



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 11, 2009

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

RE: **EM-CING-118-090224** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunication facility located at 24 Cooper Hill Road, Ridgefield, 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 with the following condition:

- The foundation shall be reviewed for adequacy per page 5 of the structural analysis report dated January 5, 2009 and sealed by Thomas Abbasi, P.E.; and
- A signed letter from a Professional Engineer duly licensed in the State of Connecticut shall be submitted to the Council to certify the adequacy of the foundation.

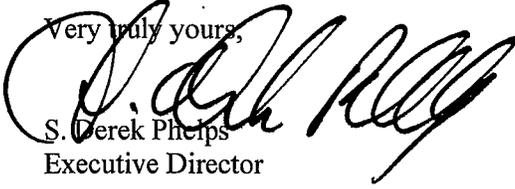
The proposed modifications are to be implemented as specified here and in your notice dated February 24, 2009, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations 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,

A handwritten signature in black ink, appearing to read "S. Derek Phelps". The signature is written in a cursive style with a large initial "S" and "P".

S. Derek Phelps
Executive Director

SDP/MP/laf

- c: The Honorable Rudolph P. Marconi, First Selectman, Town of Ridgefield
Betty Brosius, Town Planner, Town of Ridgefield
Michael Green, Real Estate Department, Northeast Utilities Service Company



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February 25, 2009

The Honorable Rudolph P. Marconi
First Selectman
Town of Ridgefield
Town Hall
400 Main Street
Ridgefield, CT 06877

RE: **EM-CING-118-090224** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunication facility located at 24 Cooper Hill Road, Ridgefield, Connecticut.

Dear Mr. Marconi:

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 1, 2009.

Thank you for your cooperation and consideration.

Very truly yours,

S. Derek Phelps
Executive Director

SDP/laf

Enclosure: Notice of Intent

c: Betty Brosius, Town Planner, Town of Ridgefield



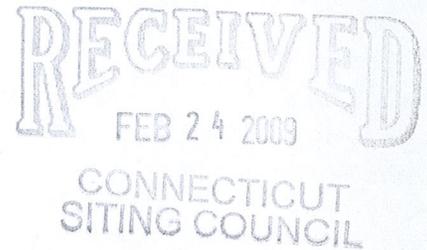
New Cingular Wireless PCS, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7636
Fax: (860) 513-7190

Steven L. Levine
Real Estate Consultant

HAND DELIVERED

February 24, 2009

ORIGINAL



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 24 Cooper Hill Road, Ridgefield (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 ("AT&T") 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 AT&T'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.
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 or more 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, New 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,

A handwritten signature in blue ink, appearing to read "S. L. Levine".

Steven L. Levine
Real Estate Consultant

Attachments

**CINGULAR WIRELESS
Equipment Modification**

87 Cooper Hill Road, Ridgefield
Site Number 5066
Former AT&T Cell Site
Petition 470; Exempt Modification approved 3/02

Tower Owner/Manager: CL&P

Equipment configuration: Powermount

Current and/or approved: Three Allgon 7250 panel antennas @ 85 ft c.l.
Six runs 1 ¼ inch coax

Planned Modifications: Remove all three existing antennas
Install three Powerwave 7770 antennas @ 85 ft c.l.
Install six TMA's @ 85 ft
Remove all cable trays & replace with new ice bridge
Install one new equipment cabinet on existing concrete pad

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 4 % 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 18.5 % 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 *							
Cingular GSM *	85	1900 Band	8	100	0.0398	1.0000	3.98
Total							4.0%

* Per CSC records.

