



April 30, 2018

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

RE: Notice of Exempt Modification for Sprint Crown Site BU: 876331

Sprint Site ID: CT03XC083

115 North Mountain Road, New Britain, Hartford County, CT 06053

Latitude: 41° 40′ 35.72″/ Longitude: -72° 49′ 17.09″

Dear Ms. Bachman:

Sprint currently maintains (3) antennas at the 116-foot level of the existing 116-foot monopole at 115 North Mountain Road, New Britain, Connecticut 06053. The tower and property on which it sits is owned by Crown Castle. Sprint intends to install (3) antennas, (1) hybrid, and (3) RRHs.

The Connecticut Siting Council's Telecommunications Database provides the Council approved the tower February 16, 2000, however a diligent search of the available online records was not fruitful for obtaining a copy of said decision.

Please accept this letter as notification pursuant to Regulations of Connecticut State Agencies § 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.S.C.A. § 16-50j-73, a copy of this letter is being sent to Ms. Erin Stewart, Mayor, City of New Britain, Ms. Marion Fischbein, Member of the City of New Britain's Zoning Board, and Crown Castle as the property and tower owner.

- 1. The proposed modifications will not result in an increase in the height of the existing tower.
- 2. The proposed modifications will not require the extension of the site boundary.
- 3. The proposed modification 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 emissions at the facility to a level at or above the Federal Communication Commission safety standard.

The Foundation for a Wireless World.

CrownCastle.com

- 5. The proposed modifications will not cause a change or alteration in the physical or environmental characteristics of the site.
- 6. The existing structure and its foundation can support the proposed loading.

For the foregoing reasons, Sprint respectfully submits that the proposed modifications to the above-reference telecommunications facility constitutes an exempt modification under R.C.S.A. § 16-50j-72(b)(2). Please send approval/rejection letter to Attn: Anne Marie Zsamba.

Sincerely,

Anne Marie Zsamba, Esq.

Real Estate Specialist

3 Corporate Park Drive, Suite 101, Clifton Park, NY 12065

(518) 350-3639

annemarie.zsamba.contractor@crowncastle.com

Attachments:

Tab A: Exhibit-1: Compound plan and elevation depicting the planned changes

Tab B: Exhibit-2: Structural Modification Report

Tab C: Exhibit-3: General Power Density Table Report (RF Emissions Analysis Report)

Ms. Erin Stewart, Mayor cc: City of New Britain 27 West Main Street New Britain, CT 06051 (860) 826-3300

> Ms. Marion Fischbein City of New Britain Zoning Board 27 West Main Street - Room 311 New Britain, CT 06051 (860) 826-3430

Crown Castle

City of New Britain, Connecticut - Assessment Parcel Map MBL: F2D 102 Address: 115 NORTH MOUNTAIN RD 101 101 Disclaimer: Approximate Scale: Map Produced Feb 2017 This map is for informational purposes only. 1 inch = 100 feet



City of New Britain, CT

Property Listing Report

Map Block Lot

F2D 102

Account

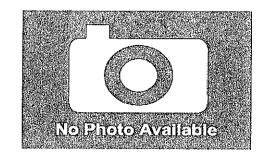
66600115

Property Information

Property Location	115 NORTH MOUNTAIN RD			
Owner	OCTOBER TWENTY FOUR INC			
Co-Owner				
Mailing Address	C/O A AIUDI + SONS	LLC	06062	
Land Use	4400 Ind Ld D)e		
Land Class	I	•		
Zoning Code	ТР			
Census Tract	416500			

Utilities All Public Lot Setting/Desc Ledge	Neighborhood	101G
Lot Setting/Desc Ledge	Acreage	0.82
20090	Utilities	All Public
Additional Info	Lot Setting/Desc	Ledge
	Additional Info	

Photo



Sketch

Primary Construction Details

Year Built	
Stories	
Building Style	
Building Use	
Building Condition	
Floors	
Total Rooms	

Bedrooms	
Full Bathrooms	
Half Bathrooms	
Bath Style	
Kitchen Style	
Roof Style	
Roof Cover	

Exterior Walls	
Interior Walls	
Heating Type	
Heating Fuel	
AC Type	
Gross Bldg Area	
Total Living Area	

City of New Britain, CT

Property Listing Report

Map Block Lot

F2D 102

Account

66600115

Valuation Summary

(Assessed value = 70% of Appraised Value)

Item	Appraised	Assessed
Buildings		"
Extras		
Improvements		
Outbuildings		
Land		
Total		

Sub Areas

Subarea Type	Gross Area (sq ft)	Living Area (sq ft)
Total Area		0

Outbuilding and Extra Items

Туре	Description
Conc Pad	256.00 S.F.
Fence-6' Chain	150.00 L.F.
PreCastConcCel	286.00 S.F.
PreCastConcCel	360.00 S.F.
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Sales History

Owner of Record	Book/ Page	Sale Date	Sale Price	
OCTOBER TWENTY FOUR INC	1826/ 309	9/29/2011	550000	
OCTOBER TWENTY FOUR INC	733/ 284	2/2/1978		
GIUSEPPE CACCAMO SALVATORE	431/ 424	1/1/1900		
	224/ 239	1/1/1900		



CASTLE

SITE INFORMATION

LATITUDE (NADB3): 41.40° 38.72° N 41.67858888°

ZONING JURISONCTION: CONNECTICAT SITING COUNCY

ZONING DISTRICT: TP - TECHNOLOGY PANK POWER COMPANY: CL&P (960) 288-2020

STE NAME: PROJECT:

