Daniel F. Caruso Chairman

STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square, New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Internet: ct.gov/csc

July 11, 2008

Kenneth C. Baldwin, Esq. Robinson & Cole LLP 280 Trumbull Street Hartford, CT 06103-3597

RE: **EM-VER-027-080530** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 48 Cow Hill Road, Clinton, Connecticut.

Dear Attorney Baldwin:

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

The proposed modifications are to be implemented as specified here and in your notice dated May 30, 2008, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Affirmative Action / Equal Opportunity Employer

Thank you for your attention and cooperation.

S. Derek Phelps
Executive Director

SDP/MP/cm

c: The Honorable William W. Fritz, Jr., First Selectman, Town of Clinton Thomas Lane, Zoning Enforcement Officer, Town of Clinton Crown Castle



STATE OF CONNECTICUT

CONNECTICUT SITING COUNCIL

Ten Franklin Square. New Britain, CT 06051 Phone: (860) 827-2935 Fax: (860) 827-2950 E-Mail: siting.council@ct.gov Internet: ct.gov/csc

June 2, 2008

The Honorable William W. Fritz, Jr. First Selectman
Town of Clinton
54 East Main Street
Clinton, CT 06413

RE: **EM-VER-027-080530** – Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 48 Cow Hill Road, Clinton, Connecticut.

Dear Mr. Fritz:

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

If you have any questions or comments regarding this proposal, please call me or inform the Council by June 16, 2008.

Thank you for your cooperation and consideration.

Executive Director

SDP/jb

Enclosure: Notice of Intent

c: Thomas Lane, Zoning Enforcement Officer, Town of Clinton



ROBINSON & CO' T

EM-VER-027-080530

KENNETH C. BALDWIN

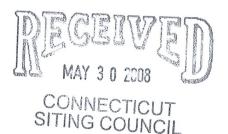
280 Trumbull Street Hartford, CT 06103-3597 Main (860) 275-8200 Fax (860) 275-8299 kbaldwin@rc.com Direct (860) 275-8345

ORIGINAL

May 30, 2008

Via Hand Delivery

S. Derek Phelps Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051



Re: Notice of Exempt Modification – Antenna Swap 48 Cow Hill Road, Clinton, Connecticut

Dear Mr. Phelps:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains a wireless telecommunications facility at the above referenced location. The Council approved Cellco's shared use of this facility in Docket No. 148. On April 19, 2005, the Council approved Cellco's request to replace three cellular antennas with six PCS antennas, for a total of fifteen antennas. Cellco now intends to modify its installation by replacing six (6) cellular antennas with six (6) newer model LPA-80080/6CF cellular antennas at the 208-foot level on the 212-foot tower and adding two (2) tower mounted amplifiers (TMAs). The tower is owned by Crown Castle International. Attached behind Tab 1 are the specifications for the proposed replacement antennas and TMAs, as well as a typical TMA mounting detail.

Please accept this letter as notification pursuant to R.C.S.A. § 16-50j-73, for construction that 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 William W. Fritz, First Selectman of the Town of Clinton. Pursuant to a Council directive, a copy of this letter is also being sent to Raymond E. Hester, the owner of the property on which the facility is located.

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

1. The proposed modifications will not result in the increase in the overall height of the existing structure. Cellco's replacement antennas and TMAs will be located at the 208-foot level of the 212-foot tower.



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ROBINSON & COLELLP

S. Derek Phelps May 30, 2008 Page 2

- 2. The proposed modifications will not involve any ground-mounted equipment and, therefore, will not require the extension of the site boundaries.
- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more.
- 4. The operation of the replacement antennas will not increase radio frequency (RF) power density levels at the facility to a level at or above the Federal Communications Commission (FCC) adopted safety standard. A cumulative power density table for the facility is included behind <u>Tab 2</u>.

Also attached is a Structural Analysis Report confirming that the tower can support the proposed modifications. (See Tab 3).

For the foregoing reasons, Cellco respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2).

