ROBINSON & COLE

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

Also admitted in Massachusetts

Melanie A. Bachman **Acting Executive Director**

10 Franklin Square New Britain, CT 06051

Connecticut Siting Council

Re: EM-VER-119-130618 - 1218 Cromwell Avenue, Rocky Hill, Connecticut EM-VER-117-131121 - 100 Old Redding Road, Redding, Connecticut EM-VER-146-131219 – 197 South Road, Vernon, Connecticut EM-VER-150-131029 – 6 Mountain Road, Washington, Connecticut EM-VER-156-131108 – 668 Jones Hill Road, West Haven, Connecticut

∠EM-VER-124-131122 – 6 Progress Avenue, Seymour, Connecticut

May 5, 2014

Completion of Construction Activity

Dear Ms. Bachman:

The purpose of this letter is to notify the Siting Council that construction activity associated with the above-referenced Cellco Partnership d/b/a Verizon Wireless telecommunications facility modifications has been completed.

If you have any questions or need any additional information regarding this facility please do not hesitate to contact me.

Sincerely,

Kenneth C. Baldwin

Law Offices

Boston

HARTFORD

NEW YORK

PROVIDENCE

STAMFORD

ALBANY

LOS ANGELES

Sandy M. Carter

NEW LONDON

SARASOTA

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Copy to:

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
www.ct.gov/csc

December 10, 2013

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

RE:

EM-VER-124-131122 — Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 6 Progress Avenue, Seymour, 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 with the following conditions:

- Any deviation from the proposed modification as specified in this notice and supporting materials with the Council shall render this acknowledgement invalid;
- Any material changes to this modification as proposed shall require the filing of a new notice with the Council;
- Within 45 days after completion of construction, the Council shall be notified in writing that construction has been completed;
- The validity of this action shall expire one year from the date of this letter; and
- The applicant may file a request for an extension of time beyond the one year deadline provided that such request is submitted to the Council not less than 60 days prior to the expiration.

The proposed modifications including the placement of all necessary equipment and shelters within the tower compound are to be implemented as specified here and in your notice dated November 21, 2013. 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. Thank you for your attention and cooperation.

Very truly yours,

Melanie A. Bachman Acting Executive Director

MAB/CDM/jb

c: The Honorable W. Kurt Miller, First Selectman, Town of Seymour Bill Paecht, Zoning Enforcement Officer, Town of Seymour Edmac LLC



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 www.ct.gov/csc

November 25, 2013

The Honorable W. Kurt Miller First Selectman Town of Seymour Town Hall One First Street Seymour, CT 06483

RE:

EM-VER-124-131122 - Cellco Partnership d/b/a Verizon Wireless notice of intent to modify an existing telecommunications facility located at 6 Progress Avenue, Seymour, Connecticut.

Dear First Selectman Miller:

The Connecticut Siting Council (Council) received a request to modify an existing telecommunications facility, pursuant to Regulations of Connecticut State Agencies Section 16-50j-72, a copy of which has already been provided to you.

If you have any questions or comments regarding the proposal, please call me or inform the Council by December 10, 2013.

Thank you for your cooperation and consideration.

Very truly yours,

Melanie Bachman

Acting Executive Director

MB/jb

e: Bill Paecht, Zoning Enforcement Officer, Town of Seymour



ROBINSON & COLE LL

EM-VER-124-131122

CENNETH C. BALDWIN

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

Also admitted in Massachusetts

November 21, 2013

Melanie A. Bachman Acting Executive Director Connecticut Siting Council 10 Franklin Square New Britain, CT 06051



Re: Notice of Exempt Modification – Facility Modification 6 Progress Avenue, Seymour, Connecticut

Dear Ms. Bachman:

Cellco Partnership d/b/a Verizon Wireless ("Cellco") currently maintains twelve (12) antennas at the 140-foot level of the existing 280-foot tower at 6 Progress Avenue in Seymour. The tower and underlying property are owned by Edmac LLC. The Council approved Cellco's use of this tower in 2010. Cellco now intends to replace one (1) of its existing antennas with one (1) model BXA-70063-6BF antenna at the same height on the tower. Included in <u>Attachment 1</u> is the specification sheet for Cellco's proposed replacement antenna.

