

**DELAWDER COMMUNICATIONS, INC.**

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**ENGINEERING REPORT**

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**Bishopville, MD, Channel 230D FM Translator Application**

**EXHIBIT 1: LPFM PRECLUSION STUDY**

Priority Radio, Inc. ("Applicant") submits this LPFM Preclusion Study for a new FM translator station at Bishopville, MD. The pending Tech Box file number is BNPFT-20030312AEV.

The corresponding technical amendment includes a channel displacement from 231 to 230. 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.

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

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:

Salisbury-Ocean City, MD –

Mrkt # 140; 30 min. grid centered at N 38-21-38 W 75-35-59 (d,m,s; NAD 27).

Note that for the *Spectrum Available* Grid Studies, the LPFM6 study includes second adjacent and pending 2003 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 Salisbury-Ocean City 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 channel, the lower first adjacent channel, or the two second adjacent channels of the herein proposed FM translator (channels 228, 229, 230 and 232).

From Figure 1 it is also shown that zero channels are available within 15 kilometers of the proposed transmitter site for future LPFM on the first-adjacent channel above (231). (Pursuant to Section 73.807c, since the proposed 60 dBu F50,50 service contour extends only 6.9 kilometers at its greatest distance, the spacing requirement from a future first adjacent-channel LPFM must be separated by 15 km.) The nearest available LPFM channel/point for channel 231 is at N 38-30-38 W 75-24-59 and is located 26.0 km from the proposed transmitter site.

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 Salisbury-Ocean City Grid.

#### *Transmitter Site Test Not Required*

This amendment proposes a site that is not located within a Top-50 Spectrum Limited Market and, therefore, a Transmitter Site Test is not required.

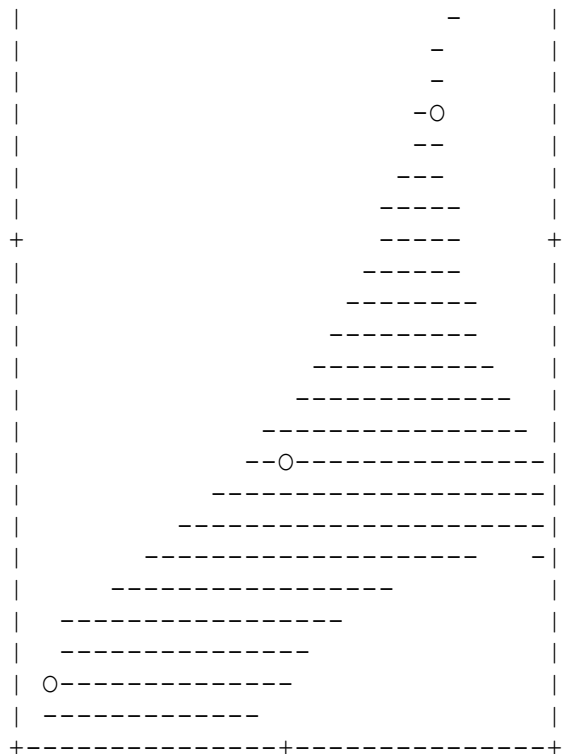
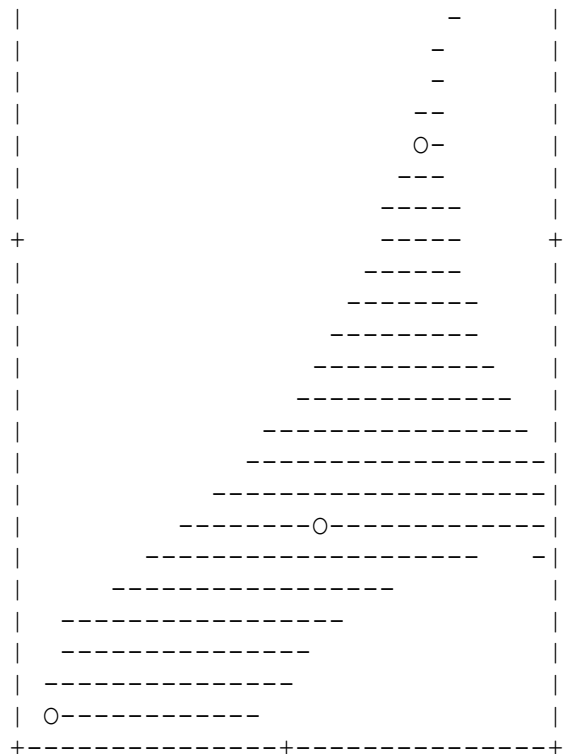
FIGURE 1