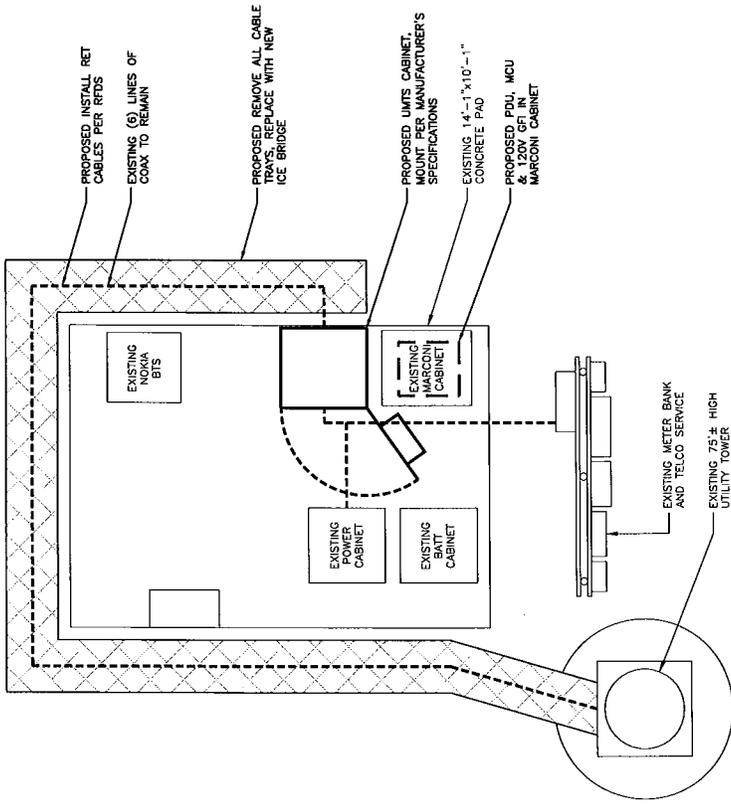
Proposed

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 *							
Cingular GSM	85	880 - 894	4	296	0.0589	0.5867	10.04
Cingular GSM	85	1900 Band	2	427	0.0425	1.0000	4.25
Cingular UMTS	85	880 - 894	1	500	0.0249	0.5867	4.24
Total							18.5%

* Per CSC records.

Structural information:

The attached structural analysis demonstrates that the tower has adequate structural capacity to accommodate the proposed modifications. (Tabas Associates, dated 1/5/09)



**COMPOUND PLAN
OUTDOOR UITS**

SCALE: 1/2"=1'-0"



SITE NUMBER: 5066
SITE NAME: EAST RIDGEFIELD
 24 COOPER HILL ROAD
 RIDGEFIELD, CT 06877
 FAIRFIELD COUNTY



184 ROCKINGHAM ROAD, UNIT A
 LONDONDERRY, NH 03053

500 ENTERPRISE DRIVE
 ROCKY HILL, CT 06067

AT&T
 EQUIPMENT PLAN

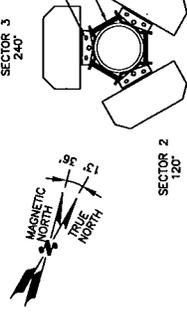
NO.	DATE	REVISIONS	DESIGNED BY: DC	DRAWN BY: JS
1	06/10/08	CONSTRUCTION FINAL	DC	JS
0	05/29/08	ISSUED FOR CONSTRUCTION	JS	DC
SCALE: AS SHOWN				
NO. NAME	5066.01	DATE	06/10/08	BY
NO. NAME	A-1	DATE		BY