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 W. Kurt Miller, First Selectman of the Town of Seymour.

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 an increase in the height of the existing tower. Cellco's replacement antenna will be located at the 140-foot level on the 280-foot tower.
- 2. The proposed modifications will not involve any change to ground-mounted equipment and, therefore, will not require the extension of the site boundary.

&

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ROBINSON & COLELLP

Melanie A. Bachman November 21, 2013 Page 2

- 3. The proposed modifications will not increase noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4. The operation of the replacement antennas will not increase radio frequency (RF) emissions at the facility to a level at or above the Federal Communications Commission (FCC) safety standard. A cumulative RF emissions calculation for the modified facility is included in Attachment 2.
- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The tower and its foundation can support Cellco's proposed modifications. (*See* Tower Reanalysis Report included in <u>Attachment 3</u>).

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:

W. Kurt Miller, Seymour First Selectman Sandy M. Carter



ATTACHMENT 1



BXA-70063-6BF-EDIN-X

X-Pol | FET Panel | 63° | 14.5 dBd

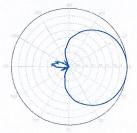
Electrical Characteristics	696-900 MHz				
Frequency bands	696-806 MHz 806-900 MHz				
Polarization	±45°				
Horizontal beamwidth	65°		63°		
Vertical beamwidth	13°		11°		
Gain	14.0 dBd (16.1 di	Зі)	14.5 dBd (16.6 dBi)		
Electrical downtilt (X)	7 -	0, 2, 3, 4, 5, 6, 8, 10			
Impedance		50Ω			
VSWR		≤1.35:1	O EL SET PERSONAL DEL SELLE PERSONAL DEL SERVICIO DE CONTRA CONTR		
Upper sidelobe suppression (0°)	-18.3 dB		-18.2 dB		
Front-to-back ratio (+/-30°)	-33.4 dB		-36.3 dB		
Null fill		5% (-26.02 dB)			
Isolation between ports		< -25 dB			
Input power with EDIN connectors		500 W			
Input power with N connectors		300 W			
Lightning protection		Direct Ground			
Connector(s)	2 Ports / EDIN or N / Female / Bottom				
Mechanical Characteristics					
Dimensions Length x Width x Depth	1742 x 285 x 135	imm (68.6 x 11.2 x 5.3 in		
Depth with z-brackets	175	5 mm	6.9 in		
Weight without mounting brackets	8.7	' kg	19.2 lbs		
Survival wind speed	> 201	km/hr	> 125 mph		
Wind area	Front: 0.50 m ² Side: 0.24	rm² Front: 5.	.3 ft ² Side: 2.5 ft ²		
Wind load @ 161 km/hr (100 mph)	Front: 733 N Side: 386	6 N Front: 16	4 lbf Side: 88 lbf		
Mounting Options	Part Number	Fits Pipe Diameter	Weight		
3-Point Mounting & Downtilt Bracket Kit	36210008	40-115 mm 1.57-4.5 i	n 6.9 kg 15.2 lbs		
Concealment Configurations	For concealment configuration	ons, order BXA-70063-6E	BF-EDIN-X-FP		

Replace "X" with desired electrical downtilt.

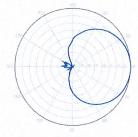
Antenna is also available with N connector(s). Replace "EDIN" with "N" in the model number when ordering.



BXA-70063-6BF-EDIN-X

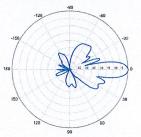


Horizontal | 750 MHz

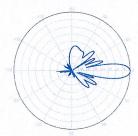


Horizontal | 850 MHz

BXA-70063-6BF-EDIN-0



0° | Vertical | 750 MHz

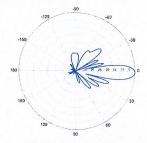


0° | Vertical | 850 MHz

BXA-70063-6BF-EDIN-2



2° | Vertical | 750 MHz



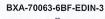
2° | Vertical | 850 MHz

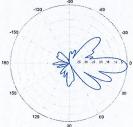
Quoted performance parameters are provided to offer typical or range values only and may vary as a result of normal manufacturing and operational conditions. Extreme operational conditions and/or stress on structural supports is beyond our control. Such conditions may result in damage to this product. Improvements to product may be made without notice.