Salisbury, MD  
 Latitude 38-21-38  
 Longitude 075-35-59  
 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	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	9	282	0
203	0	223	0	243	15	263	526	283	0
204	0	224	0	244	0	264	0	284	0
205	0	225	64	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	0	268	47	288	0
209	0	229	0	249	0	269	0	289	0
210	0	230	0	250	0	270	47	290	0
211	0	231	254	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	33
215	0	235	0	255	0	275	0	295	0
216	0	236	0	256	0	276	16	296	12
217	0	237	0	257	89	277	0	297	3
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	1115								

Total allotments, least preclusive spacing: 21  
 Total allotments, most preclusive spacing: 17  
 Salisbury, MD Salisbury, MD  
 Latitude 38-21-38 Latitude 38-21-38

[illegible]



Point #062 at 38-36-38 075-21-59  
 Point #900 at 38-06-38 075-49-59  
 Point #236 at 38-24-38 075-27-59  
 Point #410 at 38-12-38 075-33-59

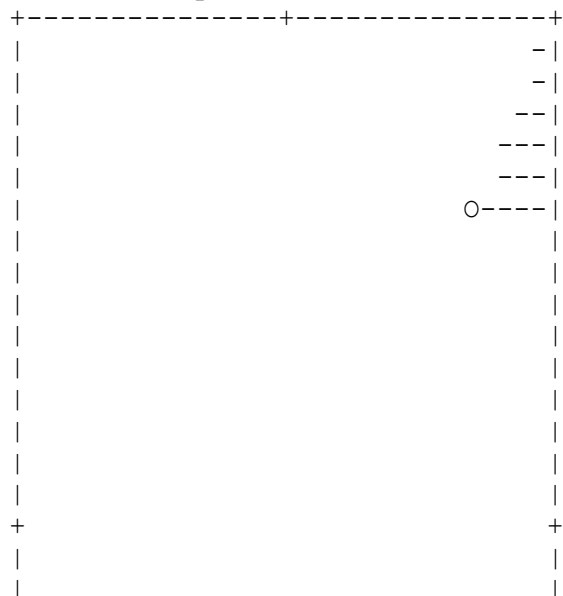
Salisbury, MD

Latitude 38-21-38

Longitude 075-35-59

Least preclusive siting

Availability of Channel 243 (X)



Point #474 at 38-14-38 075-35-59  
 Point #206 at 38-25-38 075-26-59  
 Point #901 at 38-07-38 075-49-59

