

APPLICATION to MAKE CHANGES
TRANSLATOR W272DO, Bridgeport, CT

May, 2016

TECHNICAL STATEMENT

This technical statement and attached exhibits have been prepared on behalf of Best Media, Inc. ("Best"), Licensee of translator station W272DO, Facility identifier 138034. The applicant proposes to modify license BLFT-20160512AAK

Best proposes to relocate W272DO, modify the directional pattern and increase the peak ERP. This translator will continue to rebroadcast Facility ID 46968, WPLR (FM), as a fill-in translator in compliance with 47CFR 74.1203. The translator community of license will change to New Haven, CT. The proposed operation is MX to the license(application) for W272DO and the 60dBu contours intersect. Best has received permission from the licensee of WPLR (FM) to rebroadcast that station's programming.

Facilities Proposed

Location (NAD27)	41° 20' 59" N Latitude, 72° 58' 23.2" W Longitude
Channel	272D (102.3MHz)
Tower Overall AGL Height-	79.6m
Tower ASR (Attached Exhibit D)	1045133 (SEE EXHIBIT G)
Proposed Antenna	ERI LP-4E-DA-HW-SP
Antenna AGL Height-	55m
Site AMSL Height-	136m
COR AMSL Height	191m
ERP	250w DIRECTIONAL (SEE EXHIBIT A)

Interference Study

ComStudy 2.2 search of channel 272 (102.3 MHz Class A) at 41-20-59.0 N, 72-58-23.2 W.

CALL	CITY	ST CHN CL	DIST	SEP	BRNG	CLEARANCE
W272DO	BRIDGEPORT	CT 272 D	19.45	0.00	246.2	-32.40 dB MX to Existing
WDRC-FM	HARTFORD	CT 275 B	25.93	69.00	24.4	-22.57 dB Exhibit C
W269DB	MILFORD	CT 269 D	6.05	0.00	180.2	-18.53 dB Exhibit B1
WAQY	SPRINGFIELD	MA 271 B	84.49	113.00	15.2	0.08 dB Exhibit B
WBAB	BABYLON	NY 272 A	68.28	115.00	206.5	2.68 dB Exhibit B
W273CN	WESTPORT	CT 273 D	30.78	0.00	236.3	3.83 dB
WKBR-LP	TOWN OF HIGHLANDS	NY 272 LP100	64.08	67.00	268.5	5.18 dB
WMOS	STONINGTON	CT 272 A	95.21	115.00	85.8	6.49 dB
W273CN	WESTPORT	CT 273 D	42.01	0.00	253.5	7.34 dB
WBAZ	BRIDGEHAMPTON	NY 273 A	70.28	72.00	135.3	8.69 dB
WNEW-FM	NEW YORK	NY 274 B	108.23	69.00	232.1	16.62 dB
WFAN-FM	NEW YORK	NY 270 B	108.23	69.00	232.1	16.51 dB
WGRS	GUILFORD	CT 218 A	27.19	10.00	104.4	17.2

CDBS Data as of 5/21/2016

COMPLIANCE, 74.1201(g), 74.1203(d), 74.1233(a)(1), and 74.1204(d)

Exhibit B demonstrates compliance with 74.1204(d). There are no impermissible contour overlaps to any other facilities, moreover, the area claimed by Cox to have a listener inside the proposed W272DO is no longer contained within the W272DO 60dBu contour.

As demonstrated in Exhibit C, there will be no location outside of the tower compound at ground level where the signal of W272DO will be in excess of 40dBu above the WDRC 3rd adjacent signal.

Exhibit D demonstrates compliance with 74.1201(g) governing the use of a translator as a fill-in for an FM station. The 60dBu contour of the proposed W272DO will be completely contained within the 1mV/m contour of WPLR (FM).

Exhibit E demonstrates that the proposed facility is compliant with 74.1233(a)(1). The 60dBu contours overlap and the proposed facility is MX to the original Construction Permit.

Environmental Exhibit

The proposed W272DO facility as proposed will utilize a directional antenna located on an existing tower owned by Westrock, LLC (ASR 1045133). The ASR for the tower is attached as Exhibit G. The RF density near the tower was calculated using a worst-case dipole antenna setting at 250 watts horizontal and vertical.

