

CONSOLIDATED ENGINEERING STATEMENT
PREPARED IN SUPPORT OF APPLICATION
FOR CONSTRUCTION PERMIT
WSHU SACRED HEART UNIVERSITY, INCORPORATED
0.017/0.65 kW LS ND-U 1260 kHz FACILITY ID No. 43126
SEYMOUR, CONNECTICUT

AUGUST 2014

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ENGINEERING STATEMENT

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SUMMARY

The following consolidated engineering statement has been prepared in support of an Application for Construction Permit by **SACRED HEART UNIVERSITY, INCORPORATED (“SHU”)** which proposes to change community of license, operate with a non-directional antenna system and decrease daytime power for standard broadcast facility WSHU, 1260 kHz at Seymour, Connecticut, FCC ID No. 43126. The proposed tower is an existing, FCC registered site. No change in frequency is proposed and continued operation as a Class D facility is proposed. The proposed daytime power will be reduced from 1.0 kW to 0.65 kW. This application is complete with the Forms, Exhibits, Figures and Appendix as found in the Table of Contents and is believed to comply with all applicable FCC Rules, Regulations and Policies unless stated herein.

COMMUNITY OF LICENSE DATA

WSHU is currently licensed to Westport which is located in Fairfield County, Connecticut which is a part of the Bridgeport-Stamford CT -NY urbanized area. 2010 census data for Westport indicates a population of 26,391 persons in a 19.96 square mile area. The 2000 population was 25,749 persons. The growth rate from 2000 to 2010 is 2.49%. Westport currently has the following aural outlets:

WWPT 90.3 MHz Class A
WEBE 107.9 MHz Class B
WSHU 1260 kHz Class D

It is proposed to change the community of license to Seymour (“Seymour”) which is located in New Haven County, Connecticut and is not a part of any urbanized area based on 2010 U.S. Census publication CPH-2-8. 2010 U.S. Census data for Seymour indicates a population of 16,540 persons in an area of 14.52 square miles while the 2000 population was 15,454 persons representing a 7.02% growth rate. Seymour currently has no aural outlets allowing WSHU to bring a first local aural service to a community which exhibits a growth rate significantly above that of Westport.

FCC FORM 301, SECTION III-A

FCC Form 301, Section III-A has been completed. Questions requiring a narrative response are addressed below:

Questions 4d, 5d, 6d

The proposed tower carries FCC Registration #1209826. The tower is a grounded self-supporting structure. The tower will be excited via a skirt wire system configured as a vertical dipole eliminating the need for a standard ground system. This configuration is the same concept as that reviewed and approved by OET in an application for CP for KRMD, Shreveport, Louisiana, BP-20040719ABJ. This configuration is currently on the air and operating at KXEN, 1010 kHz, St. Louis, Missouri for nighttime STA operation. Final method of moments wire model design will commence after further data on the tower is obtained and the most appropriate physical layout is determined. When the model study is completed it will be filed as Appendix 1 in an amendment. Figure 10 will also be filed in the amendment.

Antenna system physical configuration data appears on Exhibit I.

This is a regional channel and thus critical hours calculations are not required.

Section 73.24(g) compliance is achieved due to the relatively rural nature of the site. Population in the proposed 1 V/m daytime contour is 0 persons. The applicant pledges to comply fully with *Rule Section 73.88*.

Question 8

Figure 5 depicts the proposed daytime 5, 2 and 0.5 mV/m contours. Area and population data follows:

5 mV/m	45,469 persons in 132.9 square kilometers
2 mV/m	143,636 persons in 348.1 square kilometers
0.5 mV/m	766,655 persons in 1,797.2 square kilometers

Figure 6 depicts the proposed daytime 5 mV/m contour in relation to the Seymour community boundary. The proposed 5 mV/m contour extends out 6.4 kilometers over the Seymour census designated boundary and envelopes 85.3% of the community boundary and 85.3% of the population in the community based on uniform distribution of population inside the community boundary. It is noted that the next community to the south is Ansonia, Connecticut which is located in the Bridgeport-Stamford, CT-NY urban area. The 5 proposed mV/m contour covers 75.9 % of the Ansonia corporate boundary and WADS, 690 kHz, is licensed to Ansonia. These factors make Seymour the clear choice of community of license for the proposed site.

A waiver of 73.24(i) is herein requested and more fully explained later in this statement. SHU will be filing its tenth STA request simultaneously with this application for CP. A review of the FCC STA files will show that SHU has pursued many alternative sites over a period of more than eight years and has been unable to locate a site which meets all FCC filing criteria. This is the first site location that SHU has located which demonstrates multiple public interest benefits including 1) first service to a community with a population of 16,540 persons lying outside an urban area, 2) a dramatic reduction in both caused and received overlap benefitting not only WSHU but three other AM stations located in New Jersey and New York states, 3) an existing site unburdened with potential environmental and blanketing problems which could prevent

construction or make construction prohibitively expensive and 4) the ability to return WSHU to licensed operation.

Question 10(a)

Figures 1 & 2 depict the proposed daytime allocation for co-channel stations. Figure 3 depicts the 1st adjacent channel daytime allocation. Figure 4 depicts the 2nd and 3rd adjacent channel protections. There is no prohibited contour overlap on the 2nd and 3rd adjacent channels.

The licensed facility is involved in grandfathered co and 1st adjacent channel overlap. In all cases the proposed facility is associated with either a total removal of overlap or a reduction in overlap.

Co-ch caused overlap to WBNR, Beacon, NY

Licensed WSHU to WBNR = 2,729.6 sq. kM with 573,477 persons
Proposed WSHU to WBNR = 2,711.0 sq. kM with 528,555 persons
Reduction = 18.6 sq. kM and 44,922 persons

Co-ch caused overlap to WFJS license, Trenton, NJ

Licensed WSHU to WFJS = 593.6 sq. kM with 218,482 persons
Proposed WSHU to WFJS = 0 sq. kM with 0 persons
Reduction = 593.6 sq. kM and 218,482 persons

Co-ch caused overlap to WFJS CP, Trenton, NJ

Licensed WSHU to WFJS = 528.6 sq. kM with 201,107 persons
Proposed WSHU to WFJS = 0 sq. kM with 0 persons
Reduction = 528.6 sq. kM and 201,107 persons

Co-ch received overlap from WBNR, Beacon, NY

Licensed WSHU from WBNR = 3,150.2 sq. kM with 1,090,122 persons
Proposed WSHU from WBNR = 1,683.9 sq. kM with 748,194 persons
Reduction = 1,466.3 sq. kM and 341,928 persons

Co-ch received overlap from WFJS license, Trenton, NJ

Licensed WSHU from WFJS = 164.4 sq. kM with 77,351 persons

Proposed WSHU from WFJS = 0 sq. kM with 0 persons

Reduction = 164.4 sq. kM and 77,351 persons

Co-ch received overlap from WFJS CP, Trenton, NJ

Licensed WSHU from WFJS = 163.1 sq. kM with 76,541 persons

Proposed WSHU from WFJS = 0 sq. kM with 0 persons

Reduction = 163.1 sq. kM and 76,541 persons

1st adj. ch caused overlap to WMTR, Morristown, NJ

Licensed WSHU to WMTR = 533.4 sq. kM with 1,508,001 persons

Proposed WSHU to WMTR = 0 sq. kM with 0 persons

Reduction = 533.4 sq. kM and 1,508,001 persons

1st adj. ch received overlap from WMTR, Morristown, NJ

Licensed WSHU from WMTR = 2,099.0 sq. kM with 277,225 persons

Proposed WSHU from WMTR = 258.3 sq. kM with 0 persons

Reduction = 1,840.7 sq. kM and 277,225 persons

Question 11

Supplement A, Edition 97-01 to OET Bulletin No. 65, has been referenced concerning appropriate fencing distances.

