



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@po.state.ct.us

Web Site: www.state.ct.us/csc/index.htm

May 9, 2002

Christopher B. Fisher, Esq.
Cuddy & Feder & Worby LLP
90 Maple Avenue
White Plains, NY 10601-5196

RE: **EM-AT&T-085-020422** - AT&T Wireless notice of intent to modify an existing telecommunications facility located at 88 Main Street, Monroe, Connecticut.

Dear Attorney Fisher:

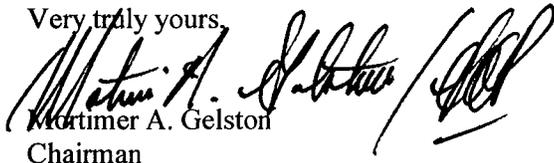
At a public meeting held on May 7, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice received April 22, 2002, and April 29, 2002. 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. 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,


Mortimer A. Gelston
Chairman

MAG/RKE/laf

c: Honorable Andrew J. Nunn, First Selectman, Town of Monroe
Daniel A. Tuba, Planning Administrator, Town of Monroe
Stephen J. Humes, Esq., LeBoeuf, Lamb, Greene, & MacRae

CUDDY & FEDER & WORBY LLP

90 MAPLE AVENUE
WHITE PLAINS, NEW YORK 10601-5196

CUDDY & FEDER
1971-1995

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ROBERT FEDER
CHRISTOPHER B. FISHER (also CT)
ANTHONY B. GIOFFRE III (also CT)
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KAREN G. GRANIK
JOSHUA J. GRAUER
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KENNETH F. JURIST
MICHAEL L. KATZ (also NJ)
JOSHUA E. KIMERLING (also CT)
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CHAUNCEY L. WALKER (also CA)
ROBERT L. WOLFE
DAVID E. WORBY

Of Counsel
MICHAEL R. EDELMAN
ANDREW A. GLICKSON (also CT)
ROBERT L. OSAR (also TX)
MARYANN M. PALERMO
ROBERT C. SCHNEIDER
LOUIS R. TAFFERA

April 29, 2002

VIA FEDERAL EXPRESS

David Martin
Siting Analyst I
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: AT&T Wireless Notice of Exempt Modification
88 Main Street, Monroe, Connecticut
10 Sylvia Street, Branford, Connecticut
201 South Main Street, Newtown, Connecticut
59 McGuire Road, South Windsor, Connecticut

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APR 30 2002
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Dear Mr. Martin:

On behalf of AT&T Wireless, enclosed please find the additional information that you had requested with respect to the Notice of Exempt Modifications for the proposed facilities referenced above:

1. The latitude and longitude for the facility at 88 Main Street in the Town of Monroe is N 41-17-59, W 73-14-58.
2. Enclosed please find the structural report for the facility at 10 Sylvia Street in the Town of Branford. The report was conducted by Semaan Engineering and signed and sealed on page four by Alvin A. Kraft, PE, a Connecticut licensed engineer. The fenced-in perimeter of the tower compound at 10 Sylvia Street must be expanded to accommodate

CUDDY & FEDER & WORBY LLP

April 29, 2002

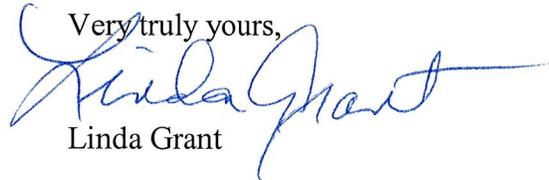
Page 2

the base-station equipment for AT&T and Verizon. The expanded compound will be on property already leased by VocioStream and does not extend the site boundaries.

3. Enclosed please find the structural report for the proposed facility at 201 Main Street in the Town of Monroe. The report was conducted by Semaan Engineering and signed and sealed on page four by Alvin A. Kraft, PE, a Connecticut licensed engineer.
4. The latitude and longitude for the facility at 67 McGuire Road in the Town of South Windsor is 41-48-10.77, 72-37-1.96. The site was mistakenly identified by our engineers as 59 McGuire Road; the correct address is 67 McGuire Road.

We would appreciate it if these matters were placed on the next available agenda for acknowledgment by the Council. Should you or the Council have any questions or require any additional information, please do not hesitate to contact us.

Very truly yours,



Linda Grant

Encls.

cc: Christopher B. Fisher, Esq.



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Web Site: www.state.ct.us/csc/index.htm

April 25, 2002

Via Facsimile

Mr. Christopher B. Fisher, Esq.
Cuddy & Feder & Worby
90 Maple Avenue
White Plains, NY 10601-5196

RE: **EM-AT&T-085-020422** AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify an existing telecommunications facility located at 88 Main Street, Monroe, CT.

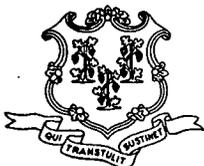
Dear Atty. Fisher:

For the above referenced filing, please provide the latitude and longitude coordinates for this site.

Thank you for your assistance in this matter.

Sincerely,


David Martin
Siting Analyst I



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

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April 24, 2002

Honorable Andrew J. Nunn
First Selectman
Town of Monroe
Town Hall
7 Fan Hill Road
Monroe, CT 06468-1800

RE: **EM-AT&T-085-020422** – AT&T Wireless notice of intent to modify an existing telecommunications facility located at 88 Main Street, Monroe, Connecticut.

Dear Ms. Nunn:

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.

The Council will consider this item at the next meeting scheduled for May 7, 2002, at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

Please call me or inform the Council if you have any questions or comments regarding this proposal.

Thank you for your cooperation and consideration.

Very truly yours,

S/Derek Phelps
Executive Director

SDP/esc

Enclosure: Notice of Intent

c: Daniel A. Tuba, Planning Administrator, Town of Monroe

**NOTICE OF INTENT TO MODIFY AN
EXISTING TELECOMMUNICATIONS FACILITY
88 MAIN STREET, MONROE, CONNECTICUT**

Pursuant to the Public Utility Environmental Standards Act, Connecticut General Statutes § 16-50g et. seq. ("PUESA"), and Sections 16-50j-72(b) of the Regulations of Connecticut State Agencies adopted pursuant to the PUESA, AT&T Wireless PCS, LLC d/b/a AT&T Wireless ("AT&T Wireless") hereby notifies the Connecticut Siting Council of its intent to modify an existing facility located at 88 Main Street, Monroe, Connecticut (the "Main Street Facility"), owned by VoiceStream Wireless ("VoiceStream"). AT&T Wireless and VoiceStream have agreed to share the use of the Main Street Facility as detailed below.

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The Main Street Facility

The Main Street Facility consists of an approximately one hundred ninety (195) foot monopole (the "Tower") and associated equipment currently being used for wireless communications by VoiceStream. A chain link fence surrounds the Tower compound. The Tower is located at the Stepney Volunteer Fire Department and is surrounded by commercial properties.

AT&T Wireless' Facility

As shown on the enclosed plans prepared by Tectonic/Keyes Associates, including a site plan and tower elevation of the Main Street Facility, AT&T Wireless proposes shared use of the Facility by placing antennas on the Tower and equipment cabinets needed to provide personal communications services ("PCS") within the existing fenced compound. AT&T Wireless will install 6 panel antennas at approximately the 175 foot level of the Tower and associated equipment cabinets (2 proposed, 2 future, each 76" H x 30" W x 30" D) located on a concrete pad. As evidenced in the structural report prepared by Paul J. Ford and Company, annexed hereto as Exhibit A, AT&T has confirmed that the tower is structurally capable of supporting the addition of AT&T Wireless' antennas.

AT&T Wireless' Facility Constitutes An Exempt Modification

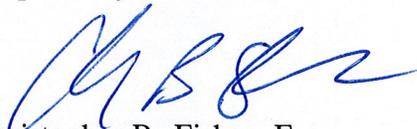
The proposed addition of AT&T Wireless' antennas and equipment to the Main Street Facility constitutes an exempt "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d) and Council regulations promulgated pursuant thereto. Addition of AT&T Wireless' antennas and equipment to the Tower will not result in an increase of the Tower's height nor extend the site boundaries. Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. As set forth in an Emissions Report prepared by Nader Soliman, Radio Frequency Engineer, annexed hereto as Exhibit B, the total radio frequency electromagnetic radiation power density at the Tower site's boundary will not

be increased to or above the standard adopted by the Connecticut Department of Environmental Protection as set forth in Section 22a-162 of the Connecticut General Statutes and MPE limits established by the Federal Communications Commission. For all the foregoing reasons, addition of AT&T Wireless' facility to the Tower constitutes an exempt modification which will not have a substantially adverse environmental effect.