Sincerely,

Kenneth C. Baldwin

Enclosures Copy to:

William W. Fritz, Clinton First Selectman

Raymond E. Hester

Sandy M. Carter



LPA-80080/6CF

When ordering replace "___" with connector type.

Mechanical specifications

Length	1800	mm	70.9	in
Width	140	mm	5.5	in
Depth Depth with z-bracket		mm mm	13.2 14.8	11000
⁴⁾ Weight	9.5	kg	21.0	lbs
Wind Area Fore/Aft	0.25	m²	0.7	6 2
Side	0.25		2.7 6.5	
D-4130# 137 # #				

Rated Wind Velocity (Safety factor 2.0) >295 km/hr >183 mph

Wind Load @ 100 mph (161 km/hr) Fore/Aft 415 N 93.3 lbs Side 870 N 195.6 lbs

Antenna consisting of aluminum alloy with brass feedlines covered by a UV safe fiberglass radome.

Mounting and Downtilting

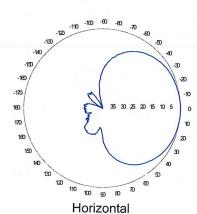
Mounting brackets attach to a pipe diameter of Ø50-102 mm (2.0-4.0 in). If the lock-down brace is used, the maximum diameter is Ø88.9 mm (3.5 in)

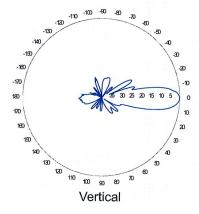
Mounting Bracket & Downtilt Bracket Kit #21699999

Electrical specifications

50Ω
NE or E-DIN 1 port / center
≤ 1.4:1
Vertical
14 dBd
500 W
80°
10°
0°
10%
Direct Ground

Radiation pattern¹⁾

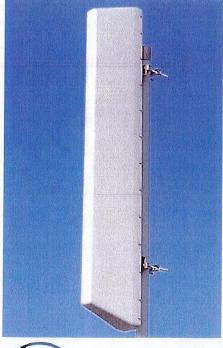




Featuring upper side lobe suppression.

Radiation patterns for all antennas are measured with the antenna mounted on a fiberglass pole.

Mounting on a metal pole will typically improve the Front-to-Back ratio.





Amphenol Antel's Exclusive 3T (True Transmission Line Technology) Antenna Design:

- True log-periodic design allows for superior front-to-side characteristics to minimize sector overlap.
- Unique feedline design eliminates the need for conventional solder joints in the signal
- A non-collinear system with access to every radiating element for broad bandwidth and superior performance.
- Air as insulation for virtually no internal signal loss.

This Amphenol Antel antenna is under a fiveyear limited warranty for repair or replacement.

Antenna available with center-fed connector only.

Typical values.

2) Power rating limited by connector only.

NE indicates an elongated N connector.
 E-DIN indicates an elongated DIN connector.

4) The antenna weight listed above does not include the bracket weight.

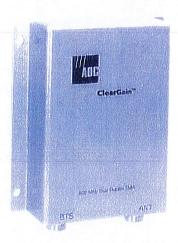
Improvements to mechanical and/or electrical performance of the antenna may be made without notice

CF Denotes a Center-Fed Connector.

806-960 MHz



ClearGain® Tower-Mounted Amplifiers Americas



As mobile usage continues to increase, service providers are faced with the challenge of optimizing and expanding their wireless networks to provide new and existing services. ADC's ClearGain® Tower-Mounted Amplifiers (TMAs) minimize the cost of network expansion and improve quality of service, allowing service providers to increase profitability from new and existing services.

The ClearGain TMAs improve signal quality by boosting the uplink signal of a mobile system to increase receiver performance and improve overall coverage.