An existing fence keeps the public a minimum of 10' (3 meters) from any tower leg or portion of the tower.

For the proposed power levels the installed fence dimensions exceed the *Supplement A, Edition 97-01, Section 1*, requirements. Power will be reduced or transmission will cease when workers are on or near the tower.

RURAL RADIO COMPLIANCE

There is no possible opportunity for a WSHU 1260 kHz facility to serve 50% or more of any Urbanized Area in a second step. U.S. Census Publication CPH-2-8 states that the urban area in Bridgeport-Stamford alone is 624.89 square miles (land area). The proposed 5 mV/m contour has a radius of 6.4 kilometers (4.0 miles) in a 1 millisiemens conductivity which is an area of 50.3 square miles or 8.04% of the urban area in Fairfield County. The New Haven Urbanized Area land area is listed as 604.51 square miles. In this county the 50.3 square mile 5.0 mV/m contour would encompass 8.3% of the urban area. The allocation restrictions on 1260 kHz in the available site area restricts WSHU to a very low power level and thus there is no opportunity to serve 50% or more of an urban area. The Waterbury, CT Urbanized Area is not a possible site area or area in which 50% Urban Area coverage is possible due allocation restrictions associated with WBNR on 1260 kHz and WSPR on 1270 kHz.

PUBLIC INTEREST SHOWING

Grant of the facilities proposed herein is associated with the following public interest factors:

- Implementation of a first aural service to Seymour, Connecticut which is outside of any urban area – please see Figure 11.

- No white or gray areas are created should the application be granted based on both 0.5 mV/m and 2 mV/m contours. Figure 7 depicts the licensed and proposed 2 mV/m and 0.5 mV/m contours. This map demonstrates that there is no duplication of the licensed and proposed 5 mV/m contours and also the 2 mV/m contours. See Figures 13 & 14 for the required other services study. Figure 13 depicts the WSHU 0.5 mV/m loss area in relation to the presence of FM 60 dBu contours. Other 0.5 mV/m contours were not considered as much of the area is made of urban area with communities in excess of 2,500 persons which would not be considered to be served by a 0.5 mV/m contour. Figure 14 depicts the WSHU 2.0 mV/m contour with other AM 2.0 mV/m contours and FM 60 dBu contours considered.

Reduction in caused interference

- A reduction in caused daytime overlap to the co-channel daytime facility of WBNR, 1260 kHz, Beacon, New York involving 44,922 persons in an area of 18.6 square kilometers.
- A reduction in caused daytime overlap to the licensed co-channel daytime facility of WFJS, 1260 kHz, Trenton, New Jersey involving 218,482 persons in an area of 593.6 square kilometers.
- A reduction in caused daytime overlap to the construction permit of co-channel daytime facility of WFJS, 1260 kHz, Trenton, New Jersey involving 201,107 persons in an area of 528.6 square kilometers.
- A reduction in caused daytime overlap to 1st adjacent channel daytime facility WMTR, 1250 kHz, Morristown, New Jersey involving 1,508,001 persons in an area of 533.4 square kilometers.

The total reduction in caused contour overlap to licensed facilities involves 1,771,405 persons in an area of 1,145.6 square kilometers.

Reduction in received interference

- A reduction in received daytime overlap from the co-channel daytime facilities of WBNR, 1260 kHz, Beacon, New York involving 1,466.3 square kilometers and 341,928 persons in the 0.5 mV/m contour.
- A reduction in received daytime overlap from the licensed co-channel daytime facility of WFJS, 1260 kHz, Trenton, New Jersey involving 77,351 persons in an area of 164.4 square kilometers.
- A reduction in received daytime overlap from the construction permit of co-channel daytime facility WFJS, 1260 kHz, Trenton, New Jersey involving 76,541 persons in an area of 163.1 square kilometers.
- A reduction in received daytime overlap from 1st adjacent channel daytime facility WMTR, 1250 kHz, Morristown, New Jersey involving 277,225 persons in an area of 1,840.7 square kilometers.

The total reduction in received contour overlap to the WSHU 0.5 mV/m contour involves 696,504 persons in an area of 3,471.4 square kilometers.

73.24(i) WAIVER REQUEST

As stated previously SHU requests a waiver of the rule section based on coverage of 85.3% of the area and population of Seymour, Connecticut. SHU believes that the effort that it has taken over the last five years demonstrates the significant expense and effort put forth to identify a site that is compliant with all FCC requirements for facility licensing. A partial list of the sites studied and effort undertaken is listed below in support of the request for waiver:

1. Southwest Connecticut, the urban area where the WSHU transmitter site is currently located, lies almost entirely in a 1 millisiemens conductivity which places the 5 mV/m contour 6-7 kilometers from the transmitter site for an omnidirectional facility that has some potential to comply with the allocation requirement of maintaining or reducing grandfathered overlaps. Covering 100% of a community requires a tower site that is perfectly centered on the community when omnidirectional operation is proposed. SHU has spent over eight years searching up and down the site area and has been unable to find a site that meets FCC coverage and allocation criteria. Sites of all kinds have been studied including existing AM sites, open land, roof tops where a Valcom radiator could be deployed and existing communications sites where a custom antenna system could be deployed. No viable site has been found in an area that would allow 100% city coverage. Existing AM sites have also been considered. *Figure 12* depicts all AM sites which are located in the viable site area which WSHU has considered. Each site is addressed below.
2. WGCH – This site is too far south to allow the required reduction in grandfathered overlap to WFJS and WMTR while meeting minimum RMS requirements. Further, it is 11 km from the northern community boundary preventing all of Greenwich from being covered. WGCH is licensed to Greenwich and Greenwich is the only possible community of license for this site.
3. WSTC – this site is 14 km southeast of the northern side of the community boundary. It is impossible to serve even 50% of the community boundary from the WSTC site.

Further, WSTC is licensed to Stamford, the only possible community of license to be served from this site.

4. WNLK – this site employs a two tower directional array and is sufficiently close to WFJS and WMTR that a null is required to reduce grandfathered overlap.
5. Unfortunately the tower orientation is too far to the east to properly protect these stations and provide coverage over the entire community of license. Further, WNLK is licensed to Norwalk which is the only possible community of license for this site.
6. WDJZ – this three tower directional array does have an orientation favorable to the allocation and the city of Bridgeport could be encompassed by the proposed 5 mV/m contour. Unfortunately, lengthy investigation of this site and the conditions surrounding the property have demonstrated that a duplex operation cannot be successfully implemented and operated.
7. WCUM – this single tower has been tested with Trumbull, Bridgeport and Stratford as possible communities of license. A facility at this site cannot comply with the FCC city of license requirements.
8. WICC – this site, located on an island, has been considered on multiple occasions. The bottom line is that the existing two tower DA orientation does not fit the allocation requirements. More importantly, less than 50% of Bridgeport and Stratford can be covered from this site and they are the only potentially viable communities.
9. WFIF – this site was specified in a 301 application filed in 2010. The Commission staff was unable to waive the 100% coverage requirement for Stratford, the only potential community of license.

