

Daniel F. Caruso
Chairman

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

March 17, 2008

Steven L. Levine
Real Estate Consultant
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-009-080219** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 7 Stony Hill Road, Bethel, Connecticut.

Dear Mr. Levine:

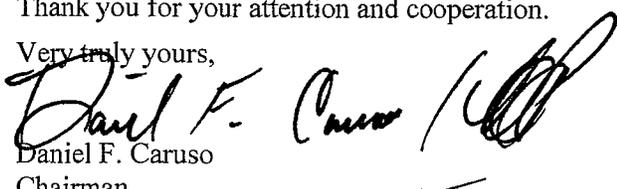
The Connecticut Siting Council (Council) hereby acknowledges your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated February 19, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

This decision is under the exclusive jurisdiction of the Council. Please be advised that the validity of this action shall expire one year from the date of this letter. Any additional change to this facility will require explicit notice to this agency pursuant to Regulations of Connecticut State Agencies Section 16-50j-73. Such notice shall include all relevant information regarding the proposed change with cumulative worst-case modeling of radio frequency exposure at the closest point of uncontrolled access to the tower base, consistent with Federal Communications Commission, Office of Engineering and Technology, Bulletin 65. Any deviation from this format may result in the Council implementing enforcement proceedings pursuant to General Statutes § 16-50u including, without limitation, imposition of expenses resulting from such failure and of civil penalties in an amount not less than one thousand dollars per day for each day of construction or operation in material violation.

Thank you for your attention and cooperation.

Very truly yours,


Daniel F. Caruso
Chairman

DFC/MP

c: Honorable Robert E. Burke, First Selectman, Town of Bethel
Steve Palmer, Planning and Zoning Official, Town of Bethel
The Connecticut Light and Power Company



Affirmative Action / Equal Opportunity Employer



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

Phone: (860) 827-2935 Fax: (860) 827-2950

E-Mail: siting.council@ct.gov

Internet: ct.gov/csc

Daniel F. Caruso
Chairman

February 26, 2008

The Honorable Robert E. Burke
First Selectman
Town of Bethel
1 School Street
Bethel Municipal Center
Bethel, CT 06801-2105

RE: **EM-CING-009-080219** – New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 7 Stony Hill Road, Bethel, Connecticut.

Dear Mr. Burke:

The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

If you have any questions or comments regarding this proposal, please call me or inform the Council by March 7, 2008.

Thank you for your cooperation and consideration.

Very truly yours,



S. Derek Phelps
Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Steve Palmer, Planning & Zoning Official, Town of Bethel



New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

EM-CING-009-080219

Steven L. Levine
Real Estate Consultant

ORIGINAL

HAND DELIVERED

February 19, 2008

RECEIVED
FEB 19 2008
CONNECTICUT
SITING COUNCIL

Honorable Daniel F. Caruso, Chairman,
and Members of the Connecticut Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: New Cingular Wireless PCS, LLC notice of intent to modify an existing tele-communications facility located at 7 Stony Hill Road, Bethel (owner, CL&P)

Dear Chairman Caruso and Members of the Council:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System ("UMTS") capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC ("Cingular") plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

UMTS technology offers services to mobile computer and phone users anywhere in the world. Based on the Global System for Mobile (GSM) communication standard, UMTS is the planned worldwide standard for mobile users. UMTS, fully implemented, gives computer and phone users high-speed access to the Internet as they travel. They have the same capabilities even when they roam, through both terrestrial wireless and satellite transmissions.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in Cingular's operations at the site. Also included is documentation of the structural sufficiency of the tower to accommodate the revised antenna configuration.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility

will not be significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected. Modifications to the existing site include all or some of the following as necessary to bring the site into conformance with the plan:

- Replacement of existing panel antennas with new antennas of similar size, shape, and weight, or, installation of additional antennas of similar size, shape, and weight.
- Installation of small tower mount amplifiers (“TMA’s”) and/or diplexers to the platform on which the panel antennas are mounted to enhance signal reception.
- Installation of additional or larger coaxial cables as required.
- Installation of an additional equipment cabinet in existing shelters, or on existing or enlarged concrete pads.