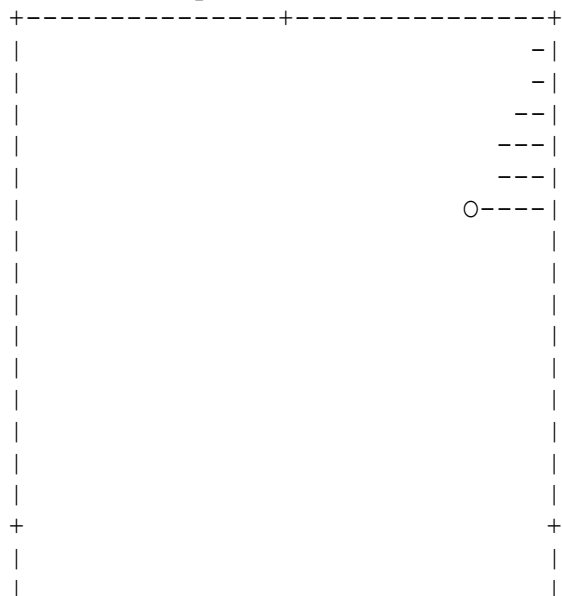
Salisbury, MD

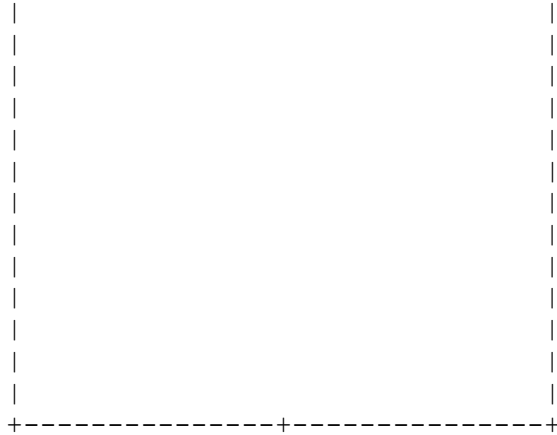
Latitude 38-21-38

Longitude 075-35-59

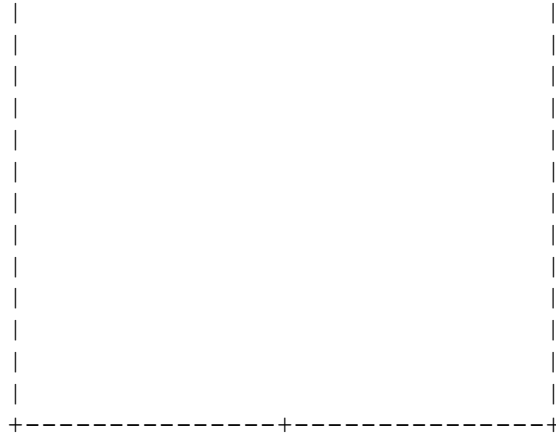
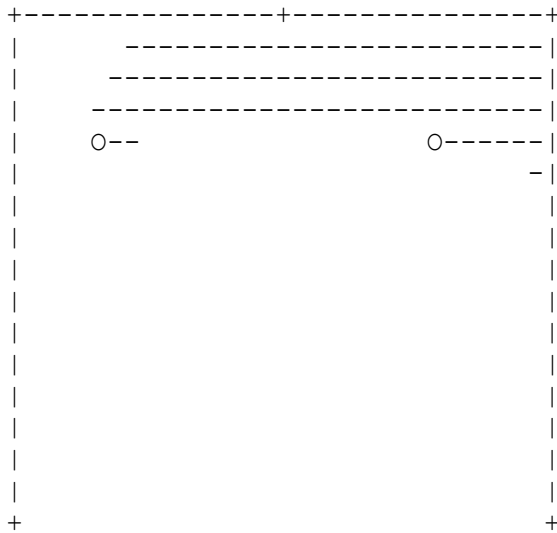
Most preclusive siting

Availability of Channel 243 (X)

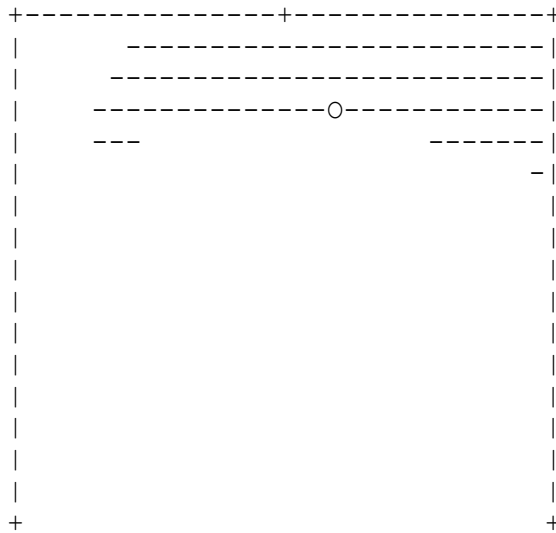




Point #150 at 38-31-38 075-24-59  
Salisbury, MD  
Latitude 38-21-38  
Longitude 075-35-59  
Least preclusive siting  
Availability of Channel 257 (X)



Point #150 at 38-31-38 075-24-59  
Salisbury, MD  
Latitude 38-21-38  
Longitude 075-35-59  
Most preclusive siting  
Availability of Channel 257 (X)