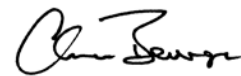
10. WADS – this site and existing two tower directional were found to be incapable of providing the required city grade coverage to any community. Derby, Ansonia and Shelton were all considered.
11. WYBC – this site is a single radiator operates on 1340 kHz. It was believed that the 80 kHz separation to WSHU on 1260 kHz was not a viable diplex. Further, the required coverage over West Haven or New Haven was impossible due to the size of these communities and they are the only viable communities.
12. WAVZ – This site operates on 1300 kHz with a two tower directional array at night. Diplexing with 40 kHz frequency separation is simply not possible with any acceptable audio bandwidth.
13. WQUN – This site operates on 1220 kHz with a two tower directional array. Diplexing with 40 kHz frequency separation is simply not possible with any acceptable audio bandwidth. This site becomes the easterly limit of the site area as the 0.25 mV/m contour of 1st adjacent channel station WSPR on 1270 kHz creates overlap to even a 250 watt facility at this location. In addition the 0.025 mV/m co-ch interfering contour for WMKI in Boston cuts through the center of Middlesex County just to the east.
14. WELI – This site is located in Hamden, Connecticut and employs a four tower inline array pointing generally north/south. Protection requirement north prevent either Hamden or North Haven from being fully served with the required 5 mV/m contour. The communities of New Haven and East Haven extend too far south to allow the full required city grade coverage.

MULTIPLE OWNERSHIP

Sacred Heart University, Incorporated is a non-commercial entity.

CONCLUSION

The foregoing was prepared on behalf of **SACRED HEART UNIVERSITY, INCORPORATED** by Clarence M. Beverage of *Communications Technologies, Inc.*, Marlton, New Jersey, whose qualifications are a matter of record with the Federal Communications Commission. The undersigned certifies, under penalty of perjury, that the statements herein are true and correct of his own knowledge, except such statements made on information and belief, and as to these statements he believes them to be true and correct.



By _____

Clarence M. Beverage
for Communications Technologies, Inc.
Marlton, New Jersey

August 20, 2014

EXHIBIT I

PHYSICAL DESCRIPTION OF DIRECTIONAL ANTENNA SYSTEM WSHU SACRED HEART UNIVERSITY, INCORPORATED PROPOSED 1260 kHz 0.017/0.65 kW ND-U SEYMOUR, CONNECTICUT

AUGUST 2014

TRANSMITTER SITE: (NAD27)	North Latitude: 41° 23' 29.0" West Longitude: 73° 03' 14.0"
TOWER: (Total of one)	Electrical (EACH HALF OF VERTICAL DIPOLE) 64.1° 87.8 meters above base (288') tower steel 87.8 meters AGL (288') overall height Note: dipole skirt feed starts at 3.0 meters (10') AGL and the aperture below 10' not counted in electrical height.
RADIATOR TYPE:	Vertical, self-supporting, grounded tower.
PATTERN ASSUMPTION:	Sinusoidal current distribution
GROUND SYSTEM:	None required – vertical dipole.

EXHIBIT II

NIGHT RSS CALCULATIONS

WSHU SACRED HEART UNIVERSITY, INCORPORATED PROPOSED 1260 kHz 0.017/0.65 kW ND-U SEYMOUR, CONNECTICUT

AUGUST 2014

RSS NIGHT LIMIT – PROPOSED WSHU SITE

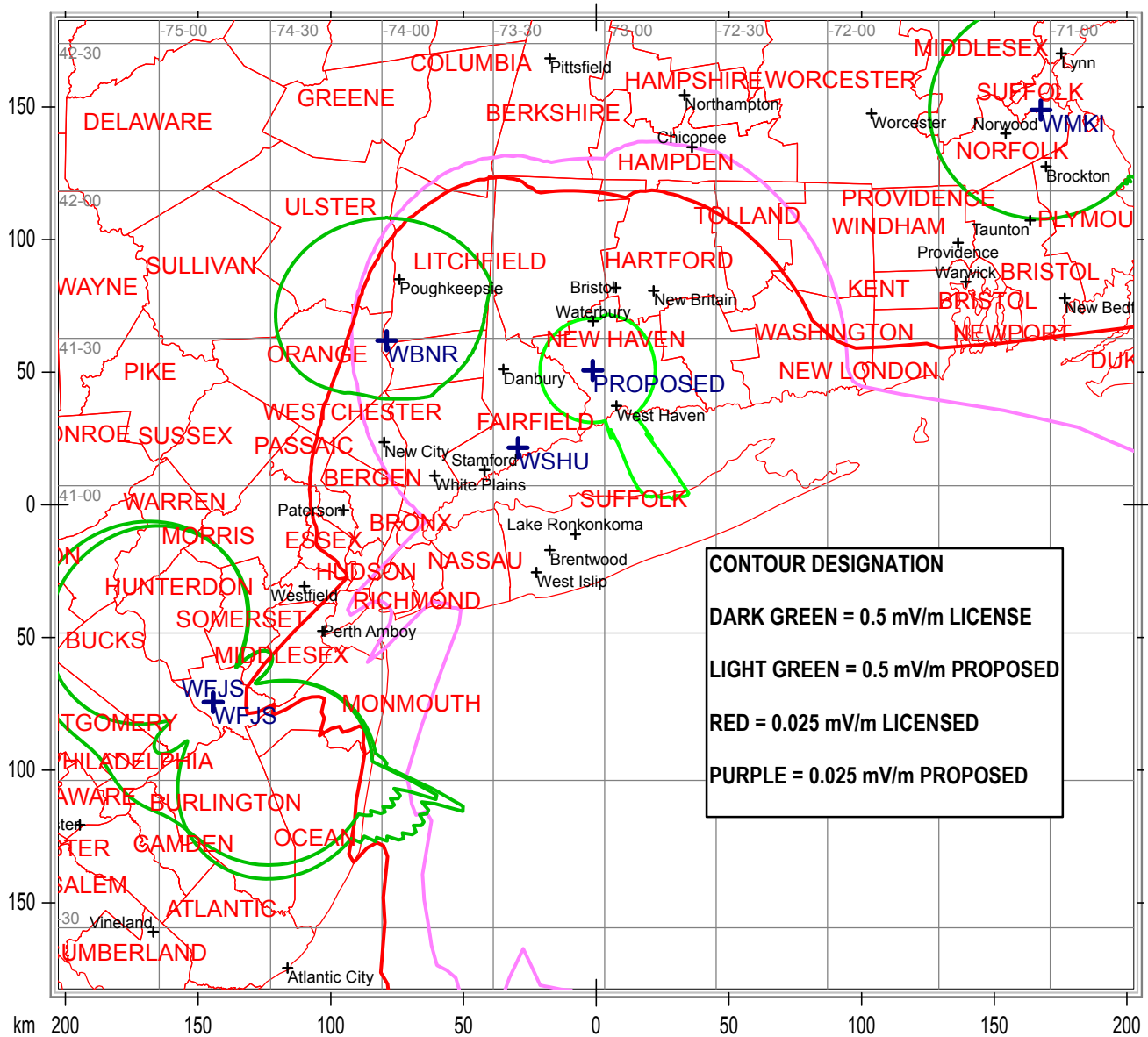
AM Night Interference Free for PROPOSED													
Report ... Send to XMIT													
Call	Freq	Country	City	S	Use	Class	Dist	Azimuth	Radiation on Gnd	Min Elev	Max Elev	Max Radiation	SkyWave
WBNR	1260	US	BEACON	N	On	B	77.9	278.58 / 097.97	70.8	61.4	71.8	71.7	0.422971
WMKI	1260	US	BOSTON	M	On	B	193.4	058.83 / 240.17	103.4	36.2	50.6	100.0	0.290274
WSKO	1260	US	SYRACUSE	N	On	B	307.4	307.23 / 125.21	190.2	24.4	37.2	107.5	0.190607
WWRC	1260	US	WASHINGTON	D	On	B	431.6	233.28 / 050.69	63.4	17.5	28.0	58.2	0.133358
WFJS	1260	US	TRENTON	N	On	B	190.3	229.43 / 048.31	40.9	36.7	51.0	23.1	0.298107
WRIE	1260	US	ERIE	P	On	B	584.2	279.57 / 094.92	79.7	12.5	20.9	77.0	0.083690
WPHB	1260	US	PHILIPSBURG	P	On	D	434.1	264.38 / 081.00	52.0	17.4	27.8	48.5	0.129399
WZBO	1260	US	EDENTON	N	Off	D	665.3	208.65 / 026.43	56.4	10.7	18.3	54.9	0.075234
WWMK	1260	US	CLEVELAND	O	On	B	716.8	271.91 / 086.23	63.5	9.7	16.8	62.2	0.061702
WCHV	1260	US	CHARLOTTESVIL	V	On	B	587.9	233.47 / 050.02	44.1	12.4	20.8	39.4	0.088067
CIHI	1260	CA	FREDERICTON	N	On	B	723.2	042.79 / 227.19	39.3	9.6	16.7	39.9	0.054319