Conclusion

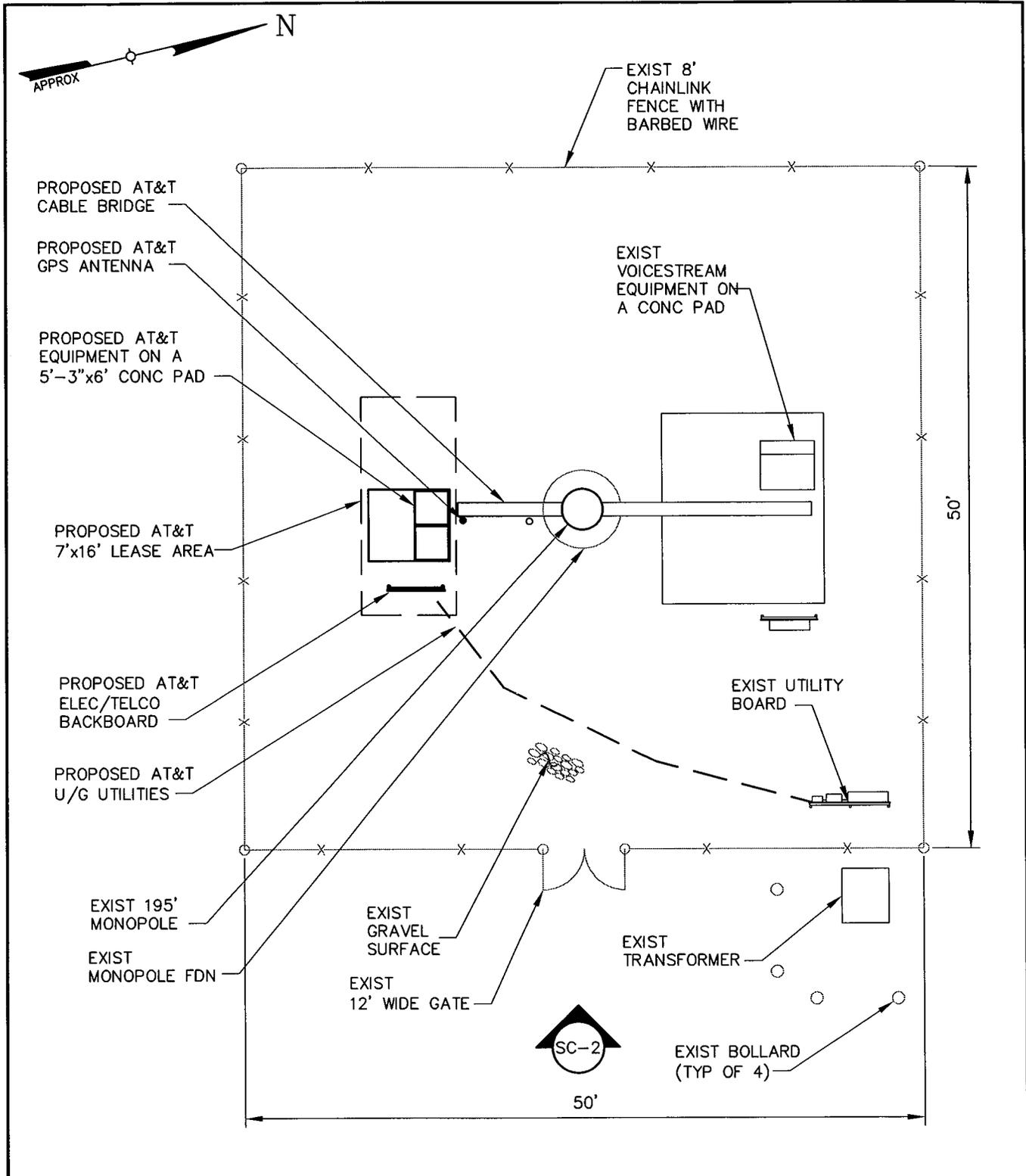
Accordingly, AT&T Wireless requests that the Connecticut Siting Council acknowledge that its proposed modification to the Main Street Facility meets the Council's exemption criteria.

Respectfully Submitted,



Christopher B. Fisher, Esq.
On behalf of AT&T Wireless

cc: Selectman Andrew Nunn
Harold Hewett, Bechtel



TECTONIC/KEYES ASSOCIATES
 1344 BLAIR BEANS HIGHWAY, SUITE 500 OFFICE (860)863-1344
 ROCKY HILL, CT 06067-1349 FAX (860)867-4882

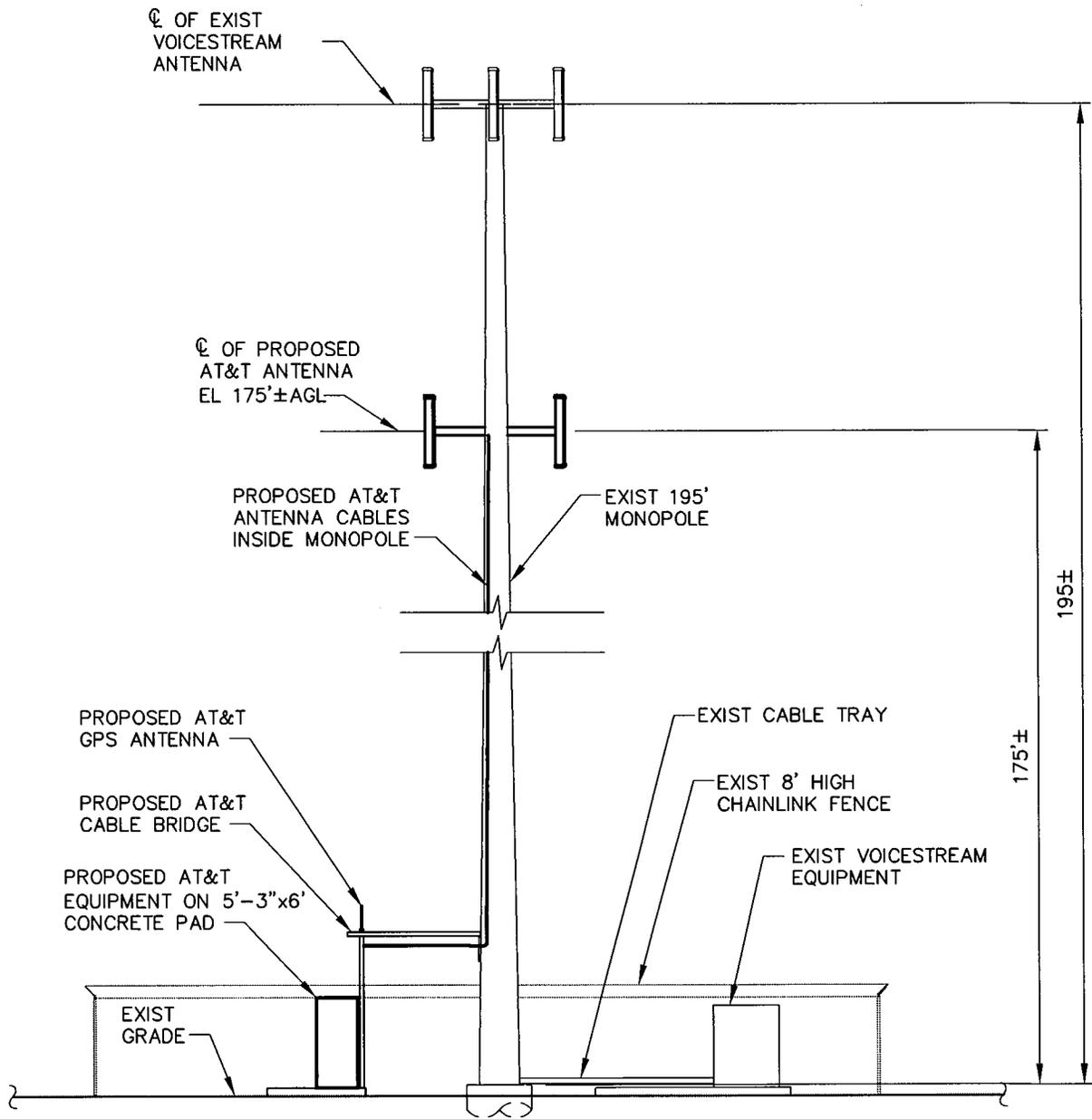


DRAWING TITLE:
SITE DETAIL PLAN
 PROJECT INFORMATION:
MONROE
 CT-189
 88 MAIN STREET
 MONROE, CT

PROPERTY OWNER:
 STEPNEY VOL FIRE DEPT
 88 MAIN STREET
 MONROE, CT

DRAWING NO.
SC-1

| | |
|--------------------------|------------------|
| REVISION NO. A | DRAWN BY: RPM |
| DATE: 3/25/02 | CHECKED BY: MC |
| SCALE: 1"=10' | APPROVED BY: JDF |
| ISSUED FOR COMMENT | SHEET NO. 1 of 2 |
| WORK ORDER #: 2650.CT189 | |



NOTE: FENCE FABRIC, GATE AND TRANSFORMER NOT SHOWN FOR CLARITY.