None of these modifications will extend the height of the tower.

2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than some enlarged equipment pads as may be noted in the attachments.

3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.

4. Radio frequency power density may increase due to use of one GSM channel for UMTS transmissions. However, the changes will not increase the calculated “worst case” power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, Cingular Wireless respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7636 with questions concerning this matter. Thank you for your consideration.

Sincerely,



Steven L. Levine
Real Estate Consultant

Attachments

**CINGULAR WIRELESS
Equipment Modification**

7 Stony Hill Road, Bethel
 Site 5176
 Former AT&T Cell Site
 CSC Petition 479 approved 9/19/00
 Exempt Modifications approved 3/21/02 and 1/28/03

Tower Owner/Manager: Connecticut Light & Power

Equipment configuration: Powermount

Current and/or approved: Three Allgon 7250 antennas @ 145 ft c.l.
 Six runs 1 5/8 inch coax
 Six outdoor cabinets on concrete pad

Planned Modifications: Remove all three existing antennas
 Install 3 Powerwave 7770 antennas (or equivalent) @ 145 ft
 Install six TMA's at 145 ft
 Install two additional outdoor equipment cabinets for UMTS

Power Density:

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 6.7 % of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 7.2 % of the standard.

Existing

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							2.47
Cingular GSM *	145	1900 Band	16	86	0.0235	1.0000	2.35
Cingular GSM *	145	1900 Band	4	275	0.0188	1.0000	1.88
Total							6.7%

* Per CSC records.

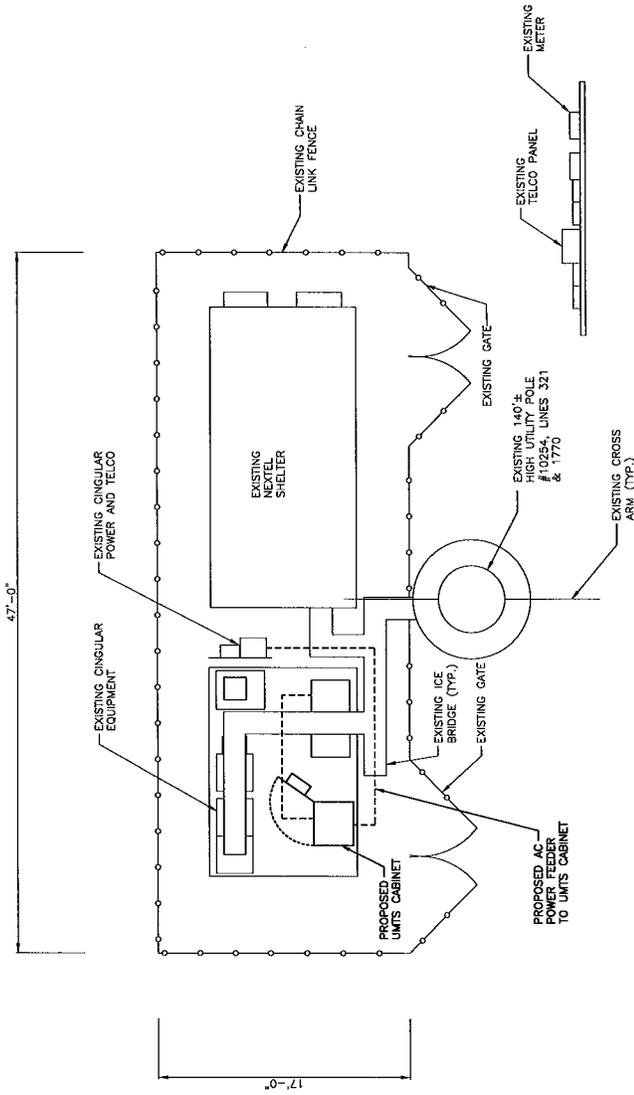
Proposed

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm ²)	Standard Limits (mW/cm ²)	Percent of Limit
Other Users *							2.47
Cingular GSM	145	1900 Band	3	631	0.0324	1.0000	3.24
Cingular UMTS	145	880 - 894	1	500	0.0086	0.5867	1.46
Total							7.2%

* Per CSC records.