Features:

- Provides amplification of the Band
- Highly advanced LNA amplifies RX signal for improved receiver performance and increase in coverage
- Dual duplex feature reduces the number of feeder cable runs by providing simultaneous operation of TX and RX with low TX loss
- Full Band feature provides amplification of the entire band
- Advanced filtering maintains the lowest possible noise figure for improved quality of service
- Slim, stackable design conserves tower space and reduces tower-related costs
- Seamless aluminum sleeve construction protects components from the elements
- Modular system is fully compatible with all base stations
- Power and alarming for up to six masthead units is provided from a single unit at the base station



www.adc.com • +1-952-938-8080 • 1-800-366-3891



ClearGain® Tower-Mounted Amplifiers

Americas

Introduction

Unacceptable network quality is one of the main reasons for mobile subscriber churn. With industry churn at their current rates, a service provider's entire customer base could be lost in as few as three years. The cost of acquiring new subscribers to replace the existing customer base can be enormous. Improvements in quality of service can directly impact a service provider's profitability through the cost savings associated with increased subscriber retention and the additional revenue gained from increased billable minutes of use resulting from improved signal quality.

While subscribers are willing to pay a premium for data services, improved quality of service is necessary to provide new data services. Due to the tradeoff between bit rate and bandwidth inherent to data services, improved signal quality is required to achieve the same level of performance at even higher data rates. ADC's ClearGain Tower-Mounted Amplifiers help provide this improvement in signal quality.

TMAs improve signal quality by boosting the uplink (RX) signal of a mobile system immediately after the antenna. This compensates for the loss in signal strength that occurs when the signal is passed through the coaxial feeder cable to the base transceiver station (BTS) at the base of the tower. ClearGain TMAs perform this amplification with the lowest possible noise contribution, resulting in a substantial increase in receiver performance and an improvement in overall coverage. These improvements in quality of service allow mobile

subscribers to place more calls, make longer calls, and successfully complete calls in an expanded geographic area, resulting in increased revenue.

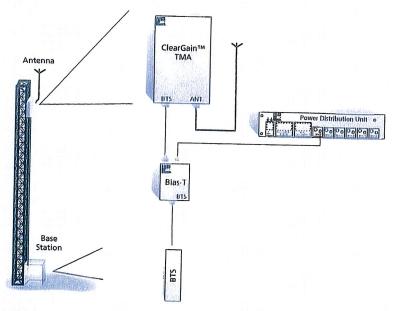
System Overview

The ClearGain TMA system is modular, consisting of a Masthead Unit (MHU), a Power Distribution Unit (PDU) and a Bias-T Unit. This system provides full compatibility with all base stations. The ClearGain MHU offers dual duplex operation and incorporates a highly advanced fixed-gain, lownoise amplifier (LNA) and high-performance filters for added reliability. The MHU amplifies each band to maximize signal quality and optimize coverage.

The ClearGain MHU features a slim, lightweight design. This allows two ClearGain TMAs to be mounted with one set of brackets thereby, conserving valuable and costly tower space and reducing clutter on the tower. The TMA is protected with a strong, aluminum sleeve construction designed to ensure superior weather protection and resistance to corrosion, resulting in increased reliability.

In the ClearGain TMA system, DC power is supplied to the MHU from a ClearGain PDU. The PDU also provides alarming and monitoring of the feeder cable and up to six MHUs from a single unit. The flexible design of the ClearGain PDU allows it to be rack- or wall-mounted on the side of a BTS cabinet.

An external Bias-T Unit is used in conjunction with the ClearGain PDU. The Bias-T inserts DC power onto the coaxial cable and extracts alarm and monitoring signals from the coaxial cable.