Using the FCC program "FM Model for Windows", it was calculated that the proposed antenna contributes approximately $0.015 \mu\text{W}/\text{cm}^2$ or 0.007% of the total allowable $200 \mu\text{W}/\text{cm}^2$. The maximum was found to be at the base of the tower.

There are no non-excluded RF sources on the tower.

The proposed W272DO operation is categorically excluded from further environmental review under §1.1306 of the FCC rules and regulations.

Respectfully Submitted

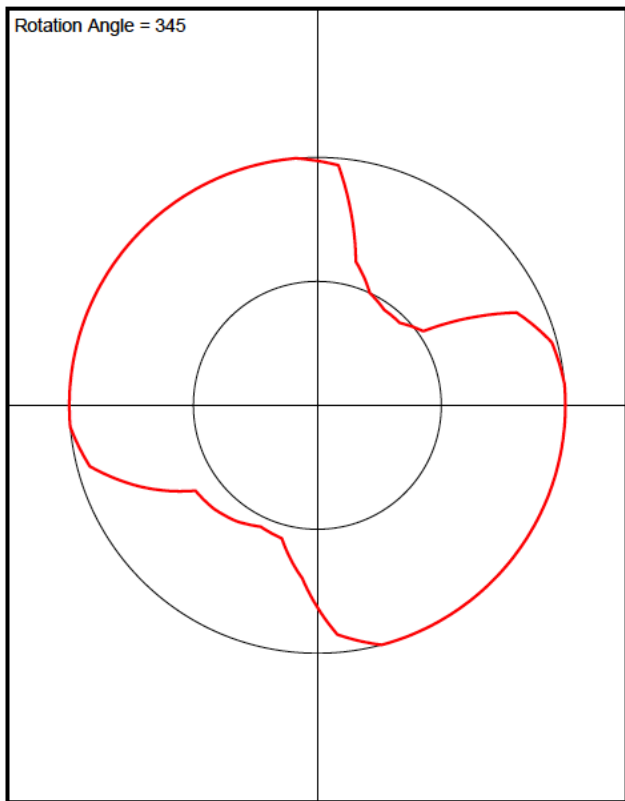


Bert Goldman
Goldman Engineering Mgmt.
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Auburn, CA 95603
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EXHIBIT A: 4-Level ERI LP-4E-DA-HW-SP

W272DO New Haven Ant pattern
Pre-Rotation Antenna Pattern....

Azimuth (deg)	Relative Field
0.0	1.0
5.0	1.0
10.0	1.0
15.0	0.986
20.0	0.972
25.0	0.786
30.0	0.6
35.0	0.55
40.0	0.5
45.0	0.485
50.0	0.47
55.0	0.47
60.0	0.47
65.0	0.4955
70.0	0.521
75.0	0.7035
80.0	0.886
85.0	0.9325
90.0	0.979
95.0	0.9895
100.0	1.0
105.0	1.0
110.0	1.0
115.0	1.0
120.0	1.0
125.0	1.0
130.0	1.0
135.0	1.0
140.0	1.0
145.0	1.0
150.0	1.0
155.0	1.0
160.0	1.0
165.0	1.0
170.0	1.0
175.0	1.0
180.0	1.0
185.0	0.964
190.0	0.928
195.0	0.814
200.0	0.7
205.0	0.6275
210.0	0.555
215.0	0.5475
220.0	0.54
225.0	0.555
230.0	0.57
235.0	0.58
240.0	0.59
245.0	0.595
250.0	0.6
255.0	0.69
260.0	0.78
265.0	0.865
270.0	0.95
275.0	0.975
280.0	1.0
285.0	1.0
290.0	1.0
295.0	1.0
300.0	1.0
305.0	1.0
310.0	1.0
315.0	1.0



