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

October 24, 2002

Peter W. van Wilgen
Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, CT 06067-3900

RE: **EM-CING-043-066-012-021015** - Southwestern Bell Mobile Systems, LLC notice of intent to modify existing telecommunications facilities located in East Hartford, Harwinton, and Roxbury, Connecticut.

Dear Mr. van Wilgen:

At a public meeting held on October 7, 2002, the Connecticut Siting Council (Council) acknowledged your notice to modify these existing telecommunications facilities, pursuant to Section 16-50j-73 of the Regulations of Connecticut State Agencies.

The proposed modifications are to be implemented as specified here and in your notice dated October 15, 2002. The modifications are in compliance with the exception criteria in Section 16-50j-72 (b) of the Regulations of Connecticut State Agencies as changes to an existing facility sites that would not increase tower heights, extend the boundaries of the tower site, increase noise levels at the tower site boundaries by six decibels, and increase the total radio frequencies electromagnetic radiation power density measured at the tower site boundaries to or above the standard adopted by the State Department of Environmental Protection pursuant to General Statutes § 22a-162. These facilities have also been carefully modeled to ensure that radio frequency emissions are conservatively below State and federal standards applicable to the frequencies now used on these towers.

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

Thank you for your attention and cooperation.

Very truly yours,

Mortimer A. Gelston
Chairman

MAG/laf

c: See attached list.

I:\siting\em\cing\multiple\021015\dc102302.doc

List Attachment.

c: Honorable Timothy D. Larson, Mayor, Town of East Hartford
Michael J. Dayton, Town Planner, Town of East Hartford
Honorable Marie M. Knudsen, First Selectman, Town of Harwinton
William J. Tracy, Jr., Planning Chairman, Town of Harwinton
Honorable Barbara Henry, First Selectman, Town of Roxbury
Nancy Brusie, Zoning Enforcement Officer, Town of Roxbury

Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7190

Peter W. van Wilgen
Senior Manager - Construction

HAND DELIVERED

October 15, 2002

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

Re: Southwestern Bell Mobile Systems, LLC notice of intent to modify existing telecommunications facilities located in East Hartford, Harwinton, and Roxbury.

Dear Mr. Gelston:

In order to accommodate technological changes, implement E-911 capability and enhance system performance, Southwestern Bell Mobile Systems, LLC ("SNET" or "Cingular Wireless"; formerly SNET Mobility, LLC) plans to modify the antenna configurations at its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of each of the municipalities in which an affected cell site is located.

Attached are summary sheets detailing the planned changes, including power density calculations reflecting the change in the effect of Cingular's operations at each site. Also included is documentation of the structural sufficiency of each tower to accommodate the revised antenna configuration.

Please note that the notices for East Hartford and Harwinton are revisions/corrections to applications submitted and approved earlier.

The changes to the facilities do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facilities will not be significantly changed or altered. Rather, the planned changes to the

facilities fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The height of the overall structure will be unaffected. At almost all sites, new panel antennas approximately the same size will replace those previously installed. Tower mount amplifiers, approximately 5" x 9" x 13", will be added to the platform on which the panel antennas are mounted to enhance signal reception at the cell site. In addition, the mandated provision of E-911 capability *may* require installation of one LMU ("location measurement unit"), approximately nine inches high, on either the tower, the equipment shelter, or the ice bridge. At this writing, however, it appears that the new panel antennas will serve this purpose as well. One GPS receive-only antenna will be attached to the equipment shelter at each site. None of the modifications will extend the height of the tower.

2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound.

3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.

4. Radio frequency power density will increase due to use of additional channels broadcasting at higher power. However, the changes will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, Cingular Wireless respectfully submits that the proposed changes at the referenced sites constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (860) 513-7730 with questions concerning this matter. Thank you for your consideration.