MW DEPLOYMENT

Sprint CONTENTS ON THE PARK KARRAN SECON

NEW BRITAIN GRAVEL PIT

CT03XC083

SITE CASCADE:

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SITE NUMBER:

876331

115 NORTH MOUNTAIN ROAD **NEW BRITAIN, CT 06053** SITE ADDRESS:

MONOPOLE TOWER

SITE TYPE:

MARKET:

CASTLE

NORTHERN CONNECTICUT

SHEET TITLE

SEET 26:

TITLE SHEET & PROJECT DATA

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1.2 RELATED DOCUMENTS

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1.4 NATIONALLY RECOGNIZED CODES AND STANDARDS

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GR-83-CORE NEBS REQUIREMENTS: PHYSICAL PROTECTION

CR-78-CORE GENERIC REQUIREMENTS FOR THE PRINSIAL DESIGN AND MAULY-ACTURE OF TELECOMMERCATIONS EXPENSIVE.

GR-1089 CORE, ELECTROMONERO COMPARRITY AND ELECTRON, SVETY - GENERIC CRIETA FOR NEWDORK TELECOMMUNICATIONS EXCIPLENT.

NATIONAL FIRE PROTECTION ASSOCIATION CODES AND STANDARDS (NETA) INCLIDING NETA 70 (NATIONAL ELECTRODAL CODE — "NET") AND NETA 101 (LIFE SALETY CODE).

AMERICAN SOCIETY FOR TESTING OF MATERIALS (ASTA)

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AMERICAN CONCRETE INSTITUTE (ACI)

AMERICAN WIRE PRODUCERS ASSOCIATION (AMPA)

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1.14 METHODS OF PROCEDURE (MOPS) FOR CONSTRUCTOR. CONTRACTOR SHALL MOTOR WAS DESCRIBED IN THE FOLLOWING MOTOR AND COMMESSIVEN MORE TO A CONTRACTOR WAS DESCRIBED.

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PART 2 - PRODUCTS (NOT USED) PART 3 - EXECUTION

16. APPLICABLE BUILDING CODES INCLUSING UNITION GIRLDING CODE, SOUTHERN BUILDING CODE, BOCK, AND THE WITSHAMFOWN, BURDING CODE.

18. OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA)

17. DOOR AND HARDWARE UNSTITUTE (DHI)

18. SPEET METAL AND AR CONDITIONING CONTRACTORS' MATIGMAN (SMACKA)

15. WITCHM, ROOFNIZ CONTRACTORS ASSOCIATION (WRDA)

12, IMPRIMIL CONCRETE MASONRY ASSOCIATION (NOM)

13. BRICK INDUSTRY ASSOCIATION (BIA) 14. AMERICAN WELDING SOCIETY (AWS)

11. PORTLAND CEMENT ASSOCIATION (PCA)

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COMPANY: SPIGNT CORPORATION

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SECTION 91 200 - COMPANY FURNISHED MATERIAL AND EQUIPMENT PART 1 - CENERAL

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Sprint,

FROM ZERO TO INFINIGY

033 Watervijet Shaker Rd | Albany, NY 12 Phanes 948-496-0750 | Fazi 912-540-021 VPW-12 Palliga en 145 AB Albing En-165

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B. SPARIC STANDARD CONSTRUCTION DEDUG FOR WIRELESS STESTARE MILLIDED IN AND MUDE A PART OF THESE SPECIFICATIONS ADDINITIES.

PART 2 - PRODUCTS (NOT USED) PART 3 - EXECUTION

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2. VEIGT COMPLETENESS AND CONDITION OF ALL DELIVERES,

TAKE RESPONSERITY FOR EQUIPMENT AND PROVIDE INSURANCE PROTECTION AS REQUESTS IN AGREEMENT.

ENGINEERING LICENSE: --

4. REGION ANY EXPLORED ON DAMAGES AND WITHIN THEMITY-FOUR HOURS AFTER MEANING, REPORT TO STRANG OR ITS DESIGNATED PROJECT REPRESENTATIVE OF MEANING.

 COORDINATE SATE AND SECURE TRANSPORTATION OF MATERIAL AND EQUIPMENT, DOLARGING AND OFF-LOUNG FROM CONTINUTION'S WAREHOUSE TO SITE. 5. PROVIDE SECURE AND NECESSARY MEATHER PROTECTED WARRHUISING.

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B. IF APPLICABLE, COMPLETE LOST/STOLEN/DAMAGED DOCUMENTATION REPORT AS TREESSARY IN ACCORDANCE WITH COMPANY POLITICE, AND AS DRESTED BY COMPANY.

