

TECHNICAL EXHIBIT  
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT  
RADIO STATION WCTZ(FM)  
PORT CHESTER, NEW YORK

AUGUST 25, 2010

CH 244A     3.1 KW     141 M

TECHNICAL EXHIBIT  
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT  
RADIO STATION WCTZ (FM)  
PORT CHESTER, NEW YORK  
CH 244A    3.1 KW    141 M

Table of Contents

	Technical Narrative
Figure 1	Sketch of Antenna and Supporting Structure
Figure 2	Map of Proposed Predicted Coverage Contours
Figure 3	Proposed Site Allocation Study

TECHNICAL EXHIBIT  
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT  
RADIO STATION WCTZ(FM)  
PORT CHESTER, NEW YORK  
CH 244A 3.1 KW 141 M

Technical Narrative

The technical exhibit of which this narrative is part was prepared in support of an application for modification of construction permit for radio station WCTZ(FM) on Channel 244A assigned to Port Chester, New York. The applicant proposes, via this minor-change application, to relocate its transmitter site location to the *Trump Plaza* building located at New Rochelle, New York.

Proposed Transmitter Location

A sketch showing the proposed antenna and *Trump Plaza* building shown on Figure 1. As this is an existing building, and the proposed antenna and supporting structure will not extend more than 20 feet above the tallest height of the building rooftop, a FCC *Determination of No Aeronautical Hazard* is not necessary pursuant to Section 17.14(b) of the Commission's Rules.

### Interference Concerns

The 115 dBu predicted "blanketing" contour of the proposed station would extend radially less than 1 kilometer from the transmitting site. No interference is expected. However, the applicant recognizes its responsibility to resolve complaints of interference, including blanketing and receiver-induced interference, as required by Sections 73.315(b), 73.316(e) and 73.318.

### Predicted Coverage Contours

The predicted coverage contours for the proposed operation were calculated in accordance with the provisions of Section 73.313. In accordance with current FCC practice, the distances to the contours were calculated without consideration given to terrain roughness correction factors. The average terrain elevations along 36 evenly spaced radials, beginning with 0° True were obtained from the N.G.D.C. 30-second terrain database. The antenna HAAT along each radial was used in combination with the effective radiated power (ERP) to determine the distance to the predicted 70 dBu and 60 dBu contours.

The coverage contours are shown on a map included as Figure 2. As can be seen on the map, the predicted 70 dBu contour encompasses all of Port Chester, New York. The Port Chester limits were obtained from the 2000 U.S. Census.

### Allocation Study

As discussed below, there are three stations to which WCTZ(FM) does not satisfy the Section 73.207(b) minimum distance separation requirements as tabulated in Sheet 1 of Figure 3. Each short-spacing is discussed separately below.

Section 73.213(a) processing is requested toward both WXYN-FM on Channel 242B at New York and WQHT(FM) on Channel 246B at New York.

Section 73.215 processing is requested towards the authorized (FCC File Number: BPH-20081104AFA) WTSX(FM) on Channel 244A at Lehman Township. As WTSX(FM) is now authorized for a community of license modification (from Port Jervis to Lehman Township), its licensed facility is not provided allocation protection. As shown in the map contained in Sheet 2 of Figure 3, no prohibited contour overlap occurs between the stations.

### Radiofrequency Electromagnetic Field Exposure Analysis

A radiofrequency electromagnetic field measurement survey will be undertaken after construction of WCTZ(FM) at its new transmitter site. This survey will be included in the WCTZ(FM) application for license after construction is completed.

Access to the transmitting site is restricted and appropriately marked with warning signs. When it becomes necessary for workers to ascend the tower, appropriate measures, such as reduction or shut down of power if necessary, shall be taken to ensure that the human exposure to radiofrequency radiation will not exceed the FCC guidelines.

