TO TAANSTOLITY

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 www.ct.gov/csc

June 28, 2006

Elizabeth H. Lankenau, AICP Planner Kise Straw & Kolodner Inc. 123 Broad Street, Suite 1270 Philadelphia, PA 19109

RE: EM-CING-064-060602 - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 439-455 Homestead Avenue, Hartford, Connecticut.

Dear Ms. Lankenau:

At a public meeting held on June 27, 2006, 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 dated May 22, 2006, including the placement of all necessary equipment and shelters within the tower compound. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility site that would not increase tower height, extend the boundaries of the tower site, increase noise levels at the tower site boundary by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundary to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. This facility has also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on this tower.

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

Thank you for your attention and cooperation

dry truly yours.

Pamela B. Katz,

Chairman

PBK/laf

c: The Honorable Eddie A. Perez, Mayor, City of Hartford Robert A. LaPorte, Chairman of City Plan Com., City of Hartford Jeffrey W. Barbadora, Crown Atlantic Company Christine Farrell, T-Mobile Christopher B. Fisher, Esq., Cuddy & Feder LLP Thomas J. Regan, Esq., Brown Rudnick Berlack Israels LLP Kenneth C. Baldwin, Esq., Robinson & Cole LLP

CSC



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 www.ct.gov/csc

June 7, 2006

The Honorable Eddie A. Perez Mayor City of Hartford Municipal Building 550 Main Street Hartford, CT 06103

RE: **EM-CING-064-060602** - New Cingular Wireless PCS, LLC notice of intent to modify an existing telecommunications facility located at 439-455 Homestead Avenue, Hartford, Connecticut.

Dear Mayor Perez:

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 Wednesday, June 21, 2006 at 1:30 p.m. in Hearing Room One, Ten Franklin Square, New Britain, Connecticut.

If you have any questions or comments regarding this proposal, please call me or inform the council by June 20, 2006.

Thank you for your cooperation and consideration.

Executive Director

SDP/ap

Enclosure: Notice of Intent

c: Robert A. LaPorte, Chairman of City Plan Com., City of Hartford Lee C. Erdmann, Chief Operating Officer, City of Hartford



Architects Planners

Historians

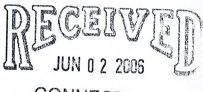
s Archaeologists

James Bennett Straw, AIA
Harvey D. Kolodner, MBA

EM-CING-064-060602

22 May 2006

Ms. Pam Katz, Chairman, and Members of the Connecticut Siting Council 10 Franklin Square New Britain, CT 06051



CONNECTICUT SITING COUNCIL

RE: Notice of Exempt Modification – Existing AT&T Wireless
Telecommunications Tower Facility at 439-455 Homestead Avenue,
Hartford, Connecticut

Dear Chairman Katz and Members of the Council:

Kise Straw & Kolodner Inc., in association with Network Building & Consulting, LLC, submits this notice of intent to modify an existing telecommunications facility. New Cingular Wireless PCS, LLC ("Cingular") proposes to remove and replace telecommunications antennas and associated equipment (formerly owned by AT&T) located on an existing tower at the above-referenced location. Cingular operates under licenses issued by the Federal Communications Commission (FCC) to provide cellular and PCS mobile telephone service in Hartford County, which includes the area to be served by the proposed installation.

Please accept this letter as notification to the Council, pursuant to Regulations of Connecticut State Agencies (RCSA) Section 16-50j-73. This submission will demonstrate that the proposed changes fall within the limits of an exempt modification as described under the RCSA Section 16-50j-72(b)(2).

In accordance with RCSA Section 16-50j-73, the Mayor of the City of Hartford will receive notification of this proposal.

This proposal for modification includes the following attachments:

- Project Location Map,
- Site Layout,
- Tower Elevation,
- Equipment Specifications, and
- Structural Evaluation.