C. UPLOND DOCUMENTATION AND SPRANT SITE IMPLICABILITY SYSTEM (SIMS) AND/OR PROVIDE MAD COPY DOCUMENTATION AS REQUESTED.

SECTION 01 300 - CELL SITE CONSTRUCTION CO. PART 1 - GENERAL

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1.2 REATED DOCUMENTS:

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A. NO WORK SHALL COMMENCE PROOF TO COMPANY'S WRITTEN NOTICE TO PROCEED AND THE ESSUANCE OF THE WORK ORDER. B. UPON RECENSARY TO PROVIDE SPROKE WITH AN OPERATIONAL WHILE'S FACIL

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PART 2 - PRODUCTS (NOT USED) PART 3 - EXECUTION

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NEW BRITAIN GRAVEL PIT

CT03XC083

115 NORTH MOUNTAIN ROAD NEW BRITAIN, CT 06053

SPRINT SPECIFICATIONS

CONTINUE FROM SP-1

- 1. PERFORM ANY REQUIRED SITE ENVIRONMENTAL METICATION
- PREPARE GROUND SITES; PROVINE DE-CRUBBING, AND ROUGH AND FINNE, GROUNG, AND COMPOUND SUMPACE TREGOMENTS.
- WANNE AND CONDUCT ALL ACTIVITIES FOR DISTALLATION OF UTILITIES BACLLODGE ELECTRICAL AND TELCS BACKHAUF.
- MSTALL UNDERGROUND FACKITES INCLEDING UNDERGROUND POWER AND COMMUNICATIONS CONDISING AND UNDERGROUND GROUNDING SYSTEM.

 - INSTALL ABOVE GROUND GROUNDING SYSTEMS.
- PROVIDE NEW HVAC INSTALLATIONS AND INCOFFICATIONS.
- DISTALL ROADS, ACCESS WAYS, CLIRBS AND DROADS AS INDICATED. MEDIL "H-FRANES", CABRETS AND SHELTERS AS MINICATED.
 - ACCOMPLISH REQUIRED MODIFICATION OF EXISTING FACILITIES.
- PROMDE ANTENNA SUPPORT STRUCTURE FOUNDATIONS.
 - PROVIDE SLABS AND EQUIPMENT PLATFORMS.
- INSTALL COMPOUND FENCING, SIGHT SHEEDING, LANDSCAPING AND ADDESS BARRERS.
 - 13. penyak inspection and laneral testing as required hereauster. 14. CONDUCT SITE RESISTANCE TO EARTH TESTING AS REQUIRED HENEDWATES
- 15. INSTALL FIXED GENERATOR SETS AND OTHER STANDOY POWER SOLLITIONS 18. INSTALL TOWERS, ANTENNA SUPPORT STRUCTURES AND PLATFORMS ON EXISTING TOWERS AS REQUIRED.
- 17. RETALL CELL STE RUXIOS, MCROWUNE, SPS, CONTRA, MARADIE, ANTENNAS, CROSS BAND COLDUERS, TOWER TOP AMPLIFERS, LUW NOSS, AMPLIFERS, AND RELYTHE EXCHANGER.
- 16. PERFORM, DOCIMENT, AND CLOSE OUT ANY CONSTRUCTION COMPINED. DOCUMENTS ALSO LONGOMENT ALSONOSES AND LANDARD BY GOVERNMENT ALSONOSES AND
- 19, PERFORM ANTENNAL AND COAK SWEEP TESTING AND MAKE ANY AND ALL NECESSARY CORRECTIONS.
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- C. CONTRACTOR SHALL TAKE ALL REASONABLE PREDALITIONS TO DISCOMER AND LOCATE ANY HAZARDOUS CONDITION.
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- D. CONTRACTOR'S ACTIVITIES SHALL BE RESTRICTED TO THE PROJECT LIMITS, SHOULD RESS CURRED THE PROJECT WIS ACTIVITIES. CONTRACTOR SHALL INACTIVITIES, RETURN THEN TO CONTRACTOR SHALL INACTIVITIES, RETURN THEN TO GREAT CONTRIBUTION.
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- A. CONTRACTOR STALL ROUBY, APPROVE, AND SUBACT TO SPROVE SUPPLIENDED TO SUBACT DESCRIPTION FREQUETER.
- R. PROVIDE COCLIMENTATION INCLIMENCE, BUT NOT LIMITED TO, THE FOLLOWING. DOCLIMENTATION SHALL BE FORWANDED IN ORIGINAL FORMAT AND/OR UPLIANCED IN ORIGINAL FORMAT AND/OR UPLIANCED IN SAILS.
- 1. ALL CORRESPONDENCE AND PRELIMBARY CONSTRUCTION REPORTS.
- CMI, CONSITMENTON START DATE (POPULATE FIELD IN SMS AND/OR FOREWARD MOTENSATION). PROJECT PROCRESS REPORTS.
 - electrical service completion date (populate field in Sas And/OR Forward notification).

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 - POWER NSDAL DATE (POPRAZE FEDD IN SAS AMJÁR FUNDAD) NOTRCHONÓ,
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- PPC (OR SHEETS) INSTALL DATE (POPULATE (PEL) IN SAIS AND/OR FORMA NORFENERAL)
 - tower constitucions start date (populate held in Sais Ard/dir Formaco notescation).
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- 12. NETWORK OPERATORS HANDOFF CRECKLEF (RICHORLA) COMPLETE (UPLIND FORM IN SMS)
 - CARL, CARCINGTON COMPLETE DATE (POPILATE FEED IN SITS AND/OR FROMMSD MUSICIONIDA).

 - 14. STE CONSTRUCTOR PROGRESS PRISTS UNLONGED BOD SHS.

RECTION OF 400 - SUBMITMES & TESTS PART 1 - GENERAL

- 1.1 THE WORK THESE STANDARD CONSTRUCTING SPECIFICATIONS IN CONCENSION WITH THE CONTRICT DECLARATION OF CONSTRUCTION TOWNERS RECEIVE THE WORK TO BE DESCRIBED BY THE CONTRICTION.
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- B. STRAT STRADNED CONSTRUCTION CEDALS FOR WIGHERS STESS AND MICHDED # AND MUDE A PART OF THESE SPECIFICATIONS HERBITARY.
- A. THE WORK IN ALL ASPELLS SENT, COMPLY WITH THE CONSTITUTION CON-AND TREES SPECIFICATIONS.