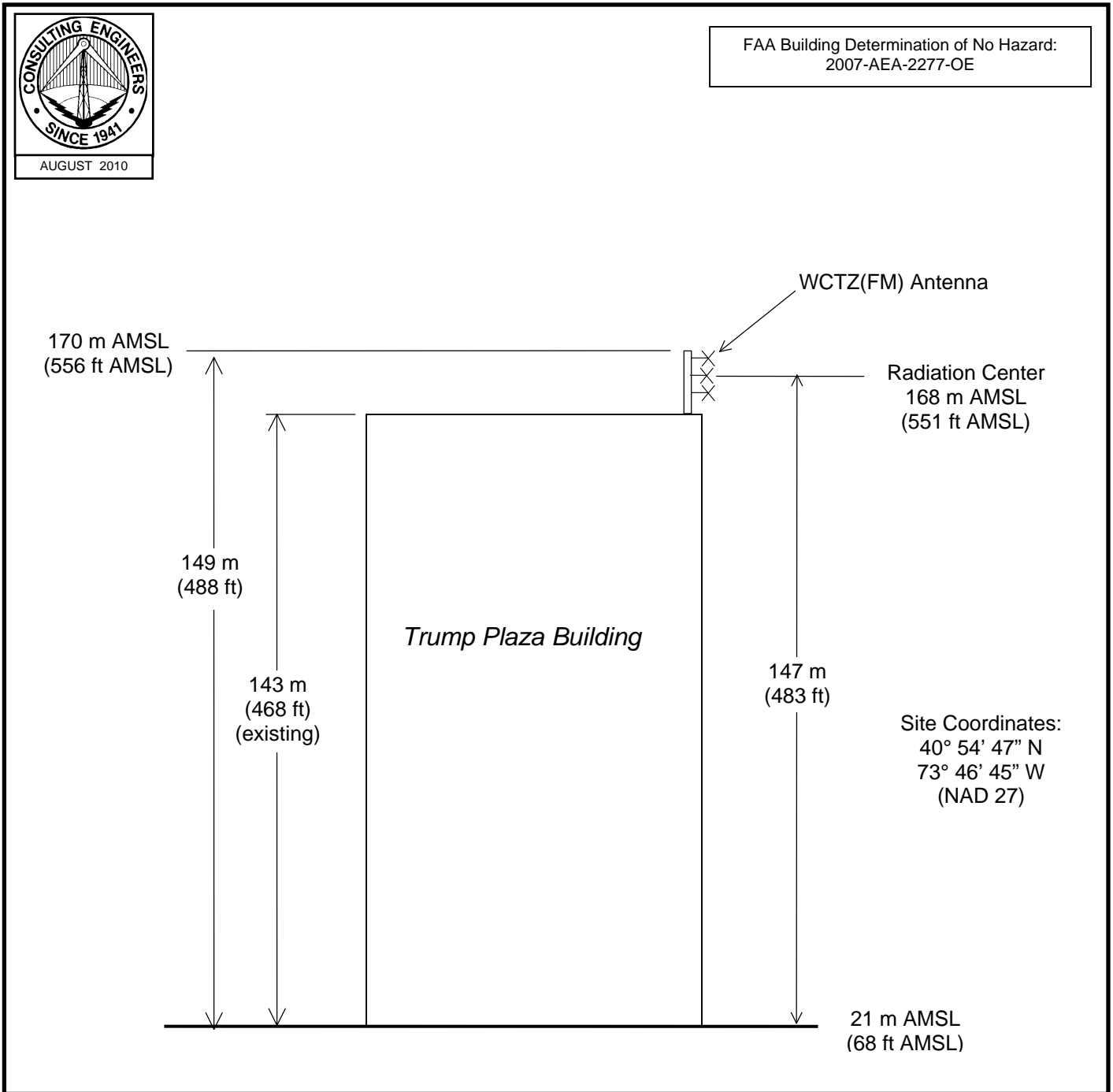
It is noted that this statement only addresses the potential for radiofrequency electromagnetic field exposure. All other aspects of the environmental processing analysis will be or already have been provided to the FCC by the tower owner as part of the tower registration process.