Sincerely,

Peter W. van Wilgen/SLL

Peter W. van Wilgen
Senior Manager - Construction

Enclosures

CINGULAR WIRELESS
Antenna Modification

Site Address:	2 Prestige Park Road, East Hartford Docket No. 40
Tower Owner/Manager:	Springwich Cellular Limited Partnership; managed by SpectraSite Communications, Inc.
Antenna configuration	Antenna center line – 152'

The filing for EM-CING-043-020617 (approved 6/3/02) contained an error in the number of existing and planned antennas. The count prior to the exempt modification was actually 10 Swedcom antennas rather than 9. There will be a 1-for-1 change-out resulting in a final count of 10 CSS antennas.

Current and/or approved:	9 CSS DUO4-8670 or comparable 6 tower mount amplifiers 1 LMU (at 39')
Planned:	10 CSS DUO4-8670 or comparable 6 tower mount amplifiers
Power Density:	No Change from 6/3/02 Approval
Structural information:	Please see attached.

SpectraSite #1002

RE: CT-0009 [EHFR – Prestige Park]
Structural Evaluation of 150' ITT Meyer Monopole
2 Prestige Park Road
East Hartford, CT 06108
Hartford County

Date: *October 2, 2002*

SpectraSite Engineering has performed a *Level 1 evaluation*[1] for the above-noted tower. The evaluation was based on the requirements of the TIA/EIA-222-F Standard for a basic wind speed of **80 mph** without ice and 75% of the wind load with ½" radial ice.

Table 1. Existing and Proposed Antennas

ELEVATION *(Ft-AGL)*	ANTENNA	CARRIER	COAX*	NOTES
157	(1) 10' Omni on Platform Mount with Handails	Pagenet	(1) 1-5/8"	Existing
152	(10) Swedcom ALP 11011 on Platform Mount with Handrails	Cingular	(10) 7/8"	Remove Existing
152	(10) CSS DUO1417-8686 (6) CSS ADC Amplifiers on Platform Mount with Handrails	Cingular	(10) 7/8"	Proposed Replacement
138	(9) Decibel DB980F65T2E-M on T-Arm Mounts	Sprint	(18) 1-5/8"**	Proposed
39	(1) Nokia CS72187.01 on Standoff Mount	Cingular	(1) ½"	Proposed

Coax installed inside monopole.
****Requires cutting out of new ports. See attached Drawing CT-0009-SK1 for details.***

Considering Cingular's proposed loading only, the subject tower and foundation are ***adequate*** to support the above stated loads and ***in conformance*** with the requirements of TIA/EIA-222-F Standard.

For Cingular ***and*** Sprint's proposed loading combined, the subject tower and foundation are ***adequate*** to support the above stated loads and ***in conformance*** with the requirements of TIA/EIA-222-F Standard ***after being reinforced*** per the attached Drawing CT-0009-M1.

The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.

Should any questions arise concerning this report please contact the undersigned.