1.3 SUBMITMS

- B. SUBJECT THE FOLLOWING TO COMPANY REPRESENTANCE FOR APPROVAL.
- 1. CONTRETE MIX-DESIGNS FOR TOWER FOXED/MONE, ANCHORS PIERS, AND CONCRETE PRINTS.
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1.5 REESPOICHE PERFORM ALL WREGRANDOM ACTAMITIES AS RETUINED BY APPLICABLE MORE

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1.5 COMMISSIONING: PERFORM ALL COMMISSIONING AS REQUIRED BY APPLICABLE MOP.

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NEW BRITAIN GRAVEL PIT

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3.3 REQUIRED REPECTIONS

115 NORTH MOUNTAIN ROAD NEW BRITAIN, CT 06053

SPRINT SPECIFICATIONS

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- 7. VERBICATION DOCUMENTED WITH THE AVIDAMA CHECKLIST REPORT, BY ARE, SITE DEVELOPMENT REP, OR HF REP.
- B. FINAL ANSPECTION CHEMICST AND HANDOFF WARK (HOLD). SIGNED FORMS SHOWING ACCEPTANCE BY FIELD OPS IS TO BE UPLOADED INTO SMS.
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- 10. SCANF-ABLE BARGODE PHOTOGRAPHS OF TOWER TOP AND SHADESCENIE. SERVALIZED EQUIPMENT
- 12. PDF SCAN OF REDIDNES PRODUCED IN PIELD 11, ALL AVALABLE AURISDICTIONAL INFORMATION
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- 1. CONCRETE AID AND CYLINDER BREAK REPORTS.
- 2. STRUCTURAL BACKFILL COMPACTION REPORTS.
- 4. ANTENNA AZMUTH AND DOWN TILT VERSTOATION 3. SITE RESISTANCE TO EARTH TEST.
- TOWER ERECTION REPECTIONS AND MEASUREMENTS DOCUMENTING TOWER RISTALLED PER SUPPLIEY'S REQUIREMENTS AND THE APPLIABLE SECTIONS.
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- B. SPRINT 'STANDARD COARSTRUCTOR DETAILS FOR BERLESS SIEST-ARE MILLIOSD BY AND MADE A PART OF THESE SPECIALITIES HEROEFFICE.
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 - 3.5 WEEKLY REPORTS
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- S. BULLING/BATE DARK FROM RIVE FOR TENNET WERCHELEDES OR COMMENTS 9. SHELTER FAMOUROW—FORMS AND STEEL BEHOLD FOLKING.
 - - IG. SYSTIER FISHBOOTION POLIE WITH VERNOOR IN LEE.
- 12. PLATFORM MECHANICAL COMMECTIONS TO TOMERACKOPOLE. 11. COOK CHREE ENTRY MED SHETTER.
- 13. ROOFTOP PAE, AND POST CONSTRUCTION PROTOS TO INCLUDE PENETHATION AND BURGARIA CERBIE.
- 14. PHOTES OF TOPER TOP COME LINE COLOR COOMS AND COLOR COOMS AT GROUND LEME.
- 15. PHUTOS OF ALL APPROPRIATE COMPIONY OR REGULACION STRAIGHT
- 16. Printos Of Ediaphen Bolt Dorm Medic Spetter.
- 17. PORTH AND TELCH SUDANTE TO COMPANY BROLOGING AND PORTH AN TELCH SUPPLY LOCKTOMS WILLIOMS MERRY/DISCHONISTE.
- 18. ELECTRICAL TRIBUX(S) WITH FIRE-BROKED TAPE WENDER FUNCTION BROKEN 18. ELECTRICAL TRENCHES) WITH ELECTRICAL / CONDUIT BEFORE BACKERL
 - 20. TELCO TRENCH WITH TELEPHONE / CONDUIT BETONE BACKELL.
- 22, Steller Ground-Ring Trench with Ground-Hing Refore Backfill (Savin all can weigs and head radio. 2), TELES TRENESH WITH FIRE-ENCINED TAPE BEFORE PURIFIER BACKSELL.

 - 23. TOMER GROUND-RING TREMEN WITH GROUND-WHE BEFORE BACKRIL (SACH ALL CAD WEIDS AND HEIDS BANK).

- 25. AL BIS GROUND CONNECTIONS.
 - 28. ALL GROUND TEST WELLS.
- 27, MITCHEN GROUND BAR AND EQUIPMENT CHOUND BAR.
- 28. ADDITIONAL GROUNDING POINTS ON TONERS ABOVE 200"

