



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051

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

October 1, 2002

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

RE: **EM-AT&T-033-105-110-131-155-020905** - AT&T Wireless PCS, LLC d/b/a AT&T Wireless notice of intent to modify existing telecommunications facilities located in Cromwell, Plainville, Old Lyme, Southington, and West Hartford, Connecticut.

Dear Attorney Fisher:

At a public meeting held on September 25, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies with the condition that, at the West Hartford site on New Britain Avenue, AT&T replace the Mountain Laurel shrubs that have died in that portion of the screening area for which they have responsibility.

The proposed modifications are to be implemented as specified here and in your notice dated September 3, 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 sites that would not increase tower heights, extend the boundaries of the tower site, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

This decision is under the exclusive jurisdiction of the Council. Any additional change to these facilities 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/DM/laf

c: See attached list.

List Attachment.

- c: Honorable Stanley A. Terry, Jr., First Selectman, Town of Cromwell
- Frederic Curtin, Zoning Enforcement Officer, Town of Cromwell
- Honorable William A. Petit, Town Council Chairman, Town of Plainville
- Robert W. Jackson, Town Manager, Town of Plainville
- Len Tunderman, Town Planner, Town of Plainville
- Honorable Timothy C. Griswold, First Selectman, Town of Old Lyme
- Harry Smith, Planning Director, Town of Old Lyme
- Honorable William V. DePaolo, Town Council Chairman, Town of Southington
- John Weichsel, Town Manager, Town of Southington
- Mary Hughes, Town Planner, Town of Southington
- Barry M. Feldman, Town Manager, Town of West Hartford
- Mila Limson, Senior Planner, Town of West Hartford

EM-AT&T-033-105-110-131-155-020905
CUDDY & FEDER & WORBY LLP

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DANIEL F. LEARY (also CT)
BARRY E. LONG

September 3, 2002

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members
of the Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

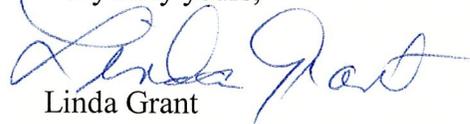
Re: AT&T Wireless Notice of Exempt Modification
10 Sparks Street, Plainville, Connecticut
Christian Hill Road, Cromwell, Connecticut
626 Spring Street, Southington, Connecticut
38 Hatches Hill Road, Old Lyme, Connecticut
13258 New Britain Avenue, West Hartford, Connecticut

RECEIVED
SEP - 5 2002
CONNECTICUT
SITING COUNCIL

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

On behalf of AT&T Wireless, we respectfully enclose an original and twenty-five copies of its notice of exempt modification with respect to the above mentioned facilities together with a check in the amount of \$500.00. We would appreciate it if these matters were placed on the next available agenda for acknowledgment by the Council. Should the Council or staff have any questions regarding this matter, please do not hesitate to contact us.

Very truly yours,


Linda Grant

cc: Christopher B. Fisher, Esq.

CUDDY & FEDER & WORBY LLP

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September 3, 2002

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members
of the Siting Council

Connecticut Siting Council

10 Franklin Square

New Britain, Connecticut 06051

Re: AT&T Wireless - TS-AT&T-033-010213
Christian Hill Road, Cromwell, Connecticut
Notice of Exempt Modification

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SEP - 5 2002

CONNECTICUT
SITING COUNCIL

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

On March 1, 2001 the Council ruled that AT&T's proposed shared use of the existing Verizon facility complied with Section 16-50aa of the Regulations of Connecticut State Agencies (TS-AT&T-033-010213) permitting AT&T to install panel antennas at approximately the 100' level of the existing tower, with associated equipment cabinets located on a concrete pad within an existing fenced compound.

This notice of exempt modification is being provided pursuant to Section 16-50j-72 of the Council's regulations. AT&T will be installing an additional equipment cabinet (approximately 76"H x 76"W x 30"D) on the existing concrete pad at the facility. There will be no other material infrastructure changes to AT&T's facility.

The proposed addition of equipment to AT&T Wireless' facility does not constitute a "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d). The proposed addition to AT&T Wireless' facility will not result in an increase in the Tower's height or extend the boundaries of the existing fenced area surrounding the Tower.

CUDDY & FEDER & WORBY LLP

September 3, 2002

Page 2

Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. AT&T has made measurements of the existing facility to confirm compliance with MPE limits and as set forth in a report prepared by Wireless Facilities, Inc., annexed hereto, 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. For all the foregoing reasons, addition of AT&T Wireless' equipment to its existing facility constitutes an exempt modification which will not have a substantially adverse environmental effect.

AT&T Wireless respectfully submits that the proposed addition of equipment to the Christian Hill Road Facility meets the Council's exemption criteria and requests an acknowledgment of same.

Respectfully Submitted,



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

cc: First Selectman, Town of Cromwell
Darryl Hendrickson, Bechtel Telecommunications
Kenneth C. Baldwin, Esq.



Wireless Facilities, Inc.
1840 Michael Faraday Drive
Suite 200
Reston, VA 20190

August 2, 2002

Mr. Mortimer A. Gelston, Chairman
 Connecticut Siting Council
 10 Franklin Square
 New Britain, CT 06051

RE: FCC Compliance Statement for AT&T Site CT-144 (Cromwell S.W.-Billboard)

Dear Mr. Gelston:

On behalf of AT&T Wireless, Wireless Facilities Inc. has performed office analyses for the above referenced site to determine compliance with FCC mandated Maximum Permissible Exposure (MPE) limits as defined in 47 CFR § 1.1310.

