



STATE OF CONNECTICUT
CONNECTICUT SITING COUNCIL

Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
Fax: (860) 827-2950

October 12, 1999

Kenneth C. Baldwin
Robinson & Cole
One Commercial Plaza
280 Trumbull Street
Hartford, CT 06103-3597

RE: EM-CROWN-064-990917 - Crown Atlantic Company LLC notice of intent to modify an existing telecommunications facility located at 439-455 Homestead Avenue in Hartford, Connecticut. (Docket No. 126)

Dear Attorney Baldwin:

At a public meeting held on October 8, 1999, the Connecticut Siting Council (Council) acknowledged your notice to modify this existing telecommunications facility in Hartford, Connecticut, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here, in your notice dated September 16, 1999, and in additional information dated September 24, 1999. 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 been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequency now used on this tower. 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 No. 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/SLL/sll

cc: Honorable Michael P. Peters, Mayor, City of Hartford
Sandy M. Carter, Manager -Regulatory, Bell Atlantic Mobile

by: ROBINSON & COLE
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ROBINSON & COLE LLP

HARTFORD • STAMFORD • GREENWICH • NEW YORK • BOSTON

LAW OFFICES

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Kenneth C. Baldwin
860-275-8345
Internet: kbaldwin@jrc.com

October 5, 2000

Via Facsimile

Mr. Robert Erling
Senior Siting Analyst
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

**Re: Notice of Exempt Modification
Siting Council Docket No. 126 – Hartford, Connecticut**

Dear Mr. Erling:

As a follow-up to our conversation yesterday afternoon, I am writing to correct the RF power density calculations for the combined operation of all carriers at the Hartford facility.

The figures in paragraph number four of my October 4, 2000 letter should have read that the combined operations of Celco, VoiceStream, AT&T and Sprint would be 33% of the FCC standard. The additional VoiceStream antennas would increase the RF power density levels at the site by 1.377% of the standard. The total RF power density levels would therefore be 34.377% of the FCC standard.

I apologize for the confusion. If you have any additional questions or need any additional information please do not hesitate to contact me.

Sincerely,



Kenneth C. Baldwin

KCB/kmd

cc: J. Brendan Sharkey, Esq.

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Kenneth C. Baldwin
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Internet: kbaldwin@rc.com

September 24, 1999

Via Facsimile

Steven Levine
Siting Analyst
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051

RECEIVED

SEP 24 1999

**CONNECTICUT
SITING COUNCIL**

Re: **Crown Atlantic Company, LLC ("Crown")
Exempt Modification Filings**

Dear Mr. Levine:

As you requested, enclosed are the structural analyses for the Crown towers at Hartford and Haddam. Also enclosed is the table showing the RF power density calculation completed by Omnipoint for their antennas on the Chester facility. I have confirmed that the character of the land and surrounding land uses at the Haddam facility have not changed since the tower was approved by the Council. Finally, the power density calculations included in our September 16, 1999 filing includes the power density calculations for the microwave dish antennas.

Please contact me if you need any additional information. Thank you for your cooperation.

Sincerely,


Kenneth C. Baldwin

KCB/kmd
Enclosures

- cc: Dean Olsen
- Hal Giglio
- Ronald Clark
- J. Brendan Sharkey, Esq.
- Jennifer Young Gaudet

valmont MICROFLECT

Communications Division
3575 25th St S.E. • Salem, Oregon 97302
Phone: (503) 363-9267; Fax: (503) 363-4613

August 18, 1999

Crown Castle International
2139 Silas Deane Highway, Suite 2212
Rocky Hill, CT 06067
Attn: Hal Giglio

**Subject: Structural Analysis for Existing 140' Monopole
Analysis Order No. 18915-69
Original Valmont Order No. 10664-90
Site: Hartford NW, CT**

Dear Mr. Giglio,

We have completed the structural analysis you requested for the above referenced monopole. The results of our analysis indicate that the existing monopole, baseplate, anchor bolts and foundation are structurally adequate to accommodate your proposed antenna loading.