RSS NIGHT LIMIT – OTHER STATIONS

The most stringent radiation limitation to the proposed WSHU nighttime facility is WMKI, 1260kHz, Boston, Massachusetts. The printout below demonstrates that the proposed night facility slightly reduces the current RSS night contribution to WMKI.

AM Night Interference Free for WMKI													
Report ... Send to XMIT													
Call	Freq	Country	City	St.	Dist	Use	Class	Dist	Azimuth	Radiation on Gnd	Min Elev	Max Elev	Max Radiation
WSHU	1260	US	WESTPORT	CT	232.7	On	D	232.7	237.61 / 056.05	45.6	31.2	45.2	34.4
PROPOSE	1260	US			193.4	On	B	193.4	240.17 / 058.83	37.7	36.2	50.6	29.2
WBNR	1260	US	BEACON	NY	258.1	On	B	258.1	251.30 / 069.34	76.0	28.6	42.2	30.7
WFJS	1260	US	TRENTON	NJ	382.4	On	B	382.4	235.51 / 053.05	45.4	19.8	31.1	43.6
WSKO	1260	US	SYRACUSE	NY	419.1	On	B	419.1	283.19 / 099.78	48.6	18.0	28.7	44.7
WWMK	1260	US	CLEVELAND	OH	885.1	On	B	885.1	266.43 / 079.36	132.5	7.2	13.1	130.7
WWRC	1260	US	WASHINGTON	DC	624.3	On	B	624.3	236.33 / 052.41	59.0	11.6	19.5	57.3
WPHB	1260	US	PHILIPSBURG	PA	614.3	On	D	614.3	257.93 / 073.18	52.0	11.8	19.9	50.4
CIHI	1260	CA	FREDERICTON	NB	539.9	On	B	539.9	038.47 / 221.50	39.1	13.7	22.7	42.6
WRIE	1260	US	ERIE	PA	741.6	On	B	741.6	271.14 / 085.10	64.8	9.3	16.2	63.5
WZBO	1260	US	EDENTON	NC	838.1	On	D	838.1	216.63 / 033.11	56.4	7.9	14.0	55.6
WCHV	1260	US	CHARLOTTESVIL	VA	780.7	On	B	780.7	236.14 / 051.34	32.3	8.7	15.3	30.8

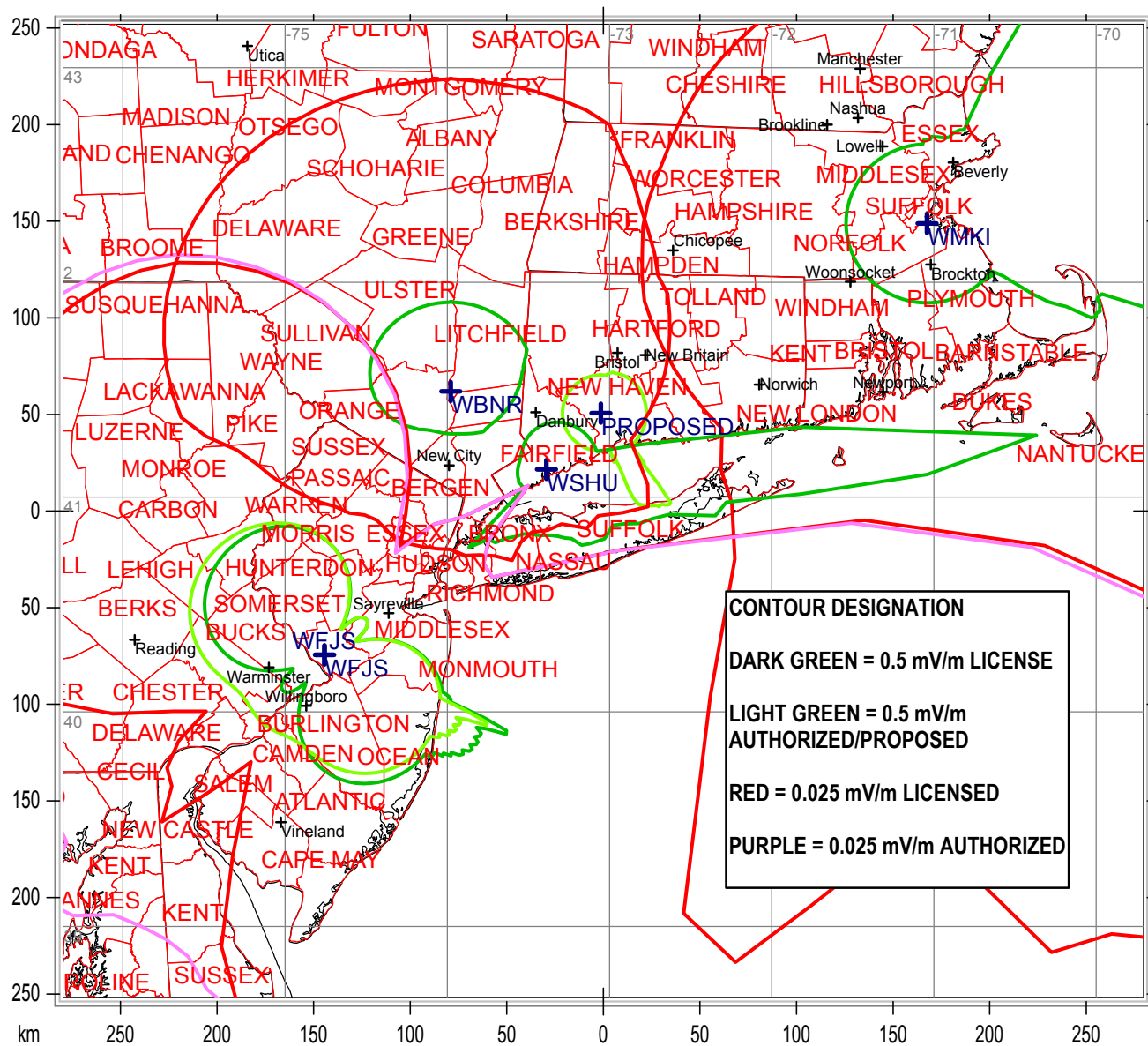
WSHU AM 1260 kHz 0.65 kW ND-D SEYMOUR, CONNECTICUT