The table below gives a brief summary of the site location, its configuration and associated technical parameters.

| <i>Summary of Site Parameters</i> | |
|--|-------------------------------------|
| Site ID | CT-144 |
| Site Name | Cromwell S.W. – Billboard |
| Latitude | 41.6058 |
| Longitude | -72.7016 |
| Address of Structure | Christian Hill Road Cromwell, CT |
| Type of Structure | Steel Tower |
| FCC Class and Type of Service | PCS TDMA (IS-136) PCS GSM |
| Operating Frequency | PCS Band |
| Azimuths (deg.) | 20, 140, 260 |
| Antenna Radiation Center, AGL | 97.4 ft. |
| Antenna Configuration | 3 Antenna per Sector |
| Antenna Type | Panel |

The mathematical equations used in evaluating the power density values are exactly as outlined in the Office of Engineering & Technology (OET) Bulletin Number 65, which contains the FCC guidelines for evaluating human exposure to radio-frequency electromagnetic fields.

In the case of a single radiating antenna, a prediction for power density in the far field of the antenna can be written as:

$$S = \frac{EIRP}{4\pi D^2} = \frac{1.64 * ERP}{4\pi D^2}$$

Where: S = Power density in W/m^2
EIRP = Effective isotropic radiated power (W)
ERP = Effective radiated power (W)
D = Distance in meters

Using the EPA's recommended factor of 1.6 for 100 % reflection, the worst-case power density can be obtained by incorporating this factor into the above equation. If the distance, D, is in centimeters, the ERP is in Watts, then the worst case power density in mW/cm^2 is given by:

$$S = \frac{(1.64)(.64)(ERP)(1000 \text{ mW / W})}{\pi D^2}$$

Where: S = Power density in mW/cm^2
ERP = Effective radiated power in *Watts* (# of channels x ERP/channel)
D = Distance in *centimeters*

The results presented in this analysis are based on the following:

- WFI's analysis considered the transmit parameters for AT&T's existing TDMA system, for the future GSM deployment they are proposing, and for all other existing carriers.
- The formula utilized for the calculations is taken directly from the FCC OET Bulletin 65 as shown above.
- A 100% duty cycle with maximum power and the maximum number of channels for each system was assumed.
- A worst-case scenario was assumed with all antennas for the existing and future installations pointing directly at the base of the tower. No antenna discrimination was considered.

The following transmission parameters were used throughout this analysis.

| Carrier / Agency | Operating Frequency (MHz) | Maximum ERP/Ch (Watts) | Maximum No. of Xmtrs per Sector | Maximum ERP per Sector (Watts) | Antenna Centerline (ft.) |
|------------------|---------------------------|------------------------|---------------------------------|--------------------------------|--------------------------|
| AT&T, Current | 1900 | 149.8 | 8 | 1198.2 | 97.4 |
| AT&T, Future | 1900 | 275 | 4 | 1100 | 97.4 |
| Verizon | 825 | 100 | 20 | 2000 | 90 |

The maximum worst-case values for power density calculated in this analysis are outlined below:

| Carrier / Agency | Point of Worst Case Predicted Level | Predicted Value ($\mu\text{W}/\text{cm}^2$) | Maximum Limit for Uncontrolled Environment Set by FCC ($\mu\text{W}/\text{cm}^2$) | % of the Standard |
|----------------------------|-------------------------------------|---|---|-------------------|
| AT&T, Current PCS TDMA | Base of the tower | 51.55 | 1000 | 5.16 |
| AT&T, Future PCS GSM | Base of the tower | 47.32 | 1000 | 4.73 |
| Verizon, Cellular | Base of the tower | 101.85 | 550 | 18.52 |
| Total % of Standard | | | | 28.41 |

The results of these analyses indicate that output power levels for the AT&T owned equipment deployed at the above referenced facility meet FCC approved exposure limits for all uncontrolled areas where general population exposure may exist. Thus, the maximum level of RF radiation contributed by AT&T in all uncontrolled areas, assuming a worst case scenario and a 100% duty cycle for all transmitters, is equal to or less than 9.89% (5.16 + 4.73) of the maximum permissible exposure limit mandated by the FCC and endorsed by the NCRP and ANSI/IEEE.

Based on the transmit parameters indicated on the table above, the worst-case composite level of RF radiation in all uncontrolled areas for all identified systems operating at this facility is equal to or less than 28.41% of the FCC maximum permissible exposure limit.

To the best of my knowledge, the statements made and information disclosed in this study are complete and accurate.

Sincerely,
Wireless Facilities, Inc.



Dan Hardiman
Senior Engineer II
Fixed Network Engineering

CUDDY & FEDER & WORBY LLP

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September 3, 2002

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members
of the Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: AT&T Wireless - TS-NEXTEL -155-010531
13258 New Britain Avenue, West Hartford, Connecticut
Notice of Exempt Modification

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

On November 29, 2001 the Council ruled that AT&T's proposed shared use of the existing Sprint facility complied with Section 16-50aa of the Regulations of Connecticut State Agencies (TS-NEXTEL -155-010531) permitting AT&T to install panel antennas at the 95' level of the existing tower, with associated equipment cabinets located on a concrete pad within an existing fenced compound.

This notice of exempt modification is being provided pursuant to Section 16-50j-72 of the Council's regulations. AT&T will be installing an additional equipment cabinet (approximately 76"H x 76"W x 30"D) on the concrete pad at the facility. There will be no other material infrastructure changes to AT&T's facility.

The proposed addition of equipment to AT&T Wireless' facility does not constitute a "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d). The proposed addition to AT&T Wireless' facility will not result in an increase in the Tower's height or extend the boundaries of the existing fenced area surrounding the Tower.

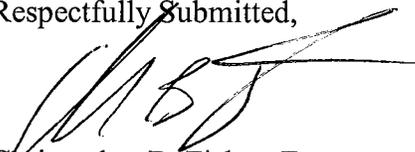
CUDDY & FEDER & WORBY LLP

September 4, 2002
Page 2

Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. AT&T has made measurements of the existing facility to confirm compliance with MPE limits and as set forth in a report prepared by Wireless Facilities, Inc., annexed hereto, 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. For all the foregoing reasons, addition of AT&T Wireless' equipment to its existing facility constitutes an exempt modification which will not have a substantially adverse environmental effect.