The design criteria and loading condition used for this analysis was as follows:

- Wind Loading Condition No. 1: 125 mph Basic wind speed, no ice
- Wind Loading Condition No. 2: 108.3 mph Basic wind speed, 2" ice
- One (1) Valmont Standard Platform with rails installed at the 137' elevation
- Twelve (12) ALP 9212-N antennas mounted to the platform at the 137' elevation
- One (1) Valmont Standard Platform with rails installed at the 124' elevation
- Nine (9) APN199015 antennas mounted to the platform at the 124' elevation
- One (1) Valmont Standard Platform without rails installed at the 114' elevation
- Nine (9) Allgon 7184.15 antennas mounted to the platform at the 114' elevation

The structural analysis was based upon pole shaft information obtained from Valmont/Microflect Drawing No. DC0604Z.

The following is a comparison of the ground line reactions between the original design and the results of this analysis:

| | <u>Original Design</u> | <u>This Analysis</u> |
|------------------------|------------------------|----------------------|
| Base Moment (ft.-kips) | 5,428 | 5,253 |
| Base Shear (kips) | 57.2 | 60.2 |
| Base Axial (kips) | 56.1 | 64.6 |

Valmont/Microflect certifies that the proposed loading meets the design criteria of the ANSI/TIA/EIA-222 Revision F, "Structural Standards for Steel Antenna Towers and Antenna Supporting Structures."

Valmont/Microflect certifies that three additional exit ports can be installed in the monopole at the 115' elevation to accommodate the coax for the proposed carrier at 114'. These ports should be reinforced with the appropriate handhole rim. Valmont/Microflect's standard handhole part for an antenna level is B2239. This handhole rim measures 6"x18" OD, and includes four J-hooks for suspending coax hoisting grips.

These new handhole rims should be installed at 120° apart from each other in a symmetrical cross-sectional pattern to maintain the structural integrity of the shaft at this elevation. Included with each handhole rim is a copy of Valmont/Microflect's guidelines for field installation of handholes. The contractor installing these handhole rims should carefully follow the procedures outlined within the installation guidelines.

The following parts list identifies the parts required to accommodate the proposed carrier at 114':

| Part No: | Description: | Qty: | Unit Price: |
|----------|----------------------|------|-------------|
| B1894 | Low profile platform | 1 | \$2950.00 |
| B1878 | Tri-Bracket | 1 | \$1260.00 |
| B1478 | 5.5' Antenna Mount | 9 | \$21.00 |
| B2239 | 6"x18" handhole | 3 | \$230.00 |

Please contact our components division toll free at (888) 880-9191 to purchase these parts. If there are any questions concerning the structural analysis, please don't hesitate to contact me directly at (503) 316-2051.

Sincerely,



Christopher Blaumer
Associate Engineer

Enc. Design Calculations (2 copies)



STATE OF CONNECTICUT
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Ten Franklin Square
New Britain, Connecticut 06051
Phone: (860) 827-2935
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September 20, 1999

Honorable Michael P. Peters
Mayor
City of Hartford
Municipal Building
550 Main Street
Hartford, CT 06103

RE: EM-CROWN-064-990917 - Crown Atlantic Company LLC notice of intent to modify an existing telecommunications facility located at 439-455 Homestead Avenue in Hartford, Connecticut. (Docket No. 126)

Dear Mayor Peters:

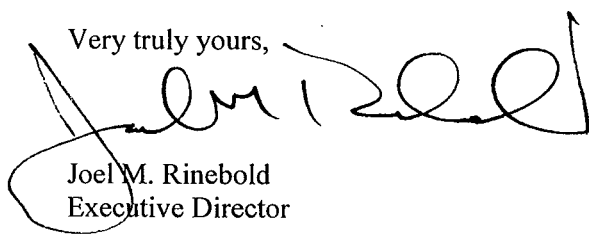
The Connecticut Siting Council (Council) received this request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72.

