



Filed by:

*Kri Pelletier, Property Specialist - SBA Communications
33 Boston Post Road West, Ste 320, Marlborough, MA 01751
508.251.0720 x 3804 - kpelletier@sbsite.com*

December 15, 2015

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

SUPPLEMENTARY - Notice of Exempt Modification

160 Wampus Lane, Milford, CT 06460

41.22514 N

73.04238 W

T-Mobile#: CTNH003A_L700

Dear Ms. Bachman:

We received the Council's correspondence of December 3, 2015 identifying the following discrepancies with our Notice of Intent to Modify submitted November 25, 2015:

- "The Structural Analysis Report has not been stamped by a Professional Engineer"; and
- "The decision in which the facility was approved and the conditions of approval are not given, and so it is unclear whether this modification would violate the municipality's conditions of approval."

Attached is a Structural Analysis with stamp. We apologize for the oversight.

The facility was first approved by the town with Judicial Ruling IW-JR-01-022, authorizing the construction of a wireless telecommunications facility and associated structures within 50' of wetlands in the Indian River Watershed. The Ruling was issued pursuant to Section 22a-42a of the CT General Statutes and Milford Inland Wetlands Regulations Sections 6-12. This approval contained no restrictions placed on the tower configuration post build.

On June 5, 2001 the Milford Planning & Zoning Board granted approval for Nextel Communications to construct a 120' tall enhanced specialized mobile radio monopole. This approval included the conditions that there would be twelve antennas (four elements) facing in three different directions at the top most portion of the tower. The height of the tower was to allow co-location of three additional lower antenna arrays. This modification complies with the aforementioned conditions.



The initial Building Permit #33671 was issued August 3, 2001 for a new cellular telecommunications facility for Nextel Communications – 120' high.

Please let us know if the Council requires anything further.

Sincerely,

A handwritten signature in black ink, appearing to read "Kri Pelletier", is written over a light blue horizontal line.

Kri Pelletier
Property Specialist
SBA COMMUNICATIONS CORPORATION
134 Flanders Road, Suite 125
Westborough, MA 01581

508.251.0720 x3804 + T
508.251.1755 + F
203.446.7700 + C
kpelletier@sbsite.com

Attachments

cc: The Honorable Benjamin G. Blake—as elected official
City of Milford, 110 River Street, Milford, CT 06460
Cutting Edge Technologies, LLC—as property owner
160 Wampus Lane, Milford, CT 06460



City of Milford, Connecticut

Founded 1639

70 West River Street
Milford, CT 06460-3317
Telephone (203) 783-3256

INLAND WETLANDS
OFFICE

CERTIFIED MAIL #7000 1670 0011 1309 3698

May 22, 2001

Mr. John Knuff
Hurwitz & Sagarin, L.L.C.
147 North Broad Street
P.O. Box 112
Milford, Connecticut 06460

Re: Jurisdictional Ruling IW-JR-01-022; 166 Wampus Lane, Map 56, Block 813, Parcel 1-B; Nextel Communications. Proposed Wireless Telecommunications Facility with no work proposed within a wetland or 50' review area in the Indian River Watershed. Jurisdictional Ruling to be issued.

Mr. Knuff:

Pursuant to Section 22a-42a of the Connecticut General Statutes and Milford Inland Wetlands Regulations Sections 6-12, this is to inform you that the Milford Inland Wetlands Agency voted to authorize the Designated Agent to issue a Jurisdictional Ruling for your application IW-A-01-022 - 166 Wampus Lane, based on the information in the file, presented at the meeting and the plans entitled "Nextel Communications of the Mid-Atlantic, Inc. DBA Nextel Communications Site Number CT 0638, Milford, 166 Wampus Lane, Milford, CT" by URS Corporation AES, cover & 3 sheets, cover, sheets Z1 & Z2 dated 5/2/01, Boundary & Topographic Survey dated January 2001, last revised 4/12/01". The Agency also moved that the Designated Agent can authorize a reconfigured footprint as discussed at the meeting.

Therefore, I am issuing you this Jurisdictional Ruling allowing the construction of a wireless telecommunications facility and associated structures as shown on the plans referenced above within 50' of wetlands in the Indian River Watershed.