James Bennett Straw, AIA
Harvey D. Kolodner, MBA

James Nelson Kise, AIA/AICP/PP Scott W. Killinger, AIA

John R. Gibbons, AIA/AICP
Philip E. Scott, EA

Suzanna Barucco

Katherine Bottom, LEED

LaVern Browne

Johnette Davies

Petar D. Glumac, Ph.D

Douglas S. Heckrotte, RA/LEED

Jody Holton, AICP

Marian Maxfield Hull, AICP/PP

Kise Straw & Kolodner Inc. 123 South Broad St. Suite 1270 Philadelphia, PA 19109 (215) 790-1050 FAX (215) 190-0218 waw.kskl.cein

Existing Facility

The NW Hartford facility is located at 439-455 Homestead Avenue, which lies approximately 750' south of Route 44, just west of Baltimore Street. Monopole coordinates are N 41°47'01" and W 72° 42' 18". Please refer to the attached *Project Location Map*.

The facility is controlled and operated by Cingular whose corporate office is located at 500 Enterprise Drive, Rocky Hill, CT 06067. The site hosts a 140' monopole tower on an existing concrete pad. The perimeter of the compound at its longest points measures approximately 61' x 33'. Please refer to the attached *Site Layout*.

Proposed Modifications

As shown on the attached site layout and tower elevation, Cingular proposes to add one (1) new equipment cabinet (Ericsson RBS 3106) on an existing pad within the existing confines of the compound. In addition, Cingular will remove the existing antennas and replace them with a total of six (6) Powerwave #7770 antennas, located at an existing centerline height of approximately 117' above ground level. Cingular will keep the twelve (12) 1 5/8" diameter coaxial cables. Cingular will also remove the existing tower mounted amplifiers and affix twelve (12) new tower mounted amplifiers (LGP 214nn) to the structure at the same height as the antennas. Please refer to the attached *Site Layout*, *Tower Elevation*, and *Equipment Specifications*.

In summary, the facility at 439-455 Homestead Avenue will receive a new equipment cabinet and the final antenna configuration will include:

- 6 antennas,
- 12 coaxial cables, and
- 12 tower mounted amplifiers.

The Structural Evaluation, which is attached to this Notice, demonstrates that the monopole will be structurally capable of supporting the proposed Cingular telecommunications equipment once the proposed modifications are complete.

Statutory Considerations

The planned changes to the NW Hartford facility fall within those activities explicitly provided for in RCSA Section 16-50j-72(b)(2). As such, the proposed work does not result in any substantial adverse environmental effect.

- 1. The proposed work does not affect the height of the structure.
- 2. The proposed changes do not affect the existing property boundaries. All proposed work will occur on the property controlled by Cingular (formerly AT&T Wireless).
- 3. The proposed work will not increase noise levels at the monopole site boundary by six (6) decibels or more.

4. Addition of the UMTS broadcasts will not increase the exposure to radio frequency electromagnetic energy, measured at the base of the tower, to or above the standard adopted by the state of Connecticut and the FCC. The table below summarizes the cumulative results for a point of interest at the tower's base of the "worst-case" exposure calculations resulting from all carriers co-located on this tower. The calculations are in accordance with FCC Office of Engineering and Technology Bulletin No. 65 (1997), and for simplicity, an assumption is made that the antennas are all pointed down, thus focusing their energy at the tower's base.

Site#	5131							
Carrier	Antenna Height (ft)	Freq. (MHz) For Limit	# of Channels	W ERP/Channel (ref 1/2-w dipole)	W EIRP/Sector	Power Density (µW/cm²)	FCC Limit (μW/cm²)	I of Limit
Cingular UMTS	117	1935.0	1	500.0	820.0	13.1	1000	1.31%
Cingular 800	117	880.0	20	250.0	8200.0			22.39%
Cingular 1900	117	1900.0	3	427.0	2100.8	33.7	1000	3.37%
Sprint	104	1900.0	12	500.0	9840.0	199.5	1000	19.95%
T-Mobile	124	1900.0	12	250.0	4920.0	70.2	1000	7.02%
Verizon 800	140	880.0	9	200.0	2952.0	33.0	587	5.63%
Verizon 1900	140	1900.0	3	285.0	1402.2	15.7	1000	1.57%
TOTAL							-	61.24%

As the table demonstrates, the cumulative worst-case exposure would be approximately 61.24% of the ANSI/IEEE standard, as calculated for mixed frequency sites. Total power density levels resulting from Cingular's use of the monopole facility would be within applicable standards.

For the foregoing reasons, Cingular respectfully submits that proposed changes at the NW Hartford site constitute an exempt modification under RCSA Section 16-50j-72(b)(2).

Please do not hesitate to call me at 215.790.1050 ext. 138 with questions concerning this notice. Thank you for your consideration of this matter.