The Council will consider this item at the next meeting scheduled for Friday, October 8, 1999, at 10:00 a.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,



Joel M. Rinebold
Executive Director

JMR/jlh

Enclosure: Notice of Intent

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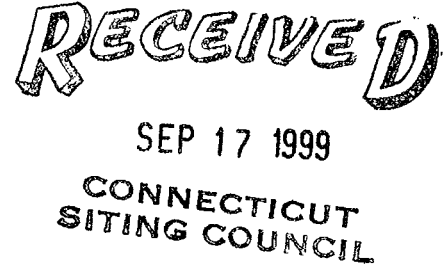
LAW OFFICES

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Kenneth C. Baldwin
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September 16, 1999

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



**Re: Notice of Exempt Modification
Siting Council Docket No. 126
Hartford, Connecticut**

Dear Mr. Rinebold:

Crown Atlantic Company LLC ("Crown") holds the Siting Council certificate for the existing telecommunications tower and related facility in Hartford, Connecticut (Docket No. 126) by virtue of a certificate transfer from Bell Atlantic Mobile, approved by the Council on March 24, 1999. Crown intends to allow AT&T Wireless, Inc. ("AT&T") to install nine panel-type antennas and related equipment at the existing facility in Hartford. Please accept this letter as notification, pursuant to R.C.S.A. § 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. § 16-50j-72(b)(2). In accordance with R.C.S.A. § 16-50j-73, a copy of this letter is being sent to the Mayor of Hartford, Michael P. Peters.

The existing Hartford facility consists of a 140-foot self-supporting monopole tower and related equipment located off Homestead Avenue in Hartford. The facility was approved by the Council on April 9, 1990. The tower supports antennas of Bell Atlantic Mobile ("BAM") and Omnipoint Communications, Inc. ("OCI").

AT&T plans to install nine panel-type antenna mounted on the tower at the 117 foot level. AT&T will install an equipment cabinet near the base of the tower. (See Exhibit A). The existing tower is structurally capable of supporting AT&T's use.

The planned modifications to the Hartford facility fall squarely within those activities explicitly provided for in R.C.S.A. § 16-50j-72(b)(2).

ROBINSON & COLE LLP

Joel M. Rinebold
September 16, 1999
Page 2

1. The proposed modification will not increase the height of the tower. AT&T's antennas will be installed with a center line at the 117 foot level. The enclosed tower drawing confirms that the proposed modifications will not increase the height of the tower.
2. The installation of AT&T equipment near the base of the tower, as reflected on the attached site plan, will not require an extension of the site boundaries. AT&T's proposed equipment cabinet will be located entirely within the existing fenced area.
3. The proposed modification to the facility will not increase the noise levels at the existing facility by six decibels or more. AT&T's equipment is self-contained and requires no additional heating, ventilation or cooling equipment.
4. The operation of the additional antennas will not increase the total radio frequency (RF) power density, measured at the base of the tower, to a level at or above the applicable standard. The "worst-case" RF power density calculation for a point at the base of the tower for the existing operations of BAM and OCI antennas would be 8.14% of the FCC Standard. AT&T's operations would add 0.0256 mW/cm² (2.56% of the FCC Standard). Therefore, the calculated "worst case" power density for the planned combined operation at the site including AT&T antennas would be 10.7% of the FCC Standard as calculated for a mixed frequency site.

For the foregoing reasons, Crown respectfully submits that the proposed addition of antennas and equipment at the Hartford facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