STATE OF CONNECTICUT
STEPHEN YEO
No. 23270
LICENSED
PROFESSIONAL ENGINEER

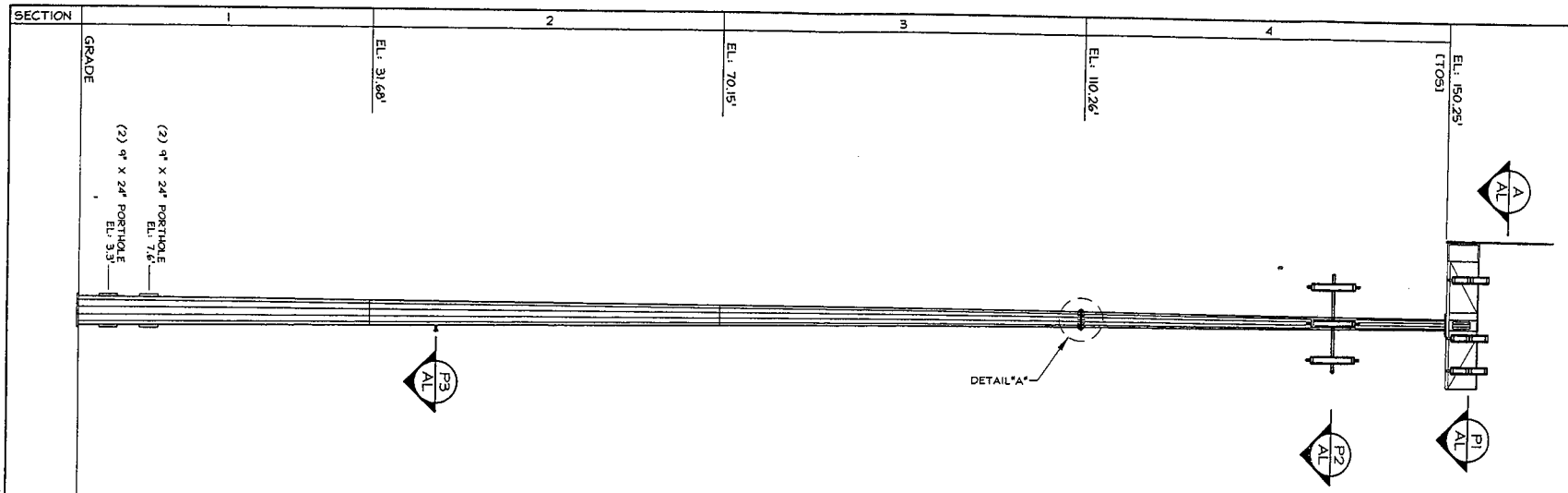
OCT - 3 2002

Raphael Mohamed, *P. Eng.*
Project Engineer
919-465-6629

Stephen Yeo, *P.E.*
Structural Design Manager

1 *Level 1 evaluation* means:
- the applied (existing and proposed) loads (Table 1) on the tower are compared to the original design loads,
- the design wind criteria is compared to the recent code requirements.

E H F R - PRESTIGE PARK, CT
150.25' ITT MEYER MONOPOLE [CT-0009]

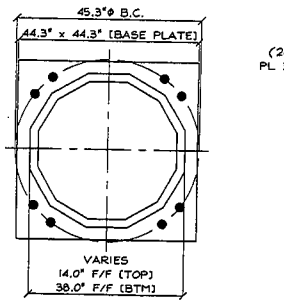


POLE MATERIAL SPECIFICATIONS	
TAPER:	0.160 (IN/FT)
SHAFT STEEL:	ASTM A572, GR. 65
BASE PLATE STEEL:	SQUARE PL 2.5" x 44.3" x 44.3" ASTM A633, GR. E, 60 KSI
ANCHOR BOLTS:	(8) 2.25"ø ASTM A615, GR. 75 45.3"ø B.C.

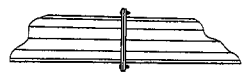
DESIGN SPECIFICATIONS	
CODE:	ANSI/TIA/EIA-222-F
WIND:	80 MPH (HARTFORD COUNTY)
ICE:	1/2" RADIAL

SHAFT SPECIFICATIONS							
SHAFT SECTION	SECTION LENGTH (FT)	# SIDES	THICKNESS (IN)	GRADE (KSI)	OVERLAP (IN)	DIAMETER ACROSS FLATS (IN)	
						BOTTOM	TOP
1	31.68	12	0.375	65	UNK	38.000	32.938
2	38.47	12	0.313	65	UNK	32.938	26.813
3	40.11	12	0.250	65	0	26.813	20.375
4	39.99	12	0.188	65	0	20.375	14.000

TOWER IDENTIFICATION	
MANUFACTURER:	SMITH CULLUM MAPPING
IDENTIFICATION No:	CT-0009

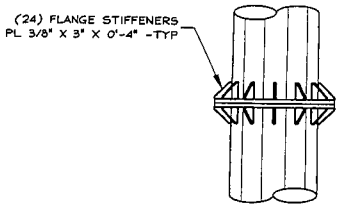


PLAN VIEW



TYPICAL FLANGE DETAIL

TYPICAL SPLICE DETAIL



DETAIL "A"