Point #401 at 38-34-38 075-32-59

Salisbury, MD

Latitude 38-21-38

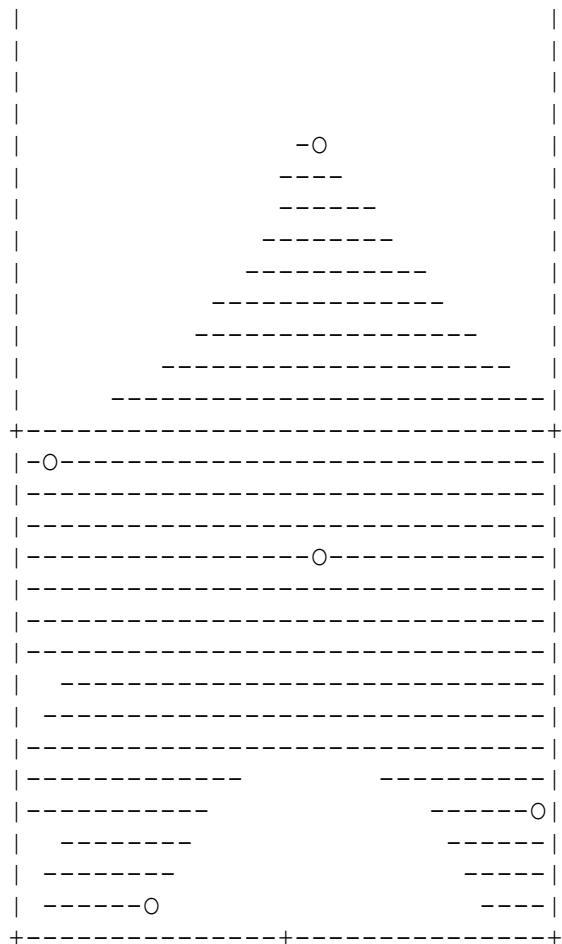
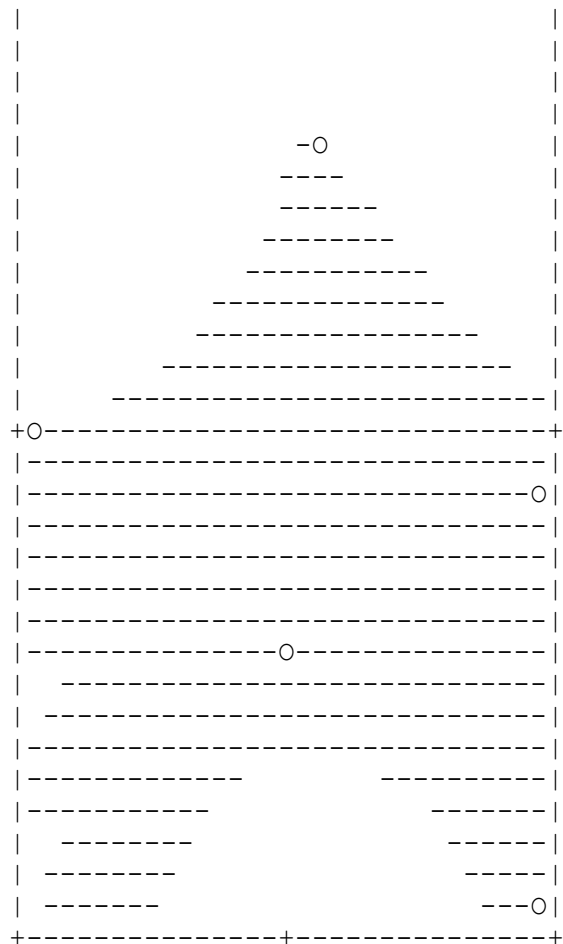
Longitude 075-35-59

Most preclusive siting

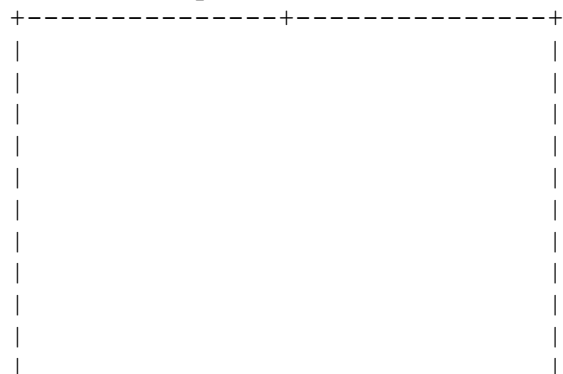
Availability of Channel 262 (X)