TECTONIC/KEYES ASSOCIATES
 1344 BLAIR CLARK HIGHWAY, SUITE 500 OFFICE: (860)662-2241
 ROCKY HILL, CT 06067-1346 FAX: (860)267-0820



DRAWING TITLE:
ELEVATION
 PROJECT INFORMATION:
MONROE
 CT-189
 88 MAIN STREET
 MONROE, CT
 PROPERTY OWNER:
 STEPNEY VOL FIRE DEPT
 88 MAIN STREET
 MONROE, CT

| | |
|----------------------------|------------------|
| DRAWING NO. SC-2 | |
| REVISION NO. A | DRAWN BY: RPM |
| DATE: 3/25/02 | CHECKED BY: MC |
| SCALE: 1"=10' | APPROVED BY: JDF |
| ISSUED FOR COMMENT | SHEET NO. 2 of 2 |
| WORK ORDER #: 2650.CT189 | |

SUMMIT MANUFACTURING, LLC

225 KIWANIS BOULEVARD, WEST HAZLETON, PA 18201
 PHONE: (888) 847-6537 FAX: (888) 460-6885
 VISIT US AT WWW.SUMMITMFG.COM



PAUL J. FORD AND COMPANY
STRUCTURAL ENGINEERS
 250 East Broad Street, Suite 500, Columbus, Ohio 43215
 (614) 221-6679 Fax: (614) 448-4105 www.PJFweb.com

JOB DATA

| | | | |
|-------------|---|-------------------|-----------|
| Page 1 of 2 | Job No. | 29201-0505 | |
| By MFP | Design No. | SUMMIT JOB #13880 | |
| Chk'd By | Date | 05-04-2001 | |
| Pole | 195-FT MONOPOLE | Rev. No. | Rev. Date |
| Site | CT-11-215-A, MONROE, CT | | |
| Owner | VOICESTREAM WIRELESS | | |
| Ref. No. | Design 85 MPH / 74 MPH + 1/2" RADIAL ICE ACCORDING TO TIA/EIA-222-F 1996 | | |

LOAD CASES

| | | |
|--------|-----------------------------|-----------------------|
| CASE 1 | 85 MPH WITH NO ICE | DESIGN WIND |
| CASE 2 | 74 MPH WITH 1/2" RADIAL ICE | REDUCED WIND WITH ICE |
| CASE 3 | 50 MPH WITH NO ICE | OPERATIONAL WIND |

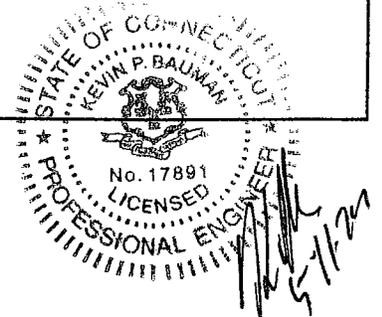
POLE SPECIFICATIONS

| | |
|------------------|--|
| Pole Shape Type: | 18-SIDED POLYGON |
| Taper: | 0.196026 IN/FT |
| Shaft Steel: | ASTM A607 GRADE 65 |
| Base PL Steel: | ASTM A572 GRADE 55 (55 KSI) |
| Anchor Bolts: | 2 1/4" x 8'-0" LONG #18J ASTM A615 GRADE 75 |

ANTENNA LIST

| No. | Elev. | Description |
|-------|--------|---------------------------------|
| - | TOP | 5/8" LIGHTNING ROD |
| 1-12 | TOP | (12) EMS RR90-17-00DP PCS PANEL |
| - | TOP | (3) 14' T-ARM MOUNTS |
| 13-24 | 185.00 | (12) EMS RR90-17-00DP PCS PANEL |
| - | 185.00 | 14' LOW PROFILE PLATFORM |
| 25-36 | 175.00 | (12) EMS RR90-17-00DP PCS PANEL |
| - | 175.00 | 14' LOW PROFILE PLATFORM |
| 37-48 | 165.00 | (12) EMS RR90-17-00DP PCS PANEL |
| - | 165.00 | 14' LOW PROFILE PLATFORM |
| 49-60 | 155.00 | (12) EMS RR90-17-00DP PCS PANEL |
| - | 155.00 | 14' LOW PROFILE PLATFORM |
| 61-62 | 140.00 | (2) 10' WHIP ANTENNA |
| - | 135.00 | 6-FT SIDE ARM MOUNT |
| 63-64 | 120.00 | (2) 10' WHIP ANTENNA |
| - | 115.00 | 6-FT SIDE ARM MOUNT |

STEP BOLTS FULL HEIGHT.
 ANTENNA FEED LINES RUN INSIDE OF POLE.



85 MPH WIND 50 MPH WIND

| Elevation | 85 MPH WIND | | 50 MPH WIND | |
|-----------|-----------------------------|---------------------------|-----------------------------|---------------------------|
| | Lateral Deflection (Inches) | Rotation (sway) (degrees) | Lateral Deflection (Inches) | Rotation (sway) (degrees) |
| TOP | 153.8 | 6.555 | 53.1 | 2.268 |

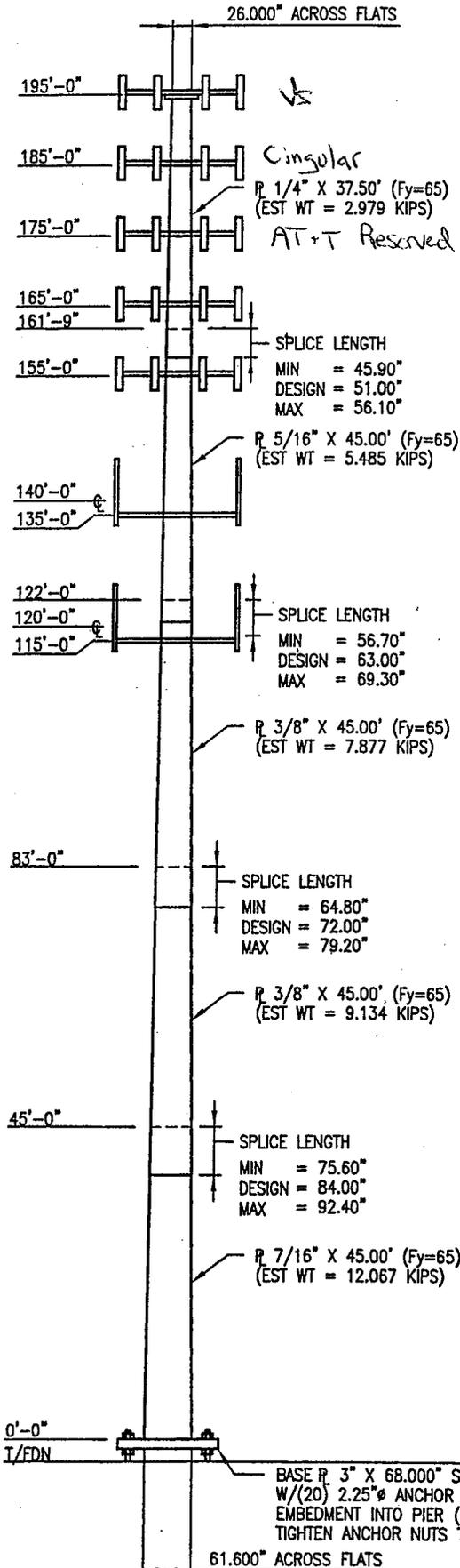
SHAFT SECTION DATA

| Shaft Section | Section Length (feet) | Plate Thickness (in.) | Lap Splice (in.) | Diameter Across Flats (inches) | |
|---------------|-----------------------|-----------------------|------------------|--------------------------------|----------|
| | | | | @ Top | @ Bottom |
| 1 | 37.50 | 0.2500 | | 26.000 | 33.351 |
| 2 | 45.00 | 0.3125 | 51.00 | 32.018 | 40.839 |
| 3 | 45.00 | 0.3750 | 63.00 | 39.185 | 48.006 |
| 4 | 45.00 | 0.3750 | 72.00 | 46.080 | 54.901 |
| 5 | 45.00 | 0.4375 | 84.00 | 52.779 | 61.600 |