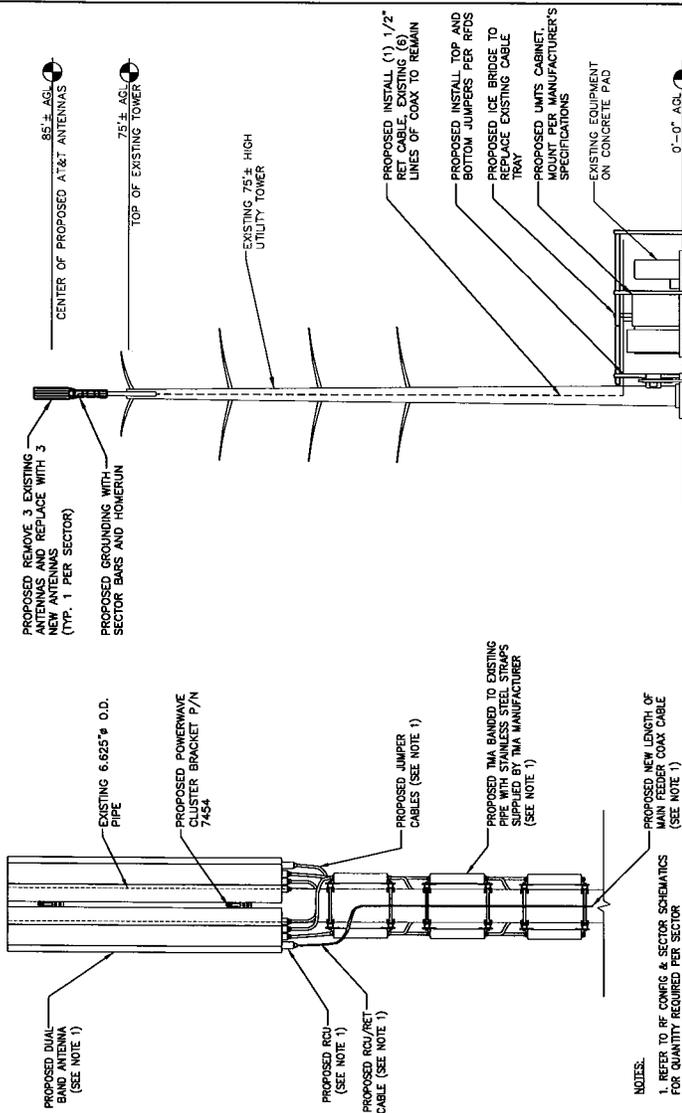
SECTOR	SECTOR NAME	ANTENNA MAKE & MODEL	ANTENNA COUNT	AZIMUTH	RAD CENTER	MECHANICAL DOWNTILT	TMA COUNT	DIPLEXER COUNT	# OF COAX CABLES
1	ALPHA	POWERWAVE 7770	1 PROPOSED 0 EXISTING	0°	85 ±	0*	2 PROPOSED 0 EXISTING	0 PROPOSED 0 EXISTING	2 PROPOSED 2 EXISTING
2	BETA	POWERWAVE 7770	1 PROPOSED 0 EXISTING	120°	85 ±	0*	2 PROPOSED 0 EXISTING	0 PROPOSED 0 EXISTING	2 PROPOSED 2 EXISTING
3	GAMMA	POWERWAVE 7770	1 PROPOSED 0 EXISTING	240°	85 ±	0*	2 PROPOSED 0 EXISTING	0 PROPOSED 0 EXISTING	2 PROPOSED 2 EXISTING

NOTE:
AN ANALYSIS FOR THE CAPACITY OF THE EXISTING STRUCTURES AND FOUNDATION FOR THE PROPOSED EQUIPMENT SHALL BE DETERMINED PRIOR TO CONSTRUCTION.

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



ANTENNA PLAN VIEW
SCALE: 1" = 1'-0"



WEST ELEVATION
SCALE: 1" = 1'-0"

ANTENNA DETAIL
SCALE: 1" = 1'-0"

COAX ICE BRIDGE DETAIL
SCALE: N.T.S.

NOTE:
ALL STEEL IS GALVANIZED. ALL BOLTS TO BE FURNISHED W/ WASHERS AND NUTS.

Hudson Design Group
184 ROCKINGHAM ROAD, UNIT A
LONDONDERRY, NH 03053
TEL: 603-562-5555
FAX: 603-562-5556

SIAT communications
184 ROCKINGHAM ROAD, UNIT A
RIDGEBFIELD, CT 06877
FAIRFIELD COUNTY

at&t

SITE NUMBER: 5066
SITE NAME: EAST RIDGEBFIELD
24 COOPER HILL ROAD
RIDGEBFIELD, CT 06877
FAIRFIELD COUNTY

ANTENNA LAYOUT AND ELEVATION
AT&T

NO. 1	DATE	REVISIONS	DESIGNED BY: DC	DRAWN BY: JS	SCALE: AS SHOWN
1	09/10/08	CONSTRUCTION FINAL	DC	DC	5066.01
2	09/29/08	ISSUED FOR CONSTRUCTION	DC	CH	5066.01



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 24, 2009

Honorable Rudolph P. Marconi
1st Selectman, Town of Ridgefield
Town Hall 400 Main St.
Ridgefield, CT 06877

Re: Telecommunications Facility: Cooper Hill Road, Ridgefield

Dear Mr. Marconi:

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 Mobility

500 Enterprise Drive
Suite 3A
Rocky Hill, CT 06067

**STRUCTURAL ANALYSIS REPORT OF AN
EXISTING DOUBLE CIRCUIT UTILITY POLE FOR
REPLACEMENT OF EXISTING ANTENNAS**

AT&T Cell No. 5066
NU POLE No. 3294

24 Cooper Hill Road
Ridgefield, Connecticut

prepared by

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

September 10, 2008
January 5, 2009 Revised

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1. SUMMARY

This report summarizes the structural analysis of the existing 75' tall steel utility pole structure with existing pole extension, CL&P pole #3294, located at Cooper Hill Road in Ridgefield, 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 with proposed new AT&T antennas, and tower mounted amplifiers as outlined on the following pages of this report.

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

The Conductor and the Shield Wire Arms were not reviewed structurally 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 Meyer Industries, Inc. shop drawings dated February 23, 1973 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 C-3 prepared by Tectonic Engineering consultants, dated June 9, 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. Paul J. Ford Company structural analysis report dated, May 5, 2000.

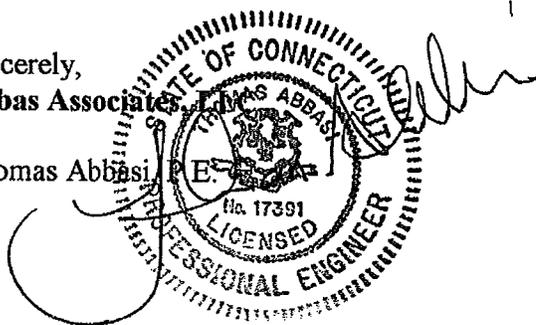
This report is only valid per the assumptions and data utilized in this report for antenna inventory, and mounts. The user of this report shall field verify the assumptions of the antenna and mount configurations. Notify the engineer in writing immediately if any of the assumptions in this report are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

Please contact us if you have any questions.

Sincerely,

Tabas Associates,

Thomas Abbasi,



2. INTRODUCTION

A structural analysis of the 75' tall steel transmission utility pole, CL&P pole #3294, located at Cooper Hill Road in Ridgefield, CT was performed by Tabas Associates for AT&T 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 #3294 and was originally manufactured by Meyer Industries Inc.

The antenna and mount configuration as specified below:

Antenna and Mount Description	Carrier	Antenna Centerline
(3) Proposed Antennas, Powerwave 7770 Mounted on existing 10' pole extension	AT&T	@ 85'-0"
(6) Proposed Powerwave LGP17201 (Tower Mounted Amplifiers)		
(6) Existing 1 1/4" 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:

- Paul J. Ford Company Engineering Report, May 5, 2000 on analysis of existing transmission pole structure with existing antennas.
Pole geometry and structural member sizes were taken from Meyer Industries Inc. Shop Drawings dated February 26, 1973 including information provided by Northeast Utilities for the Shield Wire and Conductor loadings.
- Site, Lease Exhibits, Elevations, Section Drawings by Tectonic Engineering Consultants, dated 6/9/00.
- Steel Shop drawings of the pole structure by Meyer Industries, Inc., dated February 26, 1973.
- Proposed Antenna and TMA information by AT&T Wireless.

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 steel pole maximum usage is about 82% under Extreme Wind loading and the maximum bending moment occurs also under Extreme Wind loading condition including loads from the proposed antennas and Amplifiers. Refer to calculations and structural analysis of the pole for details and load conditions.

Northeast Utilities Company to review the analysis of the existing caisson to determine whether or not the foundation is adequate for the proposed pole reactions:

Extreme Wind loading	Moment	816.2 ft-k	Shear	14.00 k	Axial	11.61 k
NESC Heavy loading	Moment	737.2 ft-k	Shear	12.33 k	Axial	21.48 k

6. CONCLUSIONS

The results of the analysis indicate that the existing steel utility pole itself disregarding the existing foundation 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 ($F_y = 65$ ksi).
11. Longitudinal pole loading and stresses were not evaluated per direction of Northeast Utilities Service Co.
12. Mast mount connection design is based on assumption made on calculation sheets and the assumptions made in this report to be verified in field.

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.