Point #936 at 38-11-38 075-50-59  
Salisbury, MD  
Latitude 38-21-38  
Longitude 075-35-59  
Most preclusive siting  
Availability of Channel 263 (X)

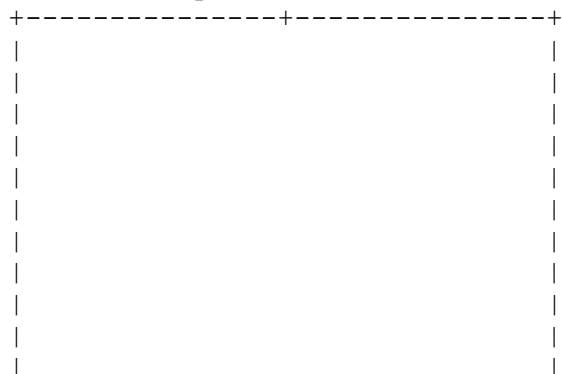
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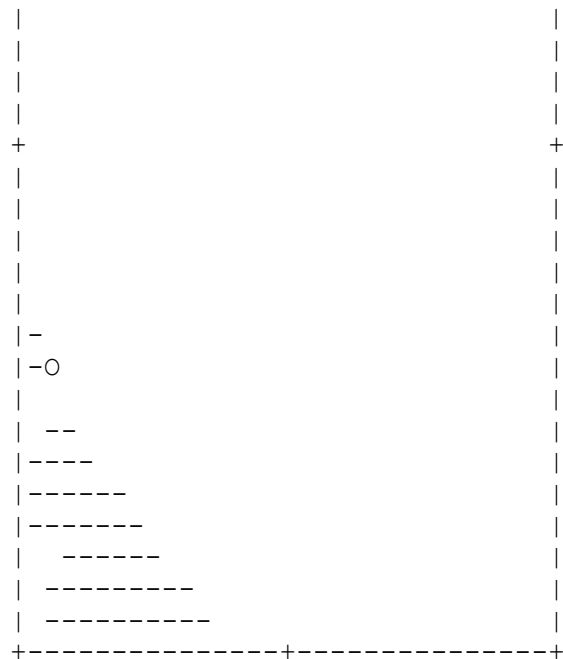
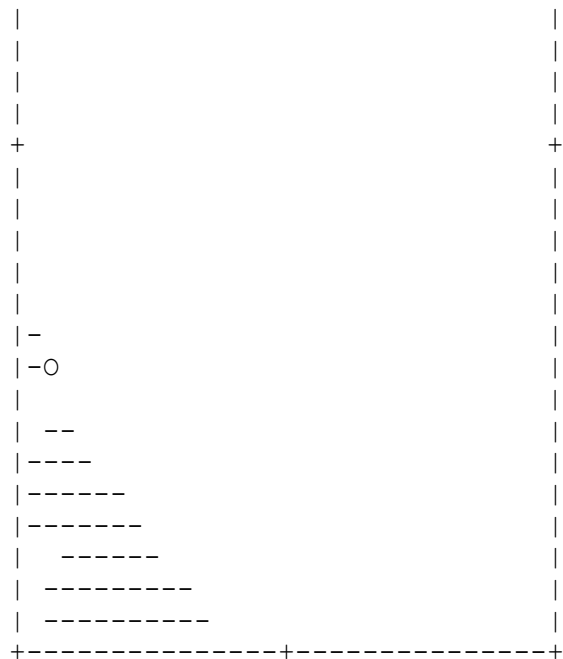


Point #001 at 38-06-38 075-20-59  
 Point #014 at 38-19-38 075-20-59  
 Point #428 at 38-30-38 075-33-59  
 Point #946 at 38-21-38 075-50-59  
 Point #474 at 38-14-38 075-35-59  
 Salisbury, MD  
 Latitude 38-21-38  
 Longitude 075-35-59  
 Least preclusive siting  
 Availability of Channel 268 (X)