Communications Technologies, Inc. Marlton, New Jersey

County Borders Lat/Lon Grid

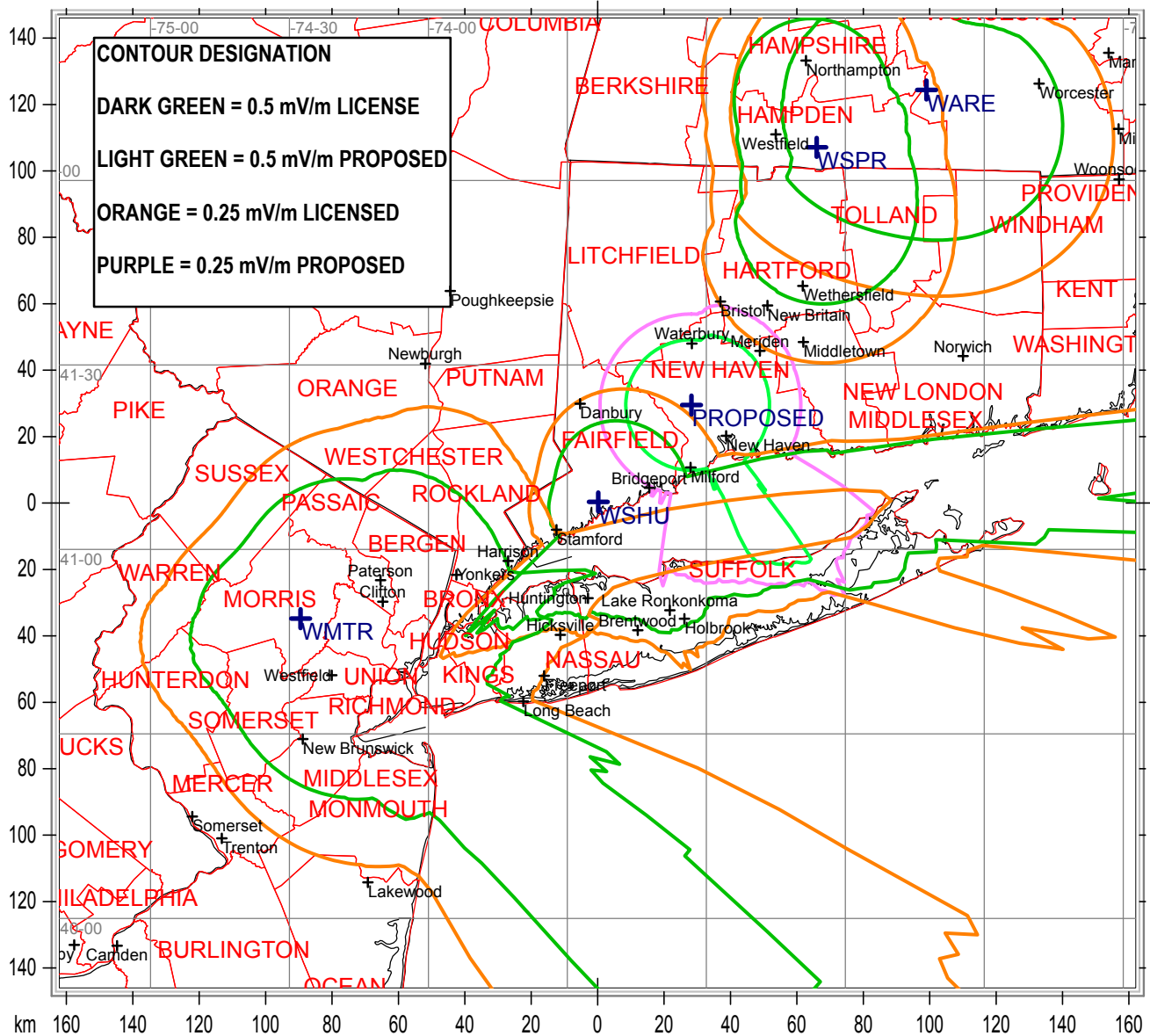
WSHU AM 1260 kHz 0.65 kW ND-D SEYMOUR, CONNECTICUT