28. HMC UNITS WIXLIDING CONDENSERS ON SPLIT SYSTEMS

- 36. GPS ANTENNIAS.
- 31. CARLE TRAY AND/OR WINEDLANDE BREDGE. 32, DOCHOUSE/CARLE EXIT FROM ROOF.
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- 36. ELECTRICAL DISTRIBUTION WALL
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- 38. COLCK NEATHERPROGRAGE—TOP AND BUTTOM OF TON
- 4a. COKK GROUNDING —TOP AND BOTTOM OF TOWER
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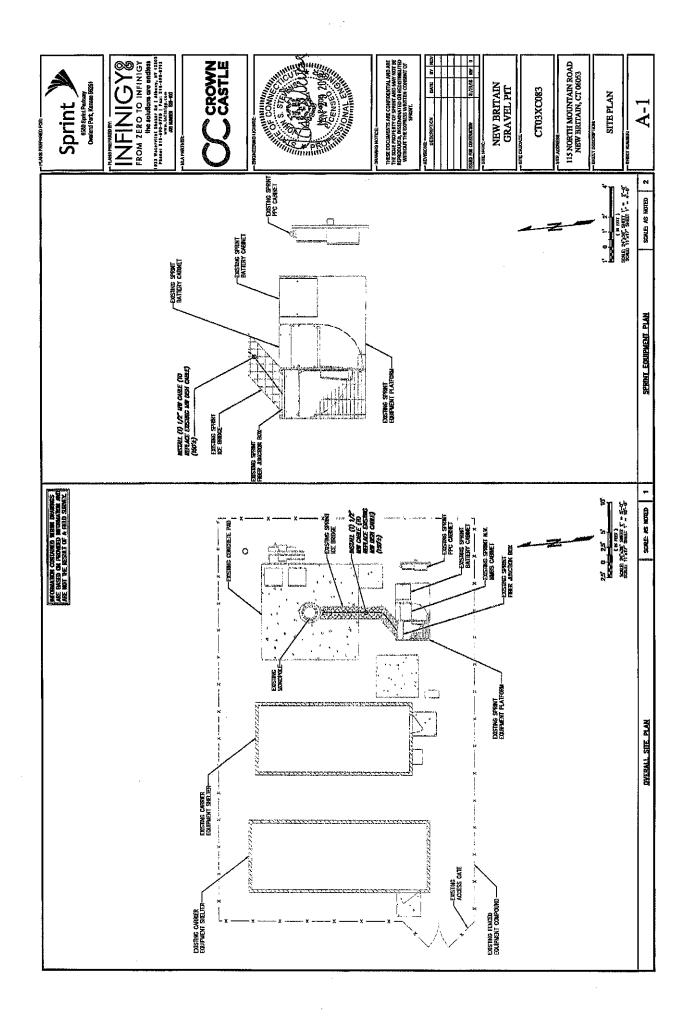
NEW BRITAIN GRAVEL PIT