320.0	1.0
325.0	1.0
330.0	1.0
335.0	1.0
340.0	1.0
345.0	1.0
350.0	1.0
355.0	1.0

EXHIBIT B- 74.1204(d) Compliance

W272DO PROP 74.1204(d) Compliance

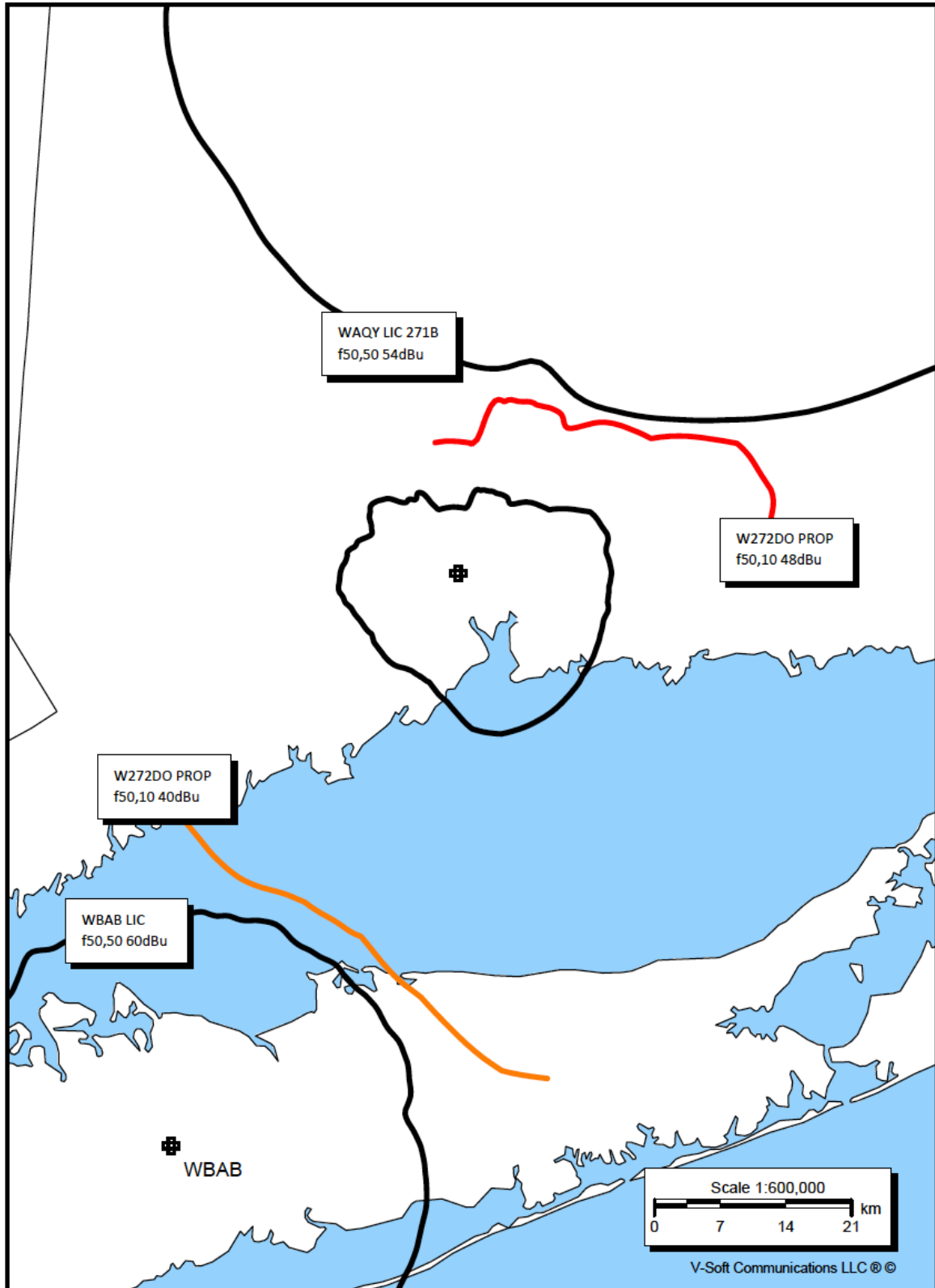


EXHIBIT B1- 3rd Adjacent Interference Compliance W269DB (CP)

Proposed W272DO to 3rd Adjacent W269DB (CP)