Sincerely,

Elizabeth H. Lankenau, AICP

Planner

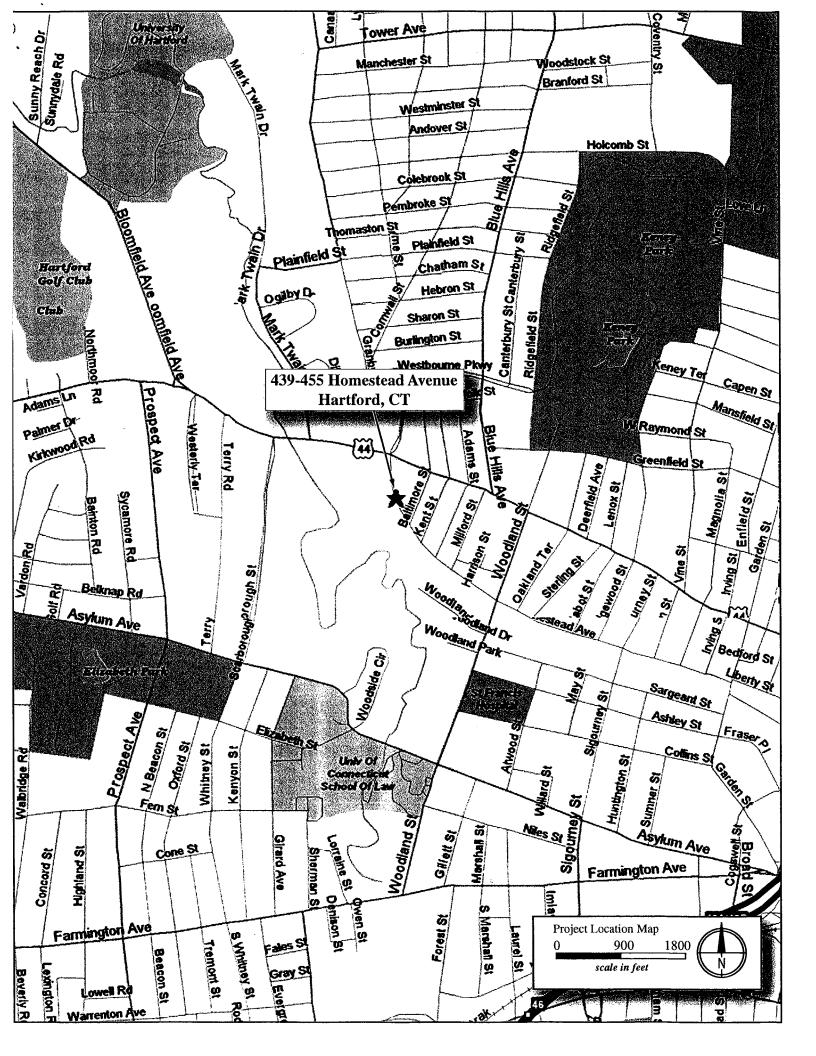
Attachments

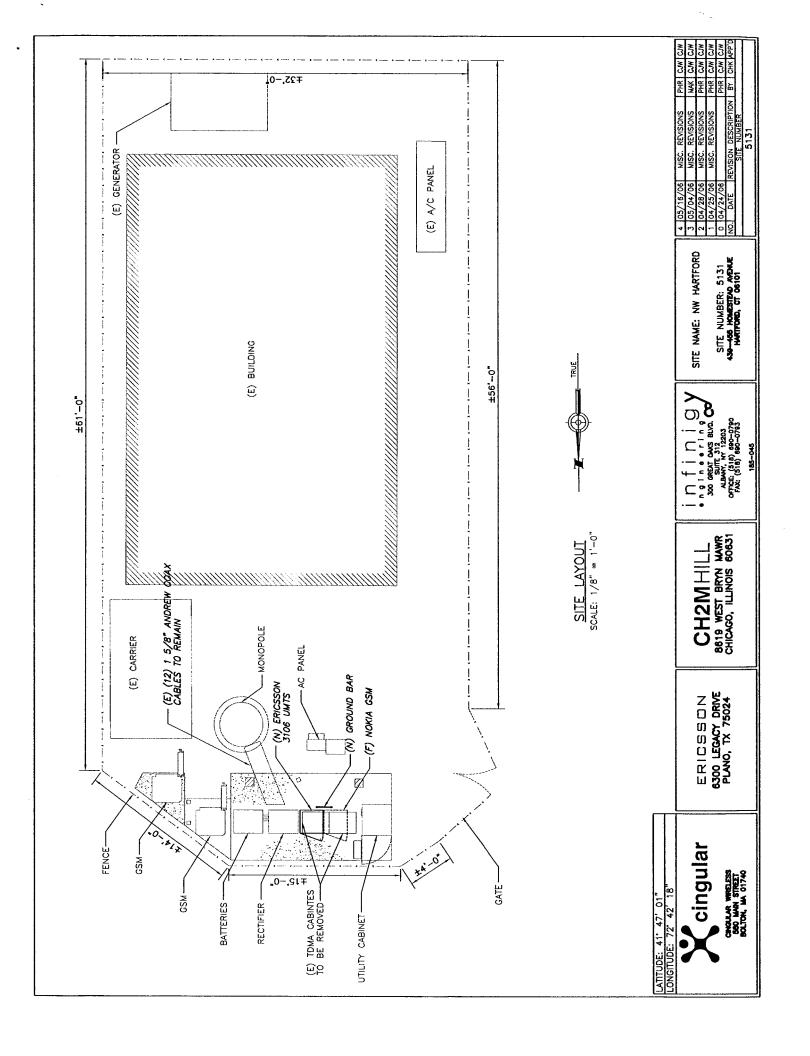
cc: Honorable Eddie A. Perez, Mayor, City of Hartford