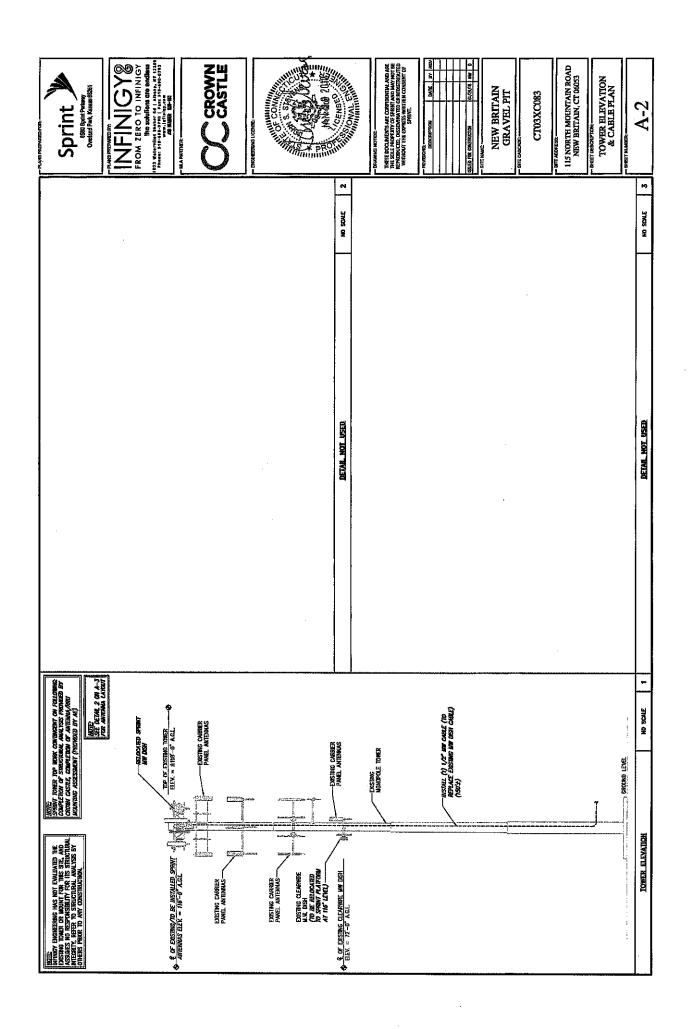
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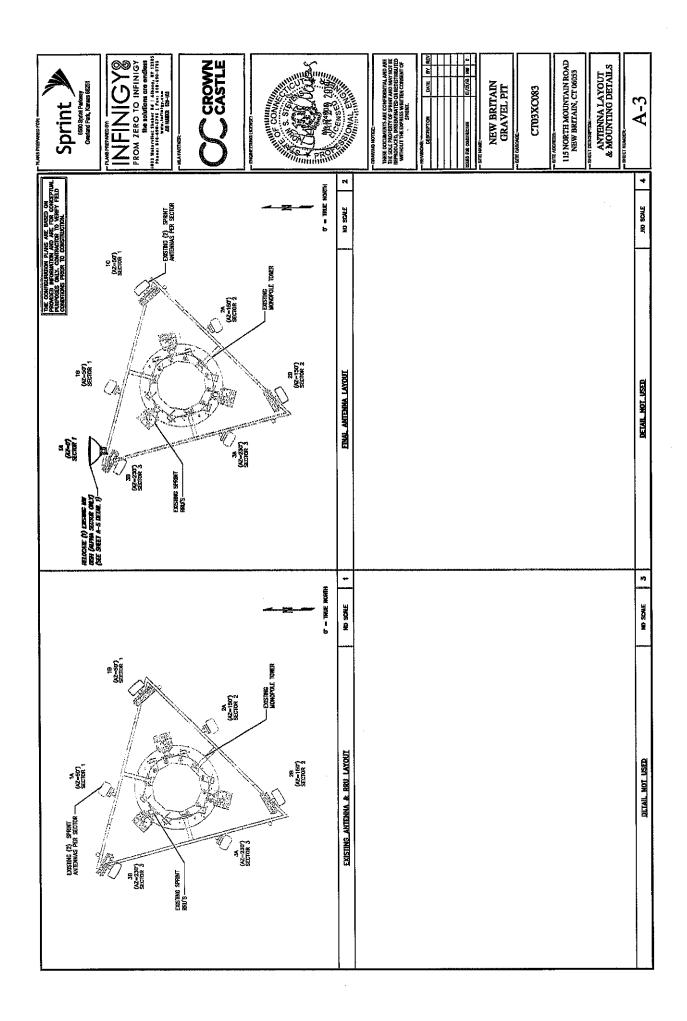
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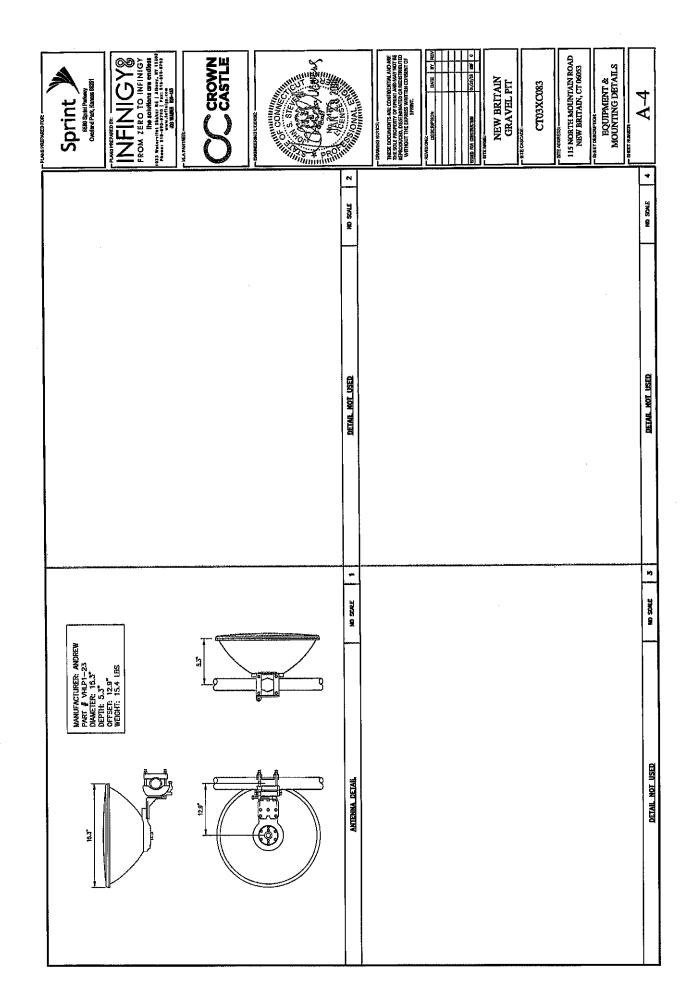
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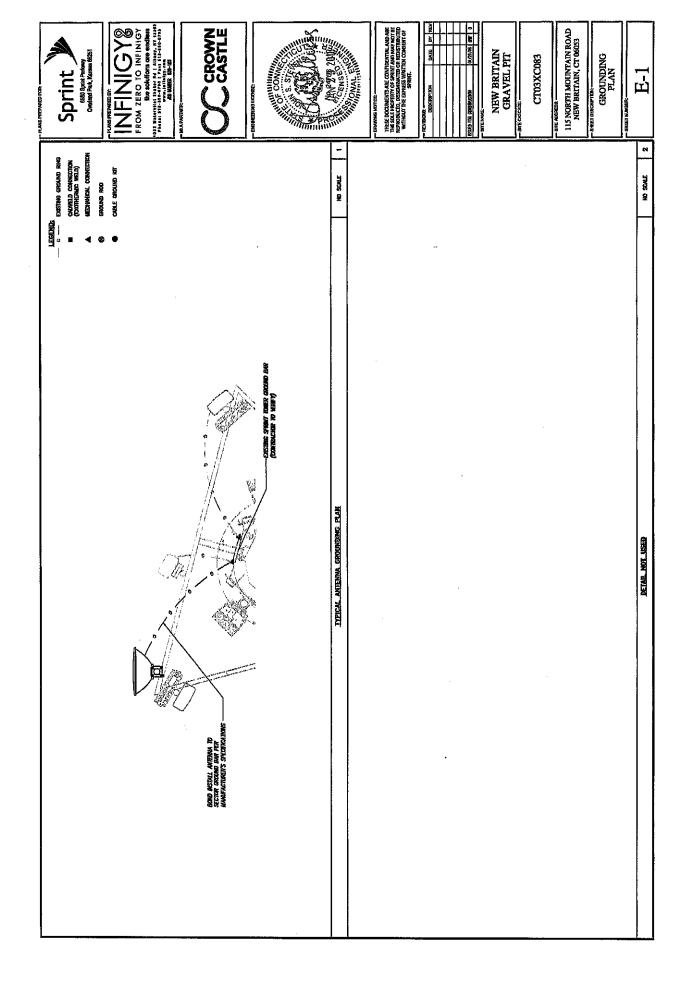
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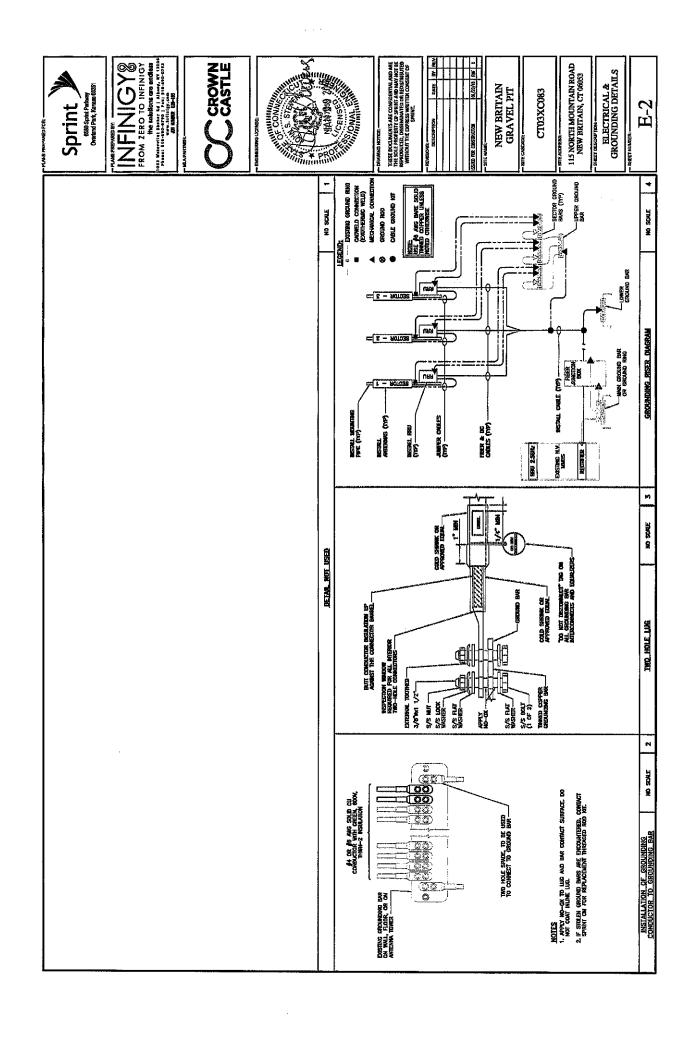