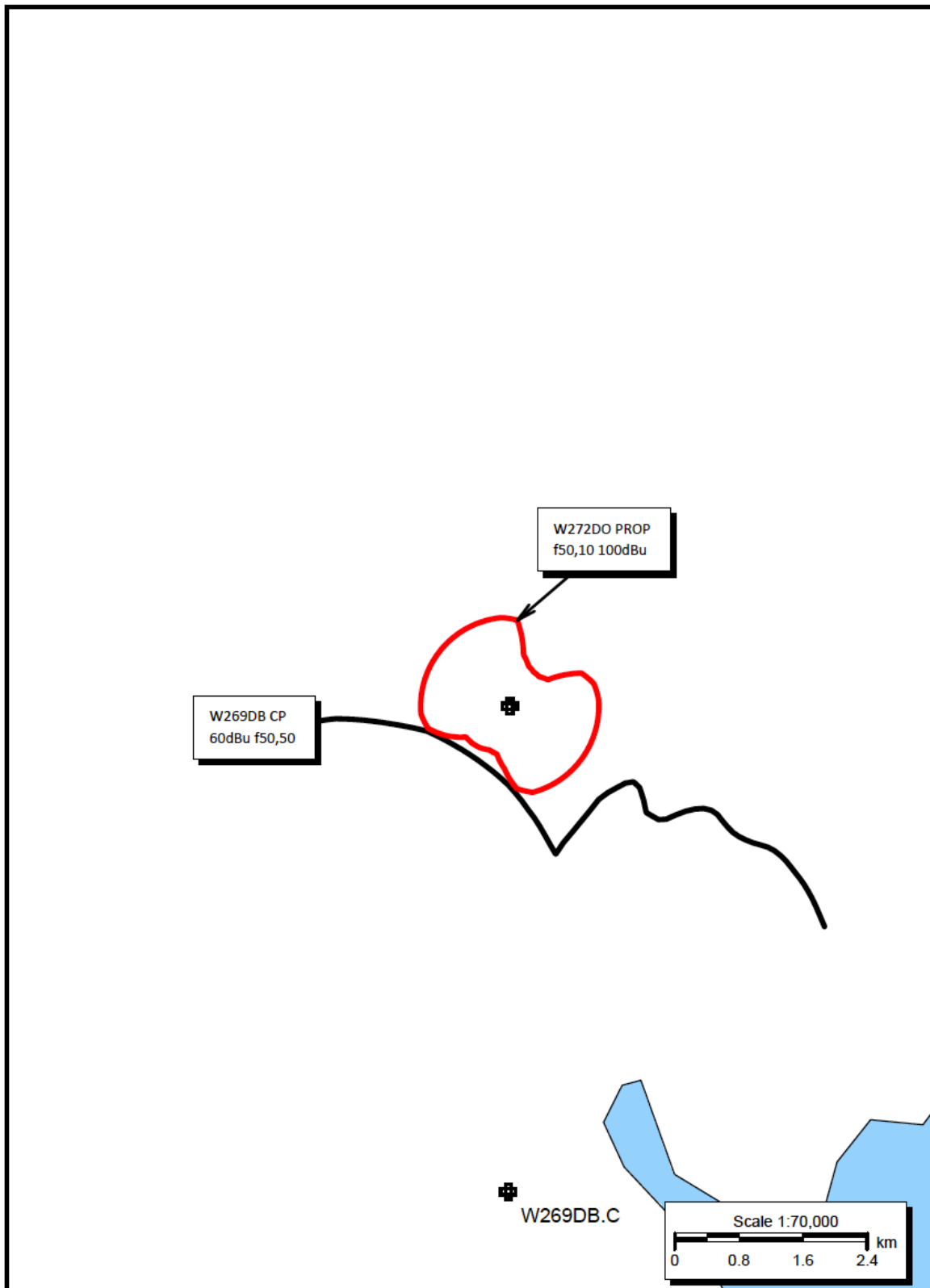


EXHIBIT C 3rd Adjacent Interference Compliance to WDRC-FM

PROP W272DO Sheldon, CT
 74.1204(d) Showing
 Translator or LPFM Maximum Licensed ERP = 0.25
 Translator or LPFM Antenna Height AG = 55 Meters
 PROP Antenna Model = 4-Level ERI LP-4E-DA-HW-SP

Protected Station's Contour = 66.05492 dBu
 Translator's or LPFM's full Interference contour 106.05492

Review Azimuth = 0 Degrees True
 Relative Field on the horizon at Review Azimuth = 1.000
 Translator/LPFM ERP on the horizon at Review Azimuth = 0.25 kW
 Distance between stations = 25.9 km
 Protected Station= WDRC-F, 19.54 kW, 345 M Meters COR AMSL