AT&T Wireless respectfully submits that the proposed addition of equipment to the New Britain Avenue Facility meets the Council's exemption criteria and requests an acknowledgment of same.

Respectfully Submitted,



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

cc: Mayor, Town of West Hartford
Darryl Hendrickson, Bechtel Telecommunications



Wireless Facilities, Inc.
1840 Michael Faraday Drive
Suite 200
Reston, VA 20190

August 2, 2002

Mr. Mortimer A. Gelston, Chairman
 Connecticut Siting Council
 10 Franklin Square
 New Britain, CT 06051

RE: FCC Compliance Statement for AT&T Site CT-257 (West Hartford-Corbin's Corner)

Dear Mr. Gelston:

On behalf of AT&T Wireless, Wireless Facilities Inc. has performed office analyses for the above referenced site to determine compliance with FCC mandated Maximum Permissible Exposure (MPE) limits as defined in 47 CFR § 1.1310.

The table below gives a brief summary of the site location, its configuration and associated technical parameters.

| <i>Summary of Site Parameters</i> | |
|--|--|
| Site ID | CT-257 |
| Site Name | West Hartford-Corbin's Corner |
| Latitude | 41.730555 |
| Longitude | -72.754160 |
| Address of Structure | 1358 New Britain Avenue West Hartford, CT |
| Type of Structure | Monopole |
| FCC Class and Type of Service | PCS TDMA (IS-136) PCS GSM |
| Operating Frequency | PCS Band |
| Azimuths (deg.) | 40, 150, 260 |
| Antenna Radiation Center, AGL | 95 ft. |
| Antenna Configuration | 1 Antenna per Sector |
| Antenna Type | Panel |

The mathematical equations used in evaluating the power density values are exactly as outlined in the Office of Engineering & Technology (OET) Bulletin Number 65, which contains the FCC guidelines for evaluating human exposure to radio-frequency electromagnetic fields.

In the case of a single radiating antenna, a prediction for power density in the far field of the antenna can be written as:

$$S = \frac{EIRP}{4\pi D^2} = \frac{1.64 * ERP}{4\pi D^2}$$

Where: S = Power density in W/m^2
EIRP = Effective isotropic radiated power (W)
ERP = Effective radiated power (W)
D = Distance in meters

Using the EPA's recommended factor of 1.6 for 100 % reflection, the worst-case power density can be obtained by incorporating this factor into the above equation. If the distance, D, is in centimeters, the ERP is in Watts, then the worst case power density in mW/cm^2 is given by:

$$S = \frac{(1.64)(.64)(ERP)(1000 \text{ mW} / \text{W})}{\pi D^2}$$

Where: S = Power density in mW/cm^2
ERP = Effective radiated power in *Watts* (# of channels x ERP/channel)
D = Distance in *centimeters*

The results presented in this analysis are based on the following:

- WFI's analysis considered the transmit parameters for AT&T's existing TDMA system, for the future GSM deployment they are proposing, and for all other existing carriers.
- The formula utilized for the calculations is taken directly from the FCC OET Bulletin 65 as shown above.
- A 100% duty cycle with maximum power and the maximum number of channels for each system was assumed.
- A worst-case scenario was assumed with all antennas for the existing and future installations pointing directly at the base of the tower. No antenna discrimination was considered.

The following transmission parameters were used throughout this analysis.

| Carrier / Agency | Operating Frequency (MHz) | Maximum ERP/Ch (Watts) | Maximum No. of Xmtrs per Sector | Maximum ERP per Sector (Watts) | Antenna Centerline (ft.) |
|------------------|---------------------------|------------------------|---------------------------------|--------------------------------|--------------------------|
| AT&T, Current | 1900 | 114.4 | 8 | 915.4 | 95 |
| AT&T, Future | 1900 | 275 | 4 | 1100 | 95 |
| Verizon | 825 | Not Available | Not Available | 1730.5 | 105 |
| Sprint | 1900 | Not Available | Not Available | 1298.12 | 118 |
| Nextel | 851 | 100 | 9 | 900 | 128 |
| Voicestream | 1900 | 471.99 | 4 | 1887.96 | 85 |

The maximum worst-case values for power density calculated in this analysis are outlined below:

| Carrier / Agency | Point of Worst Case Predicted Level | Predicted Value ($\mu\text{W}/\text{cm}^2$) | Maximum Limit for Uncontrolled Environment Set by FCC ($\mu\text{W}/\text{cm}^2$) | % of the Standard |
|----------------------------|-------------------------------------|---|---|-------------------|
| AT&T, Current PCS TDMA | Base of the tower | 41.52 | 1000 | 4.15 |
| AT&T, Future PCS GSM | Base of the tower | 49.90 | 1000 | 4.99 |
| Verizon, Cellular | Base of the tower | 63.45 | 550 | 11.54 |
| Sprint, PCS | Base of the tower | 37.19 | 1000 | 3.72 |
| Nextel, ESMR | Base of the tower | 21.73 | 567.33 | 3.83 |
| Voicestream, PCS | Base of the tower | 108.70 | 1000 | 10.87 |
| Total % of Standard | | | | 39.10 |

The results of these analyses indicate that output power levels for the AT&T owned equipment deployed at the above referenced facility meet FCC approved exposure limits for all uncontrolled areas where general population exposure may exist. Thus, the maximum level of RF radiation contributed by AT&T in all uncontrolled areas, assuming a worst case scenario and a 100% duty cycle for all transmitters, is equal to or less than 9.14% (4.15 +4.99) of the maximum permissible exposure limit mandated by the FCC and endorsed by the NCRP and ANSI/IEEE.