Date: March 22, 2018

Marianne Dunst Crown Castle 3530 Toringdon Way Suite 300 Charlotte, NC 28277 (704)-405-6850

Paul J. Ford and Company 250 East Broad st., Suite 600 Columbus, OH 43215 (614) 221-6679 skadam@pjfweb.com

Subject:

Structural Analysis Report

Carrier Designation:

Sprint PCS Co-Locate Carrier Site Number: Carrier Site Name:

CT03XC083 CT03XC083

Crown Castle Designation:

Crown Castle BU Number:

876331

Crown Castle Site Name:

NEW BRITAIN GRAVEL PIT 450509

Crown Castle JDE Job Number: **Crown Castle Work Order Number:** Crown Castle Application Number:

1539492 399155 Rev. 5

Engineering Firm Designation:

Paul J. Ford and Company Project Number: 37518-1085.001.7805

Site Data:

115 North Mountain Rd. NEW BRITAIN, Hartford County, CT

Latitude 41° 40' 35.72", Longitude -72° 49' 17.09"

118 Foot - Monopole

Dear Ms. Dunst,

Paul J. Ford and Company is pleased to submit this "Structural Analysis Report" to determine the structural integrity of the above-mentioned 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 1160641, in accordance with application 399155, revision 5.

The purpose of the analysis is to determine acceptability of the tower stress level. Based on our analysis we have determined the tower stress level for the structure and foundation, under the following load case, to be:

LC7: Existing + Reserved + Proposed Equipment

Sufficient Capacity

Note: See Table I and Table II for the proposed and existing/reserved loading, respectively.

This analysis has been performed in accordance with the 2016 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph converted to a nominal 3-second gust wind speed of 97 mph per Section 1609.3 and Appendix N as required for use in the ANSI/TIA-222-G-2005 Standard, "Structural Standard for Antenna Supporting Structures and Antennas", with ANSI/TIA-222-G-1-2007 and ANSI/TIA-222-G-2-2009 Addenda per Exception #5 of Section 1609.1.1. Risk Category II, Exposure Category C and Topographic Category 1 with a maximum Topographic Factor, Kzt, of 1 were used in this analysis.

We at Paul J. Ford and Company appreciate the opportunity of providing our continuity projects to you and Crown Castle. If you have any questions or need further assistance on this or any projects you and Crown Castle. If you have any questions or need further assistance on this please give us a call.