NOTE: DIMENSIONS SHOWN DO NOT INCLUDE GALVANIZING TOLERANCES

BASE REACTIONS FOR FOUNDATION DESIGN

MOMENT = 5200 ft-kips
 SHEAR = 38 kips
 AXIAL = 58 kips



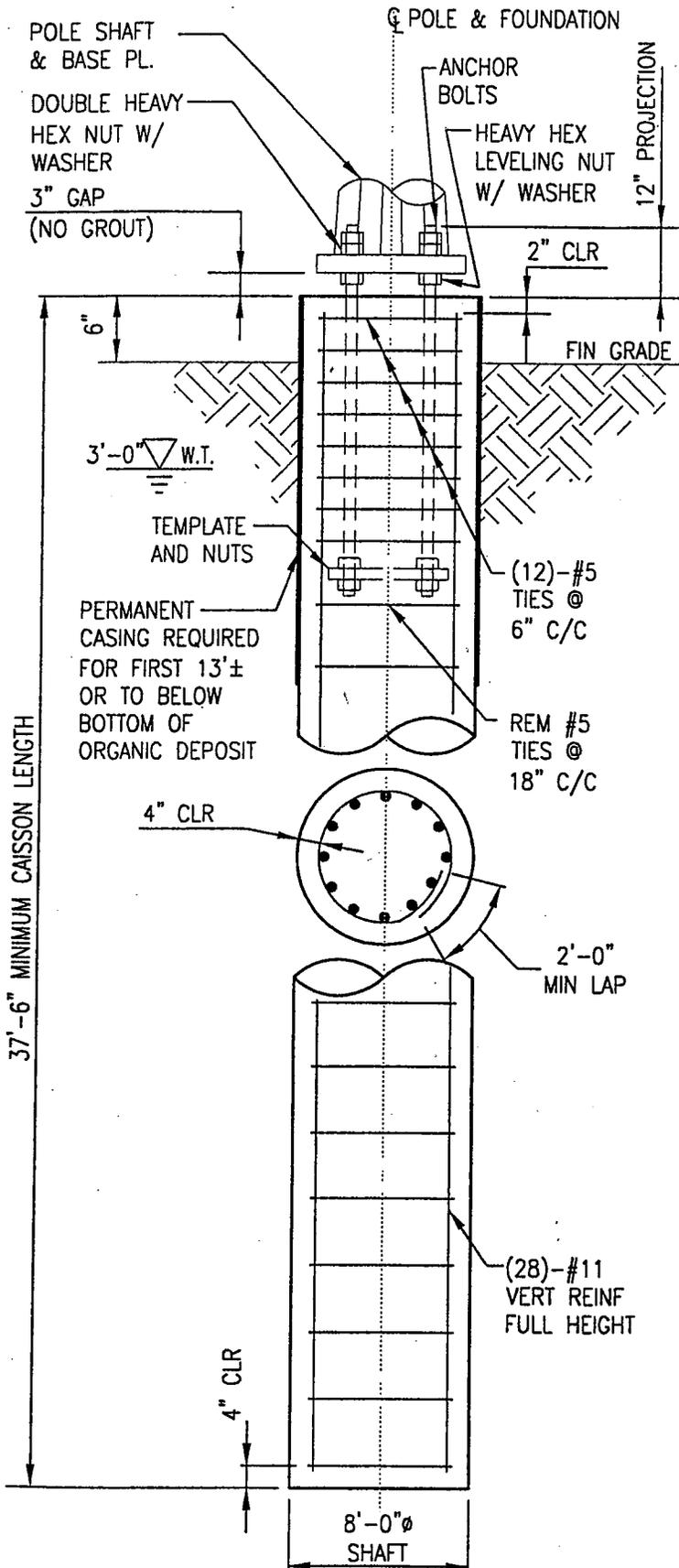
T:\TOWER DRAWINGS\MONOPOLE\292-SUMMIT-292010505\MOO1.DWG | 04-MAY-2001 | 10:19

SUMMIT MANUFACTURING, LLC

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 250 East Broad Street, Suite 500, Columbus, Ohio 43215
 (614) 221-6679 Fax: (614) 448-4105 www.PJFweb.com



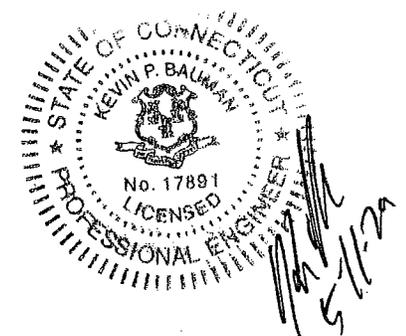
JOB DATA

| | | |
|-------------|--|---------------|
| Page 2 of 2 | Job No. | 29201-0505 |
| By KJS | Design No. | SUMMIT #13880 |
| Chk'd By | Date | 05-10-2001 |
| | Rev. No. | Rev. Date |
| Pole | 195-FT MONOPOLE | |
| Site | CT-11-215-A, MONROE, CT | |
| Owner | VOICESTREAM WIRELESS | |
| Ref. No. | | |
| Design | 85 MPH / 74 MPH + 1/2" RADIAL ICE ACCORDING TO TIA/EIA-222-F 1996 | |

THERE ARE TWO NOTCHES ON THE ANCHOR BOLT TEMPLATES LOCATED 180° APART. THE CONTRACTOR SHALL POSITION THE ANCHOR BOLTS AND TEMPLATES IN THE FOUNDATION PER THE SUMMIT MANUFACTURING ANCHOR BOLT TEMPLATE DRAWING.

NOTES:

- ALL CONCRETE SHALL BE TYPE V, WITH A MINIMUM COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS. CONCRETE SHALL BE AIR ENTRAINED (6±1.5%). CONCRETE SHALL HAVE A MAXIMUM WATER/CEMENT RATIO OF 0.4. ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH "THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE", ACI 318, LATEST EDITION. FOUNDATION INSTALLATION SHALL BE IN ACCORDANCE WITH ACI 336, "STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS", LATEST EDITION.
- REINFORCING STEEL SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-615 (GRADE 60) EXCEPT THAT CAISSON TIES MAY BE ASTM A-615 (GRADE 40). ALL REINFORCING DETAILS SHALL CONFORM TO "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION, UNLESS DETAILED OTHERWISE ON THIS DRAWING.
- SEE PAGE 1 FOR ANCHOR BOLT QUANTITY, SIZE, LENGTH, AND BOLT CIRCLE.
- TOTAL CONCRETE = 70 CUBIC YARDS.
- FOUNDATION DESIGN IS BASED UPON GEOTECHNICAL EXPLORATION REPORT PREPARED BY: JAWORSKI GEOTECH, INC
 REPORT NO.: 01129C
 DATED: 02-15-2001
- CONTRACTOR SHALL READ THE GEOTECHNICAL REPORT AND CONSULT THE GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION.
- GEOTECHNICAL REPORT INDICATES GROUNDWATER WAS ENCOUNTERED AT 3'-0" BELOW GRADE.
- THE FOUNDATION WAS DESIGNED USING THE FOLLOWING SERVICE LOADS:
 MOMENT: 5200 FT-KIPS
 SHEAR: 38 KIPS
 AXIAL: 58 KIPS



CAISSON (DRILLED PIER) FOUNDATION

Job No.: 29201-0505 Design No: Summit #13880 Engineer: MFP
 Description: 195-Ft Monopole - CT-11-215-A, MONROE, CT
 Design: 85 mph / 74 mph + 1/2" radial ice Client: Summit Manufacturing, LLC (Rev. Date:)
 Owner: VoiceStream Wireless Revision: Rev. Date:)
 Status: Final Design

S U M M A R Y O F A N A L Y S I S R E S U L T S

Pole Height: 195.00 ft
 Top Diameter: 26.000 in
 Bottom Diameter: 61.600 in
 Pole Shape: 18-Sided Polygon
 Splice Joint Type: Taper shaft - Slip Joint
 Shaft Taper: 0.196026 (in/ft)
 Shaft Steel Weight: 37.542 kips