ANTENNA INFORMATION								
No.	ELEV	ANTENNA TYPE	ANT. DIMS. (LxWxD)	AZIMUTH	MOUNT	TX-LINE*	CUSTOMER	STATUS
A	157.0'	(1) OMNI	10' x 2.4"ø	110°	PLATFORM W/ HANDRAILS	(1) 1-5/8"	PAGENET	E
P1	153.0'	(10) CSS DUO1417-B686	48" x 14" x 9"	23°,143°,263°	PLATFORM W/ HANDRAILS	(10) 7/8"	CINGULAR	P
P2	136.0'	(9) DECIBEL DB980F65T2E-M	60" x 6.3" x 3"	20°,100°,180°	T-ARM	(18) 1-5/8"	SPRINT	P
P3	139.0'	(1) NOKIA CA72187.01	4.5" x 1"ø	1/1 SECTOR	PIPE	(1) 1/2"	CINGULAR	P

* COAX INSTALLED INSIDE MONOPOLE

ANTENNA STATUS LEGEND	
STATUS	DEFINITION
E	EXISTING
F	FUTURE
I	INQUIRY
P	PROPOSED
R	RESERVED
T	TEMPORARY

SEAL:

ISSUE	DESCRIPTION	DATE	BY

SpectraSite
100 REGENCY FOREST DRIVE, SUITE 400
CARY, NORTH CAROLINA 27511
PHONE:(919)468-0112 / FAX:(919)468-8522

TITLE: MODIFICATION DRAWING
PROJECT: 150.25' ITT MEYER MONOPOLE
SITE: E H F R - PRESTIGE PARK

DATE:	DWN:	APP'D:	SITE #:	DWG #:	REV:
9/28/02	JMB		CT-0009	M1	0

Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7190

Peter W. van Wilgen
Senior Manager - Construction

October 15, 2002

Honorable Timothy Larson, Mayor
Town Hall
740 Main Street
East Hartford, Connecticut 06108-3114

Re: Telecommunications facility – Prestige Park Road – **Corrected Filing**

Dear Mayor Larson:

In order to meet the requirements for improved E-911 capability and to implement a more advanced telecommunications system, Southwestern Bell Mobile Systems, LLC, a/k/a Cingular Wireless ("SBMS" or "Cingular"; formerly SNET Mobility, LLC) will be changing its antenna configuration at certain cell sites. Cingular will install panel antennas, small amplifiers and a small locator unit on the tower. As required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Cingular's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter fully describes Cingular's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 513-7730 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Peter W. van Wilgen/SLC

Peter W. van Wilgen
Senior Manager – Construction

Enclosure

CINGULAR WIRELESS
Antenna Modification

Site Address: 159 Weingart Road, Harwinton
Docket No. 138

Tower Owner/Manager: Springwich Cellular Limited Partnership;
managed by SpectraSite Communications, Inc.

Antenna configuration Antenna center line – 185'

The filing for EM-CING-092-020711 (approved 8/1/02) contained an error in the number of existing and planned antennas. The count prior to the exempt modification was actually 11 Allgon antennas rather than 9. There will be a 1-for-1 change-out resulting in a final count of 11 CSS antennas.

Current and/or approved: 9 CSS DUO4-8670 or comparable
6 tower mount amplifiers
1 LMU (at 46.5')

Planned: 11 CSS DUO4-8670 or comparable
6 tower mount amplifiers

Power Density: No Change from 8/1/02 Approval

Structural information: Please see attached.