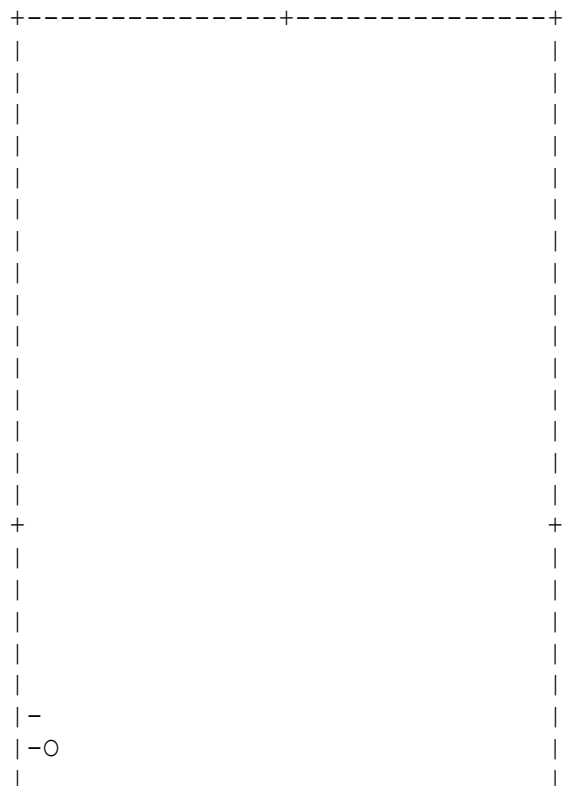


Point #415 at 38-17-38 075-33-59  
 Point #004 at 38-09-38 075-20-59  
 Point #914 at 38-20-38 075-49-59  
 Point #428 at 38-30-38 075-33-59  
 Point #714 at 38-06-38 075-43-59  
 Salisbury, MD  
 Latitude 38-21-38  
 Longitude 075-35-59  
 Most preclusive siting  
 Availability of Channel 268 (X)

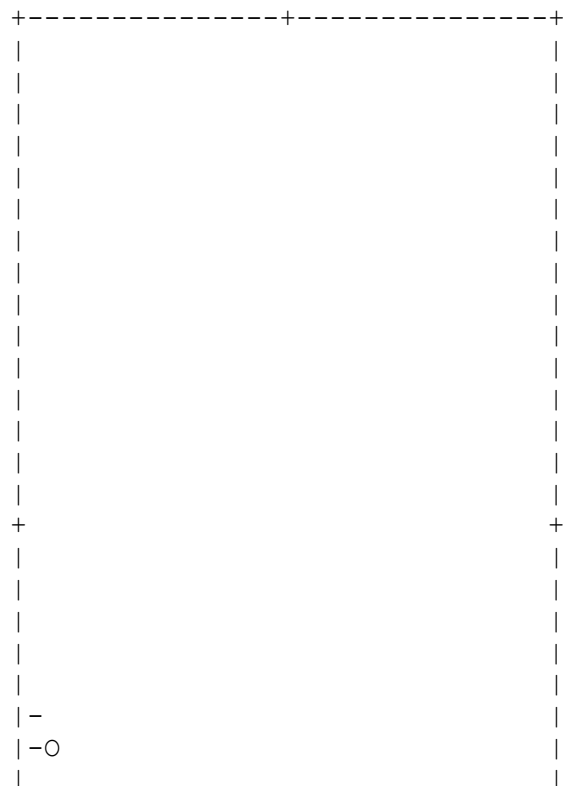


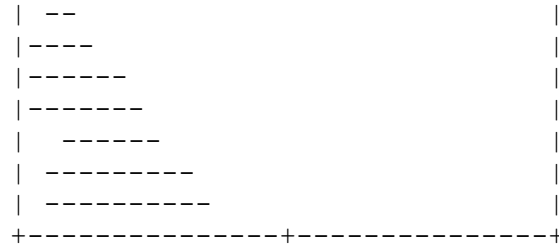
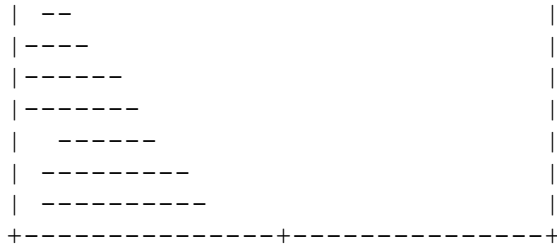


Point #908 at 38-14-38 075-49-59  
Salisbury, MD  
Latitude 38-21-38  
Longitude 075-35-59  
Least preclusive siting  
Availability of Channel 270 (X)