Based on the transmit parameters indicated on the table above, the worst-case composite level of RF radiation in all uncontrolled areas for all identified systems operating at this facility is equal to or less than 39.10% of the FCC maximum permissible exposure limit.

To the best of my knowledge, the statements made and information disclosed in this study are complete and accurate.

Sincerely,
Wireless Facilities, Inc.

A handwritten signature in black ink, appearing to read "Dan Hardiman". The signature is written in a cursive style with a large initial "D".

Dan Hardiman
Senior Engineer II
Fixed Network Engineering

CUDDY & FEDER & WORBY LLP

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September 3, 2002

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members
of the Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

Re: AT&T Wireless - TS-AT&T-131-010326
626 Spring Street, Southington, Connecticut
Notice of Exempt Modification

RECEIVED

SEP - 5 2002

CONNECTICUT
SITING COUNCIL

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

On April 12, 2001 the Council ruled that AT&T's proposed shared use of the existing VoiceStream facility complied with Section 16-50aa of the Regulations of Connecticut State Agencies (TS-AT&T-131-010326) permitting AT&T to install panel antennas on a pipe mounted at the top of the existing monopole at a centerline of 158', with an associated equipment shelter located within an expanded fenced compound.

This notice of exempt modification is being provided pursuant to Section 16-50j-72 of the Council's regulations. AT&T will be installing additional equipment within the existing shelter at the facility. There will be no other material infrastructure changes to AT&T's facility.

The proposed addition of equipment to AT&T Wireless' facility does not constitute a "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d). The proposed addition to AT&T Wireless' facility will not result in an increase in the Tower's height or extend the boundaries of the existing fenced area surrounding the Tower. Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's

September 3, 2002

Page 2

boundary. AT&T has made measurements of the existing facility to confirm compliance with MPE limits and as set forth in a report prepared by Wireless Facilities, Inc., annexed hereto, 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. For all the foregoing reasons, addition of AT&T Wireless' equipment to its existing facility constitutes an exempt modification which will not have a substantially adverse environmental effect.

AT&T Wireless respectfully submits that the proposed addition of equipment to the Spring Street Facility meets the Council's exemption criteria and requests an acknowledgment of same.

Respectfully Submitted,



Christopher B. Fisher, Esq.

On behalf of AT&T Wireless

cc: Chairman Town Council, Town of Southington
Darryl Hendrickson, Bechtel Telecommunications
Brendan Sharkey, VoiceStream



Wireless Facilities, Inc.
1840 Michael Faraday Drive
Suite 200
Reston, VA 20190

August 2, 2002

Mr. Mortimer A. Gelston, Chairman
 Connecticut Siting Council
 10 Franklin Square
 New Britain, CT 06051

RE: FCC Compliance Statement for AT&T Site CT-250 (Southington North)

Dear Mr. Gelston:

On behalf of AT&T Wireless, Wireless Facilities Inc. has performed office analyses for the above referenced site to determine compliance with FCC mandated Maximum Permissible Exposure (MPE) limits as defined in 47 CFR § 1.1310.

The table below gives a brief summary of the site location, its configuration and associated technical parameters.

| <u><i>Summary of Site Parameters</i></u> | |
|--|--------------------------------------|
| Site ID | CT-250 |
| Site Name | Southington North |
| Latitude | 41.629720 |
| Longitude | -72.896390 |
| Address of Structure | 626 Spring Street Southington, CT |
| Type of Structure | Monopole |
| FCC Class and Type of Service | PCS TDMA (IS-136) PCS GSM |
| Operating Frequency | PCS Band |
| Azimuths (deg.) | 185, 305 |
| Antenna Radiation Center, AGL | 158 ft. |
| Antenna Configuration | 1 Antenna per Sector |
| Antenna Type | Panel |

The mathematical equations used in evaluating the power density values are exactly as outlined in the Office of Engineering & Technology (OET) Bulletin Number 65, which contains the FCC guidelines for evaluating human exposure to radio-frequency electromagnetic fields.

In the case of a single radiating antenna, a prediction for power density in the far field of the antenna can be written as:

$$S = \frac{EIRP}{4\pi D^2} = \frac{1.64 * ERP}{4\pi D^2}$$

Where: S = Power density in W/m²
EIRP = Effective isotropic radiated power (W)
ERP = Effective radiated power (W)
D = Distance in meters

Using the EPA's recommended factor of 1.6 for 100 % reflection, the worst-case power density can be obtained by incorporating this factor into the above equation. If the distance, D, is in centimeters, the ERP is in Watts, then the worst case power density in mW/cm² is given by:

$$S = \frac{(1.64)(.64)(ERP)(1000 \text{ mW / W})}{\pi D^2}$$

Where: S = Power density in mW/cm²
ERP = Effective radiated power in Watts (# of channels x ERP/channel)
D = Distance in centimeters

The results presented in this analysis are based on the following:

- WFI's analysis considered the transmit parameters for AT&T's existing TDMA system, for the future GSM deployment they are proposing, and for all other existing carriers.
- The formula utilized for the calculations is taken directly from the FCC OET Bulletin 65 as shown above.
- A 100% duty cycle with maximum power and the maximum number of channels for each system was assumed.
- A worst-case scenario was assumed with all antennas for the existing and future installations pointing directly at the base of the tower. No antenna discrimination was considered.