SpectraSite

1057

RECEIVED
OCT 12 2002
By

RE: CT-0038 [Harwinton]
Structural Evaluation of 182' Monopole
159 Weingart Road
Harwinton, CT 06791
Litchfield County

Date: *October 10, 2002*

SpectraSite Engineering has performed a *Level 1 evaluation*[1] for the above-noted tower. The evaluation was based on the requirements of the TIA/EIA-222-F Standard for a basic wind speed of **80 mph** without ice and 75% of the wind load with ½" radial ice.

Table 1. Existing and Proposed Antennas

ELEVATION *(Ft-AGL)*	ANTENNA	CARRIER	COAX*	NOTES
185	(11) Allgon 7120.16.05 on Platform Mount with Handrails	Cingular	(11) 7/8"	Remove Existing
185	(11) CSS DUO4-8670 (6) CSS ADC Amplifiers on Platform Mount with Handrails	Cingular	(11) 7/8"	Proposed Replacement
46.5	(1) Nokia CS72187.01 On Standoff Mount	Cingular	(1) ½"	Proposed

Coax installed inside pole.

The subject tower and foundation are ***adequate*** to support the above stated loads and ***in conformance*** with the requirements of TIA/EIA-222-F Standard.

The tower should be re-evaluated as future loads are added or if actual loads are found different from those mentioned in Table 1.

Should any questions arise concerning this report please contact the undersigned.

STATE OF CONNECTICUT * DOUGLAS K. PINEO * No. 21110 * LICENSED PROFESSIONAL ENGINEER

Ashley Miller
Engineering Associate

10/10/02
Douglas K. Pineo, *P.E.*
Senior Design Engineer

1 *Level 1 evaluation* means:
- the applied (existing and proposed) loads (Table 1) on the tower are compared to the original design loads,
- the design wind criteria is compared to the recent code requirements.

Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7190

Peter W. van Wilgen
Senior Manager - Construction

October 15, 2002

Honorable Marie M. Knudsen
First Selectman
Town Hall
100 Bentley Drive
Harwinton, Connecticut 06791

Re: Telecommunications facility – Weingart Road – Corrected Filing

Dear Ms. Knudsen:

In order to meet the requirements for improved E-911 capability and to implement a more advanced telecommunications system, Southwestern Bell Mobile Systems, LLC, a/k/a Cingular Wireless ("SBMS" or "Cingular"; formerly SNET Mobility, LLC) will be changing its antenna configuration at certain cell sites. Cingular will install panel antennas, small amplifiers and a small locator unit on the tower. As required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Cingular's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter fully describes Cingular's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 513-7730 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Peter W. van Wilgen/SLL

Peter W. van Wilgen
Senior Manager – Construction

Enclosure

CINGULAR WIRELESS
Antenna Modification

Lower County Road, Roxbury
TS-CING-120-010227, appr. 3/15/01; modif. 5/25/01

Tower Owner/Manager: Nextel

Antenna configuration Antenna center line – Approx. 130 ft

Current and/or approved: **Approved:** 12 DB846H80 panels
Current: 3 ASP974 whip antennas

Planned: 3 ASP974 whip antennas
3 EMS MB96RR900200 panels
3 tower mount amplifiers

Power Density:

Calculations for Cingular's current operations at the site indicate a radio frequency electromagnetic radiation power density, measured at the tower base, of approximately 6.9% of the standard adopted by the FCC. As depicted in the second table below, the total radio frequency electromagnetic radiation power density for Cingular's planned operations would be approximately 10.7%, or an additional 3.8 % of the standard.

Cingular Current

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
Cingular	130	880 - 894	19	100	0.0404	0.5867	6.9

Cingular Planned

Company	Centerline Ht (feet)	Frequency (MHz)	Number of Channels	Power Per Channel (Watts)	Power Density (mW/cm^2)	Standard Limits (mW/cm^2)	Percent of Limit
Cingular TDMA	130	880 - 894	19	100	0.0404	0.5867	6.9
Cingular GSM	133	880 - 894	2	296	0.0120	0.5867	2.1
Cingular GSM	133	1930 - 1935	2	427	0.0174	1.0000	1.7
Total							**10.7%**

Structural information: Please see attached.