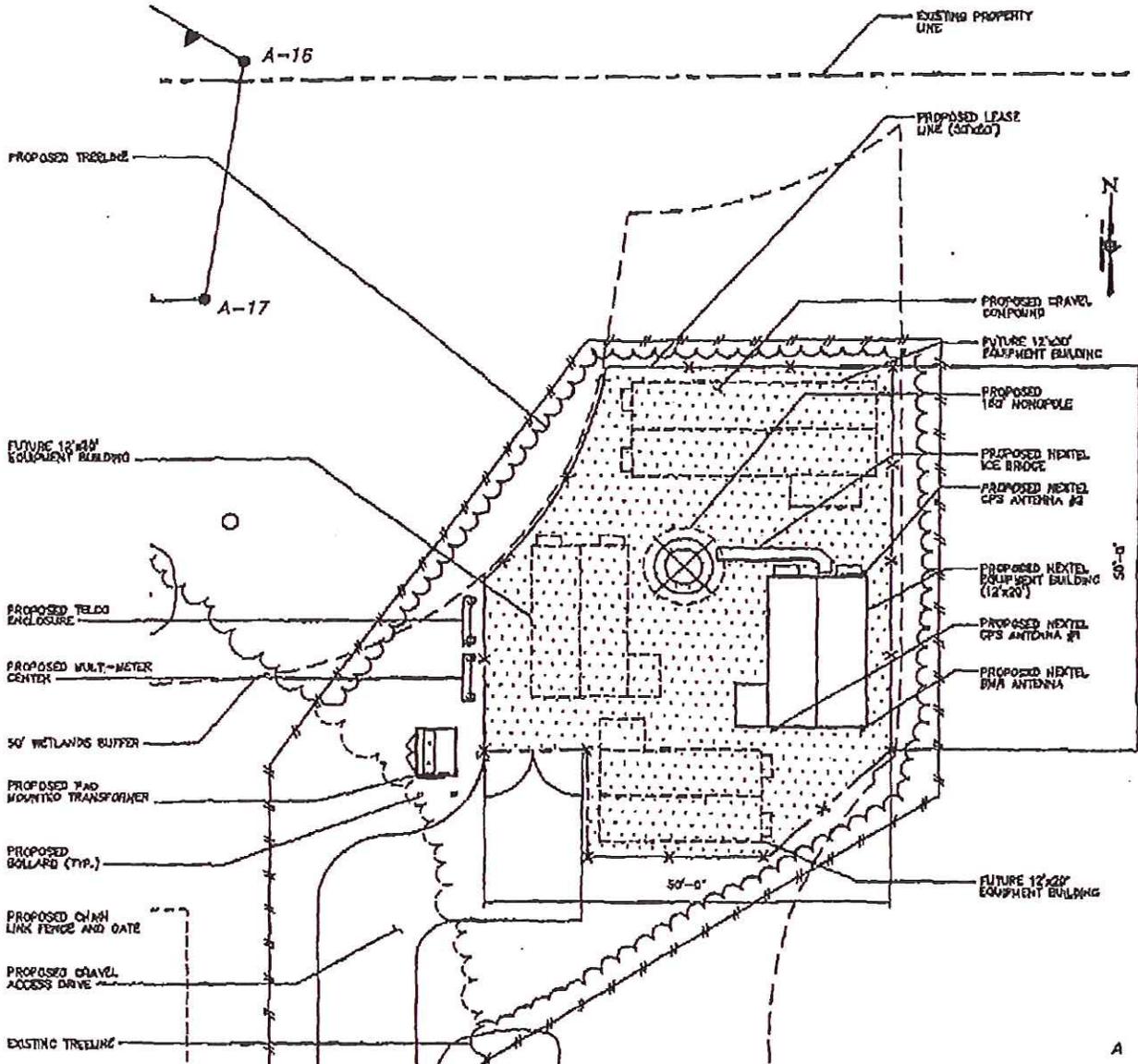
Prior to the start of construction you must install soil erosion and sedimentation controls as required on the plans to prevent erosion into wetlands both on and off site during construction. As soon as the disturbed soils on site are stabilized the soil erosion and sedimentation controls can be removed. At no time during construction can soils be stockpiled or deposited within the wetlands or regulated area on the property.

Should you have any questions concerning this matter, please contact the Inland Wetlands Agency Office at 783-3256.