Structural information:

The attached structural analysis demonstrates that the tower and foundation have sufficient structural capacity to accommodate the proposed modifications. (Tabas Assoc. 1/18/08)



**COMPOUND PLAN
OUTDOOR UMITS**

SCALE: 3/16"=1'-0"

0' 2'-8" 5'-4" 10'-8" 16'-0"



NO. 24178		STATE OF CONNECTICUT	
PROF. ENGINEER	REGISTERED	DATE	BY
1. 06/28/07 CONSTRUCTION PLAN	RI DC	06/28/07	RB
2. 07/18/07 ISSUED FOR CONSTRUCTION	RI DC	07/18/07	RB
NO. DATE	REVISIONS	DESIGNED BY: RB	DRAWN BY: RB
SCALE: NOT SHOWN		JOB NUMBER: 5176.01	
COMPOUND PLAN UMITS (OUTDOOR)		DRAWING NUMBER: C-1	
1		1	



SITE NUMBER: 5176
SITE NAME: STONY HILL
 7 STONY HILL ROAD
 BETHEL, CT 06801
 FAIRFIELD COUNTY

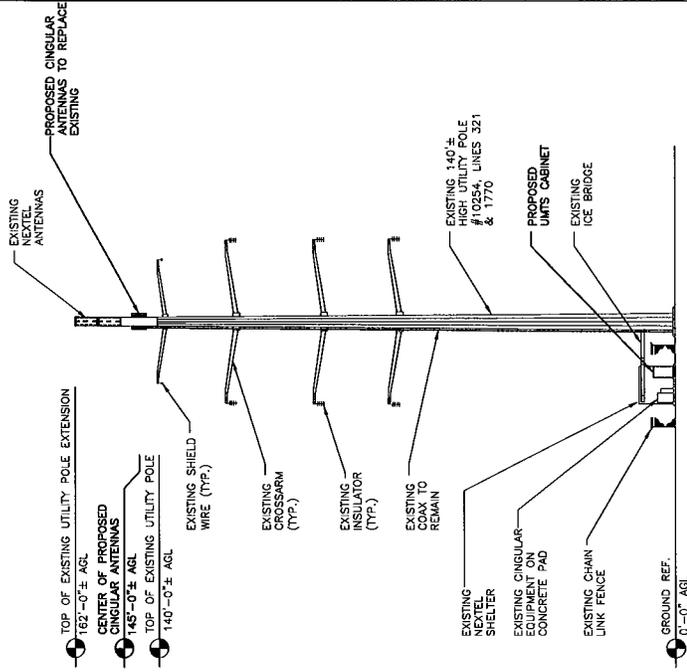
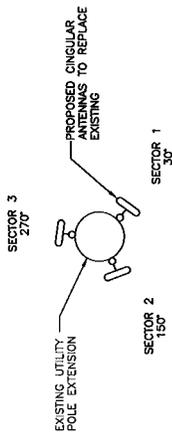
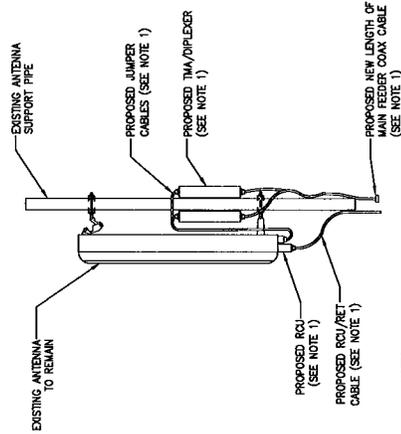


NOTE:

AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES TO SUPPORT THE PROPOSED ANTENNAS HAS BEEN DETERMINED PRIOR TO CONSTRUCTION.