FRED A. NUDD CORPORATION

1743 ROUTE 104, BOX 577
ONTARIO, NY 14519
(315) 524-2531 FAX (315) 524-4249
www.nuddtowers.com

Analysis of
180' Self Supporting Tower

MODEL #: SS4-10BPA

PROJECT #: 9132

#2089
LOCATION: Roxbury, CT

for

URS CORPORATION
795 Brook Street
Bldg 5
Rocky Hill, CT 06067

October, 2002

FRED A. NUDD CORPORATION

1743 ROUTE 104, BOX 577
ONTARIO, NY 14519
(315) 524-2531 FAX (315) 524-4249

www.nuddtowers.com

October 2, 2002

Alitz Abadjian
URS CORP.
795 Brook Street, Building 5
Rocky Hill, CT 06067

Alitz,

We have completed the analysis of the Nextel – Roxbury, CT tower and have found it adequate within the scope of this analysis to support the proposed antenna loading. The analysis was performed using 80 mph wind speed with 1/2" radial ice per EIA/TIA 222-F recommended standard.

The tower we analyzed is a 180' Nudd SS4-10BPA self-supporting tower consisting of pipe legs and angle bracing. Tower sections are all-bolted with face dimensions ranging from 5'-0" at the top to 20'-0" at the base. Foundation capacities were predicated on original design criteria.

The antenna loading used in the analysis consisted of the configuration shown on drawing 02-9132-1. The results of the analysis showed all tower and foundation elements to be loaded within allowable limits.

If you have any questions concerning this analysis, please contact me.

Sincerely,

FRED A. NUDD CORPORATION

Patrick Botimer
Engineer

PRIMARY ASSUMPTIONS USED IN THE ANALYSIS

1. Allowable steel stresses are defined by AISC-ASD 9th Edition.
2. All tower members adequately galvanized to prevent corrosion of steel members.
3. All proposed antenna mounts are modeled as Nudd manufactured.
4. No residual stresses due to incorrect tower erection.
5. All bolts are appropriately tightened providing the necessary connection continuity.
6. All welds conform to the requirements of AWS D1.1.
7. We have assumed an allowable wind speed of 80 mph (Litchfield Co.) per EIA/TIA 222-F standard for analysis purposes.
8. The acceptability of the analyzed antenna loading is the responsibility of Bechtel Corporation to confirm with the tower owner.
9. Any deviation from the analyzed antenna loading will require a tower analysis for verification of structural integrity.
10. This analysis has been commissioned by Alitz Abadjian of URS Corp. Hubert Nugent of Bechtel Corporation has provided information about the proposed antennas and location.

SYNOPSIS OF TOWER ANALYSIS

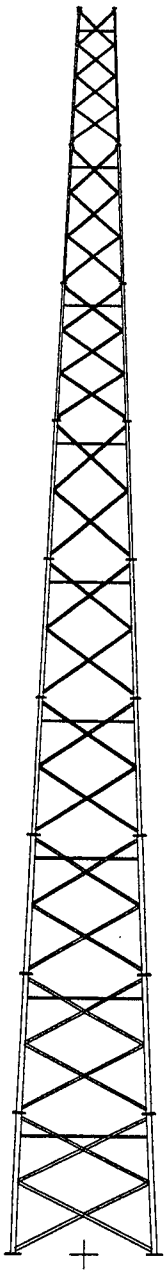
1. Wind loading conditions considered:
   75% wind load with concurrent 1/2" ice.
   100% wind with no ice.

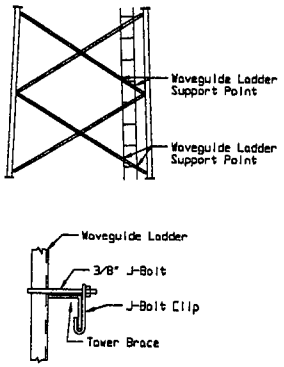
Worst wind load case is wind without ice.