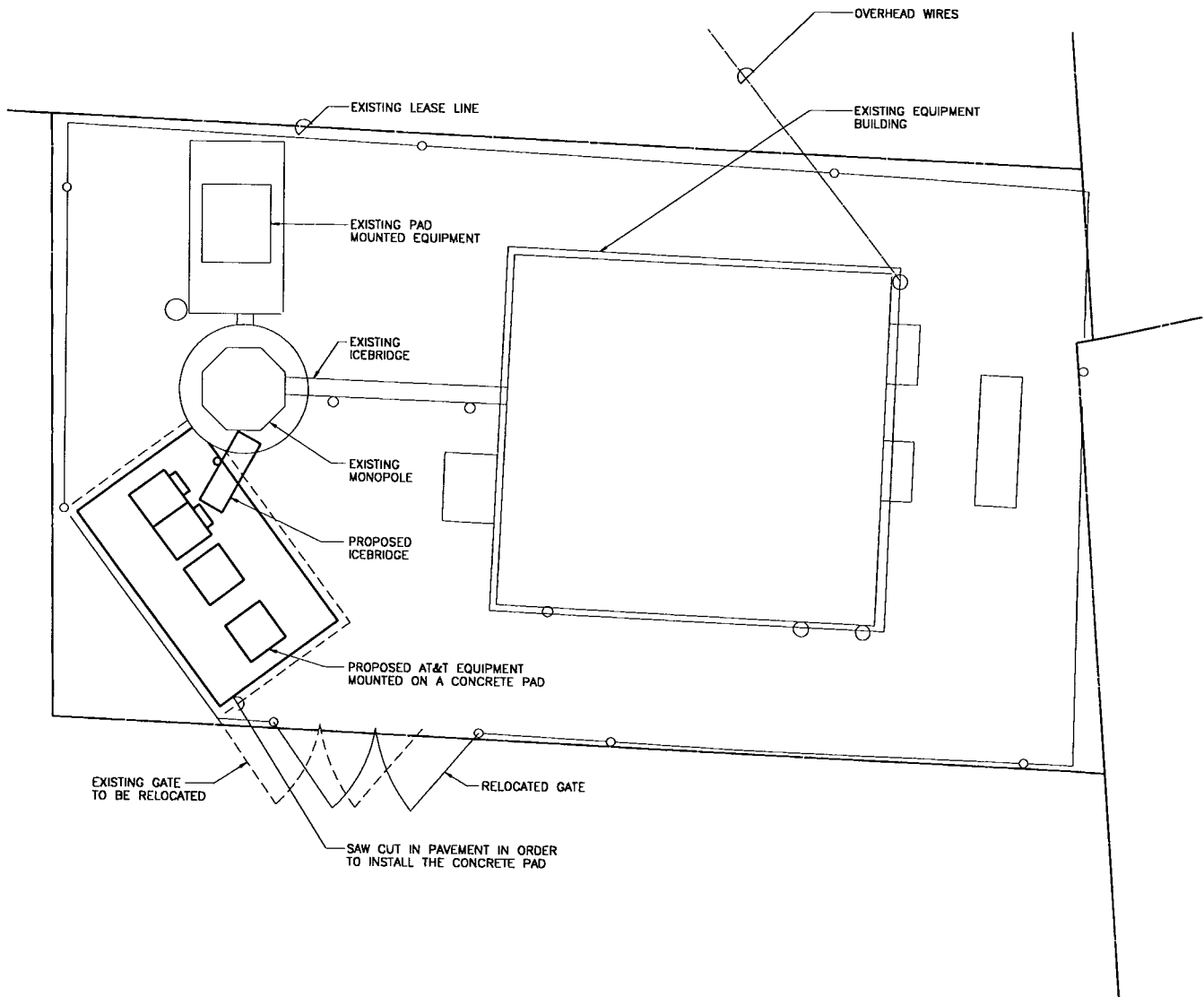
Sincerely,



Kenneth C. Baldwin

KCB/kmd

cc: Michael P. Peters, Mayor
Christopher F. Ciolfi, Crown Atlantic Company, LLC
Dean Olsen, Crown Atlantic Company, LLC
Jennifer Young Gaudet