NOTE:*
REFER TO THE FINAL RF DATA SHEET FOR FINAL ANTENNA SETTINGS.

RF TABLE						
SECTOR NAME	ANTENNA MAKE & MODEL	ANTENNA COUNT	AZIMUTH	RAD. CENTER	MECHANICAL DOWNTILT	TMA COUNT
1	POWERWAVE 7770	1	30°	145±	0*	0 EXIST. 0 PROP.
2	POWERWAVE 7770	1	150°	145±	0*	0 EXIST. 0 PROP.
3	POWERWAVE 7770	1	270°	145±	0*	0 EXIST. 0 PROP.



PROPOSED ANTENNA PLAN VIEW

N.T.S.

PROPOSED ANTENNA DETAIL

N.T.S.

PROPOSED SOUTH ELEVATION

SCALE: 1/16"=1'-0" 0 8'-0" 16'-0" 32'-0" 48'-0"



<p>Hudson Design Group 4 WOODSIDE, TEL: 978.352.5559 N. ANDOVER, MA 01854 FAX: 978.352.5588</p>		<p>184 ROCKINGHAM ROAD, UNIT A LONDONDERRY, NH 03053</p>		<p>SITE NUMBER: 5176 SITE NAME: STONY HILL 7 STONY HILL ROAD BETHEL, CT 06801 FAIRFIELD COUNTY</p>		<p>500 ENTERPRISE DRIVE, SUITE 3A ROCKY HILL, CT 06067</p>	
NO.	DATE	BY	CHK	APP	JOB NUMBER	DRAWING NUMBER	REV
1	06/02/07	CONSTRUCTION FINAL	RI	DC	5176.01	A-2	1
0	07/18/07	ISSUED FOR CONSTRUCTION	RI	DC	5176.01	A-2	
SCALE: NOT SHOWN		DESIGNED BY: RB		DRAWN BY: RB			
<p>STATE OF CONNECTICUT LICENSED PROFESSIONAL ENGINEER No. 24178</p>							
<p>ANTENNA LAYOUT AND ELEVATION UNITS (OUTDOOR)</p>							



New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

Steven L. Levine
Real Estate Consultant

February 19, 2008

Honorable Robert E. Burke
1st Selectman, Town of Bethel
Clifford J. Hurgin Municipal Center 1 School St.
Bethel, CT 06801-0003

Re: Telecommunications Facility – 7 Stony Hill Road, Bethel

Dear Mr. Burke:

In order to accommodate technological changes, implement Uniform Mobile Telecommunications System (“UMTS”) capability, and enhance system performance in the State of Connecticut, New Cingular Wireless PCS, LLC (“Cingular”) will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (“R.C.S.A.”) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Cingular’s proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Cingular’s proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council’s procedures, please call me at (860) 513-7636 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Steven L. Levine
Real Estate Consultant

Enclosure

Prepared for

AT&T/Cingular Wireless

500 Enterprise Drive
Suite 3A
Rocky Hill, CT 06067

**STRUCTURAL ANALYSIS REPORT AND
EVALUATION OF 140' EXISTING UTILITY POLE
WITH EXISTING 10' POLE EXTENSION FOR
REPLACEMENT OF EXISTING ANTENNAS WITH
PROPOSED NEW AT&T ANTENNAS**

7 Stony Hill Road
Bethel, Connecticut CL&P Pole #10254

prepared by

Tabas Associates, LLC
Consulting Structural Engineers
724 Boston Post Road
Madison, CT 06443

Revised January 18, 2008

TABLE OF CONTENTS

1. SUMMARY
2. INTRODUCTION
3. ANALYSIS METHODOLOGY AND LOADING CONDITIONS
4. INFORMATION PROVIDED
5. EVALUATION OF UTILITY POLE
6. CONCLUSION
7. STRUCTURAL CALCULATIONS AND DATA
 - NORTHEAST UTILITIES WIRE LOADINGS
 - STRUCTURAL LOADING COMPUTATIONS
 - PLS ANALYSIS OUTPUT