Sincerely,

Mary Rose Palumbo
Inland Wetlands Compliance Officer

cc: Planning & Zoning
City Engineer



1 COMPOUND PLAN
 SK-2 SCALE 1" = 20'-0"



SITE NO. MC
 CT-0838
 DRAWING NO.
 JCF
 3/20/01
 DRAWN BY

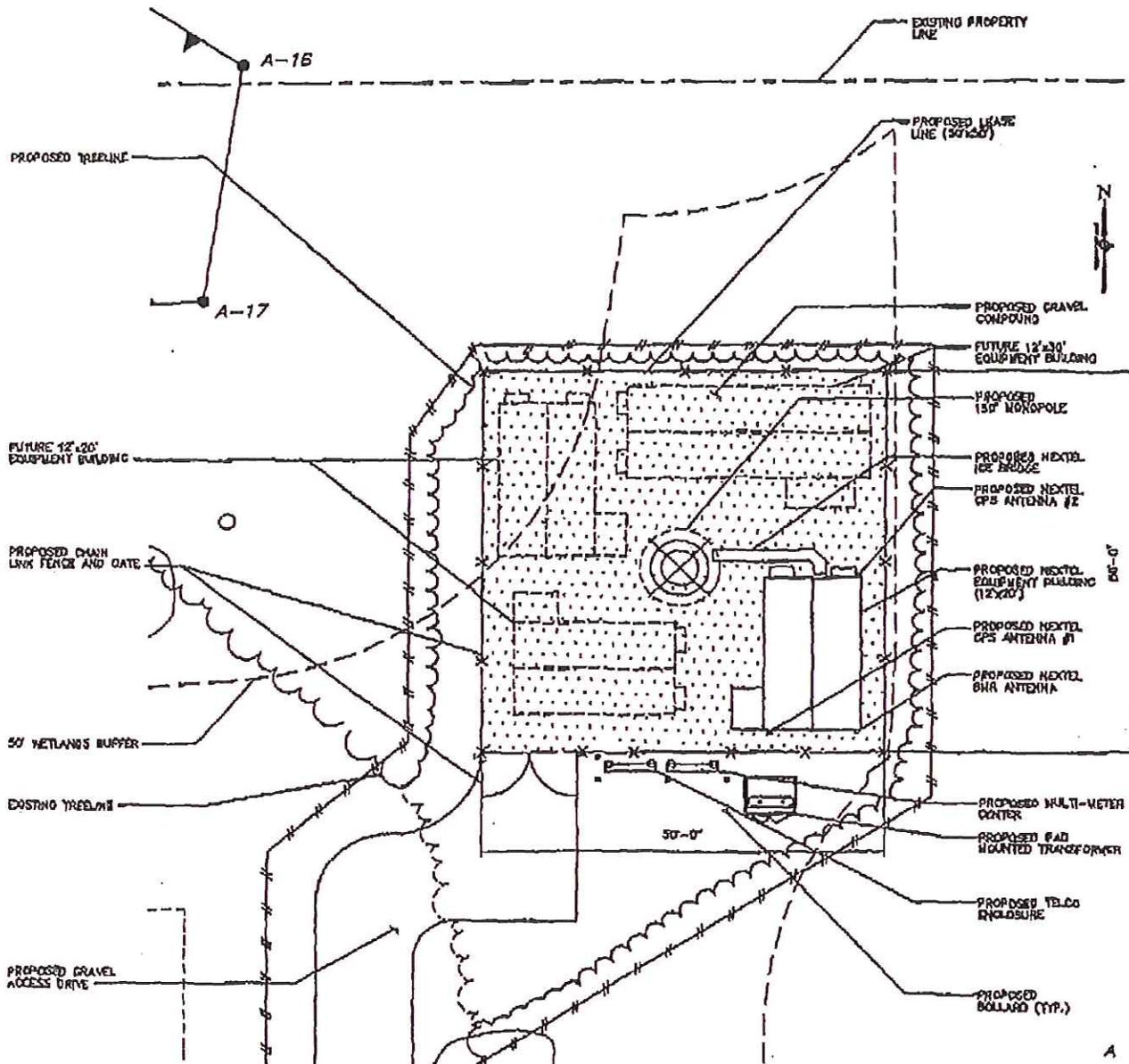
URS CORPORATION
 600 ENTERPRISE DRIVE
 ROCKY HILL, CONNECTICUT
 1-860-528-5882

NEXTEL
 MILFORD
 160 WAMPUS LANE
 MILFORD, CONNECTICUT

REV.	DATE	DESCRIPTION

Scale AS SHOWN Date 6/22/01
 Job No. 201721.63 File No. SK-2

Dep. No.
SK-2
 Page 2 of 2



1 COMPOUND PLAN
 SK-1 SCALE 1" = 20'-0"



DATE: 5/22/01
 CT-0638
 DESIGNED BY: JCS
 CHECKED BY:
 APPROVED BY:

URS CORPORATION
 500 ENTERPRISE DRIVE
 ROCKY HILL, CONNECTICUT
 1-800-829-8552

NEXTEL
 MILFORD
 160 WAMPUS LANE
 MILFORD, CONNECTICUT

REV.	DATE	DESCRIPTION

Scale AS SHOWN Date 5/22/01
 Job No. F201731.4-3 File No. SK-1

Page No.
SK-1
 Page 1 of 2



City of Milford, Connecticut

Founded 1639

PLANNING AND ZONING BOARD

70 WEST RIVER STREET
MILFORD, CONNECTICUT 06460
TELEPHONE 783-3245

June 6, 2001

Attorney John Knuff
147 North Broad Street
Milford, CT-06460

RE: 166 WAMPUS LANE (NEXTEL)

Dear Mr. Knuff:

At its meeting held on Tuesday, June 5, 2001 the Milford Planning & Zoning Board moved to grant Coastal Area Management Site Plan Review approval to Nextel Communications to construct a 120' tall enhanced specialized mobile radio monopole. This approval shall include 12 antennas (4 elements) facing in 3 different directions) at the top most portion of the tower. The height of the tower will allow co-location of 3 additional (lower) antenna arrays. All work shall be performed in conjunction with the following plan prepared by URS Corporation AES.

Title Sheet (T-1)

Survey dated January 1; revised to April 12, 2001

Site Plan, Legend & Zoning Table (2-1) revised to April 23, 2001

Compound Plan, Tower Elevation & Details (2-2) revised to April 23, 2001

The following city department reports shall apply: Fire Department report dated May 9, 2001 from Edward L. Beatty; Department of Public Works memo from B. C. Kolwicz dated May 15, 2001 and Inland Wetland letter from Mary Rose Palumbo dated May 22, 2001.

Very truly yours,

WADE E. PIERCE
Executive Secretary to the
Planning & Zoning Board

WEP/cv

CITY OF MILFORD, CONN.

BUILDING PERMIT

No 33671

Estimate cost (structural) - \$176,275.00

Fee - \$1,086.00

Date issued: 06-09-2001

Permission is hereby granted to Cutting Edge Technologies LLC/Owner - Spectrasite Const., Inc./Contractor to erect a new cellular telecommunications facility for Nextel Communications 120' high

Address 166 Wampus Lane (map 56, block 813, parcel 1B)
as follows: - Size ft. long, ft. wide, stories high;
supported on roof covered with
walls to be (EXTERIOR) (INTERIOR); No. of house-keeping units

Owner Cutting Edge Technologies LLC

BUILDING DEPARTMENT, CITY OF MILFORD, CONN.
Thomas Rucci/ea Building Inspector

CITY OF MILFORD, CONNECTICUT

Date 8/9/01

Received of URS Corp - CT
One thousand seventy one Dollars \$ 1071 -
In payment of BP # 33671

CRK#9009

DEPARTMENT

BY

Signature: Bob Wisp

WHITE COPY - ORIGINAL

YELLOW COPY - DEPARTMENT COPY



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 3, 2015

Kri Pelletier
SBA Communications
33 Boston Post Road West
Suite 320
Marlborough, MA 01751

RE: **EM-T-MOBILE-084-151125** - T-Mobile notice of intent to modify an existing telecommunications facility located at 160 Wampus Lane, Milford, Connecticut.

Dear Ms. Pelletier:

The Connecticut Siting Council (Council) received a notice of intent to modify the above-referenced facility on November 25, 2015.

Council staff has identified the following discrepancies:

- The decision in which the facility was approved and the conditions of approval are not given, and so it is unclear whether this modification would violate the municipality's conditions of approval.
- The Structural Analysis Report has not been stamped by a Professional Engineer.

The rationale for the request for information regarding municipal conditions of approval originates from the FCC Wireless Infrastructure Report and Order for eligible facilities requests to comply with any conditions of the original approval for an existing tower.

Therefore, the notice of intent to modify an existing telecommunications facility is incomplete at this time. This notice of incompleteness shall have the effect of tolling the Federal Communications Commission (FCC) 60-day timeframe in accordance with Paragraph 217 of the FCC Wireless Infrastructure Report and Order issued on October 21, 2014 (FCC 14-153).