Point #908 at 38-14-38 075-49-59  
Salisbury, MD  
Latitude 38-21-38  
Longitude 075-35-59  
Most preclusive siting  
Availability of Channel 270 (X)

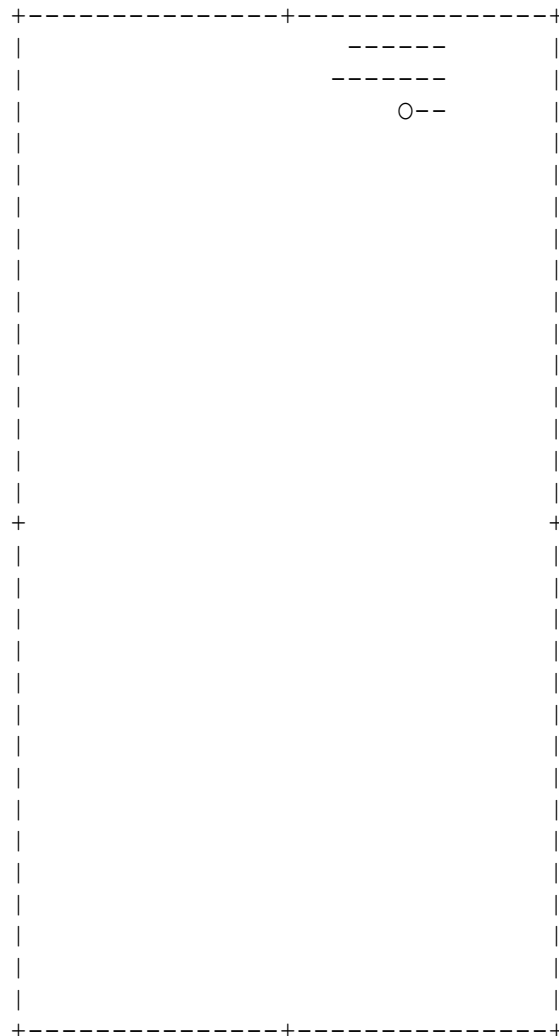




Point #908 at 38-14-38 075-49-59  
Salisbury, MD  
Latitude 38-21-38  
Longitude 075-35-59  
Least preclusive siting  
Availability of Channel 276 (X)



Point #908 at 38-14-38 075-49-59  
Salisbury, MD  
Latitude 38-21-38  
Longitude 075-35-59  
Most preclusive siting  
Availability of Channel 276 (X)



Point #277 at 38-34-38 075-28-59  
Salisbury, MD  
Latitude 38-21-38

Point #277 at 38-34-38 075-28-59  
Salisbury, MD  
Latitude 38-21-38

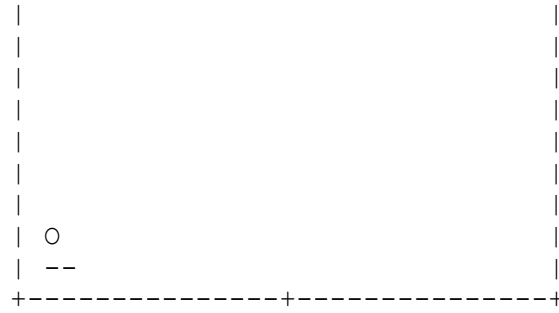
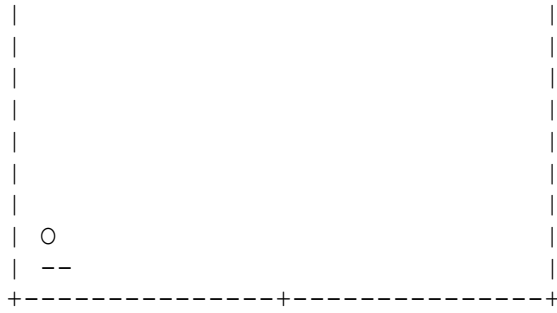
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Salisbury, MD  
Latitude 38-21-38  
Longitude 075-35-59  
Least preclusive siting  
Availability of Channel 297 (X)

Salisbury, MD  
Latitude 38-21-38  
Longitude 075-35-59  
Most preclusive siting  
Availability of Channel 297 (X)

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Point #901 at 38-07-38 075-49-59

Point #901 at 38-07-38 075-49-59

{End of Figure 1}