The following transmission parameters were used throughout this analysis.

| Carrier / Agency | Operating Frequency (MHz) | Maximum ERP/Ch (Watts) | Maximum No. of Xmtrs per Sector | Maximum ERP per Sector (Watts) | Antenna Centerline (ft.) |
|------------------|---------------------------|------------------------|---------------------------------|--------------------------------|--------------------------|
| AT&T, Current | 1900 | 116.2 | 8 | 929.4 | 158 |
| AT&T, Future | 1900 | 275 | 4 | 1100 | 158 |
| Verizon | 825 | 100 | 19 | 1900 | 130 |
| Sprint | 1900 | 122 | 11 | 1342 | 148 |
| Nextel | 851 | 100 | 9 | 900 | 115 |

The maximum worst-case values for power density calculated in this analysis are outlined below:

| Carrier / Agency | Point of Worst Case Predicted Level | Predicted Value ($\mu\text{W}/\text{cm}^2$) | Maximum Limit for Uncontrolled Environment Set by FCC ($\mu\text{W}/\text{cm}^2$) | % of the Standard |
|----------------------------|-------------------------------------|---|---|-------------------|
| AT&T, Current PCS TDMA | Base of the tower | 14.46 | 1000 | 1.45 |
| AT&T, Future PCS GSM | Base of the tower | 17.12 | 1000 | 1.71 |
| Verizon, Cellular | Base of the tower | 44.40 | 550 | 8.07 |
| Sprint, PCS | Base of the tower | 23.92 | 1000 | 2.39 |
| Nextel, ESMR | Base of the tower | 27.22 | 567.33 | 4.80 |
| Total % of Standard | | | | 18.42 |

The results of these analyses indicate that output power levels for the AT&T owned equipment deployed at the above referenced facility meet FCC approved exposure limits for all uncontrolled areas where general population exposure may exist. Thus, the maximum level of RF radiation contributed by AT&T in all uncontrolled areas, assuming a worst case scenario and a 100% duty cycle for all transmitters, is equal to or less than 3.16% (1.45 +1.71) of the maximum permissible exposure limit mandated by the FCC and endorsed by the NCRP and ANSI/IEEE.

Based on the transmit parameters indicated on the table above, the worst-case composite level of RF radiation in all uncontrolled areas for all identified systems operating at this facility is equal to or less than 18.42% of the FCC maximum permissible exposure limit.

To the best of my knowledge, the statements made and information disclosed in this study are complete and accurate.

Sincerely,
Wireless Facilities, Inc.

A handwritten signature in black ink, appearing to read "Dan Hardiman", with a stylized flourish at the end.

Dan Hardiman
Senior Engineer II
Fixed Network Engineering

CUDDY & FEDER & WORBY LLP

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WAYNE E. HELLER (also CT)
KENNETH F. JURIST
MICHAEL L. KATZ (also NJ)
JOSHUA E. KIMERLING (also CT)
DANIEL F. LEARY (also CT)
BARRY E. LONG

September 3, 2002

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members
of the Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

RECEIVED
SEP - 5 2002
CONNECTICUT
SITING COUNCIL

Re: AT&T Wireless - TS-AT&T-110-010713
10 Sparks Street, Plainville, Connecticut
Notice of Exempt Modification

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

On July 25, 2001 the Council ruled that AT&T's proposed shared use of the existing Sprint facility complied with Section 16-50aa of the Regulations of Connecticut State Agencies (TS-AT&T-110-010713) permitting AT&T to install panel antennas on a pipe mounted to the top of the existing tower at a centerline of 135', with associated equipment cabinets located on a concrete pad within an expanded fenced compound.

This notice of exempt modification is being provided pursuant to Section 16-50j-72 of the Council's regulations. AT&T will be installing an additional equipment cabinet (approximately 76"H x 76"W x 30"D) on the existing concrete pad at the facility. There will be no other material infrastructure changes to AT&T's facility.

The proposed addition of equipment to AT&T Wireless' facility does not constitute a "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d). The proposed addition to AT&T Wireless' facility will not result in an increase in the Tower's height or extend the boundaries of the existing fenced area surrounding the Tower.

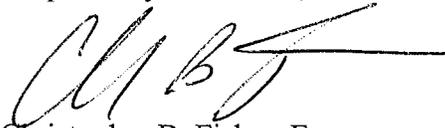
September 3, 2002

Page 2

Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. AT&T has made measurements of the existing facility to confirm compliance with MPE limits and as set forth in a report prepared by Wireless Facilities, Inc., annexed hereto, 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. For all the foregoing reasons, addition of AT&T Wireless' equipment to its existing facility constitutes an exempt modification which will not have a substantially adverse environmental effect.

AT&T Wireless respectfully submits that the proposed addition of equipment to the Sparks Street Facility meets the Council's exemption criteria and requests an acknowledgment of same.

Respectfully Submitted,

A handwritten signature in black ink, appearing to read 'C.B. Fisher', with a long horizontal flourish extending to the right.

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

cc: Town Manager, Town of Plainville
Darryl Hendrickson, Bechtel Telecommunications



Wireless Facilities, Inc.
1840 Michael Faraday Drive
Suite 200
Reston, VA 20190

August 2, 2002

Mr. Mortimer A. Gelston, Chairman
 Connecticut Siting Council
 10 Franklin Square
 New Britain, CT 06051

RE: FCC Compliance Statement for AT&T Site CT-253 (Plainville)

Dear Mr. Gelston:

On behalf of AT&T Wireless, Wireless Facilities Inc. has performed office analyses for the above referenced site to determine compliance with FCC mandated Maximum Permissible Exposure (MPE) limits as defined in 47 CFR § 1.1310.

The table below gives a brief summary of the site location, its configuration and associated technical parameters.

| <u><i>Summary of Site Parameters</i></u> | |
|--|------------------------------------|
| Site ID | CT-253 |
| Site Name | Plainville |
| Latitude | 41.6733 |
| Longitude | -72.8549 |
| Address of Structure | 10 Sparks Street Plainville, CT |
| Type of Structure | Monopole |
| FCC Class and Type of Service | PCS TDMA (IS-136) PCS GSM |
| Operating Frequency | PCS Band |
| Azimuths (deg.) | 75, 195, 315 |
| Antenna Radiation Center, AGL | 135 ft. |
| Antenna Configuration | 1 Antenna per Sector |
| Antenna Type | Panel |

The mathematical equations used in evaluating the power density values are exactly as outlined in the Office of Engineering & Technology (OET) Bulletin Number 65, which contains the FCC guidelines for evaluating human exposure to radio-frequency electromagnetic fields.