2. Maximum Leg Load:	53% loaded
3. Tower Bracing:	30% loaded
4. Foundations:	68% loaded
5. Guy Cables:	NA

Face/ Elevation:	Section #:	Legs:	Diagonals:	Horizontals:	Horizontal Bolts:	Diagonal Bolts:	
	9	(2) 5/8 A325	L 5x5x5/16	L 3x3x1/4	(2) 3/4 A325	(1) 5/8 A325	5'-0" 180'
	8		L 4x4x3/8				6'-8" 160'
	7		L 4x4x1/4	L 3x3x3/16	(2) 5/8 A325		8'-4" 140'
	6		L 3.5x3.5x1/4	L 2.5x2.5x3/16		(1) 5/8 A325	10'-0" 120'
	5		6 SCH40				11'-8" 100'
	4			L 3x3x3/16	(2) 3/4 A325		13'-4" 80'
	3		8 SCH40				15'-0" 60'
	2			L 4x4x3/8			16'-8" 40'
	1			L 3x3x1/4			18'-4" 20'
(4) 1 1/2x48 A36-F55 ANCHOR BOLTS							20'-0" 0'

Face/ Elevation:	Section #:	Legs:	Diagonals:	Horizontals:	Horizontal Bolts:	Diagonal Bolts:	
	9	2.54 SCH40	L1.75x1.75x3/16	L 1.5x1.5x3/16	(1) 1/2 A325	(1) 1/2 A325	5'-0" 180'
	8	3 SCH40	L 2.5x2.5x3/16	L 1.75x1.75x3/16	(1) 5/8 A325		6'-8" 160'
	7	3.54 SCH40	L 3x3x3/16	L 2.5x2x3/16	(2) 5/8 A325		8'-4" 140'
	6	5 SCH40	L 3.5x3.5x1/4				10'-0" 120'
	5	6 SCH40		L 2.5x2.5x3/16			11'-8" 100'
	4		L 4x4x1/4	L 3x3x3/16	(2) 3/4 A325	(2) 5/8 A325	13'-4" 80'
	3						15'-0" 60'
	2		L 4x4x3/8	L 3x3x1/4			16'-8" 40'
	1		L 5x5x5/16				18'-4" 20'
(4) 3/4 x 2 3/4 A325							20'-0" 0'
(4) 3/4 x 2 3/4 A325							
(6) 3/4 x 3 A325							
(6) 1 x 3 3/4 A325							
(8) 1 x 3 3/4 A325							
(8) 1 x 3 1/2 A325							
(8) 1 1/4 x 5 A325							
(8) 1 1/4 x 4 1/2 A325							
(8) 1 1/4 x 4 1/2 A325							





WAVEGUIDE LADDER CONNECTION

Worst case load condition is wind with ice with load reduction.
Allowable steel stresses per AISC ASD 9th Edition
Allowable concrete stresses per ACI 318-89.

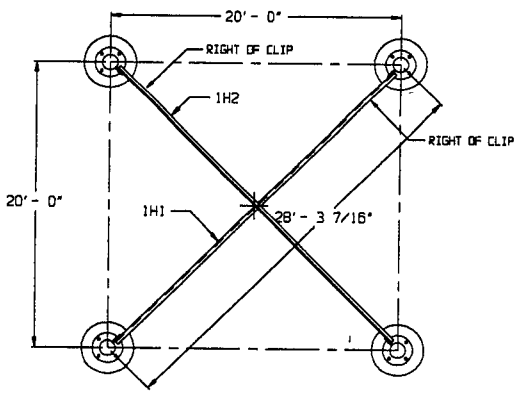
MATERIAL ASSUMPTIONS
Tower Legs: ASTM A500-B&C, Fy > 54 ksi.
All other Steel: ASTM A36, Fy > 36 ksi
Hardware: ASTM A325 Hot Dipped Galvanized Bolts with Anco Nuts.
Galvanizing: ASTM A123
Anchor Bolts: ASTM A36-F55, Fu > 85 ksi
***Results of tower mast analysis: Pass
***Results of foundation analysis: Pass