Depression IX Angle From Horizon(Deg) (m)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle(m)	Dist to IX Contour From Tower Base(m)	Height Above Ground
00.00	1.0	1.0	0.2500	552.3623	552.3623	055.000
01.00	0.97	1.0	0.2350	535.5705	535.4889	045.653
02.00	0.939	1.0	0.2205	518.7786	518.4626	036.895
03.00	0.909	1.0	0.2065	501.9868	501.2989	028.728
04.00	0.878	1.0	0.1929	485.1950	484.0131	021.155
05.00	0.848	1.0	0.1798	468.4032	466.6208	014.176
06.00	0.777	1.0	0.1509	429.1855	426.8344	010.138
07.00	0.706	1.0	0.1246	389.9677	387.0610	007.475
08.00	0.635	1.0	0.1008	350.7500	347.3366	006.185
09.00	0.564	1.0	0.0795	311.5323	307.6968	006.266
10.00	0.493	1.0	0.0608	272.3146	268.1775	007.713
11.00	0.416	1.0	0.0433	229.7827	225.5610	011.155
12.00	0.339	1.0	0.0287	187.2508	183.1589	016.068
13.00	0.262	1.0	0.0172	144.7189	141.0098	022.445
14.00	0.185	1.0	0.0086	102.1870	099.1516	030.279
15.00	0.108	1.0	0.0029	059.6551	057.6224	039.560
16.00	0.125	1.0	0.0039	068.8243	066.1582	036.029
17.00	0.141	1.0	0.0050	077.9936	074.5856	032.197
18.00	0.158	1.0	0.0062	087.1628	082.8967	028.065
19.00	0.174	1.0	0.0076	096.3320	091.0837	023.637
20.00	0.191	1.0	0.0091	105.5012	099.1387	018.916
21.00	0.198	1.0	0.0098	109.2296	101.9747	015.856
22.00	0.205	1.0	0.0105	112.9581	104.7329	012.685
23.00	0.211	1.0	0.0112	116.6865	107.4105	009.407
24.00	0.218	1.0	0.0119	120.4150	110.0046	006.023
25.00	0.214	1.0	0.0114	117.9293	106.8803	005.161
26.00	0.209	1.0	0.0109	115.4437	103.7601	004.393
27.00	0.192	1.0	0.0092	105.8694	094.3304	006.936
28.00	0.174	1.0	0.0076	096.2952	085.0236	009.792
29.00	0.157	1.0	0.0062	086.7209	075.8478	012.957
30.00	0.132	1.0	0.0043	072.7277	062.9840	018.636
31.00	0.106	1.0	0.0028	058.7345	050.3453	024.749
32.00	0.081	1.0	0.0016	044.7413	037.9428	031.291
33.00	0.057	1.0	0.0008	031.6688	026.5597	037.752
34.00	0.034	1.0	0.0003	018.5962	015.4169	044.601
35.00	0.01	1.0	0.0000	005.5236	004.5247	051.832