In the case of a single radiating antenna, a prediction for power density in the far field of the antenna can be written as:

$$S = \frac{EIRP}{4\pi D^2} = \frac{1.64 * ERP}{4\pi D^2}$$

Where: S = Power density in W/m^2
EIRP = Effective isotropic radiated power (W)
ERP = Effective radiated power (W)
D = Distance in meters

Using the EPA's recommended factor of 1.6 for 100 % reflection, the worst-case power density can be obtained by incorporating this factor into the above equation. If the distance, D, is in centimeters, the ERP is in Watts, then the worst case power density in mW/cm^2 is given by:

$$S = \frac{(1.64)(.64)(ERP)(1000 \text{ mW / W})}{\pi D^2}$$

Where: S = Power density in mW/cm^2
ERP = Effective radiated power in *Watts* (# of channels x ERP/channel)
D = Distance in *centimeters*

The results presented in this analysis are based on the following:

- WFI's analysis considered the transmit parameters for AT&T's existing TDMA system, for the future GSM deployment they are proposing, and for all other existing carriers.
- The formula utilized for the calculations is taken directly from the FCC OET Bulletin 65 as shown above.
- A 100% duty cycle with maximum power and the maximum number of channels for each system was assumed.
- A worst-case scenario was assumed with all antennas for the existing and future installations pointing directly at the base of the tower. No antenna discrimination was considered.

The following transmission parameters were used throughout this analysis.

| Carrier / Agency | Operating Frequency (MHz) | Maximum ERP/Ch (Watts) | Maximum No. of Xmtrs per Sector | Maximum ERP per Sector (Watts) | Antenna Centerline (ft.) |
|------------------|---------------------------|------------------------|---------------------------------|--------------------------------|--------------------------|
| AT&T, Current | 1900 | 114.9 | 8 | 919.2 | 135 |
| AT&T, Future | 1900 | 275 | 4 | 1100 | 135 |
| Sprint | 1900 | 123.03 | 11 | 1353.3 | 125 |
| Nextel | 851 | 100 | 9 | 900 | 105 |
| Cingular, TDMA | 825 | 100 | 16 | 1600 | 115 |
| Cingular, GSM | 825 | 296 | 2 | 592 | 115 |
| Cingular, GSM | 1900 | 427 | 2 | 854 | 115 |

The maximum worst-case values for power density calculated in this analysis are outlined below:

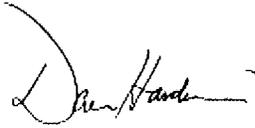
| Carrier / Agency | Point of Worst Case Predicted Level | Predicted Value ($\mu\text{W}/\text{cm}^2$) | Maximum Limit for Uncontrolled Environment Set by FCC ($\mu\text{W}/\text{cm}^2$) | % of the Standard |
|----------------------------|-------------------------------------|---|---|-------------------|
| AT&T, Current PCS TDMA | Base of the tower | 19.85 | 1000 | 1.99 |
| AT&T, Future PCS GSM | Base of the tower | 23.75 | 1000 | 2.38 |
| Sprint | Base of the tower | 34.34 | 1000 | 3.43 |
| Nextel | Base of the tower | 33.00 | 567.33 | 5.82 |
| Cingular, TDMA-Cellular | Base of the tower | 48.39 | 550 | 8.80 |
| Cingular, GSM-Cellular | Base of the tower | 17.91 | 550 | 3.26 |
| Cingular, GSM-PCS | Base of the tower | 25.83 | 1000 | 2.58 |
| Total % of Standard | | | | 28.26 |

The results of these analyses indicate that output power levels for the AT&T owned equipment deployed at the above referenced facility meet FCC approved exposure limits for all uncontrolled areas where general population exposure may exist. Thus, the maximum level of RF radiation contributed by AT&T in all uncontrolled areas, assuming a worst case scenario and a 100% duty cycle for all transmitters, is equal to or less than 4.37% (1.99 +2.38) of the maximum permissible exposure limit mandated by the FCC and endorsed by the NCRP and ANSI/IEEE.

Based on the transmit parameters indicated on the table above, the worst-case composite level of RF radiation in all uncontrolled areas for all identified systems operating at this facility is equal to or less than 28.26% of the FCC maximum permissible exposure limit.

To the best of my knowledge, the statements made and information disclosed in this study are complete and accurate.

Sincerely,
Wireless Facilities, Inc.

A handwritten signature in black ink, appearing to read "Dan Hardiman". The signature is written in a cursive style with a large initial "D".

Dan Hardiman
Senior Engineer II
Fixed Network Engineering

CUDDY & FEDER & WORBY LLP

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JOSHUA E. KIMERLING (also CT)
DANIEL F. LEARY (also CT)
BARRY E. LONG**

September 4, 2002

VIA FEDERAL EXPRESS

Hon. Mortimer Gelston, Chairman and Members
of the Siting Council
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

RECEIVED

SEP - 5 2002

**CONNECTICUT
SITING COUNCIL**

Re: AT&T Wireless - TS-AT&T -105-010801
38 Hatchedts Hill Road, Old Lyme, Connecticut
Notice of Exempt Modification

Hon. Mortimer Gelston, Chairman and Members of the Siting Council:

On August 8, 2001 the Council ruled that AT&T's proposed shared use of the existing VoiceStream facility complied with Section 16-50aa of the Regulations of Connecticut State Agencies (TS-AT&T -105-010801) permitting AT&T to install panel antennas at the 155' level of the existing tower, with associated equipment cabinets located on a concrete pad within an existing fenced compound.

This notice of exempt modification is being provided pursuant to Section 16-50j-72 of the Council's regulations. AT&T will be installing an additional equipment cabinet (approximately 76"H x 76"W x 30"D) on the existing concrete pad at the facility. There will be no other material infrastructure changes to AT&T's facility.