1 COMPOUND PLAN
 SC-1 SCALE: 1" = 10'-0"

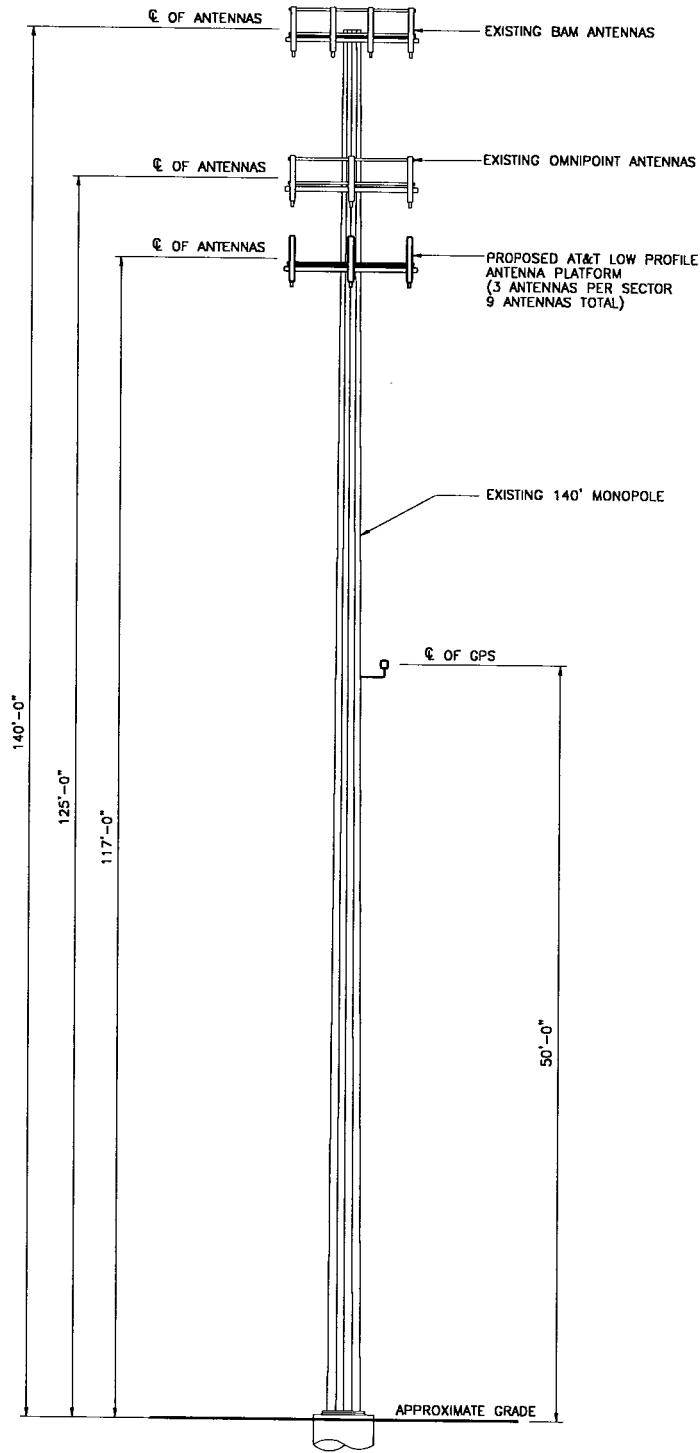
SITE ID NO:
 CT-131
 Designed by:
 Drawn by: JM
 Checked by:

URS Greiner Woodward Clyde
A-E-S
 500 ENTERPRISE DRIVE
 ROCKY HILL, CONNECTICUT
 1-(880)-529-8882

AT&T WIRELESS PCS, INC.
 UNMANNED WIRELESS COMMUNICATION EQUIPMENT SITE
 SITE ADDRESS:
HOMESTEAD
 439-455 HOMESTEAD AVENUE
 HARTFORD, CONNECTICUT

| | | |
|--------------------|---------------|----------------|
| 1 | 9/15/99 | REVISIONS |
| REV. | DATE: | DESCRIPTION |
| Scale: AS SHOWN | | Date: 08/25/99 |
| Job No. F301824.62 | File No. SC-1 | Dwg. 1 of 2 |

Dwg. No.
SC-1



1 TOWER ELEVATION
 SC-2 SCALE: N.T.S.

SITE ID NO:
CT-131
 Designed by:
 Drawn by: JCF
 Checked by:

**URS Greiner Woodward Clyde
 A-E-S**
 500 ENTERPRISE DRIVE
 ROCKY HILL, CONNECTICUT
 1-(860)-529-8882

AT&T WIRELESS PCS, INC.
 UNMANNED WIRELESS COMMUNICATION EQUIPMENT SITE
 SITE ADDRESS:
HOMESTEAD
 439-455 HOMESTEAD AVENUE
 HARTFORD, CONNECTICUT

| REV. | DATE | DESCRIPTION |
|------|---------|-------------|
| 1 | 9/13/99 | REVISIONS |

Scale: AS SHOWN Date: 08-25-99
 Job No. F301284.62 File No. SC-2

Dwg. No.
SC-2
 Dwg. 2 of 2