1. SUMMARY

This report summarizes the structural analysis of the existing 140' tall steel utility pole structure with existing 10' pole extension, CL&P pole #10254, located at Stony Hill Road in Bethel, Connecticut. The analysis was conducted in accordance with the Northeast Utilities Service Company's *Criteria for Design of PCS Facilities on or Above Metal Electric Transmission Towers/Poles*.

The antenna loading considered in the analysis consists of replacing of the existing AT&T antennas and 6 lines of coax cables with proposed new AT&T antennas, tower mounted amplifiers and coax cables as outlined on the following pages of this report.

The results of the evaluation indicate that the utility pole structure is in compliance with the proposed loading conditions and considered structurally adequate with the Northeast Utilities loading criteria and requirements.

It can not be determined if the Conductor and the Shield Wire Arms are structurally satisfactory due to lack of design information but the adequacy of the pole structure is not affected by the proposed antenna installation and the capacity of the cross arm members.

This analysis is based on:

1. The structure's theoretical capacity and not including any assessment of the existing condition of the pole.
2. Pole geometry and structural member sizes taken from Tectonic Engineering Consultant P.C. report dated June 30, 2000 including information provided by Northeast Utilities for the Shield Wire and Conductor loadings.
3. Location of where the existing PCS Mast is attached to the pole as shown on Drawing S-1 prepared by Tectonic Engineering consultants, dated October 11, 2000.
4. Antenna inventory as specified above and on the following page of this report.
5. Northeast Utilities Service Company's *Criteria for Design of PCS Facilities on or Above Metal Electric Transmission Towers/Poles* dated December 7, 2001.
6. Assumed sizes for Conductor and Shield Wire Arms due to lack of proper design information on existing Steel Shop drawings.
7. URS Corporation structural analysis report dated, April 8, 2003.

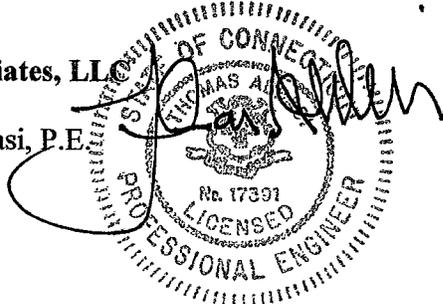
This report is only valid per the assumptions and data utilized in this report for antenna inventory, and mounts. The user of this report shall field verify the assumptions of the antenna and mount configurations. Notify the engineer in writing immediately if any of the assumptions in this report are other than specified.

Please contact us if you have any questions.

Sincerely,

Tabas Associates, LLC

Thomas Abbasi, P.E.



2. INTRODUCTION

A structural analysis of the 140' tall steel transmission utility pole, CL&P pole #10254, located at Stony Hill Road in Bethel, CT was performed by Tabas Associates for AT&T/Cingular Wireless. This analysis was conducted to evaluate the stresses on the utility pole for the proposed installation of new antennas after removal of existing AT&T antennas and coax cables.

The pole structure is owned by CL&P, structure #10254 and was originally manufactured by American Pole Structures

The antenna and mount configuration as specified below:

Antenna and Mount Description	Carrier	Antenna Centerline
(6) Existing EMS RS-90 in 30" AcCell. Antennas mounted on existing 10' Pole extension	Nextel	@ 156'-0"
(3) Proposed Antennas, Powerwave 7770 Mounted on existing 10' pole extension	AT&T/Cingular	@ 145'-0"
(6) Proposed Powerwave LGP21401 (Tower Mounted Amplifiers)		
(12) 1 1/4" Nextel coaxial cables (exposed)		
(6) 1 5/8" AT&T coaxial cables (exposed)		