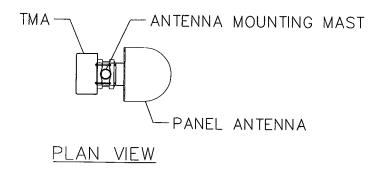


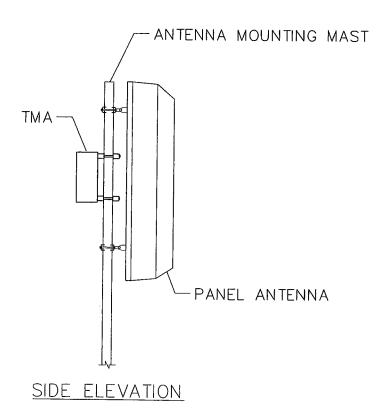
ClearGain® Tower-Mounted Amplifiers

Americas

Dual Band 800/1900 MHz Full Band Typical Specifications

ELECTRICAL		
Nominal Impedance of RF Inputs and Outputs:	50 Ohm	
Frequency Range	30 011111	
TX: 800:	869-894 MHz	
1900:	1930-1990 MHz	
RX: 800:	824-849 MHz	
1900:	1850-1910 MHz	
Filter Bandwidth:	25/60 MHz	
Passband (RX)	23/00 IVIH2	
Gain:	12 dB	
Noise Figure:	12 UB	
800:	1.5 dB	
1900:	1.6 dB	
Dynamic Range	1.0 UB	
Input at 1 dB Gain Compression:	+0 dBm	
IIP3:	+13 dBm	
Max. Input Power:	+10 dBm	
851 MHz Rejection:	<30 dB	
1915 MHz Rejection:	<15 dB	
1916 MHz Rejection:	<30 dB	
Bypass Insertion Loss:	2.0 dB	
Isolation in TX Path:	80 dB	
Insertion Loss of TX Path (TX to Antenna):	4 dB	
Passband Return Loss:	4 05	
TX Band:	>18 dB	
RX Band:	>18 dB	
Internodulation:	-120 dBm	
Max. Input Power (RMS Power):	-120 UBIII	
800:	500 W	
1900:	250 W	
Tx Filter Rejection in RX Path:	40 dB	
POWER	40 db	
Operational Voltage:	7 to 20 Vdc	
Operational Current:	280 ± 10 mA	
Alarm Current Level:	350-520 mA	
PHYSICAL	330 320 IIIA	
Dimensions (HxWxD):	357 mm x 287 mm x 149 mm	
Weight:	10.5 kg (22.5 lbs.)	
Color:	Silver	
Housing:	Aluminum	
CONNECTORS	, dariintam	
Antenna Connector:	7/16 DIN female	
BTS Connector:	7/16 DIN female	
ENVIRONMENTAL	77 TO DITY Termale	
Operating Temperature:	-40° to +60 °C	
Lightning Protection:	IEC 61000-4-5	
Vibration:	12.5 01000-4-3	
Storage:	ETS3019-1-1	
Transport:	ETS3019-1-2	
Operation:	ETS3019-1-3	
REGULATORY	L133013-1-3	
EMC:		
APPROVALS	ETS300 342-2	
FCC:		
UL:	Part 15, Class A	
OL: QUALITY	1950	
MTBF:		
IVII DI .	900,000 hours	





TYPICAL TOWER MOUNTED AMPLIFIER (TMA) - MOUNTING DETAIL

NOT TO SCALE

	General	Power	Density					
Site Name: Clinton								
Tower Height: Verizon @ 208Ft	208Ft.							
				CALC.		MAX.		
				POWER		PERMISS.	FRACTION	
CARRIER	# OF CHAN.	WATTS ERP	HEIGHT	DENS	FREQ.	EXP.	MPE	Total
* Cingular/UMTS	1	009	190	0.0050	880	0.5867	0.85%	
*Cingular/GSM	2	296	190	0.0059	880	0.5867	1.01%	
*Cingular/GSM	2	427	190	0.0085	1930	1.0000	0.85%	
*Sprint/Nextel							5.25%	
*Town	9	100	125	0.0138	46	0.2000	%06.9	
*MediaFlo			228			-	6.63%	
Verizon**	6	889	208	0.0440	880	0.5866	7.50%	
Verizon		172	208	0.0043	1900	1.0000	0.43%	29.41%
* Source: Siting Council								
** Including Tower Mounted Amplifiers (TMAs)	Amplifiers (TMAs	(6)			77.75			

,

,



April 25 2008

LaShay Holmes Crown Castle USA 9105 Monroe Road, Suito 150 Charlotte, NC 28270 (704) 814-8311 Vertical Structures, Inc. 309 Spangler Drive, Suite E. Richmond, KY 40475 (859) 624-8360 jkays@verticalstructures.com