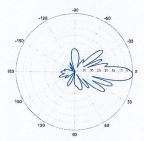
BXA-70063-6BF-EDIN-X

X-Pol | FET Panel | 63° | 14.5 dBd



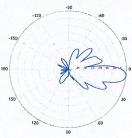


3° | Vertical | 750 MHz

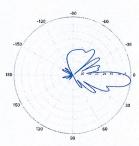


3° | Vertical | 850 MHz

BXA-70063-6BF-EDIN-6

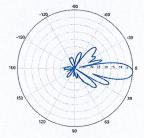


6° | Vertical | 750 MHz

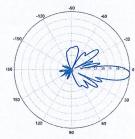


6° | Vertical | 850 MHz

BXA-70063-6BF-EDIN-4

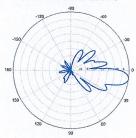


4° | Vertical | 750 MHz

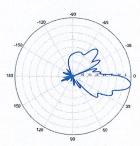


4° | Vertical | 850 MHz

BXA-70063-6BF-EDIN-8

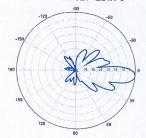


8° | Vertical | 750 MHz

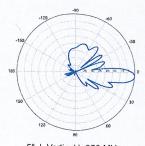


8° | Vertical | 850 MHz

BXA-70063-6BF-EDIN-5

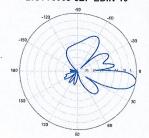


5° | Vertical | 750 MHz

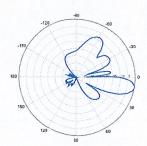


5° | Vertical | 850 MHz

BXA-70063-6BF-EDIN-10



10° | Vertical | 750 MHz



10° | Vertical | 850 MHz

ATTACHMENT 2

Height: Verizon @ 140ff	Max. Max.	Height Verizon @ 140ff		General	Power	Density					•
CARRIER # OF CHAN. WATTS ERP HEIGHT DENS FREQ. RAX. FRACTION CARRIER # OF CHAN. WATTS ERP HEIGHT DENS FREQ. EXp. MPE Sardellia 12 110 280 0.0063 1980 1.0000 0.63% UMTS 2 565 160 0.0159 880 0.5867 2.71% UMTS 2 1077 160 0.0303 1900 0.68% GSM 4 646 160 0.0363 1900 0.5867 0.68% GSM 4 646 160 0.0363 1900 1.0000 3.43% SSM 4 646 160 0.0363 1900 1.0000 3.43% SSM 4 646 160 0.0363 1900 1.0000 3.43% SPCS CDMA 3 727 150 0.0184 734 0.4883 3.77% STReam 8 100	CARRIER # OF CHAN. WATTS ERP HEIGHT DENS FREQ. RAX. FRACTION CARRIER # OF CHAN. WATTS ERP HEIGHT DENS FREQ. EXP. MPE Bardella 12 110 280 0.0063 1580 0.0000 0.63% UMTS 2 565 160 0.0159 880 0.5867 2.71% UMTS 2 1077 160 0.0159 880 0.5867 2.71% UMTS 2 1077 160 0.0303 1900 1.0000 3.13% GSM 4 646 160 0.0363 1900 1.0000 3.63% GSM 4 646 160 0.0363 1900 1.0000 3.49% PPCS CDMA 3 727 150 0.0349 2135 1.0000 3.49% Stream 8 100 250 0.0349 2135 1.0000 3.59% Stream 8<	CARIER # OF CHAN. WATTS ERP HEIGHT CALC. PRANISS. FRACTION CARRIER # OF CHAN. WATTS ERP HEIGHT DENS FREG. EXP. AMF. Sardelia 12 140 235 0.0063 155 0.2000 3.13% UMTS 2 565 160 0.0159 880 0.5867 2.71% UMTS 2 565 160 0.0159 880 0.5867 2.71% UMTS 2 1077 160 0.0363 1900 1.0000 3.63% GSM 4 646 160 0.0363 1900 1.0000 3.63% LTE 1 1313 160 0.0184 734 0.4893 3.77% SM 4 646 160 0.0349 2135 1.0000 1.92% SKTEAM 3 778 170 0.0290 1390 1.0000 1.92% CDMA/LTE 3 7	Name: Woodbridge N ((Seymour)							
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iting Council 1 814 140 0.0149 698 0.4653 3.21%	iting Council 1 814 140 0.0149 698 0.4653 3.21%	iting Council 1 814 140 0.0149 698 0.4653 3.21%	zon AWS	-	1750	140	0.0321	2145	1.0000	3.21%	
			zon 700	-	814	140	0.0149	869	0.4653	3.21%	-
Source: Siting Council	Source: Siting Council	Source: Siting Council									50.25%
			Source: Siting Council								