POLE SHAFT PROPERTIES:

| Shaft Section Number | Section Length (ft) | Wall Thickness [t] (in) | Steel Yield [Fy] (ksi) | Top Diameter [Dt] (in) | Bottom Diameter [Db] (in) | Slip Joint Overlap (in) |
|----------------------|---------------------|-------------------------|------------------------|------------------------|---------------------------|-------------------------|
| 1. | 37.500 | 0.25000 | 65 | 26.000 | 33.351 | 51.00 |
| 2. | 45.000 | 0.31250 | 65 | 32.018 | 40.839 | 63.00 |
| 3. | 45.000 | 0.37500 | 65 | 39.185 | 48.006 | 72.00 |
| 4. | 45.000 | 0.37500 | 65 | 46.080 | 54.901 | 84.00 |
| 5. | 45.000 | 0.43750 | 65 | 52.779 | 61.600 | |

POLE SHAFT SECTION MAXIMUM FORCES AND MOMENTS:

| Shaft Section Number | Wind Load No. | Wind Speed (mph) | Radial Ice (in) | Sect. Elev. (ft) | At Base of Section Axial Load (kips) | Horiz. Shear (kips) | Bending Moment (ft-kips) | Max. Ratio Actual/Allowable [Ftot/Fb] |
|----------------------|---------------|------------------|-----------------|------------------|--------------------------------------|---------------------|--------------------------|---------------------------------------|
| 1. | 1 | 85.0 | 0.00 | 161.75 | 9.997 | 15.336 | 295.695 | 0.3470 |
| 2. | 1 | 85.0 | 0.00 | 122.00 | 19.151 | 22.893 | 1142.945 | 0.7020 |
| 3. | 1 | 85.0 | 0.00 | 83.00 | 29.869 | 27.626 | 2201.604 | 0.8130 |
| 4. | 1 | 85.0 | 0.00 | 45.00 | 41.784 | 31.485 | 3378.885 | 0.9522 |
| 5. | 1 | 85.0 | 0.00 | 0.00 | 57.154 | 35.802 | 4921.109 | 0.8986 |

>> MAXIMUM BASE REACTIONS : 57.154 35.802 4921.109 <<

POLE DEFLECTION AND ROTATION AT TOP AND AT HIGHEST MICROWAVE DISH ELEVATION:

| Wind Load No. | Wind Speed (mph) | Radial Ice (in) | Location | Elev (ft) | Deflection (in) | Rotation (deg) | Max. Allowable Rotation Limit (deg) |
|---------------|------------------|-----------------|----------|-----------|-----------------|----------------|-------------------------------------|
| 1. | 85.0 | 0.00 | Top | 195.00 | 153.822 | 6.555 | |
| 2. | 73.6 | 0.50 | Top | 195.00 | 130.228 | 5.564 | |
| 3. | 50.0 | 0.00 | Top | 195.00 | 53.092 | 2.268 | |

PJF_Pole (tm) - Monopole Design Program
 Windows Version 3.00.0006 Fri May 11, 2001 - 12:15:18 pm
 (c) 1993 to 2000 PAUL J. FORD AND COMPANY, Columbus, Ohio

 Job No.....: 29201-0505 Design No: Summit #13880 Engineer : MFP
 Description : 195-Ft Monopole - CT-11-215-A, MONROE, CT
 Design.....: 85 mph / 74 mph + 1/2" radial ice
 Owner..... : VoiceStream Wireless Client: Summit Manufacturing, LLC (
 Status..... : Final Design Revision: Rev. Date :

Segment Properties:

(@ Max Segment = 10 ft)

| Tube Segmt No. | Segment Feature Location | Segment Elev. (ft) | Diam. Across Flats (in) | Wall Thick [t] (in) | [W/t] Ratio | Diam/ Thick [D/t] Ratio | Area (in^2) | Ix (in^4) |
|----------------------|--------------------------------|--------------------------|----------------------------------|------------------------------|----------------|----------------------------------|----------------|--------------|
| 1. | top | 195.000 | 26.000 | 0.25000 | 16.57 | 104.00 | 20.43 | 1711.2 |
| 2. | <arm [1]> | 195.000 | 26.000 | 0.25000 | 16.57 | 104.00 | 20.43 | 1711.2 |
| 3. | <arm [2]> | 195.000 | 26.000 | 0.25000 | 16.57 | 104.00 | 20.43 | 1711.2 |
| 4. | <arm [3]> | 195.000 | 26.000 | 0.25000 | 16.57 | 104.00 | 20.43 | 1711.2 |
| 5. | | 190.000 | 26.980 | 0.25000 | 17.27 | 107.92 | 21.21 | 1914.1 |
| 6. | <arm [4]> | 185.000 | 27.960 | 0.25000 | 17.96 | 111.84 | 21.99 | 2132.4 |
| 7. | <arm [5]> | 185.000 | 27.960 | 0.25000 | 17.96 | 111.84 | 21.99 | 2132.4 |
| 8. | | 180.000 | 28.940 | 0.25000 | 18.65 | 115.76 | 22.77 | 2366.8 |
| 9. | <arm [6]> | 175.000 | 29.921 | 0.25000 | 19.34 | 119.68 | 23.54 | 2617.7 |
| 10. | <arm [7]> | 175.000 | 29.921 | 0.25000 | 19.34 | 119.68 | 23.54 | 2617.7 |
| 11. | | 170.000 | 30.901 | 0.25000 | 20.03 | 123.60 | 24.32 | 2885.8 |
| 12. | <arm [8]> | 165.000 | 31.881 | 0.25000 | 20.72 | 127.52 | 25.10 | 3171.6 |
| 13. | <arm [9]> | 165.000 | 31.881 | 0.25000 | 20.72 | 127.52 | 25.10 | 3171.6 |
| 14. | top sec(2) | 161.750 | 32.518 | 0.25000 | 21.17 | 130.07 | 25.60 | 3367.1 |
| 15. | | 160.000 | 32.361 | 0.31250 | 16.50 | 103.56 | 31.79 | 4123.7 |
| 16. | bot sec(1) | 157.500 | 32.851 | 0.31250 | 16.77 | 105.12 | 32.27 | 4315.8 |
| 17. | <arm [10]> | 155.000 | 33.341 | 0.31250 | 17.05 | 106.69 | 32.76 | 4513.7 |
| 18. | <arm [11]> | 155.000 | 33.341 | 0.31250 | 17.05 | 106.69 | 32.76 | 4513.7 |
| 19. | | 150.000 | 34.321 | 0.31250 | 17.60 | 109.83 | 33.73 | 4927.6 |
| 20. | | 140.000 | 36.281 | 0.31250 | 18.71 | 116.10 | 35.68 | 5829.7 |
| 21. | <arm [12]> | 135.000 | 37.262 | 0.31250 | 19.26 | 119.24 | 36.65 | 6319.3 |
| 22. | <arm [13]> | 135.000 | 37.262 | 0.31250 | 19.26 | 119.24 | 36.65 | 6319.3 |
| 23. | | 130.000 | 38.242 | 0.31250 | 19.81 | 122.37 | 37.62 | 6835.7 |
| 24. | top sec(3) | 122.000 | 39.810 | 0.31250 | 20.70 | 127.39 | 39.18 | 7719.0 |
| 25. | | 120.000 | 39.577 | 0.37500 | 16.85 | 105.54 | 46.66 | 9056.8 |
| 26. | bot sec(2) | 116.750 | 40.214 | 0.37500 | 17.15 | 107.24 | 47.42 | 9505.5 |
| 27. | <arm [14]> | 115.000 | 40.557 | 0.37500 | 17.31 | 108.15 | 47.83 | 9753.2 |
| 28. | <arm [15]> | 115.000 | 40.557 | 0.37500 | 17.31 | 108.15 | 47.83 | 9753.2 |
| 29. | | 110.000 | 41.537 | 0.37500 | 17.77 | 110.77 | 48.99 | 10484.4 |
| 30. | | 100.000 | 43.497 | 0.37500 | 18.69 | 115.99 | 51.32 | 12054.6 |
| 31. | | 90.000 | 45.458 | 0.37500 | 19.61 | 121.22 | 53.66 | 13774.3 |
| 32. | top sec(4) | 83.000 | 46.830 | 0.37500 | 20.26 | 124.88 | 55.29 | 15070.7 |
| 33. | | 80.000 | 46.668 | 0.37500 | 20.18 | 124.45 | 55.10 | 14913.7 |
| 34. | bot sec(3) | 77.000 | 48.006 | 0.37500 | 20.81 | 128.02 | 56.69 | 16244.6 |
| 35. | | 70.000 | 48.628 | 0.37500 | 21.10 | 129.68 | 57.43 | 16889.5 |
| 36. | | 60.000 | 50.589 | 0.37500 | 22.02 | 134.90 | 59.76 | 19032.5 |
| 37. | | 50.000 | 52.549 | 0.37500 | 22.95 | 140.13 | 62.10 | 21349.6 |
| 38. | top sec(5) | 45.000 | 53.529 | 0.37500 | 23.41 | 142.74 | 63.26 | 22575.5 |
| 39. | | 40.000 | 53.759 | 0.43750 | 19.90 | 122.88 | 74.04 | 26588.5 |
| 40. | bot sec(4) | 38.000 | 54.901 | 0.43750 | 20.36 | 125.49 | 75.63 | 28333.7 |
| 41. | | 30.000 | 55.719 | 0.43750 | 20.69 | 127.36 | 76.76 | 29629.9 |
| 42. | | 20.000 | 57.680 | 0.43750 | 21.48 | 131.84 | 79.48 | 32894.9 |
| 43. | | 10.000 | 59.640 | 0.43750 | 22.27 | 136.32 | 82.21 | 36391.2 |
| 44. | base | 0.000 | 61.600 | 0.43750 | 23.06 | 140.80 | 84.93 | 40126.8 |