36.00	0.022	1.0	0.0001	012.1520	009.8312	047.857
37.00	0.039	1.0	0.0004	021.6802	017.3146	041.953
38.00	0.057	1.0	0.0008	031.2085	024.5926	035.786
39.00	0.074	1.0	0.0014	040.7367	031.6584	029.364
40.00	0.091	1.0	0.0021	050.2650	038.5052	022.690
41.00	0.096	1.0	0.0023	053.3030	040.2283	020.030
42.00	0.102	1.0	0.0026	056.3410	041.8695	017.301
43.00	0.108	1.0	0.0029	059.3789	043.4270	014.504
44.00	0.113	1.0	0.0032	062.4169	044.8990	011.642
45.00	0.112	1.0	0.0031	061.8646	043.7449	011.255
46.00	0.108	1.0	0.0029	059.4710	041.3120	012.220
47.00	0.103	1.0	0.0027	057.0774	038.9267	013.256
48.00	0.099	1.0	0.0025	054.6839	036.5906	014.362
49.00	0.091	1.0	0.0020	049.9888	032.7956	017.273
50.00	0.082	1.0	0.0017	045.2937	029.1142	020.303
51.00	0.073	1.0	0.0013	040.2120	025.3062	023.749
52.00	0.064	1.0	0.0010	035.1302	021.6283	027.317
53.00	0.054	1.0	0.0007	030.0485	018.0836	031.002
54.00	0.045	1.0	0.0005	024.9668	014.6751	034.801
55.00	0.036	1.0	0.0003	019.8850	011.4056	038.711
56.00	0.028	1.0	0.0002	015.2820	008.5456	042.331
57.00	0.019	1.0	0.0001	010.6790	005.8162	046.044
58.00	0.011	1.0	0.0000	006.0760	003.2198	049.847
59.00	0.01	1.0	0.0000	005.5236	002.8449	050.265
60.00	0.01	1.0	0.0000	005.5236	002.7618	050.216
61.00	0.01	1.0	0.0000	005.5236	002.6779	050.169
62.00	0.014	1.0	0.0000	007.7331	003.6305	048.172
63.00	0.018	1.0	0.0001	010.1266	004.5974	045.977
64.00	0.023	1.0	0.0001	012.5202	005.4885	043.747
65.00	0.027	1.0	0.0002	014.9138	006.3028	041.484
66.00	0.031	1.0	0.0002	017.0128	006.9197	039.458
67.00	0.035	1.0	0.0003	019.1117	007.4675	037.408
68.00	0.038	1.0	0.0004	021.2107	007.9457	035.334
69.00	0.042	1.0	0.0004	023.3097	008.3534	033.239
70.00	0.046	1.0	0.0005	025.4087	008.6903	031.124
71.00	0.05	1.0	0.0006	027.3972	008.9196	029.095
72.00	0.053	1.0	0.0007	029.3857	009.0807	027.053
73.00	0.057	1.0	0.0008	031.3742	009.1729	024.997
74.00	0.06	1.0	0.0009	033.3627	009.1960	022.930
75.00	0.064	1.0	0.0010	035.3512	009.1496	020.853
76.00	0.067	1.0	0.0011	037.0083	008.9531	019.091
77.00	0.07	1.0	0.0012	038.6654	008.6978	017.326
78.00	0.073	1.0	0.0013	040.3224	008.3835	015.559
79.00	0.076	1.0	0.0014	041.9795	008.0101	013.792
80.00	0.079	1.0	0.0016	043.6366	007.5774	012.026
81.00	0.082	1.0	0.0017	045.0728	007.0509	010.482
82.00	0.084	1.0	0.0018	046.5089	006.4728	008.944
83.00	0.087	1.0	0.0019	047.9450	005.8430	007.412
84.00	0.089	1.0	0.0020	049.3812	005.1617	005.889
85.00	0.092	1.0	0.0021	050.8173	004.4290	004.376
86.00	0.093	1.0	0.0022	051.5906	003.5988	003.535
87.00	0.095	1.0	0.0022	052.3639	002.7405	002.708
88.00	0.096	1.0	0.0023	053.1372	001.8545	002.195
89.00	0.098	1.0	0.0024	053.9106	000.9409	001.098
90.00	0.099	1.0	0.0025	054.6839	000.0000	000.316

EXHIBIT D- 74.1201(g) Compliance to WPLR (FM)