The proposed addition of equipment to AT&T Wireless' facility does not constitute a "modification" of an existing facility as defined in Connecticut General Statutes Section 16-50i(d). The proposed addition to AT&T Wireless' facility will not result in an increase in the Tower's height or extend the boundaries of the existing fenced area surrounding the Tower.

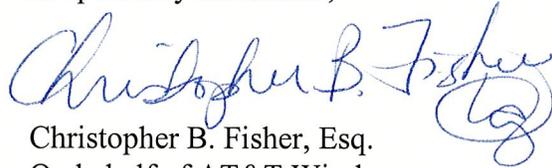
September 4, 2002

Page 2

Further, there will be no increase in noise levels by six (6) decibels or more at the Tower site's boundary. AT&T has made measurements of the existing facility to confirm compliance with MPE limits and as set forth in a report prepared by Wireless Facilities, Inc., annexed hereto, 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. For all the foregoing reasons, addition of AT&T Wireless' equipment to its existing facility constitutes an exempt modification which will not have a substantially adverse environmental effect.

AT&T Wireless respectfully submits that the proposed addition of equipment to the Hatchetts Hill Road Facility meets the Council's exemption criteria and requests an acknowledgment of same.

Respectfully Submitted,

A handwritten signature in blue ink, appearing to read "Christopher B. Fisher". The signature is fluid and cursive, with a large, stylized initial "C" and "F".

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

cc: First Selectman, Town of Old Lyme
Darryl Hendrickson, Bechtel Telecommunications
Brendan Sharkey, VoiceStream



Wireless Facilities, Inc.
 1840 Michael Faraday Drive
 Suite 200
 Reston, VA 20190

June 5, 2002

Mr. Mortimer A. Gelston, Chairman
 Connecticut Siting Council
 10 Franklin Square
 New Britain, CT 06051

RE: FCC Compliance Statement for AT&T Site CT-215 (Old Lyme-South Lyme)

Dear Mr. Gelston:

On behalf of AT&T Wireless, Wireless Facilities Inc. has performed office analyses for the above referenced site to determine compliance with FCC mandated Maximum Permissible Exposure (MPE) limits as defined in 47 CFR § 1.1310.

The table below gives a brief summary of the site location, its configuration and associated technical parameters.

| <i><u>Summary of Site Parameters</u></i> | |
|--|--|
| Site ID | CT-215 |
| Site Name | Old Lyme-South Lyme |
| Latitude | 41.318333 |
| Longitude | -72.270555 |
| Address of Structure | 38 Hatchetts Hill Road Old Lyme, CT 06371 |
| Type of Structure | Monopole |
| FCC Class and Type of Service | PCS TDMA (IS-136) PCS GSM |
| Operating Frequency | PCS Band |
| Azimuths (deg.) | 30, 150, 270 |
| Antenna Radiation Center, AGL | 155 ft. |
| Antenna Configuration | 2 Antenna per Sector |
| Antenna Type | Panel |

The mathematical equations used in evaluating the power density values are exactly as outlined in the Office of Engineering & Technology (OET) Bulletin Number 65, which contains the FCC guidelines for evaluating human exposure to radio-frequency electromagnetic fields.

In the case of a single radiating antenna, a prediction for power density in the far field of the antenna can be written as:

$$S = \frac{EIRP}{4\pi D^2} = \frac{1.64 * ERP}{4\pi D^2}$$

Where: S = Power density in W/m^2
EIRP = Effective isotropic radiated power (W)
ERP = Effective radiated power (W)
D = Distance in meters

Using the EPA's recommended factor of 1.6 for 100% reflection, the worst-case power density can be obtained by incorporating this factor into the above equation. If the distance, D, is in centimeters, the ERP is in Watts, then the worst case power density in mW/cm^2 is given by:

$$S = \frac{(1.64)(.64)(ERP)(1000 \text{ mW / W})}{\pi D^2}$$

Where: S = Power density in mW/cm^2
ERP = Effective radiated power in *Watts* (# of channels x ERP/channel)
D = Distance in *centimeters*

The results presented in this analysis are based on the following:

- ◆ WFI's analysis considered the transmit parameters for AT&T's existing TDMA system, for the future GSM deployment they are proposing, and for all other existing carriers.
- ◆ The formula utilized for the calculation is taken directly from the FCC OET Bulletin 65 as shown above.
- ◆ A 100% duty cycle with maximum power and the maximum number of channels for each system was assumed.
- ◆ A worst-case scenario was assumed with all of the antennas for the existing and future installations pointing directly to the base of the tower. No antenna discrimination was considered.

The following transmission parameters were used throughout this analysis.

| Description | AT&T PCS | | Voicestream PCS | Verizon Cellular | Cingular Cellular |
|-------------------------|-------------|--------|--------------------|---------------------|----------------------|
| | Current | Future | | | |
| Max. ERP/Ch, Watts | 107.5 | 275 | 123.03 | 100 | 100 |
| Max. No. of Ch/Sector | 8 | 4 | 8 | 19 | 19 |
| Max. ERP/Sector, Watts | 859.9 | 1100 | 984.22 | 1900 | 1900 |
| Antenna Centerline, ft. | 155 | 155 | 190 | 175 | 165 |

The maximum worst-case values of the power density for this analysis are outlined below:

| Provider/Carrier | | Point of Worst Case Predicted Level | Predicted Value ($\mu\text{W}/\text{cm}^2$) | Maximum Limit for Uncontrolled Environment Set by FCC ($\mu\text{W}/\text{cm}^2$) | % of the Standard |
|----------------------------|------------------|---|---|---|----------------------|
| AT&T | Current PCS TDMA | Base of the tower | 13.92 | 1000 | 1.39 |
| | Future PCS GSM | Base of the tower | 17.80 | 1000 | 1.78 |
| Voicestream, PCS | | Base of the tower | 10.45 | 1000 | 1.05 |
| Verizon, Cellular | | Base of the tower | 23.90 | 550 | 4.35 |
| Cingular, Cellular | | Base of the tower | 27.01 | 550 | 4.91 |
| Total % of Standard | | | | | 13.48 |

The results of these analyses indicate that output power levels for the AT&T owned equipment deployed at the above referenced facility meets FCC approved exposure limits for all uncontrolled areas where general population exposure may exist. Thus, the maximum level of RF radiation contributed by AT&T in all uncontrolled areas, assuming a worst case scenario and a 100% duty cycle for all the transmitters, is equal to or less than 3.17% (1.39 + 1.78) of the maximum permissible exposure limit mandated by the FCC and endorsed by the NCRP and ANSI/IEEE.