3. ANALYSIS METHODOLOGY AND LOADING CONDITIONS

The structural analysis was done in accordance with Northeast Utilities Service Company's *Criteria for Design of PCS Facilities on or Above Metal Electric Transmission Towers/Poles*, the American Society of Civil Engineers (ASCE) Manual and Reports on Engineering Practice No. 72, *Design of Steel Transmission Pole Structures*, and the American Institute of Steel Construction (AISC)

The analysis was conducted using PLS Structural Analysis Program. Two load conditions were evaluated as shown below which were compared to yield stresses (not plastic stresses) according to ASCE and AISC. The two load conditions were investigated in the analysis to determine the stresses and forces at different elevations.

Load Condition 1 = NESC C2 -2002 Extreme Wind Loading (50-year, 110 mph)

Load Condition 2 = NESC C2 -2002 Heavy Loading (combined ice and wind)

The evaluation of the existing antenna support (PCS Mast) was done in accordance with the provisions of TIA/EIA standard 222 with two conditions:

Load Condition 1 = Extreme Wind Loading (85 mph wind)

Load Condition 2 = Heavy Loading (combined ice and 74 mph wind)

The existing PCS Mast is also structurally adequate for the support of new Antennas and Tower Mounted Amplifiers.

4. INFORMATION PROVIDED

For the purpose of the analysis, Tabas Associates was furnished with the following information:

- Tectonic Engineering Report, dated June 30, 2000 on analysis of existing transmission pole structure with existing antennas. URS Corporation Report, dated April 8, 2003 on analysis of existing transmission pole structure with existing Antennas.
Pole geometry and structural member sizes were taken from Tectonic Engineering Consultant P.C. report dated June 30, 2000 including information provided by Northeast Utilities for the Shield Wire and Conductor loadings.
- Elevations, Section, and Notes Drawing S-1 by Tectonic Engineering Consultants, dated 4/11/01.
- Site, Lease Exhibit, Elevation and Detail Drawing C-2 for Nextel prepared by DTC, dated September 21, 2000.
- Steel Shop drawings of the pole structure by American Pole Structures, revised date of May 9, 1977.
- Proposed Antenna and TMA information by AT&T/Cingular

5. EVALUATION OF UTILITY POLE

Combined axial and bending stresses on the steel utility pole structure were evaluated to compare with stresses allowed in accordance with ASCE and AISC. The pole structure is about 88% of its moment capacity (as listed on exist. American Pole Structures steel shop drawing no. 802577) under Northeast Utilities Loading requirements (Hi Wind) including the loading from the proposed antennas and Amplifiers. The pole structure base plate is about 89% of its capacity. Refer to calculations and structural analysis of the pole for details and load conditions.

6. CONCLUSIONS

The results of the analysis indicate that the existing steel utility pole itself is in compliance with the proposed loading conditions after replacing the existing AT&T antennas with new proposed AT&T antennas described above.

Limitations/Assumptions:

This report is based on the following:

1. Tower inventory as listed in this report.
2. All coaxial cable is installed outside of the utility pole and pipe mount extension.
3. The utility pole was properly installed and maintained since erection.
4. All members were specified in the original design documents and are in good condition.
5. All required members are in place.
6. All bolts are in place and are properly tightened.
7. The utility pole is in plumb condition.
8. Protective coatings are in good condition.
9. All utility pole members were properly designed, detailed, fabricated and installed.
10. Pole Structural steel, grade 65 (Fy = 65 ksi).
11. Longitudinal pole loading and stresses were not evaluated per direction of Northeast Utilities Service Co.
12. No connection design between existing PCS Mast and the existing utility pole.

Tabas Associates does not assume liability for any factual changes that may occur after the date of this report. All representations, recommendations and conclusions are based upon information contained and set forth herein. If you have knowledge of any information which conflicts with information in this report or you are aware of any defects arising from original design, material, fabrication or erection deficiencies, you should disregard this report and immediately contact Tabas Associates.