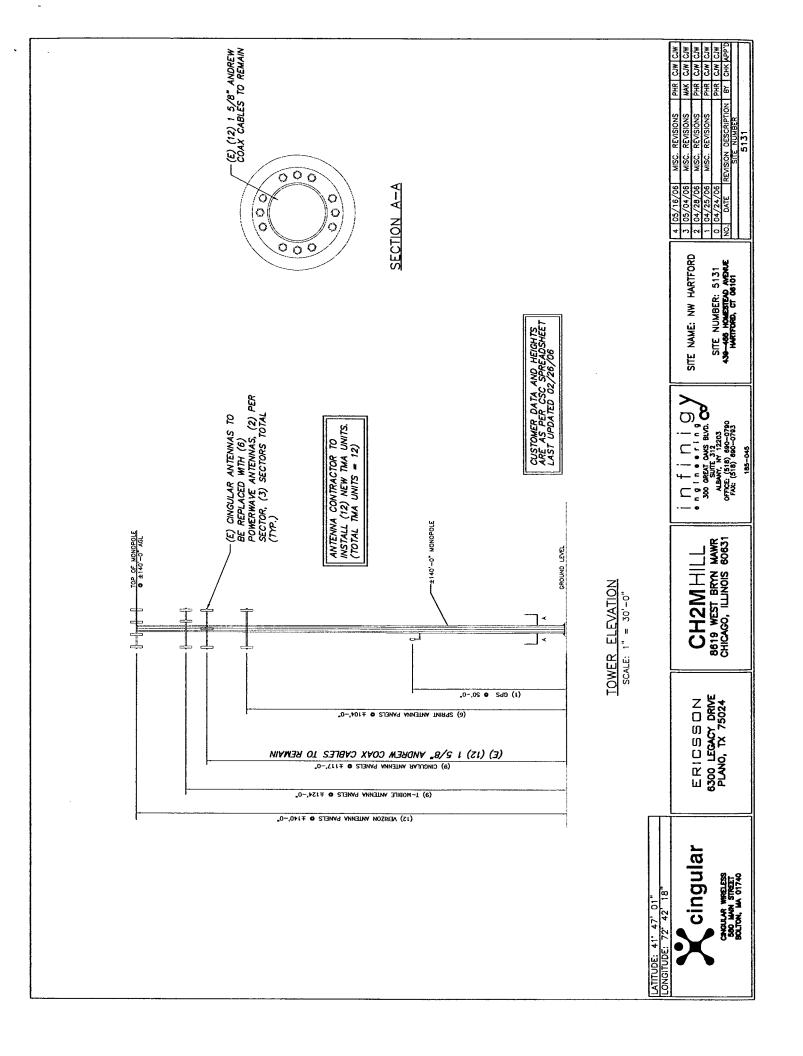
Attachments

439-455 Homestead Avenue, Hartford, CT

- Project Location Map
- Site Layout
- Tower Elevation
- New Equipment Specifications
- Structural Evaluation