Communications Technologies, Inc. Marlton, New Jersey


National Borders
 County Borders
 Lat/Lon Grid

WSHU AM 1260 kHz 0.65 kW ND-D SEYMOUR, CONNECTICUT

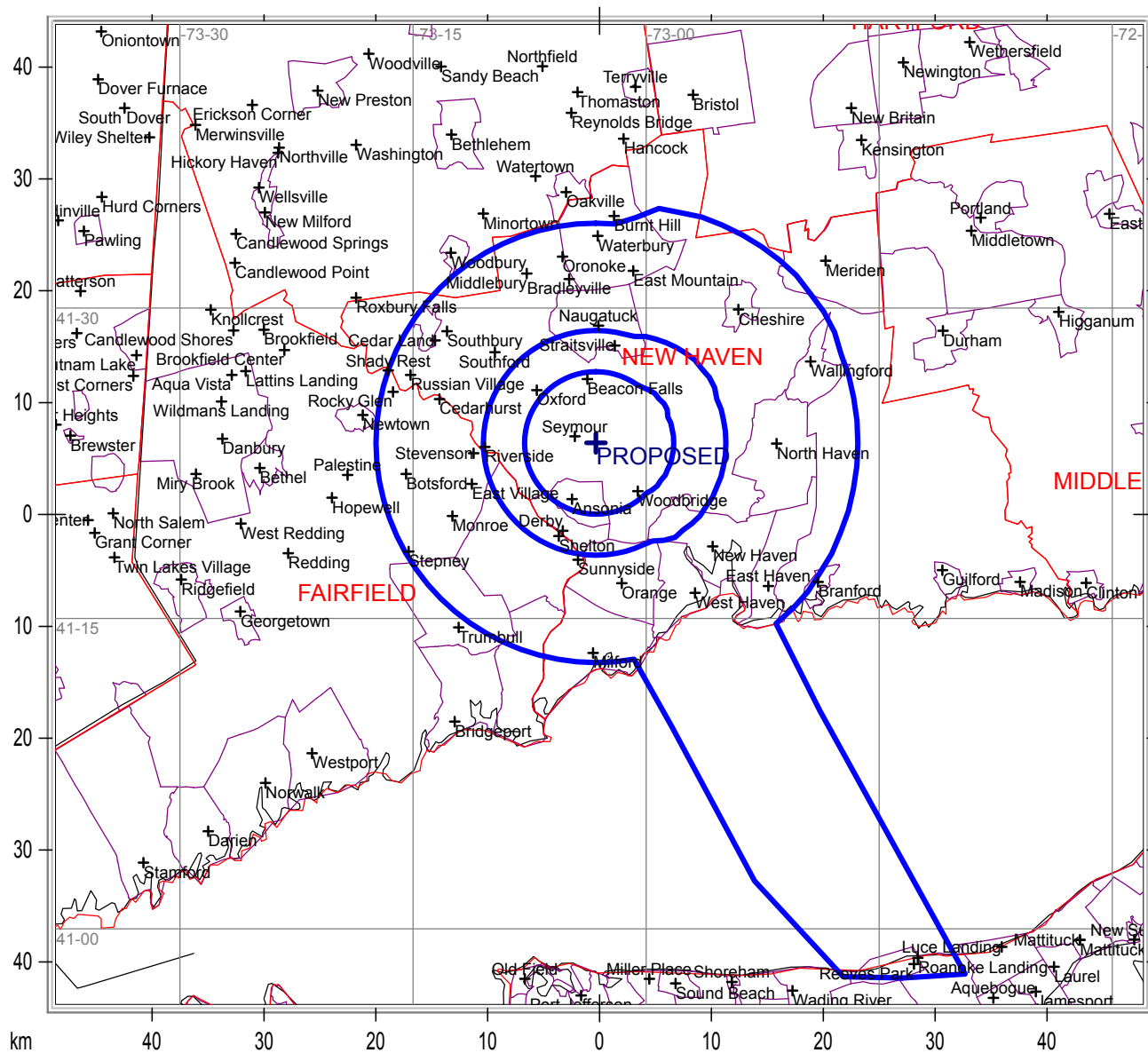


Communications Technologies, Inc. Marlton, New Jersey

National Borders
 County Borders
 Lat/Lon Grid

 National Borders
  County Borders
  Lat/Lon Grid

WSHU AM 1260 kHz 0.65 kW ND-D SEYMOUR, CONNECTICUT



Communications Technologies, Inc. Marlton, New Jersey

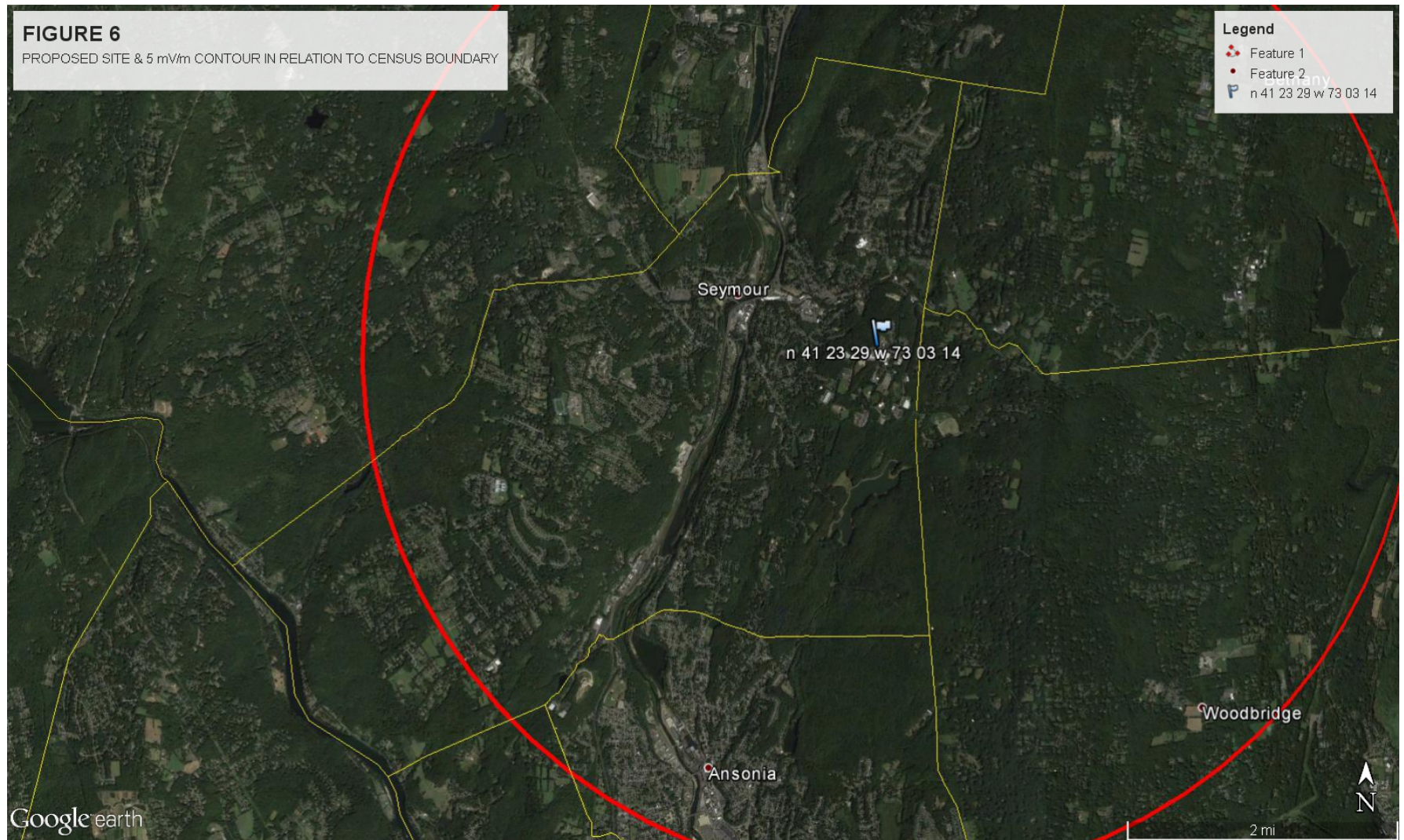
National Borders
 County Borders
 City Borders
 Lat/Lon Grid

FIGURE 6

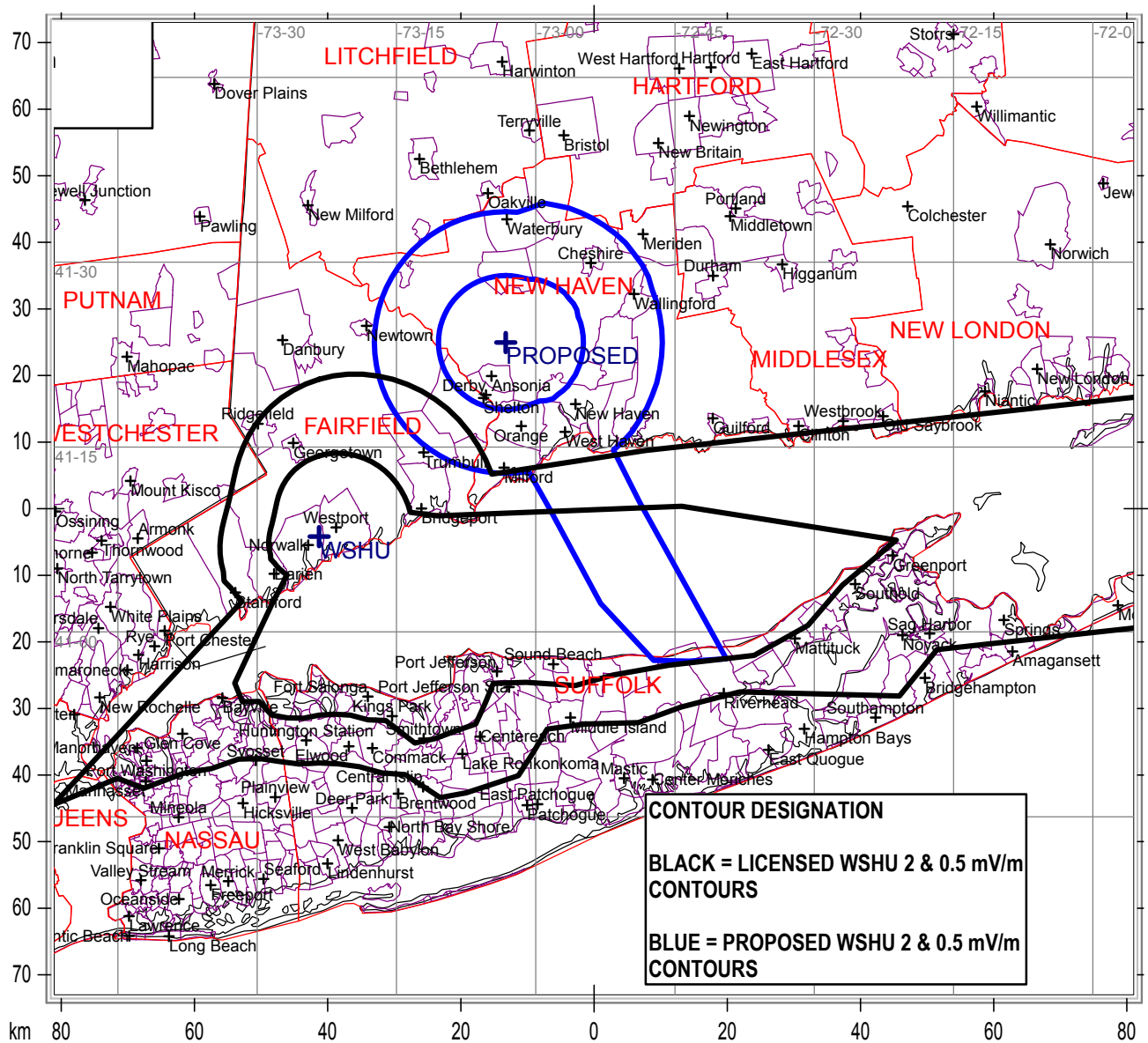
PROPOSED SITE & 5 mV/m CONTOUR IN RELATION TO CENSUS BOUNDARY