 Total Number of Antennas / Arms = 15

| | [Gh] | [Kz] | | (psf) | (psf) | |
|------|--|---------|---------|--------------|--------------|-----------------|
| | 1.69 | 1.584 | No Ice: | 29.294 | 49.507 | |
| [10] | 155.000 | 155.000 | 0.0000 | No Ice: | 37.70 | 1833.39 216.00 |
| | Description: (12) EMS RR90-17-00DP PCS Panel | | | | | |
| | [Gh] | [Kz] | | [qz] | [qz] [Gh] | |
| | 1.69 | 1.556 | No Ice: | (psf) 28.776 | (psf) 48.631 | |
| [11] | 155.000 | 155.000 | 2.0000 | No Ice: | 24.35 | 1184.16 1300.00 |
| | Description: 14' Low Profile Platform | | | | | |
| | [Gh] | [Kz] | | [qz] | [qz] [Gh] | |
| | 1.69 | 1.556 | No Ice: | (psf) 28.776 | (psf) 48.631 | |
| [12] | 135.000 | 140.000 | 0.0000 | No Ice: | 5.00 | 236.19 40.00 |
| | Description: (2) 10' Whip Antenna | | | | | |
| | [Gh] | [Kz] | | [qz] | [qz] [Gh] | |
| | 1.69 | 1.511 | No Ice: | (psf) 27.951 | (psf) 47.237 | |
| [13] | 135.000 | 135.000 | 0.0000 | No Ice: | 13.00 | 607.73 400.00 |
| | Description: 6-Ft Side Arm Mount | | | | | |
| | [Gh] | [Kz] | | [qz] | [qz] [Gh] | |
| | 1.69 | 1.496 | No Ice: | (psf) 27.662 | (psf) 46.749 | |
| [14] | 115.000 | 120.000 | 0.0000 | No Ice: | 5.00 | 226.01 40.00 |
| | Description: (2) 10' Whip Antenna | | | | | |
| | [Gh] | [Kz] | | [qz] | [qz] [Gh] | |
| | 1.69 | 1.446 | No Ice: | (psf) 26.747 | (psf) 45.202 | |
| [15] | 115.000 | 115.000 | 0.0000 | No Ice: | 13.00 | 580.52 400.00 |
| | Description: 6-Ft Side Arm Mount | | | | | |
| | [Gh] | [Kz] | | [qz] | [qz] [Gh] | |
| | 1.69 | 1.429 | No Ice: | (psf) 26.423 | (psf) 44.655 | |

PJF_Pole (tm) - Monopole Design Program
 Windows Version 3.00.0006 Fri May 11, 2001 - 12:15:18 pm
 (c) 1993 to 2000 PAUL J. FORD AND COMPANY, Columbus, Ohio

 Job No.....: 29201-0505 Design No: Summit #13880 Engineer : MFP
 Description: 195-Ft Monopole - CT-11-215-A, MONROE, CT
 Design..... : 85 mph / 74 mph + 1/2" radial ice
 Owner..... : VoiceStream Wireless Client: Summit Manufacturing, LLC (
 Status..... : Final Design Revision: Rev. Date :

POLE SHAFT SEGMENTS -- MOMENTS and DEFLECTIONS:

LOAD CASE 1: BASIC WIND VELOCITY = 85.00 mph

| Segmnt Elev (ft) | [----- MOMENTS (ft-kips) -----] | | | | [--DEFLECTIONS (inch)-----] | | |
|------------------------|---------------------------------|-----------------------|----------------------------|-----------------|-----------------------------|--------------------------------|----------------------------|
| | From Ant/ Arm | From Shaft Wind | From P-Delta Effects | Total Moment | No P-Delta Effects | Total W/ P-Delta Effects | Total Rotation (deg) |
| 195.00 | 0.039 | 0.000 | 0.000 | 0.039 | 144.776 | 153.822 | 6.555 |
| 195.00 | 0.039 | 0.000 | 0.000 | 0.039 | 144.776 | 153.822 | 6.555 |
| 195.00 | 0.039 | 0.000 | 0.000 | 0.039 | 144.776 | 153.822 | 6.555 |
| 195.00 | 0.039 | 0.000 | 0.147 | 0.186 | 143.481 | 152.443 | 6.555 |
| 190.00 | 16.215 | 1.110 | 1.161 | 18.485 | 137.009 | 145.552 | 6.548 |
| 185.00 | 32.391 | 4.110 | 2.165 | 38.665 | 131.841 | 140.047 | 6.528 |
| 185.00 | 32.391 | 4.110 | 2.467 | 38.968 | 130.551 | 138.674 | 6.528 |
| 180.00 | 64.436 | 9.053 | 4.887 | 78.377 | 124.120 | 131.827 | 6.491 |
| 175.00 | 96.482 | 15.992 | 7.017 | 119.491 | 119.007 | 126.382 | 6.435 |
| 175.00 | 96.482 | 15.992 | 7.600 | 120.074 | 117.736 | 125.028 | 6.435 |
| 170.00 | 144.148 | 24.978 | 11.403 | 180.529 | 111.418 | 118.301 | 6.357 |
| 165.00 | 191.814 | 36.059 | 14.624 | 242.497 | 106.424 | 112.983 | 6.258 |
| 165.00 | 191.814 | 36.059 | 15.475 | 243.348 | 105.188 | 111.667 | 6.258 |
| 161.75 | 232.781 | 44.400 | 18.514 | 295.695 | 101.502 | 107.742 | 6.182 |
| 160.00 | 254.840 | 49.265 | 20.688 | 324.793 | 99.068 | 105.151 | 6.142 |
| 157.50 | 286.352 | 56.675 | 22.910 | 365.937 | 96.652 | 102.579 | 6.084 |
| 155.00 | 317.865 | 64.630 | 25.173 | 407.668 | 94.253 | 100.025 | 6.021 |
| 155.00 | 317.865 | 64.630 | 26.340 | 408.835 | 93.064 | 98.760 | 6.021 |
| 150.00 | 395.979 | 82.217 | 33.017 | 511.213 | 87.185 | 92.502 | 5.883 |
| 140.00 | 552.205 | 124.171 | 46.984 | 723.360 | 75.881 | 80.472 | 5.557 |
| 135.00 | 631.499 | 148.618 | 52.763 | 832.881 | 71.545 | 75.859 | 5.375 |
| 135.00 | 631.499 | 148.618 | 54.219 | 834.337 | 70.484 | 74.730 | 5.375 |
| 130.00 | 713.832 | 175.430 | 61.780 | 951.043 | 65.272 | 69.186 | 5.182 |
| 122.00 | 845.565 | 223.338 | 74.043 | 1142.945 | 57.342 | 60.754 | 4.855 |
| 120.00 | 878.498 | 236.288 | 77.287 | 1192.073 | 55.440 | 58.732 | 4.778 |
| 116.75 | 932.749 | 258.153 | 82.186 | 1273.088 | 52.644 | 55.760 | 4.655 |
| 115.00 | 961.961 | 270.350 | 83.831 | 1316.142 | 51.725 | 54.783 | 4.588 |
| 115.00 | 961.961 | 270.350 | 85.471 | 1317.782 | 50.818 | 53.820 | 4.588 |
| 110.00 | 1048.327 | 306.888 | 93.906 | 1449.121 | 46.383 | 49.107 | 4.393 |
| 100.00 | 1221.058 | 387.446 | 110.852 | 1719.356 | 38.097 | 40.307 | 3.993 |
| 90.00 | 1393.789 | 478.133 | 127.660 | 1999.582 | 30.608 | 32.359 | 3.584 |
| 83.00 | 1514.701 | 547.718 | 139.186 | 2201.604 | 25.848 | 27.312 | 3.293 |
| 80.00 | 1566.520 | 579.082 | 144.281 | 2289.883 | 23.932 | 25.281 | 3.164 |
| 77.00 | 1618.339 | 611.365 | 149.290 | 2378.994 | 22.093 | 23.333 | 3.034 |
| 70.00 | 1739.251 | 690.276 | 160.592 | 2590.119 | 18.101 | 19.104 | 2.729 |
| 60.00 | 1911.982 | 811.696 | 175.602 | 2899.281 | 13.127 | 13.842 | 2.294 |
| 50.00 | 2084.713 | 943.288 | 188.978 | 3216.980 | 9.007 | 9.488 | 1.863 |
| 45.00 | 2171.079 | 1012.858 | 194.948 | 3378.885 | 7.265 | 7.649 | 1.649 |
| 40.00 | 2257.444 | 1084.891 | 200.694 | 3543.029 | 5.724 | 6.023 | 1.457 |
| 38.00 | 2291.991 | 1114.381 | 202.853 | 3609.225 | 5.160 | 5.429 | 1.382 |
| 30.00 | 2430.176 | 1236.145 | 210.629 | 3876.949 | 3.200 | 3.364 | 1.082 |
| 20.00 | 2602.907 | 1396.895 | 218.180 | 4217.981 | 1.413 | 1.484 | 0.714 |
| 10.00 | 2775.638 | 1567.427 | 222.982 | 4566.047 | 0.351 | 0.368 | 0.353 |
| 0.00 | 2948.369 | 1748.075 | 224.665 | 4921.109 | 0.000 | 0.000 | 0.000 |

