

**DELAWDER COMMUNICATIONS, INC.**

P.O. Box 1095  
Ashburn, Virginia 20146-1095  
(703) 299-9222

**ENGINEERING REPORT**

---

**Connell, TX, Channel 256D FM Translator Application**

**EXHIBIT 1: LPFM PRECLUSION STUDY**

Juan Alberto Ayala (“Applicant”) submits this LPFM Preclusion Study for a new FM translator station at Connell, TX. The initial Auction 83 Tech Box application file number is BNPFT-20030317HFO. The recent amendment filing requested for this “singleton” application is BNPFT-20130328AAG. BNPFT-20130328AAG is herein amended to remove predicted interference to KNGT, Lake Charles, LA, 258C0—a deficiency that the FCC informally made known to the Applicant on April 1, 2013.

The corresponding technical amendment includes a channel displacement from 257 to 256. 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.

Because a technical amendment is included with this tech box filing, an LPFM Preclusion Study is required by this application (based on the location of the herein proposed transmitter site) to the following *Spectrum Available* Arbitron Metro Market:

Beaumont-Port Arthur, TX –

Mrkt # 141 30 min. grid centered at N 30-5-9 W 94-6-6 (d,m,s; NAD 27).

Note that for the *Spectrum Available* Grid Studies, the LPFM6 study includes second adjacent and pending 1983 FM translator applications (inclusions that are not

necessary for Spectrum Limited Grid Studies).

#### *Metro Area Preclusion Study Results*

Figure 1, attached, is the complete LPFM6 output file for the Beaumont-Port Arthur Metro Market with the study centered at the grid center.

From Figure 1 it is shown that zero channels are available within the 30-minute Grid for future LPFM on the same or first adjacent channels of the herein proposed FM translator (channels 255, 256 and 257).

Therefore, as required by the Fifth Order on Reconsideration, this FM translator will not preclude the future use of a LPFM application from a potential LPFM channel/point located within the 30-minute Beaumont-Port Arthur, TX Grid.

#### *Transmitter Site Test Study Results*

This study proposes a site that is not located within a Top-50 Spectrum Limited Market and is not required.

**FIGURE 1**

Beaumont, TX  
 Latitude 30-05-09  
 Longitude 094-06-06  
 Grid Size 31 x 31  
 Micro FM 100 Watts at 30m HAAT  
 Co-Channel and 1st Adjacent Protected  
 2nd Adjacent Channel 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 Protected

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	33	263	0	283	0
204	0	224	0	244	1	264	0	284	0
205	0	225	0	245	6	265	0	285	0
206	0	226	0	246	0	266	0	286	0
207	0	227	0	247	0	267	3	287	0
208	0	228	0	248	0	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	0	272	0	292	0
213	0	233	0	253	0	273	0	293	0
214	0	234	0	254	0	274	0	294	10
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	0	276	104	296	0
217	0	237	0	257	0	277	0	297	148
218	0	238	0	258	0	278	0	298	0
219	0	239	40	259	0	279	0	299	0
								300	0

-----  
 Total 345

Total allotments, least preclusive spacing: 13  
 Total allotments, most preclusive spacing: 12

(Individual Channel Studies of available channels are not shown.)