Charles A. Cooper

du Treil, Lundin & Rackley, Inc.  
201 Fletcher Avenue  
Sarasota, Florida 34237  
941.329.6000

August 25, 2010

Figure 1



## **ANTENNA AND SUPPORTING STRUCTURE**

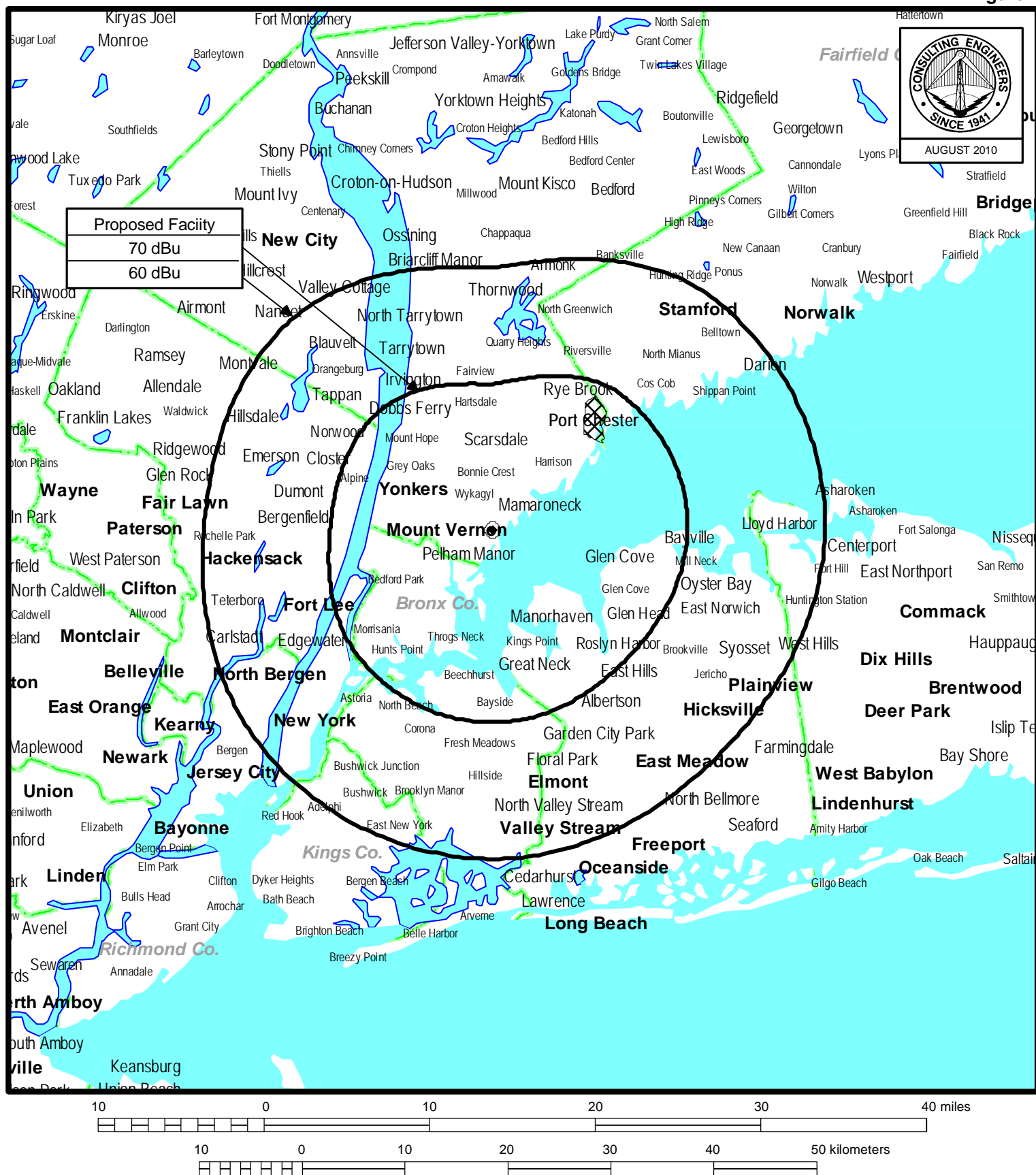
STATION WCTZ(FM)