Subject

Structural Opinion Letter

Carrier Designation

Verizon Wireless Change-Out Carrier Site Number: TBD Carrier Site Name: Clinton, CT

Crown Castle Designation

Crown Castle BU Number: 806363 Crown Castle Site Name: HRT 105 Crown Castle JDE Job Number: 101955

Engineering Firm Designation

Vertical Structures Project Number: 2008-004-066

Site Data

48 Cow Hill Road, Clinton, CT, Middlesex County Latitude 41°-17'-20.0", Longitude -72°-32'-18.0" 212' Rohn SSMW Self-Supporting Tower

Dear Ms. Holmes.

Vertical Structures is pleased to submit this structural opinion letter assessing the suitability of the aforementioned tower with the proposed, existing and reserved loading as specified in Tables 1 & 2. This letter has been prepared in accordance with the Crown Castle Structural 'Statement of Work' and the terms of Crown Castle Purchase Order Number 284487, and Application Number 59402, Revision 2. Opinions stated within this letter are consistent with TIA/EIA-222-F standard guidelines and local code requirements based upon an 85 MPH basic "fastest mile" wind speed, equivalent to a 105 MPH basic "3-second gust" wind speed per IBC Table 1609.3.1.

Table 1 - Proposed Antenna and Cable Information

	Mount Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount Manufacturer	Mount Model	Number Of Feed Limes	Feed Line Size (Inches)
	208	6	Antel	LPA-80080/6CF	id.piii.giii.d.th.ct. कर ? के शिक्षित के शिक्ष कार्यात हैं के उपनित्य के प्राप्त कर कर कर कर कर का कार्यात है	MERSHALI DEPARTMENT OF FRENCH STATES OF SERVICE STATES AND		
-	2.00	2	ADC	Dual Band 800/1900 TMA				

Table 2 - Existing and Reserved Antenna and Cable Information

Mount Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount Manufacturer	Mount Model	Number Of Feed Lines	Feed Line Size (inches)
	3 + 6'	Swedcom	ALP 9212-N		(2) 45 0 - 1-1	15	1 5/8
208	6	Decibel	DB948F85T2E-M	Rohn	(3) 15' Sector Frames	10	1. 070
	12^*		52" x 9" Panel		1 1011100	12**	1 5/8
197	6 + 3***	Decibel	DB980H90E-M	Rohn	(3) 15' Sector Frames	6 + 3***	1 5/8
	6 + 3***	Powerwave Technologies	7770.00]	(2) 44 6		
190	6	Powerwave Technologies	LGP13519 Diplexer		(3) 14' Angle Sector Frames	12	1 5/8
	6	ADC	800/1900 TMA	1			
175	12	Decibel	DB844H90E-XY	Rohn	(3) 15' Sector Frames	12	1 1/4
165	2	RFS/Celwave	1142-2C	Rohn	(2) 6' Sidearms	2	7/8
145	2	RFS/Celwave	1142-2C	Rohn	(2) 6' Sidearms	2	7/8
137	3	EMS Wireless	RR90-17-02DP		(2) 2' Cida arma	6	1 1/4
137	6		TMA		(3) 2' Sidearms	6	1 1/4
133	1	Andrew	Pl.6-59W		(1) Pipe Mount	1	EW52
125	1	RFS/Celwave	1142-2C	Rohn	(1) 6' Sidearm	1	7/8

^{*}Indicates antennas to be removed. Existing mounts and feedlines to be reused.

Based on a comparison of the loading in Tables 1 & 2 to the loading considered in our February 27, 2008 analysis, we have determined the tower superstructure and foundation are sufficient for the proposed Verizon Wireless change-out. All cables are assumed to be routed in accordance with the drawing in Appendix B of the referenced analysis report.

Vertical Structures appreciates the opportunity of providing our continuing professional services to you and Crown Castle USA. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

Jordan Kays Project Engineer OF CONNEC CONNEC

^{**}Indicates MLA loading. Existing and proposed loading controls and is used in this analysis.

^{***}Indicates reserved equipment.