this on-line filing.)

**LPFM PRECLUSION STUDY RESULTS**

This Engineering Report demonstrates that this application meet the FCC's requirements for this Auction 83 FM translator pursuant to *Creation of a Low Power FM Service, Amendment of Service Rules and Eligibility Rules for FM Broadcast Translator Stations*, Fifth Order on Reconsideration and Sixth Report and Order, FCC 12-144 (re;. December 4, 2012) ("Fifth Order on Reconsideration"). Additionally, the FCC's LPFM spectrum availability program, [http://www.fcc.gov/Bureaus/MB/Databases/source\\_code/lpfm6.20121206.zip](http://www.fcc.gov/Bureaus/MB/Databases/source_code/lpfm6.20121206.zip) ("LPFM6"), is used as support for this Engineering Report.

An LPFM Preclusion Study is required by this application (based on the location of the herein proposed transmitter site) to the following *Spectrum Limited* Arbitron Metro Market:

Los Angeles, CA –

Mrkt # 2; 30 min. grid centered at N 34-03-08 W 118-14-34 (d,m,s; NAD 27).

Note that there are no *Spectrum Available* Metro Markets located within 39 kilometers of the proposed transmitter site.

*Metro Area Preclusion Study Results*

## Los Angeles Spectrum Limited Metro Market

The closest point to any grid point of this Spectrum Limited Metro Market is located 42.9 kilometers from the proposed translator site and, because this distance is more than 39 kilometers, no grid analysis to this Metro Market is required.

### *Transmitter Site Test Study Results*

Figure 1, attached, is the complete LPFM6 output file for a study centered at the herein proposed translator site. From this site, the center location is shown to be available for future LPFM on channels 256, 272 and 296. Therefore, since at least one channel exists for future LPFM at the proposed transmitter site, the transmitter site test for this application is successfully passed.

FIGURE 1 (3 Pages)

Three Points, CA  
 Latitude 34-41-00  
 Longitude 118-34-31  
 Grid Size 11 x 11  
 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	0	244	0	264	0	284	0
205	0	225	0	245	0	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	16	268	0	288	0
209	0	229	0	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	7	272	121	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	0
216	0	236	0	256	115	276	0	296	112
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	371								

Total allotments, least preclusive spacing: 8  
 Total allotments, most preclusive spacing: 5  
 Three Points, CA  
 Latitude 34-41-00

Three Points, CA  
 Latitude 34-41-00

Longitude 118-34-31  
Least preclusive siting  
Availability of Channel 248 (X)

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| -         |
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| --O       |
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Longitude 118-34-31  
Most preclusive siting  
Availability of Channel 248 (X)

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+       +
| -         |
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Point #091 at 34-38-00 118-37-31  
Three Points, CA  
Latitude 34-41-00  
Longitude 118-34-31  
Least preclusive siting  
Availability of Channel 252 (X)

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Point #091 at 34-38-00 118-37-31  
Three Points, CA  
Latitude 34-41-00  
Longitude 118-34-31  
Most preclusive siting  
Availability of Channel 252 (X)

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Point #008 at 34-43-00 118-29-31  
Three Points, CA  
Latitude 34-41-00  
Longitude 118-34-31  
Least preclusive siting  
Availability of Channel 256 (X)

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Point #008 at 34-43-00 118-29-31  
Three Points, CA  
Latitude 34-41-00  
Longitude 118-34-31  
Most preclusive siting  
Availability of Channel 256 (X)

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Point #001 at 34-36-00 118-29-31  
Point #121 at 34-46-00 118-39-31  
Three Points, CA  
Latitude 34-41-00  
Longitude 118-34-31  
Least preclusive siting  
Availability of Channel 272 (X)

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+-----+-----+
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-----O
+-----+-----+

Point #001 at 34-36-00 118-29-31  
Point #121 at 34-46-00 118-39-31  
Three Points, CA  
Latitude 34-41-00  
Longitude 118-34-31  
Least preclusive siting  
Availability of Channel 296 (X)

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Point #011 at 34-46-00 118-29-31  
Point #111 at 34-36-00 118-39-31

{End of Figure 1}

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Point #061 at 34-41-00 118-34-31  
Three Points, CA  
Latitude 34-41-00  
Longitude 118-34-31  
Most preclusive siting  
Availability of Channel 272 (X)

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+-----O-----+
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+-----+-----+

Point #061 at 34-41-00 118-34-31  
Three Points, CA  
Latitude 34-41-00  
Longitude 118-34-31  
Most preclusive siting  
Availability of Channel 296 (X)

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Point #061 at 34-41-00 118-34-31