Based on the transmit parameters indicated on the table above, the worst-case composite level of RF radiation in all uncontrolled areas for all identified systems operating at this facility is equal to or less than 13.48% of the FCC maximum permissible exposure limit.

To the best of my knowledge, the statements made and information disclosed in this study are complete and accurate.

Sincerely,
Wireless Facilities, Inc.

A handwritten signature in black ink, appearing to read "Dan Hardiman". The signature is written in a cursive style with a large initial "D".

Dan Hardiman
Senior Engineer II
Fixed Network Engineering

DEPARTMENT OF
COMMUNITY SERVICES

September 18, 2002

S. Derek Phelps, Executive Director
State of Connecticut
Connecticut Siting Council
Ten Franklin Square
New Britain, CT 06051

RECEIVED

SEP 20 2002
CONNECTICUT
SITING COUNCIL

**Subject: 1358 New Britain Avenue
AT & T Telecommunications Facility**

Dear Mr. Phelps:

The Town of West Hartford received notice from the Connecticut Siting Council of a request from AT&T to modify an existing telecommunications facility located at 1358 New Britain Avenue, West Hartford, CT. This matter is being considered by the Council tentatively on September 25, 2002.

We would like to express our concerns in regards to the existing condition of the subject telecommunications site. The previous ruling of the Siting Council on November 29, 2001, permitting AT&T to modify the existing facility, was conditional upon the installation of a brick architectural screening wall around a portion of the facility, a gate and landscaping along the perimeter of the wall. It was noted during a site inspection by the West Hartford Planning Staff on September 17, 2002 that only a portion of the screening wall has been installed. Additionally, the landscaping material has not been maintained properly and half of the plant material appears to be dead and in need of replacement.

This facility is located adjacent to a residential neighborhood and therefore adequate maintenance and screening are critical concerns of the Town and its residents.

Attached for your information is a copy of the prior site plan approval with annotations identifying the extent of the existing screening wall and dead plant material.

Your sincere consideration of our comments and concerns will be appreciated.

If you would like to discuss this matter further, please feel free to call me at 523-3125.

Very truly yours,



Mila Limson
Senior Planner

C: Donald R. Foster, Town Planner
Ron Van Winkle, Director of Community Services
Subject File

1358NDA



TOWN OF WEST HARTFORD 50 SOUTH MAIN STREET
WEST HARTFORD, CONNECTICUT 06107-2431
(860) 523-3123 FAX: (860) 523-3200

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November 6, 2001

VIA REGULAR MAIL

Mr. Joel Rinebold
Executive Director
Connecticut Siting Council
10 Franklin Square
New Britain, Connecticut 06051

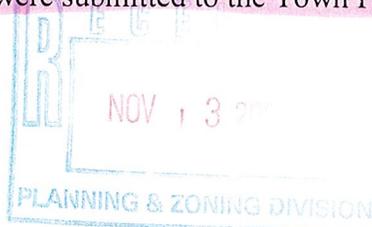
Re: TS-NEXTEL-155-010531
Nextel & AT&T Wireless Joint Tower Sharing Approval
13258 New Britain Avenue, West Hartford, Connecticut

Dear Mr. Rinebold:

We are writing to you on behalf of AT&T Wireless Services with respect to the above referenced matter. In furtherance of the Council's tower sharing approval, please be advised that AT&T and Nextel have coordinated with the Town Planner, Sprint Sites and the underlying property owner to achieve approval of the site plan by the Town as conditioned by the Council.

As a part of AT&T's discussions with the various parties in refining the site plan elements, AT&T learned that it could switch from an equipment shelter to equipment mounted on a concrete pad just north of the existing tower as opposed to the Council approved location for AT&T's equipment south of the existing Verizon shelter. Given that this minor modification to AT&T's equipment was consistent with the Council's discussion at its June 20, 2001 meeting and better met AT&T's objectives at the site, AT&T secured the necessary lease amendments from the tower and property owners to construct its equipment in the revised location.

Thereafter, the revised site plan, including the architectural walls and landscaping required pursuant to the Council's prior approval, were submitted to the Town Planner for review and



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approval. Enclosed is a copy of the plan prepared by Natcomm, LLC which was reviewed and recently approved by the Town Planner's office (Sheets C01 and C02).

We are writing to respectfully request that AT&T's minor modification regarding its equipment relocation be handled administratively by Council staff or to the extent necessary approved by the full Council at its next meeting as a modification to the prior tower sharing approval. It should be noted that there are no other material changes to the plans and Nextel's equipment location is unchanged. It is our belief that the enclosed plan is consistent with the Council's prior tower sharing approval and in fact results in further consolidation of equipment within the compound in a manner that had been requested by the Council, but not fully achieved by AT&T in its original submission. Should you have any questions or comments please do not hesitate to contact us. Thank you for your consideration of the foregoing.

Very truly yours,



Christopher B. Fisher

cc: Carmen Chapman, AT&T
Harold Hewett, Bechtel
Ronald C. Clark, Nextel
Milagros T. Limson, Senior Planner West Hartford