----- (END LOAD CASE 1 -- MOMENTS AND DEFLECTIONS) -----



RF Exposure Analysis for Proposed AT&T Wireless Antenna Facility

SITE ID: 913-010-189

April 3, 2002

**Prepared by AT&T Wireless Services, Inc.
Nader Soliman RF Engineer**

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1. Introduction

This report constitutes an RF exposure analysis for the proposed AT&T Wireless antenna facility to be located at 88 Main Street; Monroe, CT 06468. This analysis uses site-specific engineering data to determine the predicted levels of radio frequency (RF) electromagnetic energy in the vicinity of the proposed facility and compares those levels with the Maximum Permissible Exposure (MPE) limits established by the Federal Communications Commission.

2. Site Data

| | |
|---|----------------|
| Site Name: Monroe South | |
| Number of simultaneously operating channels | 16 |
| Type of antenna | Allgon 7250.03 |
| Power per channel (Watts ERP) | 250.0 Watts |
| Height of antenna (feet AGL) | 175.00 feet |
| Antenna Aperture Length | 5 feet |

3. RF Exposure Prediction

The following equations established by the FCC, in conjunction with the site data, were used to determine the levels of RF electromagnetic energy present in the vicinity of the proposed facility¹:

$$PowerDensity = \frac{0.64 * N * EIRP(\theta)}{\pi * R^2} \text{ (mW/cm}^2\text{)} \quad \text{Eq. 1-Far-field}$$

Where, *N*= Number of channels, *R*= distance in cm from the RC (Radiation Center) of antenna, and *EIRP(θ)* = The isotropic power expressed in milliwatts in the direction of prediction point. This is the correct equation for antennas which have their gain expressed in dBi, which is the usual case for the PCS bands.

$$PowerDensity = \frac{P_{in} / ch * N * 10^3}{2 * \pi * R * h * \alpha / 360} \text{ (mW/cm}^2\text{)} \quad \text{Eq. 2-Near-field}$$

Where *P_{in}/ch* = Input power to antenna terminals in watts/ch, *R* = distance to center of radiation, *h* = aperture height in meters, *α* = 3 dB beam-width of horizontal pattern.

¹ RF exposure is measured and predicted in terms of power density in units of milliwatts (mW), a thousandth of a watt, or microwatts (μW), a millionth of a watt, per square centimeter (cm²). Data comparing predictive analysis with on site measurements has demonstrated that power density can be effectively predicted at given locations in the vicinity of a wireless antenna facility.

4. FCC Guidelines for Evaluating the Environmental Effects of RF Radiation

In 1985, the FCC established rules to regulate radio frequency (RF) exposure from FCC licensed antenna facilities. In 1996, the FCC updated these rules, which were further amended in August 1997 by a Second Memorandum Opinion and Order. These new rules represent a consensus of the federal agencies responsible for the protection of public health and the environment, including the Environmental Protection Agency (EPA), the Food and Drug Administration (FDA), the National Institute for Occupational Health and Safety (NIOSH), and the Occupational Safety and Health Administration (OSHA).

Under the laws that govern the delivery of wireless communications services in the United States, as amended by the Telecommunications Act of 1996, the FCC has exclusive jurisdiction over RF emissions from personal wireless antenna facilities, which include cellular, PCS, messaging and aviation sites.² Pursuant to its authority under federal law, the FCC has established rules to regulate the safety of emissions from these facilities.

5. Comparison with Standards

Exhibit A shows the levels of RF electromagnetic energy as one moves away from the antenna facility. As shown in Exhibit A, the maximum power density is 0.000479 mW/cm² which occurs at 140 feet from the antenna facility. The chart in exhibit A also shows that the power density is only 0.000050 mW/cm² at a distance of 4 feet. Table 1 below shows the Maximum Permissible Exposure (MPE) limits established by the FCC. There are different MPE limits for public/uncontrolled and occupational/controlled environments.

Table 1: Maximum Permissible Exposure limits for RF radiation

| <i>Frequency</i> | <i>Public/Uncontrolled</i> | <i>Occupational/controlled</i> | <i>Maximum power density at Accessible location</i> |
|------------------|----------------------------|--------------------------------|---|
| Cellular | .580 mW/cm ² | 2.9 mW/cm ² | 0.000479 mW/cm ² |
| PCS | 1 mW/cm ² | 5 mW/cm ² | |

The maximum power density at the proposed facility represents only 0.05% of the public MPE limit for PCS frequencies.

