

Exhibit A

47 CFR 74.1232(b) Evaluation of RTN Translators

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■ Procedural Overview:

Import F(50,50) 60 dBu contours and compute areas.

Compute relative size of overlap between translator and areas covered by other commonly owned / commonly programmed translators.

Determine if a translator is a “same area” translator due to greater-than-50% area overlap with other common translators.

KML Import and Area Calculations

```
In[203]:= ClearAll;

kmlfiles = {"R:\\FCC\\Objections\\FL_PR_VI Renewals\\RTN-Lakeland_SameArea\\W240DB.kml",
            "R:\\FCC\\Objections\\FL_PR_VI Renewals\\RTN-Lakeland_SameArea\\W242AK.kml",
            "R:\\FCC\\Objections\\FL_PR_VI Renewals\\RTN-Lakeland_SameArea\\W291AG.kml",
            "R:\\FCC\\Objections\\FL_PR_VI Renewals\\RTN-Lakeland_SameArea\\W300CY.kml"};

In[205]:= kml = Import[#, "Data"] [[1, 2, 2, 1, 1, 1]] & /@ kmlfiles; (* Import only contours *)

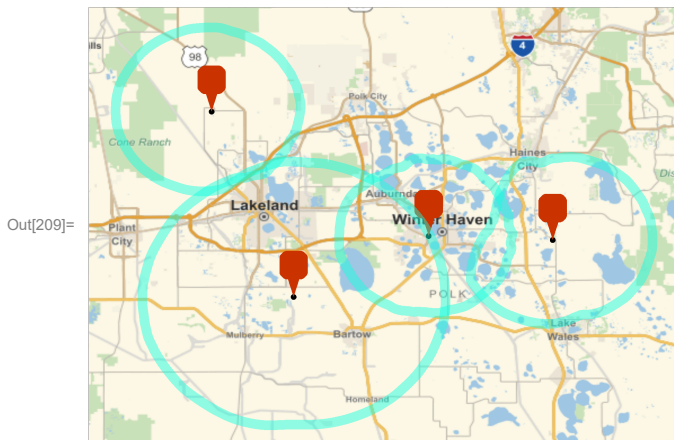
In[206]:= contours = kml [[All, All, {1, 2}]];
            (* Strip zero-value elevation from KML coordinates to convert to 2D *)

In[207]:= polygons = Polygon /@ contours [[All]];

areas = Area /@ polygons [[All]];
```

Map of Imported Contours

In[209]:= Show @@ (Import[#] & /@ kmlfiles[{{1, 2, 3, 4}}])



Intersecting Area Calculations

```
In[210]:= i = {1, 2, 3, 4}; (* All translators *)
fac1 = i[[1]]; fac2 = i[[2]]; fac3 = i[[3]];
fac4 = i[[4]]; (* Get selected facilities *)
not1 = BooleanRegion[Or, {polygons[[fac2]], polygons[[fac3]], polygons[[fac4]]}];
(* OR of areas defines total service area,
use to get areas of translators EXCEPT one being compared *)
not2 = BooleanRegion[Or, {polygons[[fac1]], polygons[[fac3]], polygons[[fac4]]}];
not3 = BooleanRegion[Or, {polygons[[fac1]], polygons[[fac2]], polygons[[fac4]]}];
not4 = BooleanRegion[Or, {polygons[[fac1]], polygons[[fac3]], polygons[[fac4]]}];
aoverlap1 = Area[BooleanRegion[And, {polygons[[fac1]], not1}]];
(* AND of areas is common service area facility AND all other facilities *)
aoverlap2 = Area[BooleanRegion[And, {polygons[[fac2]], not2}]];
aoverlap3 = Area[BooleanRegion[And, {polygons[[fac3]], not3}]];
aoverlap4 = Area[BooleanRegion[And, {polygons[[fac4]], not4}]];
overlap1 = 100 * aoverlap1 / areas[[fac1]];
(* Common service area / area of facility, converted to % *)
overlap2 = 100 * aoverlap2 / areas[[fac2]];
overlap3 = 100 * aoverlap3 / areas[[fac3]];
overlap4 = 100 * aoverlap4 / areas[[fac4]];
sameareagroup = {{FileName[StringSplit[kmlfiles[[fac1]], "\\"]][[-1]], overlap1},
  {FileName[StringSplit[kmlfiles[[fac2]], "\\"]][[-1]], overlap2},
  {FileName[StringSplit[kmlfiles[[fac3]], "\\"]][[-1]], overlap3},
  {FileName[StringSplit[kmlfiles[[fac4]], "\\"]][[-1]], overlap4}}
```

Out[219]= {{W240DB, 57.2492}, {W242AK, 1.18092}, {W291AG, 15.9274}, {W300CY, 9.49201}}