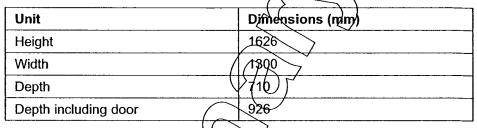


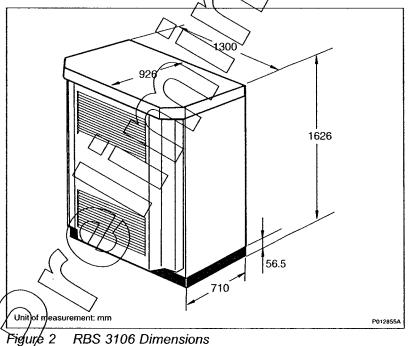


3 Dimensions

This section describes the physical characteristics of the RBS: dimensions, weight, and color.

Table 1 The RBS Dimensions





The RB\$ weight is shown in the table below.

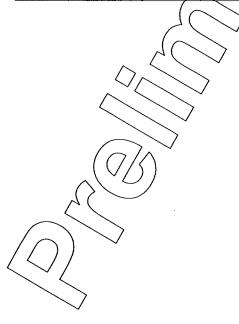
Table 2 The RBS Weight

Unit	Weight (kg)
RBS fully equipped excluding batteries	560
RBS fully equipped including batteries	850
RBS fully equipped including batteries and future expansion of hardware (not yet available)	875
Installation frame	12

The RBS color is shown in the table below:

Table 3 The RBS Color

Color	Color Standard
Grey	RAL 7036
Green	NCS 8010-6-10 Y



Dual Broadband Antenna

90° 1.4 m MET Antenna

806-960/1710-2170 MHZ

Part Number: 7770.00

Horizontal Beamwidth: 90° Gain: 13.5/16 dBi

Electrical Downtilt: Adjustable Connector Type: 7/16 female

The Powerwave dual band dual polarized broadband antenna has individual adjustable electrical downtilt per band (upgradeable to Remote Electrical Tilt (RET). Four connector ports allow separate tilts on each frequency band and ensure the use of diversity concepts. The phase shifter technology, based on a patented sliding dielectric, minimizes intermodulation distortion and maximizes efficiency. The slant +/- 45° dual polarization system provides the independent fading signals needed for achieving top-quality coverage via diversity concepts. The Powerwave Broadband antenna design is based on a patented stacked aperture-coupled patch technology, which provides high isolation performance and a wide VSWR bandwidth. The antennas have superior radiation patterns due to a unique reflector design which provides a very small variation of the 3dB horizontal beam width over the frequency band as well as a high front-to-back ratio.



Key Benefits

- · Excellent broad- and multi-band capabilities
- · Polarization purity makes good diversity gain
- Excellent pattern performance and high gain over frequency
- · High passive intermodulation performance
- · Light, slim and robust design

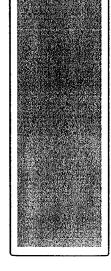
Preliminary



ANTENNA Systems

BASE STATION SYSTEMS

COVERAGE SYSTEMS





۲
æ
08208
0031
മ

Frequency band (MHz)	806-960		1710-2170			
Gain, ± 0.5dB (dBi)	13.5		16.0			
Polarization	E	Dual linear ±45°				
Nominal Impedance (Ohm)		50				
VSWR	1,5:1		**************************************			
vswr .			1.5:1			
Isolation between inputs (dB)	30				A Age	
Isolation between inputs (dB)			30			
Inter band isolation (dB)		40			70.3455	
Horizontal -3 dB beamwidth	85 ± 5°		85±5°			
Tracking, Horizontal plane, ±60° (dB)	<2.0					
Tracking, Horizontal plane, ±60° (dB)			<2.0		- A	
Electrical downtilt range (adjustable)	0° to 10°		0° to 8°			
Vertical=3 dB beamwidth	14.3 ± 2.0°		6.6 ± 1°			Service And Service
Sidelobe suppression, Vertical 1 st upper (dB)	>17,16,15		> 17, 16,15			
	x=0, 5, 10° MET		x=0, 4, 8° MET			STORY OF STATE
Vertical beam squint	<0.8°		<0,5°			
First null-fill (dB)	<-25		<-25	경기 (8) 나는	N 199	
Front-to-back ratio (dB)	>25		>27			
Front-to-back ratio, total power (dB)	>20		>23			
M3, 2Tx@43dBm (dBc)	<-153					
M3, 2Tx@43dBm (dBc)			<-153			
M7, 2Tx@43dBm (dBc)			<-160			
Power Handling, Average per input (W)	400		250			
Power Handling, Average total (W)	800		500	An april.		