TOWER LOADING CONDITIONS

QTY	Antenna	Elevation	Windload	Deadload	
1	2bayx10' dipole	180	73	30	(E) Fire Dept
9	ALP 9011	178	111	20	(E) Nextel
3	12' Cellular Boon	178	253	170	
1	DB 264	154	140	36	(E) Fire Dept
1	2.0x4'x6' Boon	154	206	130	
1	2bayx10' dipole	156	70	30	(E) Fire Dept
1	2.0x4'x6' Boon	156	207	130	
3	ASP 973	130	25	27	(E) Cingular
3	2.0x4'x6' Boon	130	196	130	
6	Allgon 7250	120	75	15	(P) AT&T
3	T-Arm Assembly	120	226	170	
3	EMS MB96RR900200	133	246	36	(P) Cingular
3	TowerMt Anplifier	133	22	5	

QTY	Type	Elevation Start	Elevation Stop	#/ft Windload	#/ft Deadload
1	LDF5-50A 7/8	10	180	3.8	1.3
9	LDF7-50A 1-5/8	10	178	5.5	2.4
1	LDF5-50A 7/8	10	154	3.7	1.3
1	LDF5-50A 7/8	10	156	3.7	1.3
3	LDF6-50 1-1/4	10	130	4.3	1.9
12	LDF7-50A 1-5/8	10	120	4.9	2.4
9	LDF7-50A 1-5/8	10	133	5.0	2.4

NOTE: Any deviation from the proposed design antenna loading will require a tower analysis for verification of structural integrity.



FOUNDATION AND TYPICAL
HORIZONTAL LAYOUT
TOP VIEW, SECTION 1

APPROX. TOWER SECTION WEIGHTS (lb):
Section 10 : 529 +/-
Section 9 : 1103 +/-
Section 8 : 1554 +/-
Section 7 : 2033 +/-
Section 6 : 2940 +/-
Section 5 : 3454 +/-
Section 4 : 4051 +/-
Section 3 : 5000 +/-
Section 2 : 6281 +/-
Section 1 : 6781 +/-
Total Tower Weight: 33731 +/-

FRED A. NUDD CORPORATION
Route 104*Ontario, New York 14519*315/524-2531

SCALE:	N/S	DRAWN BY:	PCB
DATE:	10/02/02		

ANALYSIS OF 180' SS4-108PA TOWER

URS CORP/CINGULAR
ROXBURY, CT

DRAWING NUMBER: 02-9132-1

Southwestern Bell Mobile Systems, LLC
500 Enterprise Drive
Rocky Hill, Connecticut 06067-3900
Phone: (860) 513-7730
Fax: (860) 513-7190

Peter W. van Wilgen
Senior Manager - Construction

October 15, 2002

Hon. Barbara Henry
1st Selectman, Town of Roxbury
Town Hall, 29 North Street
Roxbury, CT 06783

Re: Telecommunications facility – Lower County Road

Dear Ms. Henry:

In order to meet the requirements for improved E-911 capability and to implement a more advanced telecommunications system, Southwestern Bell Mobile Systems, LLC, a/k/a Cingular Wireless ("SBMS" or "Cingular"; formerly SNET Mobility, LLC) will be changing its antenna configuration at certain cell sites. Cingular will install panel antennas, small amplifiers and a small locator unit on the tower. As required by Regulations of Connecticut State Agencies ("R.C.S.A.") Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Cingular's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter fully describes Cingular's proposal. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (860) 513-7730 or Mr. Derek Phelps, Executive Director, Connecticut Siting Council at (860) 827-2935.

Sincerely,

Peter W. van Wilgen /SLL

Peter W. van Wilgen
Senior Manager – Construction

Enclosure