The Council recommends that T-Mobile provide information to clarify or fulfill the deficiencies noted above.

Thank you for your attention to this matter. Should you have any questions, please feel free to contact me at 860-827-2951.

Very truly yours,

Melanie Bachman
Acting Executive Director

MAB/CH

c: The Honorable Benjamin G. Blake, Mayor, City of Milford
David Sulkis, City Planner, City of Milford



Tower Engineering Solutions

Phone (972) 483-0607, Fax (972) 975-9615
8445 Freepoint Parkway, Suite 375, Irving, Texas 75063

Post-Mod Structural Analysis Report

Existing 120 ft. Monopole

Customer Name: SBA Communications Corp

Customer Site Number: CT46128-A

Customer Site Name: Milford - West

Carrier Name: T-Mobile

Carrier Site Number: CTNH003A

Carrier Site Name: N/A

Site Location: 160 Wampus Lane

Milford, Connecticut

New Haven County

Latitude: 41.225166

Longitude: -73.042361

Analysis Result:

Max Structural Usage: 99.5% [Pass]

Max Foundation Usage: 77.0% [Pass]

Report Prepared By : Billy Davis



Introduction

The purpose of this report is to summarize the analysis results on the 120 ft. Monopole to support the proposed antennas and transmission lines in addition to those currently installed. Any existing modification listed under Sources of Information was assumed completed and was included in this analysis.

The proposed modification by **TES** listed under Sources of Information was considered completed and was included in this analysis.

Sources of Information

Tower Drawings	Rohn Project #51361AE, dated April 3, 2002
Foundation Drawing	Rohn Project #51361AE, dated April 3, 2002
Geotechnical Report	Clarence Welti Associates Inc. Site #CT-0638, dated June 19, 2001
Existing Modification	N/A
Proposed Modification	TES Job # 18033

Analysis Criteria

The analysis was performed in accordance with the requirements and stipulations of the ANSI/TIA/EIA 222-F. In accordance with this standard, the structure was analyzed using **TESPoles**, a proprietary analysis software. The program considers the structure as an elastic 3-D model with second-order effects and temperature effects incorporated in the analysis. The analysis was performed using multiple wind directions.

Basic Wind Speed Used in the Analysis:	85.0 mph (fastest mile)
Basic Wind Speed with Ice:	73.6 mph (fastest mile) with 1/2" radial ice concurrent
Operational Wind Speed:	50.0 mph + 0" Radial ice
Standard/Codes:	ANSI/TIA/EIA 222-F / 2005 Connecticut State Building Code
Basic Wind Speed Used in the Analysis:	85.0 mph (fastest mile)
Basic Wind Speed with Ice:	73.6 mph (fastest mile) with 1/2" radial ice concurrent

Existing Antennas, Mounts and Transmission Lines

The table below summarizes the antennas, mounts and transmission lines that were considered in the analysis as existing on the tower.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
1	116.5	3	A-ANT-23G-2-C - Dish	Low Profile Platform	(3) 1/2"	Clearwire
2		3	APXVSP18-C-A20 - Panel		(4) 1-1/4" Hybrid Cable	
3		3	APXV9TM-14-ALU-I20 - Panel			
4		3	1900MHz RRH			
5		3	800 MHz RRH			
6		3	800 MHz RRH w/ Notch Filter			
7		3	TD-RRH8x20-25-RRH			
8		4	ACU-A20-N			
9	105.0	3	Ericsson AIR B2A/ B4P - Panel	Platform w/ Hand Rail	(12) 1 5/8"	T-Mobile
10		3	Ericsson AIR B4A / B2P - Panel		(1) 1 5/8" Fiber	
12		3	Ericsson KRY 112 144/1-TMA			
14	78.0	2	GPS - Whip	(2) Side Arm		Unknown

Proposed Carrier's Final Configuration of Antennas, Mounts and Transmission Lines

Information pertaining to the proposed carrier's final configuration of antennas and transmission lines was provided by SBA Communications Corp. The proposed antennas and lines are listed below.

Items	Elevation (ft)	Qty.	Antenna Descriptions	Mount Type & Qty.	Transmission Lines	Owner
9	105.0	3	Ericsson AIR B2A/ B4P - Panel	Platform w/ Hand Rails	(12) 1 5/8" (1) 1 5/8" Fiber	T-Mobile
10		3	Ericsson AIR B4A / B2P - Panel			
11		3	Commscope - LNX-6515DS-A1M - Panel			
12		6	Ericsson KRY 112 144/1-TMA			
13		3	Ericsson S11B12-RRU			

All transmission lines are considered running inside of the pole shafts.