PORT CHESTER, NEW YORK

CH 244A 3.1 KW 141 M

du Treil, Lundin & Rackley, Inc. Sarasota, Florida

Figure 2



## FCC PREDICTED COVERAGE CONTOURS

STATION WCTZ(FM)

PORT CHESTER, NEW YORK

CH 244A 3.1 KW 141 M

du Treil, Lundin & Rackley, Inc Sarasota, Florida

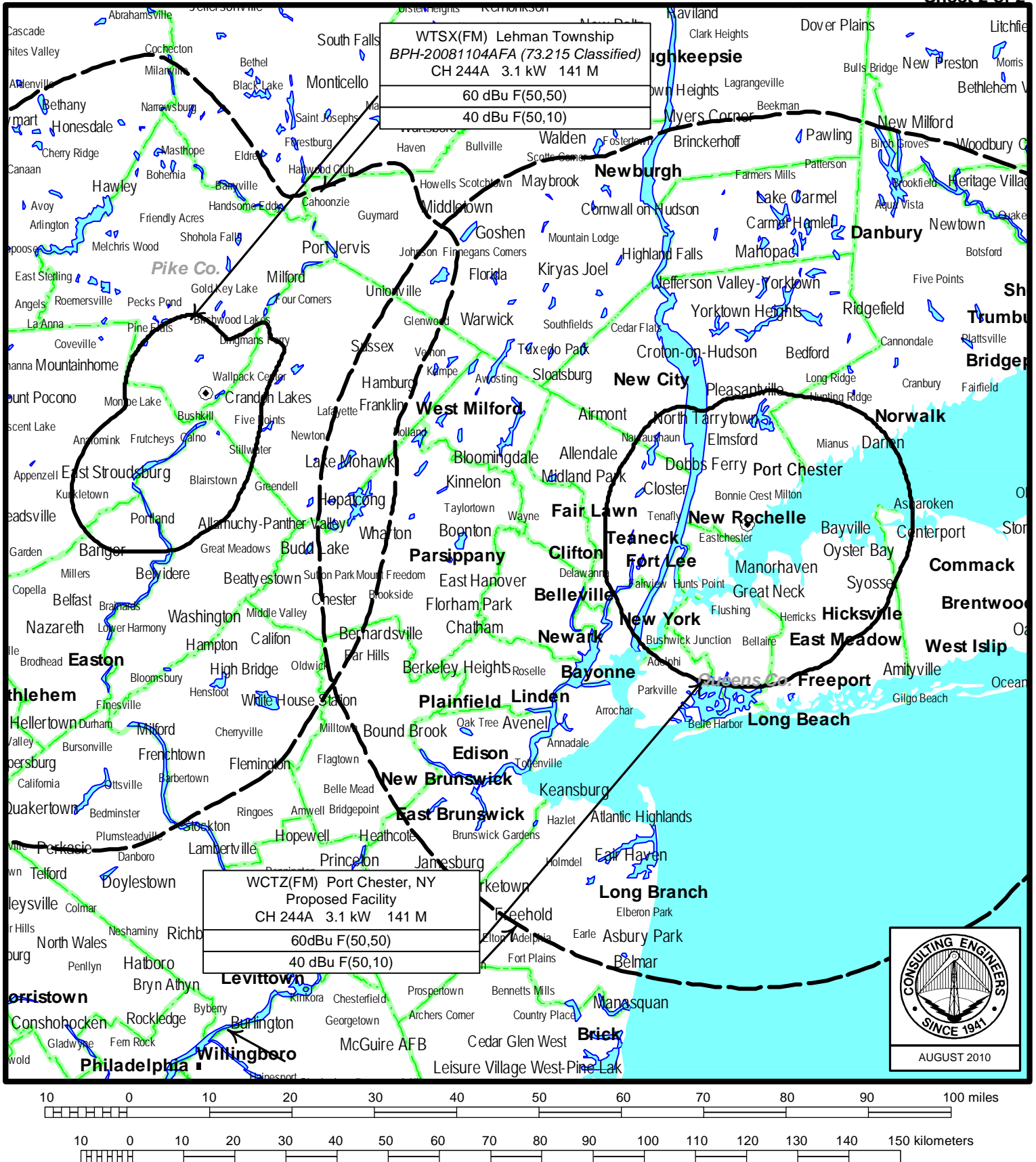


TECHNICAL EXHIBIT  
APPLICATION FOR MODIFICATION OF CONSTRUCTION PERMIT  
RADIO STATION WCTZ(FM)  
PORT CHESTER, NEW YORK  
CH 244A 3.1 KW 141 M

Proposed Site Allocation Study

40° 54' 47" North Latitude  
73° 46' 45" West Longitude

Callsign	Status	Chan.	Serv.	Freq.	City		State	Latitude	Dist.(km)	Sep.(km)	Spacing(km)	
Fac. ID	ARN			Class	DA	Ant. ID	ERP (kW)	HAAT (m)	Longitude	Bear. (deg)	73.215	Comment
WXNY-FM	LIC	242	FM	96.3	NEW YORK			NY	040-44-54	25.28	69	-43.72
29022	BLH	19940204KG		B	N		6	415	073-59-10	223.62	63 N	
(Section 73.213(a) Processing Requested Towards WXNY-FM at New York, NY)												
WTIC-FM	LIC	243	FM	96.5	HARTFORD			CT	041-46-27	125.64	113	12.64
66465	BMLH	20060809ADR		B	N		20	239	072-48-20	40.01	96 N	
WCTZ	LIC	244	FM	96.7	PORT CHESTER			NY	041-02-49	25.94		
10659	BLH	20071106ACJ		A	N		3	100	073-31-36	54.83	92 N	
(Existing facility.)												