Mechanical Specifications

Connector Type 4 x 7/16 DIN female

Connector Position Bottom

Dimensions, HxWxD 1408mm x 280mm x 125mm (55"x11"x5")

Weight Including Brackets

15.8 kg (35 lbs)

Wind Load, Frontal, 42m/s Cd=1

Survival Wind Speed (m/s)

Lightning Protection

Radome Material

15.8 kg (35 lbs)

435N (98 lbf)

70 (156mph)

DC grounded

Radome Color Light Gray

Mounting Pre-mounted Standard Brackets

Packing Size 1550mm x 355mm x 255mm (61"x14"x10")

Corporate Headquarters
Powerwave Technologies, Inc.

1801 East St. Andrew Place Santa Ana, CA 92705 USA

Tel: 714-466-1000 Fax: 714-466-5800 www.powerwave.com Main European Office Antennvägen 6 SE-187 80 Täby Sweden Tel: +46 8 540 822 00

Fax: +46 8 540 823 40

Main Asia Pacific Office 23 F Tai Yau Building 181 Johnston Road Wanchai, Hong Kong Tel: +852 2512 6123 Fax: +852 2575 4860



©Copyright March 2005, Powerwave Technologies, Inc. All Rights reserved. Powerwave, Powerwave Technologies, The Power in Wireless and the Powerwave logo are registered trademarks of Powerwave Technologies, Inc.

Tower Mounted Amplifier

Dual Band 1900 MHz with 850 MHz Bypass

NIS OUS So

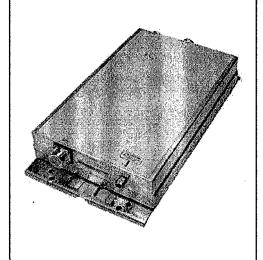
Part Number: LGP 214nn Up-link: 1850-1910 MHz Down-link: 1930-1990 MHz Bypass: 824-894 MHz

Gain: 12 dB

Noise Figure: < 1.7 dB

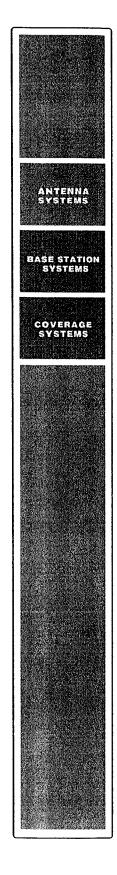
The Powerwave® TMA-DD 1900/850 is a dual band Tower Mounted Amplifier (TMA) to be installed near the antenna. Deployed in an AMPS, GSM, GPRS, EDGE and CDMA network it will increase capacity and coverage as well as extend the battery life time for the handsets. The TMA System will provide enhanced coverage and improved up-link signal quality. Appropriate for new rollouts by optimizing coverage with a reduced number of BTSs or as an upgrade to existing BTSs for enhancing the existing coverage.

Extended band TMA facilitates simplified logistics, especially when the frequency bands are scattered. The unit comprises of high Q band-pass filters, dual balanced low noise amplifiers with circuits for active bias, supervision, alarms and lightning protection circuit. The Powerwave patented design with all active components integrated within the filter body provides an extremely reliable, compact and lightweight TMA solution. The vented enclosure design is employed to prevent the effect of condensation, thereby guaranteeing long, reliable, maintenance-free service in all environmental conditions. These TMAs offer an easy to install, maintenance free, cost effective solution for coverage enhancement and increased quality in mobile communication networks.