ATTACHMENT 3

Tower Reanalysis Report Proposal 185135-2-1

Model: U-28 x 280' Tower Site: Seymour, CT PiRod Engineering File A-116966

Tower Contact Person:

Ed Kelso e-mail: ed.kelso@valmont.com telephone extension: 5352

Completed under the Supervision and Approval by William R. Heiden III, P.E. Engineering Group Leader e-mail: William.Heiden@valmont.com telephone extension: 5243

10 - 13 - 13

William R. Heiden III, CT Professional Engineer # 23038

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1.0 EXECUTIVE SUMMARY

This reanalysis was performed by PiRod to determine if the structure is capable of accommodating loading that is different than previous design specifications. This engineering report gives details how the loading changes affect the tower, specifies feasible modifications, and proposes modification materials. **PiRod's engineering study concludes that the tower complies without modifications.** See section 6.0 for details.

2.0 ASSUMPTIONS

This engineering study is based on the theoretical capacity of the structure. It is not a condition assessment of the tower. This report is being provided by PiRod without the benefit of an inspection by PiRod personnel and is based on information supplied by the customer to PiRod. PiRod has made no independent determination, nor is required to, of the accuracy of the information provided. Therefore, unless specifically informed to the contrary by the customer in writing, PiRod assumes the following:

- 1. The subsoil characteristics exist as stated on the tower drawing or stated elsewhere in this report;
- 2. The tower is erected and maintained in accordance with the manufacturer's plans and specifications and is plumb;
- 3. There is no damage, natural or manmade, to the structure, either gradual or sudden:
- 4. All connections and guy cables are properly installed;
- 5. The information concerning the components, existing and proposed, is accurate; and
- 6. There are no modifications to the tower itself, except as may be disclosed elsewhere in this report.

PiRod recommends that qualified personnel assess the physical condition of the tower, preferably under the direction of a licensed professional engineer. Following is a list of the general areas that PiRod recommends to be inspected.

Tower Structure Tower Sections Bolted Connections Welded Connections Plumbness Corrosion Linearity Galvanization Paint Guy Ca Turnbu Preform Guy Lu Torque Galvanization Guy Te Anchor Shackle Insulate	ckles Drainage ns Spalling ngs Anchor Bolts les Settling Arms Grounding os Grout ensions Subsoil PRods Characteristic es Erosion	Cable Hangers Lighting
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3.0 TOWER HISTORY

Date of Origination: 4/2000

PiRod Model: U-28 x 280' Tower Sold to: EMAC Communications

	ORIGINAL DESIGN CRITERIA						
Code/Standard	Wind Loading	Radial Ice	Wind Load Reduction Used	Allowable Stress Increase Used			
TIA/EIA-222- F	90 mph fastest mile	no	none	yes			
TIA/EIA-222-F	90 mph fastest mile	½" solid	25%	yes			

For the structural analysis, the tower and foundation are assumed to exist as shown on the enclosed tower drawing, which is PiRod's latest revision.

4.0 CURRENT WIND LOAD REQUIREMENT

The TIA/EIA Standard is currently at version F for New Haven County. We have taken the opportunity to reanalyze this structure using the following wind speed and ice load conditions:

Code/Standard	Wind Loading	Radial Ice	Wind Load Reduction Used (1)	Allowable Stress Increase Used ⁽²⁾
TIA/EIA-222-F	85 mph fastest mile	no	none	yes
TIA/EIA-222-F	85 mph fastest mile	0.5"	25%	yes

- (1) The wind load reduction is permitted by the TIA/EIA-222-F Standard section 2.3.16 and most other codes to account for the minimal chance that the maximum wind speed will occur simultaneously with the ice load.
- (2) The allowable stress increase is permitted by the TIA/EIA-222-F Standard and most other codes in accordance with the AISC-ASD Manual of Steel Construction.