WCTZ	CP	244	FM	96.7	PORT CHESTER			NY	040-55-55	7.37		
10659	BPH	20081104AEO		A	N		3.3	136	073-51-47	286.62	92 Y	
(Current Construction Permit for herein facility.)												
WTSX	LIC	244	FM	96.7	PORT JERVIS			NY	041-22-24	94.81	115	-20.19
53036	BLH	4949		A			3	91	074-43-49	303.04	92 N	SHORT
(WTSX(FM) has been authorized to relocate to Lehman Township on Channel 244A. Therefore, no allocation issue.)												
WTSX	CP	244	FM	96.7	LEHMAN TOWNSHIP			PA	041-07-53	103.8	115	-11.2
53036	BPH	20081104AFA		A	D	90143	5	70	074-58-45	283.95	92 Y	
(Section 73.215 processing requested towards WTSX(FM) at Lehman Township.)												
WRRB	LIC	245	FM	96.9	ARLINGTON			NY	041-43-09	91.35	72	19.35
10780	BMLH	20001002AHL		A	N		0.31	307	073-59-47	348.63	49 N	
WQHT	LIC	246	FM	97.1	NEW YORK			NY	040-44-54	25.28	69	-43.72
19615	BMLH	20050215AAH		B	N		6.7	408	073-59-10	223.62	63 N	
(Section 73.213(a) Processing Requested Towards WQHT(FM) at New York, NY)												
WBLS	LIC	298	FM	107.5	NEW YORK			NY	040-44-54	25.28	15	10.28
28203	BLH	19940204KN		B	N		4.2	415	073-59-10	223.62		



## WTSX(FM) ALLOCATION ANALYSIS

RADIO STATION WCTZ(FM)  
PORT CHESTER, NEW YORK  
CH 244A 3.1 KW 141 M