Key Benefits:

- · 850 MHz Bypass
- · Improved Network Quality
- Increased Coverage
- State of the Art Performance
- Excellent Power Handling
- Low Tx Loss
- · Exceptional Reliability



THE POWER IN WIRELESS®



Tower Mounted Amplifier



Technical Specifications

Product Number

850 MHz Bypass (MHz)

Return loss* (dB) Insertion loss* (dB)

1900 MHz

Down-link

Intermodulation

Up-link Frequency range, full band (60 MHz)

LGP214nn

Nominal gain (dB) Return loss* (dB) Noise figure* (dB)

Output 3rd order Intercept Point* (dBm)

Frequency range, full band (60 MHz) Insertion loss* (dB)

Return loss* (dB) 2 Tx@x43 dBm (dBc)

Alarm Functionality Power Consumption

Two levels, individually supervised LNAs

@12 VDC

824-894

> 20 < 0.3

1850-1910

> 20

< 1.7 > +23

1930-1990

< 0.6

> 20 <-158

1.2 W

All specifications subject to change without notice. Please contact your Powerwave representative for complete performance data.

Mechanical Specifications

Size,W x H x D (without mounting plate)

Weight Color

Housing RF-connectors

Mounting kit Temperature range

MTBF Safety

Ingress protection, IP 65 Environmental

EMC

235 x 366 x 66 mm (9.2 x 14.4 x 2.6 in)

6.4 kg (14.1 lbs)

Off white (NCS 1502-R)

Aluminum

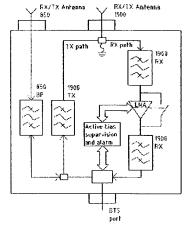
DIN 7/16 female.

Mounting kit for pole and wall is included

-40 °C to +65 °C (-40 °F to +149 °F)

>1 million hours UL 60 950

EN 60 529 ETS 300 019 FCC Part 15



Corporate Headquarters

g

Rev. A

D031-08422

Powerwave Technologies, Inc. 1801 East St. Andrew Place Santa Ana, CA 92705 USA

Tel: 714-466-1000 Fax: 714-466-5800 www.powerwave.com Main European Office Antennvägen 6 SE-187 80 Täby Tel: +46 8 540 822 00

Fax: +46 8 540 823 40

Main Asia-Pacific Office 23 F Tai Yau Building 181 Johnston Road Wanchai, Hong Kong Tel: +852 2512 6123 Fax: +852 2575 4860





May 10, 2006

Veronica Harris Crown Castle International 1200 McArthur Blvd. Mahwah, NJ 14445

(201) 236-9094

PSG Engineering, Ltd. 8206 Forest Gate Drive Sugar Land, TX 77479

Phone: (281) 343-7099 Fax: (281) 343-7127

Subject:

Structural Analysis Report

Carrier Designation

Cingular Wireless Co-Locate Carrier Site Number: "5131" Carrier Site Name: "NW Hartford"

Crown Castle Designation

Crown Castle BU Number: 806369

Crown Castle Site Name: HRT 094 943225 Crown Castle JDE Job Number: 806369

Engineering Firm Designation

PSG Engineering Project Number: 0601H138-A040140

Site Data

439-455 Homestead Ave, Hartford, CT, Hartford County Latitude 41° 47' 1.61", Longitude -72° 42' 13.66".

140 Foot - Monopole Tower

Dear Ms. Harris.

PSG Engineering, Ltd. is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the aforementioned tower. This analysis has been performed in accordance with the Crown Castle Structural Statement of Work' and the terms of Crown Castle Purchase Order Number 208770. The purpose of the analysis is to determine the suitability of the tower with the addition of the proposed equipment listed in Table 1 of this report when combined with the existing and reserved equipment on the structure. This analysis has been performed in accordance with the TIA/EIA 222-F standard based upon a wind speed condition of 80 mph.

Based on our analysis we have determined the tower and foundation <u>ARE</u> sufficient for the proposed loading.

All proposed equipment shall be installed in accordance with Crown Castle Drawing Number: 806369_A_119.DWG.

We at *PSG Engineering* appreciate the opportunity of providing our continuing professional services to you and Crown Castle International. If you have any questions or need further assistance on this or any other projects please give us a call.

Respectfully submitted,

Oscar Pedraza, P.E.