W272DO PROP 74.1201(g) Compliance

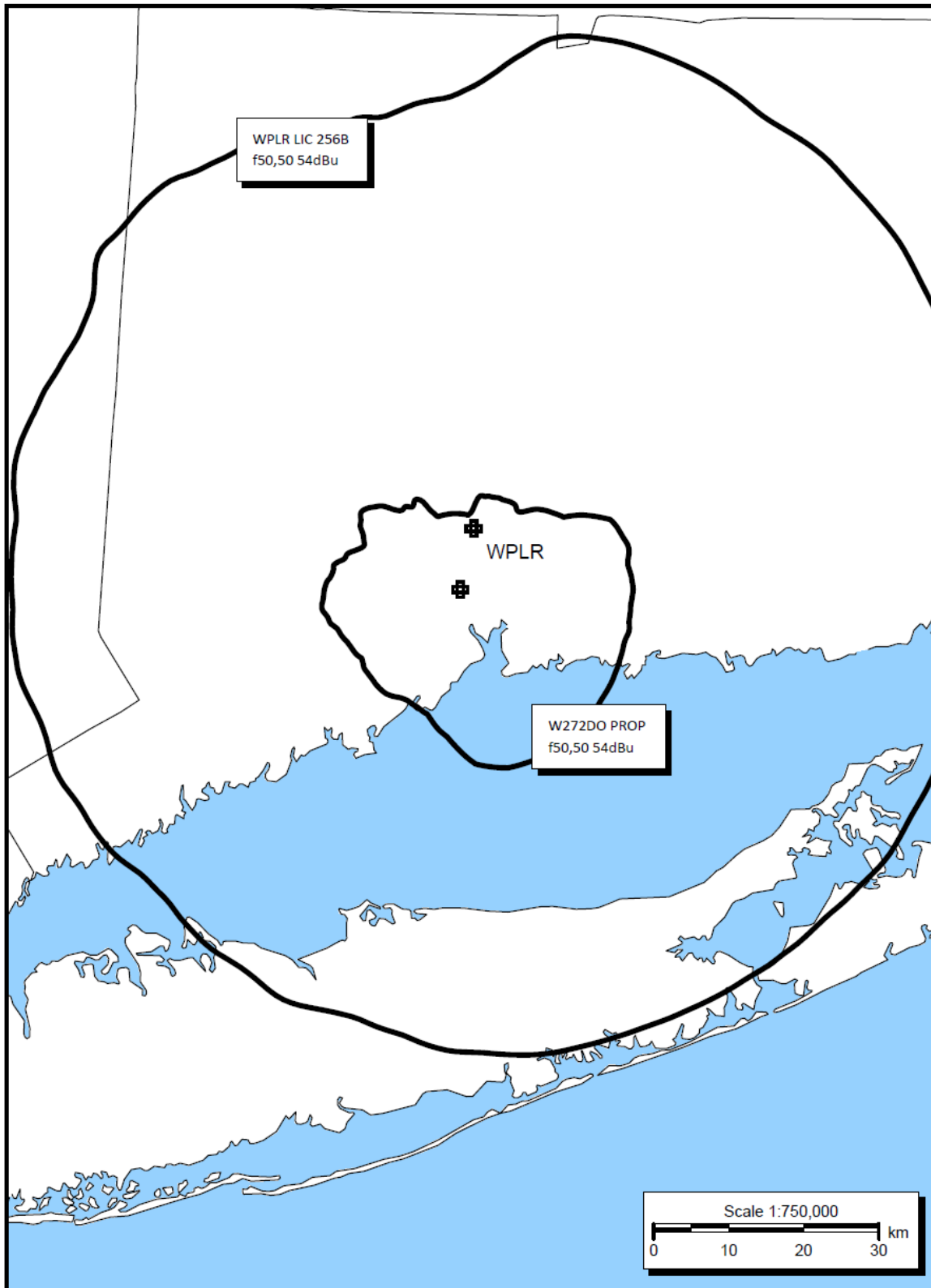


EXHIBIT E- 74.1233(a)(1) Compliance

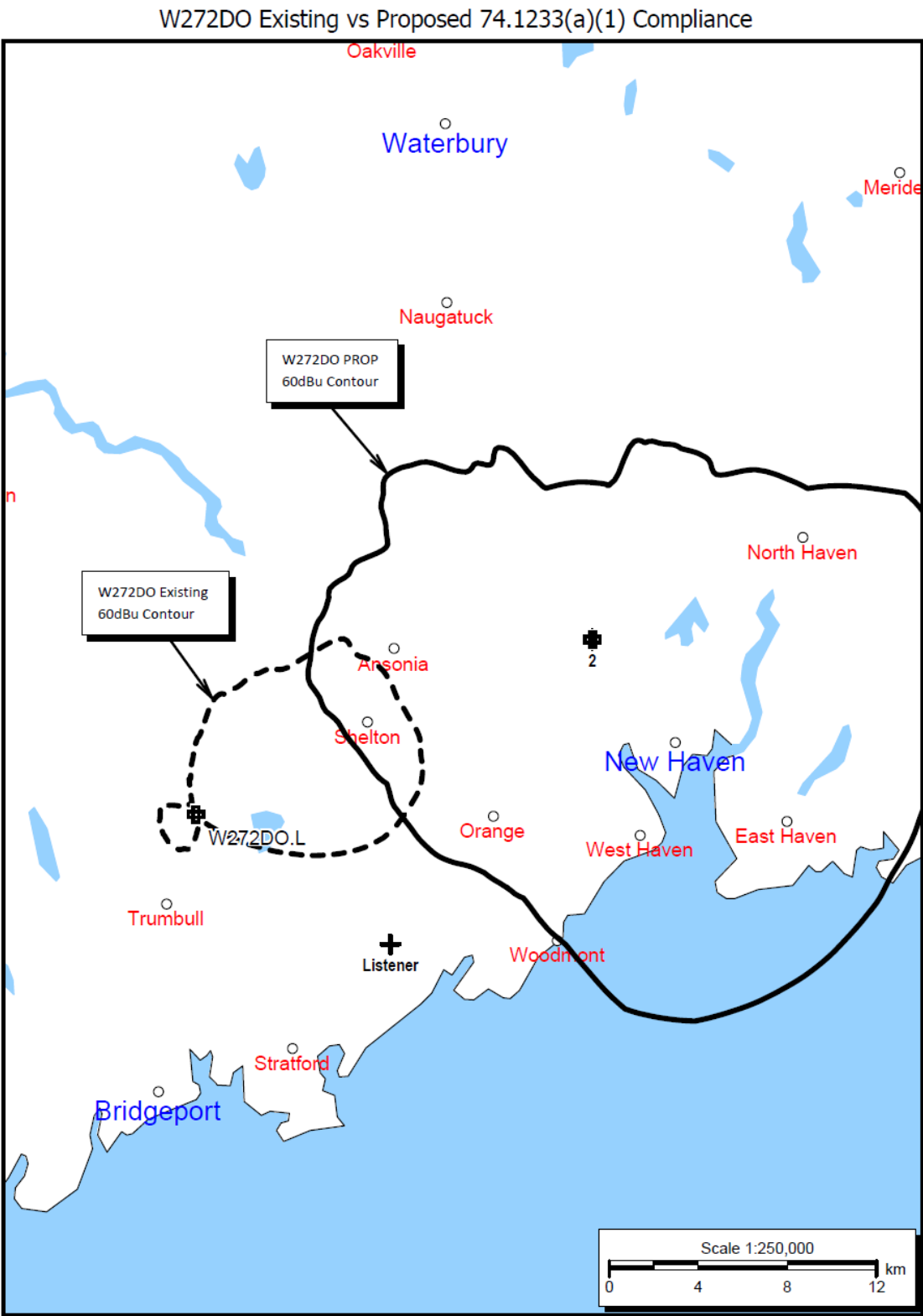


EXHIBIT F- ANTENNA STRUCTURE REGISTRATION

Registration 1045133

 [Map Registration](#)

Registration Detail

Reg Number	1045133	Status	Constructed
File Number	A0491786	Constructed	01/01/1979
EMI	No	Dismantled	
NEPA	No		

Antenna Structure

Structure Type TOWER - Free standing or Guyed Structure used for Commu

Location (in NAD83 Coordinates)

Lat/Long	41-20-59.2 N 072-58-21.6 W	Address	1055 WINTERGREEN AVE
City, State	HAMDEN , CT		
Zip	06514	County	NEW HAVEN
Center of AM Array		Position of Tower in Array	

Heights (meters)

Elevation of Site Above Mean Sea Level	Overall Height Above Ground (AGL)
135.7	79.6
Overall Height Above Mean Sea Level	Overall Height Above Ground w/o Appurtenances
215.3	75.8

Painting and Lighting Specifications

FAA Chapters 3, 4, 5, 13
Paint and Light in Accordance with FAA Circular Number 70/7460-1J

FAA Notification

FAA Study	97-ANE-0492-OE	FAA Issue Date	10/16/1997
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Owner & Contact Information

FRN	0014660641	Owner Entity Type	
Assignor FRN	0003575891	Assignor ID	L00029957

Owner

Westrock, LLC	P: (860)727-5742
Attention To: Maria A. Scotti	F:
40 Woodland Street	E: mscotti@mcmgmt.com
Hartford , CT 06105	

Contact

King , Virginia	P: (860)727-5790
40 Woodland Street	F:
Hartford , CT 06105	E: vking@mcmgmt.com

Last Action Status

Status	Constructed	Received	02/10/2006
Purpose	Change Owner	Entered	02/10/2006