Analysis Results

The results of the structural analysis, performed for the wind and ice loading and antenna equipment as defined above, are summarized as the following:

	Pole shafts	Anchor Bolts	Base Plate
Max. Usage:	99.5	59.0%	84.0%
Pass/Fail	Pass	Pass	Pass

Foundations

	Moment (Kip-Ft)	Shear (Kips)	Axial (Kips)
Original Design Reactions	1446.0	17.0	30.0
Analysis Reactions	1443.6	15.8	19.1

The foundation has been investigated using the supplied documents and soils report and was found adequate. Therefore, no modification to the foundation will be required.

Operational Condition (Rigidity):

Maximum twist and sway of the microwave dishes under the operational wind speed as specified in the Analysis Criteria are listed in the table below:

Elevation (ft)	Antenna / Dish	Carrier	Twist (deg)	Sway (deg)
116.5	A-ANT-23G-2-C - Dish	Clearwire	0.000	2.148
105.0	Various	T-Mobile	0.000	2.104

It is recommended that the carriers review the twist and sway values of the microwave dishes.

Conclusions

Based on the analysis results, the structure and its foundation will be adequate to safely support the existing and proposed equipment and meet the minimum requirements per the design ANSI/TIA/EIA 222-F standards under a basic wind speed of 85 mph no ice and 74 mph with 1/2" radial ice after the following proposed modification is successfully completed.

- Proposed modification design drawing by TES Job # 18033

Pre-Mod Installation Determination

We have also checked this tower to determine if the proposed T-Mobile equipment loading can be installed prior to the completion of the required modifications. We ran a reduced wind loading case as required by TIA-1019 considering a construction period of no more than 6 months.

The tower and foundations passed, so the Carrier can proceed and install their proposed loading prior to the mods completion. Please be aware that this approval is being provided and is based on the method outlined in TIA-1019. This approval is not a blanket approval and there is still a risk that the tower will experience a wind event that cannot be predicted by TIA-1019 or our Engineers. In the event of an unforeseen wind event, Tower Engineering Solutions will not be liable nor responsible for damage to the tower or the Carriers equipment. Additionally, the tower cannot go beyond the 6 month construction period without the modifications being completed. If the modifications cannot be completed within 6 months from the completed installation of the Carrier's proposed equipment, TES must be notified immediately for further review.

Standard Conditions

1. This analysis was performed based on the information supplied to **(TES) Tower Engineering Solutions, LLC**. Verification of the information provided was not included in the Scope of Work for **TES**. The accuracy of the analysis is dependent on the accuracy of the information provided.
2. The analysis is based on the presumption that the tower members and components along with any existing reinforcement items have been correctly and properly designed, manufactured, installed and maintained.
3. All the existing structural members were assumed to be in good condition with no physical damage or deterioration associated with corrosion.
4. An initial tension of 10% of the break strength on all the existing guy wires was assumed in all the structural analyses of guyed towers unless different values were provided by the client. **TES** cannot take responsibility for the deviations in the analysis results because of differences in the initial tension forces of the existing guy wires.
5. Secondary component or connection secondary components, welds and bolts are assumed to be able to carry their intended original design loads. **TES** cannot take responsibility for verification of the adequacy on the connections, bolts and welds present in the structure.
6. The analyses will be performed based on the codes as specified by the client or based on the best knowledge of the engineering staff of **TES**. In the absence of information to the contrary, all work will be performed in accordance with the latest relevant revision of ANSI/TIA-222. If wind speed or/and ice loads are different from the minimum values recommended by the EIA/TIA-222 standard or other codes, **TES** should be notified in writing and the applicable minimum values provided by the client.
7. The configuration of the existing mounts, antennas, coax and other appurtenances were supplied by the customer for the current structural analysis. **TES** has not visited the tower site to verify the adequacy of the information provided. If there is any discrepancy found in the report regarding the existing conditions, **TES** should be notified immediately to evaluate the effect of the discrepancy on the analysis results.
8. The client will assume responsibility for rework associated with the differences in initially provided information, including tower and foundation information, existing and/or proposed equipment and transmission lines.
9. If a feasibility analysis was performed, final acceptance of changed conditions shall be based upon a rigorous structural analysis.