President

0601H138-A040140 (806369) (HRT 094 943225) (Chronical dec E is Straight Ministry (1994) (1994

TABLE OF CONTENTS

NTRODUCTION
ANALYSIS CRITERIA
Table 1 – Proposed (P) Antenna and Cable Information
Table 2 – Installed (I) and Reserved (R) Antenna and Cable Information
Table 3 – Original Tower Manufacturer Design Antenna and Cable Information
ANALYSIS PROCEDURE
Table 4 – Documents Provided
Analysis Method
Assumptions
·
ANALYSIS RESULTS
Table 5 – Tower Section Capacity
APPENDIX A
Output from Computer Programs

INTRODUCTION

This tower was designed by Valmont on August 20, 1999 per TIA/EIA-222-F using a basic wind speed of 125 mph.

ANALYSIS CRITERIA

This tower is designed using the TIA/EIA-222-F standard.

The following design criteria apply:

- Basic wind speed of 80 mph.
- Nominal ice thickness of 0.5000 in.
- Ice density of 56 pcf.
- A wind speed of 70 mph is used in combination with ice.
- Deflections calculated using a wind speed of 50 mph.
- · Feedline torque is considered.
- · Pressures are calculated at each section.
- Stress ratio used in tower member design is 1.333

Table 1 – Proposed (P) Antenna and Cable Information

1	Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount Model	Number Of Feed Lines	Feed Line Size (inches)	
	119	6(P) + 3(R)	Powerwave Tech	7770.00		*3(P)	*1 5/8	!
	119	12(P)	Powerwave Tech	LGP21401	_	3(F)	1 3/6	ı

*Note: Proposed coax shall be located internal of monopole.

Table 2 - Installed (I) and Reserved (R) Antenna and Cable Information

Center Line Elevation (feet)	Number (Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Of Feed Lines	Feed Line Size (inches)
140	6(I) 6(I)	Decibel	DB844H80E-XY DB948F85T2E-M	Platform w/ Handrail	12(I) (Internal)	7/8
127	9(1)	EMS Wireless	RR90-17-02DP	Platform w/ Handrail	18(I) (12 - Internal) (6 -External)	1 5/8
*119	*9(1)	*Allgon	*7184.14	Low Profile Platform	9(I) (Internal)	1 5/8
104	6(I) + 3(R)	EMS Wireless	RV65-17-02DPL2	Platform w/ Handrail	6(I) + 3(R) (Internal)	1 5/8

^{*}Note: Existing antennas will be removed and replaced with proposed loads. Existing Mount and coax will remain to support proposed loads.

Table 3 – Original Tower Manufacturer Design Antenna and Cable Information

Center Line Elevation (feet)	Number Of Antenna	Antenna Manufacturer	Antenna Model	Mount	Number Feed Of Line Feed Size Lines (inches)
137	12	Swedcom	ALP 9212-N	Platform w/rail	
124	6	Unknown	APN 199015	Platform w/rail	Not Available
114	9	Allgon	7184.15	Platform w/o rail	

ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Remarks	Reference	Source
Original Tower Design	Valmont		Crown Site Data Manager
Crown Castle Application	Application ID: 31697 Rev. 1	-	Crown Regional Office
CAD Level Drawing(s)	137',124',117',102' Level Drawing(s)	•	Crown CAD Dept.

Analysis Methods

RISATower (Version 4.5.0.00), a commercially available software program, was used to create a three-dimensional model of the tower and calculate member stresses for various dead, live, wind, and ice load cases. All loads were computed in accordance with the ANSI/EIA/TIA 222F or the local building code requirements. Selected output from the analysis is included in Appendix A.

Assumptions

- Tower and structures were built in accordance with the manufacturer's specifications.
- The tower and structures have been maintained in accordance with manufacturer's specifications.
- 3. The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the Level drawing(s) listed in Table 4.
- 4. When applicable, transmission cables are considered to be structural components for calculating wind loads, as allowed by TIA/EIA-222F.

If any of these assumptions are not valid or have been made in error, this analysis may be affected, and PSG Engineering should be allowed to review any new information to determine its effect on the structural integrity of the tower.

ANALYSIS RESULTS

Table 5 - Tower Section Capacity

Section Number	Elevation (feet)	Percent Capacity Used	Pass / Fail
1	140 - 86.8	39.2	Pass
2	86.8 - 38	52.9	Pass
3	38 - 0	52.4	Pass
Base Plate		45.7	Pass
Anchor Bolts	33.8	Pass	
Base Foundation (Compared	≤56.8	Pass	