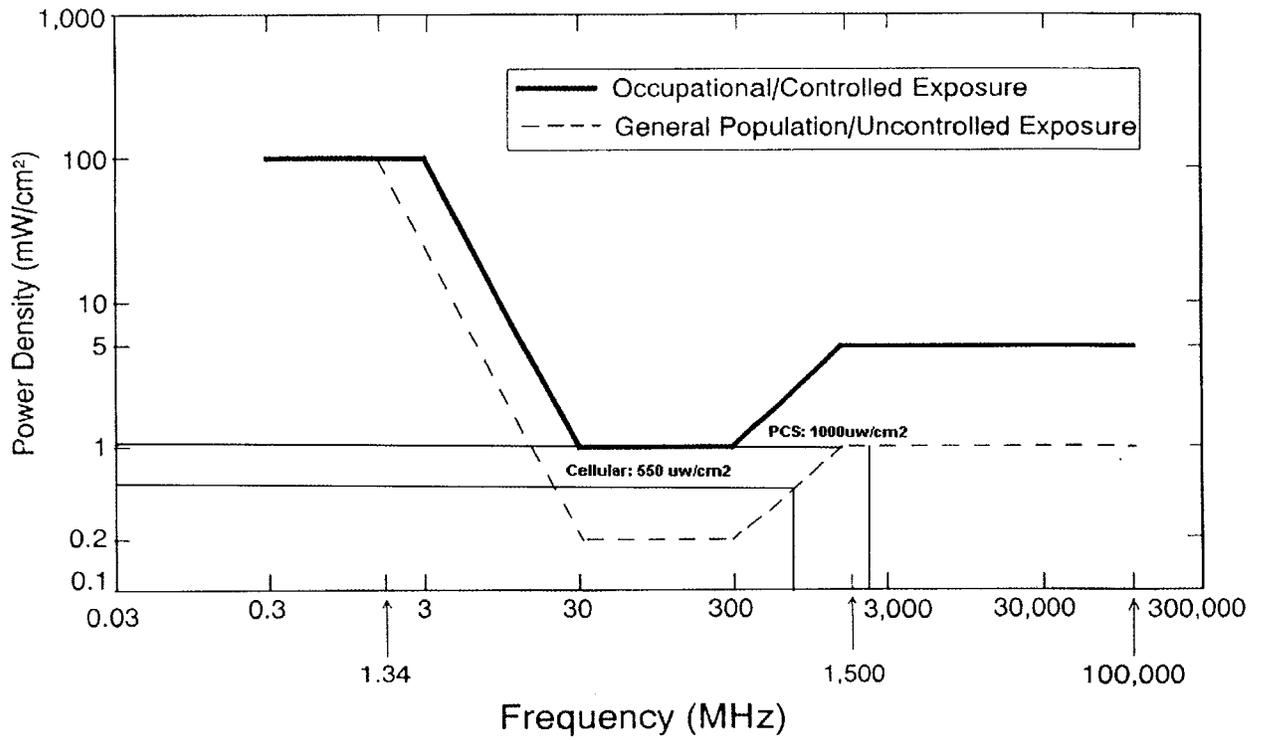
6. Conclusion

This analysis show that the maximum power density in accessible areas at this location is 0.000479 mW/cm², a level of RF energy that is well below the Maximum Permissible Exposure limit established by the FCC.

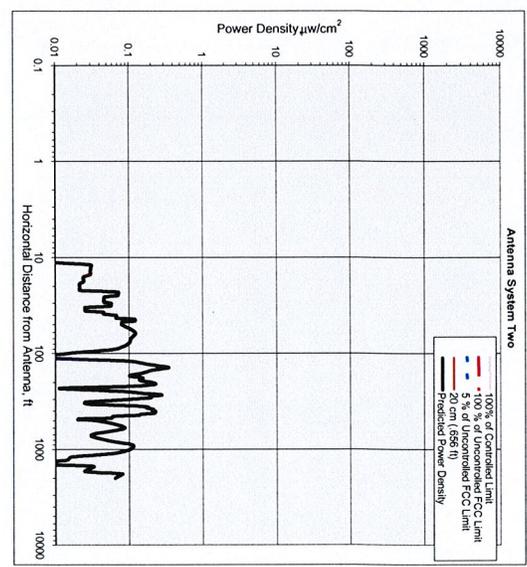
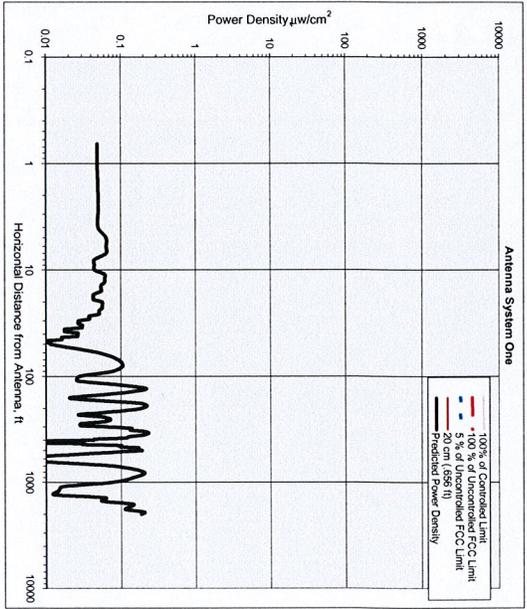
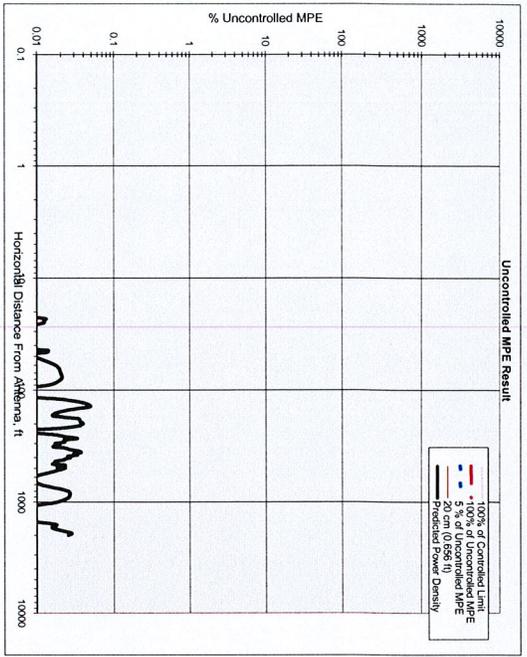
² 47 U.S. C. Section 332 (c) (7)(B)(iv) states that “[n]o State or local government or instrumentality thereof may regulate the placement, construction, and modification of personal wireless service facilities on the basis of the environmental effects of radio frequency emissions to the extent that such facilities comply with the Commission’s regulations concerning such emissions.”

7. FCC Limits for Maximum Permissible Exposure

FCC Limits for Maximum Permissible Exposure (MPE)
Plane-wave Equivalent Power Density



8. Exhibit A



Number of Antenna Systems: 2

Meets FCC Controlled Limits for The Antennas Systems.

Meets FCC Uncontrolled Limits for The Antenna Systems.

Meets 5% of FCC Uncontrolled Limits for The Antenna Systems.

No Further Maximum Permissible Exposure (MPE) Analysis Required.

| | | | | | |
|-------------------------|-----------------------------|------------|------|--------------------|--------|
| Maximum Power Density = | 0.000479 mW/cm ² | % of limit | 0.05 | @Hornz. Dist. feet | 140.00 |
| Composite Power (ERP) = | 20,000.00 | Watts | | | |

Site ID: 913-010-189
 Site Name: Monroe South
 Site Location: 88 Main Street
 Monroe, CT 06468

Performed By: Nader Soliman
 Date: 4/3/02

| Antenna System One | units | Value |
|--|---------|---------|
| Frequency | MHz | 1945.00 |
| # of Channels | # | 16 |
| Max ERP/Ch | Watts | 250.00 |
| Max Pwr/Ch Into Ant. (Center of Radiator) | Watts | 5.86 |
| Calculation Point (above ground or roof surface) | feet | 175.00 |
| Antenna Model No. | | 0.00 |
| Max Ant Gain | dBd | 16.30 |
| Down tilt | degrees | 0.00 |
| Miscellaneous Att. | dB | 0.00 |
| Height of aperture | feet | 5.11 |
| Ant HBW | degrees | 65.00 |
| Distance to Antenna | feet | 172.45 |
| WOST? | Y/N? | n |

| Antenna System Two | units | Value |
|--|---------|---------|
| Frequency | MHz | 1865.20 |
| # of Channels | # | 16 |
| Max ERP/Ch | Watts | 250.00 |
| Max Pwr/Ch Into Ant. (Center of Radiator) | Watts | 9.98 |
| Calculation Point (above ground or roof surface) | feet | 195.00 |
| Antenna Model No. | | 0.00 |
| Max Ant Gain | dBd | 14.40 |
| Down tilt | degrees | 0.00 |
| Miscellaneous Att. | dB | 0.00 |
| Height of aperture | feet | 4.66 |
| Ant HBW | degrees | 90.00 |
| Distance to Antenna | feet | 192.67 |
| WOST? | Y/N? | n |

Ant System ONE Owner: AT&T
 Sector: 3
 Azimuth: 0/120/240

Ant System TWO Owner: VoiceStream
 Sector: 3
 Azimuth: 0/120/360

9. For Further Information

Additional information about the environmental impact of RF energy from personal wireless antenna facilities can be obtained from the Federal Communications Commission:

Dr. Robert Cleveland
Federal Communications Commission
Office of Engineering and Technology
Washington, DC 20554

RF Safety Program: 202-418-2464
Internet address: rfsafety@fcc.gov
RF Safety Web Site: www.fcc.gov/oet/rfsafety

10. References

[1] The Communications Act of 1934, as amended by the Telecommunications Act of 1996, 47 U.S.C. Section 332 (c)(7)(B)(iv).

[2] *Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation*, Notice of Proposed Rulemaking, ET Docket 93-62, 8 FCC Rcd 2849 (1993).

[3] *Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation*, Report and Order, ET Docket 93-62, FCC 96-326, adopted August 1, 1996. 61 Federal Register 41006 (1996).

[4] *Guidelines for Evaluating the Environmental Effects of Radio frequency Radiation*, Second Memorandum Opinion and Order, ET Docket 93-62, adopted August 25, 1997.

[5] *Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields*, OET Bulletin 65, August, 1997.