Legend

- Feature 1
- Feature 2
- n 41 23 29 w 73 03 14



WSHU AM 1260 kHz 0.65 kW ND-D SEYMOUR, CONNECTICUT

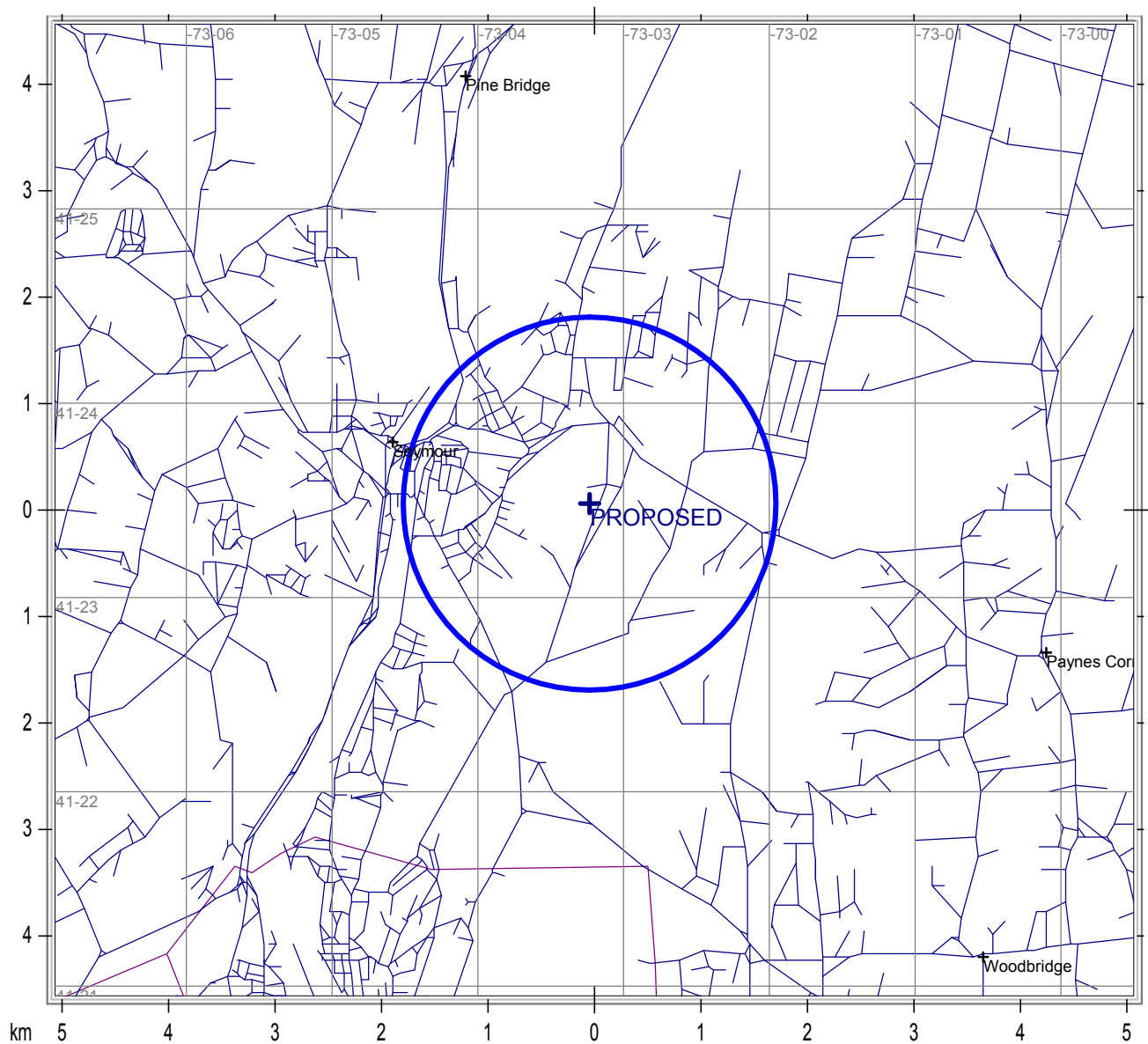


Communications Technologies, Inc. Marlton, New Jersey

National Borders
 County Borders
 City Borders
 Lat/Lon Grid

 National Borders
 County Borders
 City Borders
 Streets
 Lat/Lon Grid

WSHU AM 1260 kHz 0.020 kW ND-N SEYMOUR, CONNECTICUT

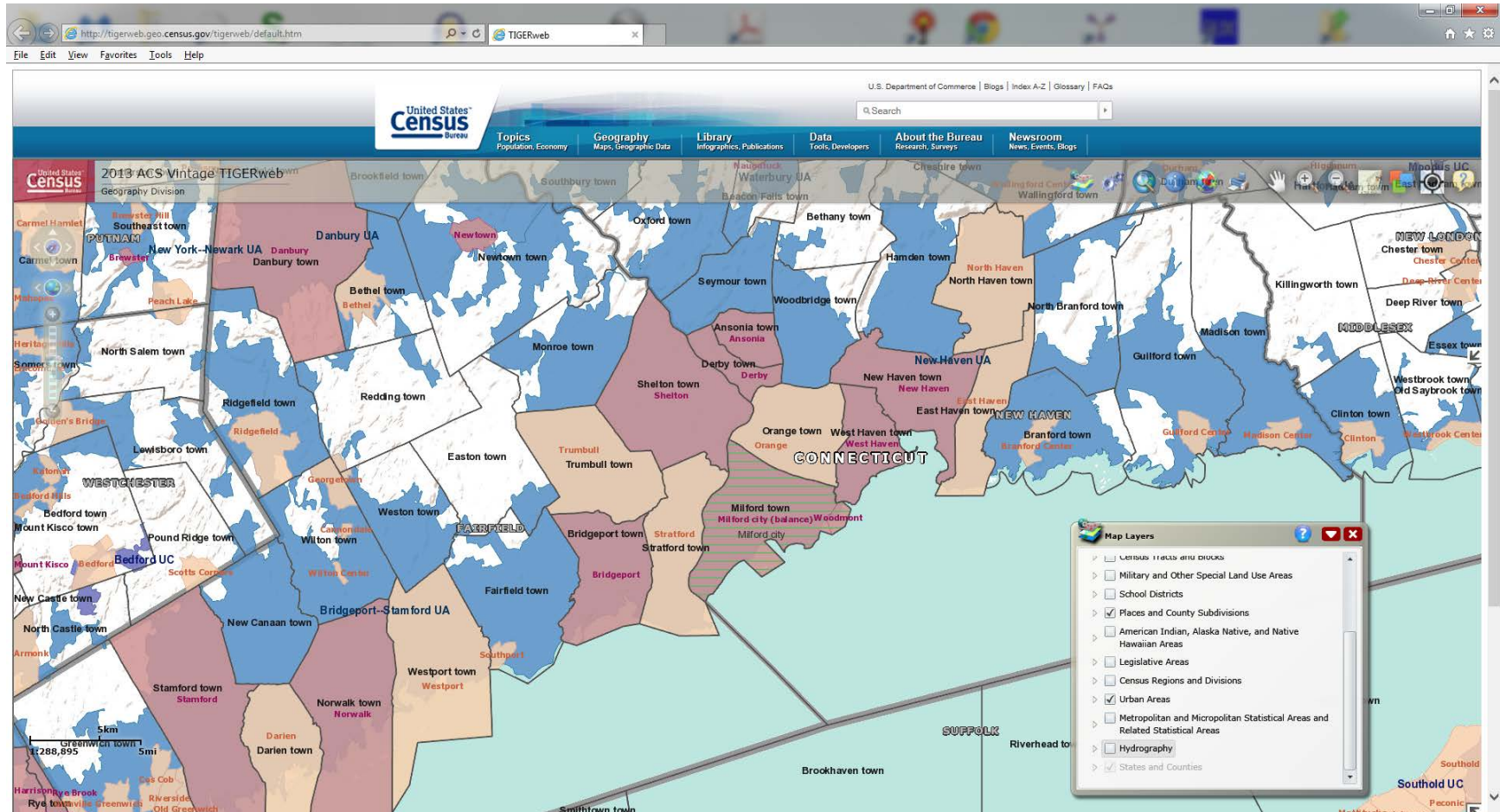


Communications Technologies, Inc. Marlton, New Jersey

— National Borders — County Borders — City Borders — Streets — Lat/Lon Grid




FIGURE 11

U.S. 2010 CENSUS PERTINENT PORTION OF CONNECTICUT URBAN AREA MAP
AREAS SHADED IN BLUE AND WHITE NOT URBANIZED

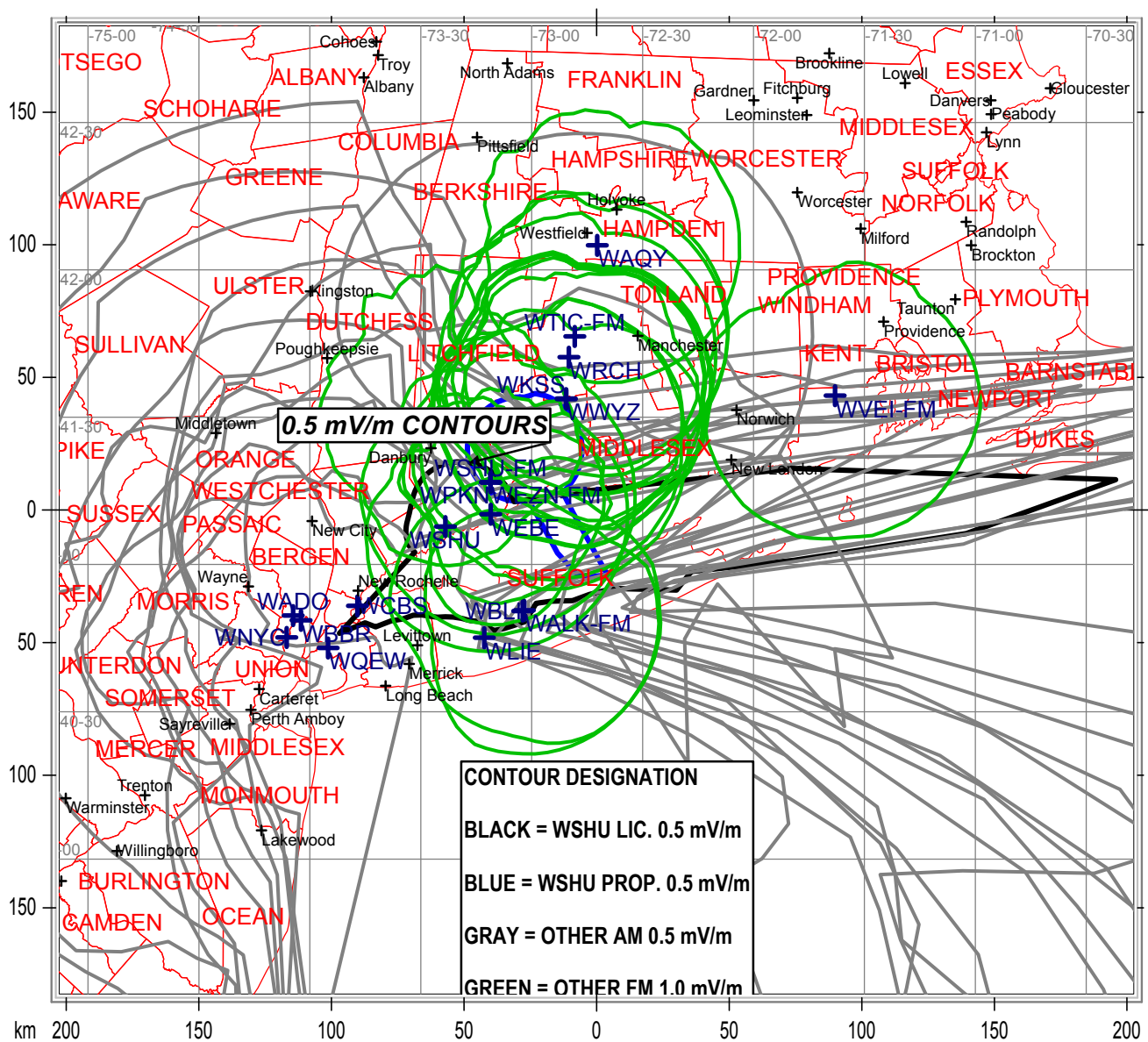


A detailed map of Connecticut, showing its geographical features, major cities, and towns. The map is overlaid with a grid of latitude and longitude lines. Latitude ranges from 40°N to 42°N, and longitude ranges from 71°W to 73°W. A scale bar in kilometers is provided at the bottom left. The map highlights the locations of various radio stations, each marked with a call sign and a frequency. The stations are distributed across the state, with a higher concentration in the central and eastern regions. The map also shows major roads and water bodies, providing a comprehensive overview of the state's geography and infrastructure.

Radio Station	Frequency	Location (Approximate)
WCH	101.1	Greenwich
WSTC	101.1	Greenwich
WNLK	101.1	Norwalk
WCUM	101.1	Georgetown
WFIF	101.1	Milford
WDJZ	101.1	Westport
WYBG	101.1	New Haven
WVZ	101.1	New Haven
WADS	101.1	Ansonia
WELI	101.1	New Haven
WQUN	101.1	New Haven

 National Borders
  City Borders
  Lat/Lon Grid

WSHU AM 1260 kHz 0.65 kW ND-D SEYMOUR, CONNECTICUT



Communications Technologies, Inc. Marlton, New Jersey

County Borders Lat/Lon Grid

 County Borders
 Lat/Lon Grid