Note: Some localities stipulate wind load requirements that are different from that required by the TIA/EIA Standard. Please check with your local building department and verify the required wind load.

5.0 ANTENNA LOADING

The tower analysis uses the following antenna loading, which was provided on 10/17.

# 1 1 1 1 12	MODEL Beacon Lightning Rod Ext DB420 DB586-XC RR90-17-02DP		# ting Lo	Model: ading	1	Size	BRACKET
1 1 1 1 12	Beacon Lightning Rod Ext DB420 DB586-XC		ting Lo				
1 1 12	Lightning Rod Ext DB420 DB586-XC		1		1	1"	
12	DB420 DB586-XC		1		1		
	RR90-17-02DP		1	9-arm Halo	2	1-5/8"	Expandable T
l			3 12	15' T-frame 2" x 84" Antenna Pipe	12	1-5/8"	"
	DB420				1	1-5/8"	**
1	DB225-2-F		1	9-arm Halo	1	1-5/8"	"
9	DB980H120A-M		3 9	10' Lt T-frames 2" x 60" Antenna Pipe	9	1-5/8"	c c
9	DB980H120A-M		3 9	10' Lt T-frames 2" x 60" Antenna Pipe	9	1-5/8"	"
9	DB980H120A-M		3 9	10' Lt T-frames 2" x 60" Antenna Pipe	9	1-5/8"	66
6	DB980F65T2E		3 9	15' T-frame 2" x 60 " Antenna Pipe	6		
6 4 6 3 6	LGP 21401 TMA 7020.00 RET Unit KMW AM-X-CD-16-65-00T- RET Ericsson RUS11		3 9	15' T-frame 2" x 72 " Antenna Pipe	6 1 2	I-5/8" Fiber DC	
3	APXV18-206517S0C-ACU				3	1-5/8"	66
2 1 6 3 6	LNX-6514DS-T4M BXA-70063-6BF-EDIN-8 LPA-800636CF BXA-171063/12BF-EDIN-2 RFS FD9R6004/2C3L	Verizon 10°, 110°, 240°	3 12	12' V-frames 2" x 72" Pipe mounts	12	1-5/8"	SE leg Ext. Double T
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	9 9 6 6 4 6 6 1 1 3 2 1 1 6 3	9 DB980H120A-M 9 DB980H120A-M 6 DB980F65T2E 6 7770.00 4 LGP 21401 TMA 7020.00 RET Unit 3 KMW AM-X-CD-16-65-00T- RET 6 Ericsson RUS11 1 Racap DC6-48-60-18-8F 3 APXV18-206517S0C-ACU 2 LNX-6514DS-T4M 1 BXA-70063-6BF-EDIN-8 6 LPA-800636CF 3 BXA-171063/12BF-EDIN-2 6 RFS FD9R6004/2C3L	9 DB980H120A-M 9 DB980H120A-M 6 DB980F65T2E 6 7770.00 4 LGP 21401 TMA 7020.00 RET Unit 3 KMW AM-X-CD-16-65-00T- RET 6 Ericsson RUS11 1 Racap DC6-48-60-18-8F 3 APXV18-206517S0C-ACU 2 LNX-6514DS-T4M 1 BXA-70063-6BF-EDIN-8 6 LPA-800636CF 110°, 110°, 240° Proposed A	9 DB980H120A-M 3 9 DB980H120A-M 3 9 DB980H120A-M 3 6 DB980F65T2E 3 6 7770.00 3 4 LGP 21401 TMA 9 6 7020.00 RET Unit 3 KMW AM-X-CD-16-65-00T-RET 6 Ericsson RUS11 Racap DC6-48-60-18-8F 3 APXV18-206517S0C-ACU 2 LNX-6514DS-T4M Verizon 3 1 BXA-70063-6BF-EDIN-8 10°, 12 6 LPA-800636CF 110°, 240° 6 RFS FD9R6004/2C3L Proposed Additio	9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980F65T2E 10' Lt T-frames 9 2" x 60" Antenna Pipe 15' T-frames 9 2" x 60 " Antenna Pipe 15' T-frame 9 2" x 60 " Antenna Pipe 15' T-frame 9 2" x 60 " Antenna Pipe 2" x 60 " Antenna Pipe 2" x 60 " Antenna Pipe 2" x 72 " Antenna Pipe 2" x 72 " Antenna Pipe 15' T-frame 9 2" x 72 " Antenna Pipe 15' T-frame 15' T	9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980F65T2E 9 DB980F65T2E 3 10' Lt T-frames 9 2" x 60" Antenna Pipe 6 DB980F65T2E 3 15' T-frame 6 7770.00 4 LGP 21401 TMA 7020.00 RET Unit 8 KMW AM-X-CD-16-65-00T- RET 6 Ericsson RUS11 1 Racap DC6-48-60-18-8F 3 APXV18-206517S0C-ACU 2 LNX-6514DS-T4M 10°, 12 2" x 72" Antenna Pipe 12	9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980H120A-M 9 DB980F65T2E 10 DB980F65T2E 11 DB980F65T2E 12 DC 15/8" 15' T-frame 15' T-frame 16 DB980F65T2E 17770.00 18 DB980F65T2E 19 DB980F65T2E 2" x 60" Antenna Pipe 10 DB980F65T2E 2" x 60" Antenna Pipe 2" x 60" Antenna Pipe 10 DB980F65T2E 2" x 60" Antenna Pipe 11 DB980F65T2E 2" x 72" Antenna Pipe 12 DC 15/8" 15' T-frame 15' T-frame 15' T-frame 10 DC 15' T-frame

These antennas, mounts, and lines represent our understanding of the antenna loading required. Please contact us if any discrepancies are evident. If different antennas, mounts, or lines are installed on this structure, this analysis is invalid. If the lines are mounted on PiRod Double-T, Extended Double-T or Expandable Double-T, they are assumed to be mounted inside the tower and the transmission lines are mounted in a back to back configuration. If any of these brackets cannot be placed inside concerning physical fit, alternatively they can be installed outside the tower, but all the brackets need to be swung back as close as possible to one of the tower faces, to minimize the torque.

PiRod, Inc.

A-116966 Seymour U-28 x 280'

* An asterisk indicates that we were not provided with a value for the effective projected area (C_AA_C), and that the area has been assumed based on any information that was made available. The actual effective projected area for each antenna must be confirmed to be equal to the assumed area listed above. If it is determined that the area is different than that stated for any of the above items, this analysis is invalid.

6.0 RESULTS

With the antennas listed in section 5.0, the following modifications are required for the tower to comply with the indicated code and TIA/EIA Standard listed in section 4.0.

6.1 Tower Results - The tower complies without modifications.

• Tower capacity 67.5%

6.2 Foundation Results - The foundation complies without modifications.

The foundation analysis is based on the soil report by AET, Inc., dated 3/31/2000, file #42GT2K.

7.0 LIST OF APPENDICES

Tower elevation drawing

8.0 DISCLAIMER

- 1. The information and conclusions contained in this Report were determined by the application of the then current "state of the art" engineering and analysis procedures and formulae, and Valmont Structures (1) assumes no obligation to revise any of the information or conclusions contained in this Report in the event such engineering and analysis procedures and formulae are hereafter modified or revised.
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 - A. The subsoil characteristics exist as stated on the tower drawing or stated elsewhere in this report;
 - B. The tower is erected and maintained in accordance with the manufacturer's plans and specifications and is plumb;
 - C. There is no damage, natural or manmade, to the structure, either gradual or sudden;
 - D. All connections are properly installed;
 - E. The information concerning the components, existing and proposed, is accurate; and
 - F. There are no modifications to the tower itself, except as may be disclosed elsewhere in this report. Examples include but are not limited to replacement or strengthening of bracing members, reinforcing vertical members in any manner, adding additional bracing, or extending tower.
- 6. All representations and recommendations and conclusions are based upon the information contained and set forth herein. If Customer is aware of any information which is contrary to that which is contained herein, or if Customer is aware of any defects arising from the original design, material, fabrication, and erection deficiencies Customer must disregard this Report and immediately contact Valmont Structures.
- (1) Valmont Structures is the Structures Division of Valmont Industries, Inc., and performs engineering services under the engineering corporation name PiRod, Inc.