Respectfully submitted by:

Shardul Kadami Project Engineer

tnxTower Report - version 7.0.5.1

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Date: March 22, 2018

Marianne Dunst Crown Castle 3530 Toringdon Way Suite 300 Charlotte, NC 28277 (704)-405-6850

Paul J. Ford and Company 250 East Broad st., Suite 600 Columbus, OH 43215 (614) 221-6679 skadam@pjfweb.com

Subject:

Structural Analysis Report

Carrier Designation:

Sprint PCS Co-Locate Carrier Site Number: Carrier Site Name:

CT03XC083 CT03XC083

Crown Castle Designation:

Crown Castle BU Number:

876331

Crown Castle Site Name: Crown Castle JDE Job Number: **NEW BRITAIN GRAVEL PIT** 450509

Crown Castle Work Order Number: Crown Castle Application Number:

1539492 399155 Rev. 5

Engineering Firm Designation:

Paul J. Ford and Company Project Number: 37518-1085.001.7805

Site Data:

115 North Mountain Rd, NEW BRITAIN, Hartford County, CT

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

Respectfully submitted by:

Shardul Kadam Project Engineer I

tnxTower Report - version 7.0.5.1

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Additional Calculations

1) INTRODUCTION

This tower is a 118 ft Monopole tower designed by ROHN in October of 1996. The tower was originally designed for a wind speed of 85 mph per TIA/EIA-222-E.

2) ANALYSIS CRITERIA

This analysis has been performed in accordance with the 2016 Connecticut State Building Code based upon an ultimate 3-second gust wind speed of 125 mph converted to a nominal 3-second gust wind speed of 97 mph per Section 1609.3 and Appendix N as required for use in the ANSI/TIA-222-G-2005 Standard, "Structural Standard for Antenna Supporting Structures and Antennas", with ANSI/TIA-222-G-1-2007 and ANSI/TIA-222-G-2-2009 Addenda per Exception #5 of Section 1609.1.1. Risk Category II, Exposure Category C and Topographic Category 1 were used in this analysis.

Table 1 - Proposed Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
		3	alcatel lucent	TD-RRH8x20-25			
		1	andrew	VHLP1-23			
114.0	116.0	3	rfs celwave	APXVTM14-C-120 w/ Mount Pipe	1 1	1-1/4 1/2	-
		1	samsung telecommunications	WIMAX DAP HEAD			

Table 2 - Existing and Reserved Antenna and Cable Information

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note
		3	alcatel lucent	800MHz 2X50W RRH W/FILTER			
116.0	116.0	3 alcatel lucent 65MHz		PCS 1900MHz 4x45W- 65MHz	-	-	1
		1	tower mounts	Pipe Mount [PM 601-3]			
	116.0	1	rfs celwave	APXV9ERR18-C-A20 w/ Mount Pipe			
114.0	110.0	2	rfs celwave	APXVSPP18-C-A20 w/ Mount Pipe	3	1 1/4	1
	114.0	1	tower mounts	Platform Mount [LP 502-1]			
·		3	commscope	LNX-6515DS-VTM w/ Mount Pipe			
		3	ericsson	ERICSSON AIR 21 B2A B4P w/ Mount Pipe	. –	7/8 1 5/8	1
108.0	108.0	3	ericsson	ERICSSON AIR 21 B4A B2P w/ Mount Pipe	12 1		
		3	ericsson	KRY 112 144/1			
		3	ericsson	RRU\$ 11 B12]		İ
		1	tower mounts	Sector Mount [SM 801-3]			
		2	cci antennas	HPA-65R-BUU-H6 w/ Mount Pipe			
		1	cci antennas	HPA-65R-BUU-H8 w/ Mount Pipe			
		3	ericsson	RRUS 32 B2	-	-	2
		6	powerwave technologies	7020.00			
		3	powerwave technologies	TT19-08BP111-001			
98.0	98.0	1	andrew	SBNH-1D6565C w/ Mount Pipe			
		3	communication components inc.	DTMABP7819VG12A			
	,	3	ericsson	RRUS 11 B12	1	3/8	
		2	kmw communications	AM-X-CD-16-65-00T-RET w/ Mount Pipe	12 2	7/8 3/4	1
		3	powerwave technologies	7770.00 w/ Mount Pipe			
		1	raycap	DC6-48-60-18-8F			
		1	tower mounts	Platform Mount [LP 712-1]			
		3	alcatel lucent	RRH2X60-AWS			
		3	alcatel lucent	RRH2X60-PCS			
85.0	86.0	6	andrew	CBC721-DF	13	1-5/8	1
		6	andrew	HBXX-6517DS-A2M w/ Mount Pipe			

Mounting Level (ft)	Center Line Elevation (ft)	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)	Note	
		2	antel	BXA-70040-6CF-EDIN-2 w/ Mount Pipe				
		4	antel	BXA-70063-6CF-2 w/ Mount Pipe				
		1	rfs celwave	DB-B1-6C-12AB-0Z				
	85.0	1	tower mounts	Platform Mount [LP 303-1]				
	81.0	1	lucent	KS24019-L112A				
80.0	80.0	1	tower mounts	Side Arm Mount [SO 701-1]	1	1/2	1	
	74.0	2	argus technologies	LLPX310R w/ Mount Pipe				
		74.0	74.0	dragonwave	HORIZON COMPACT	_	_	1
		1	samsung telecommunications	WIMAX DAP HEAD			•	
		1	andrew	VHLP1-23				
72.0	73.0		samsung telecommunications	WIMAX DAP HEAD	-	-	3	
12.0		1	argus technologies	LLPX310R w/ Mount Pipe				
		1	dragonwave	A-ANT-18G-2-C				
		1	dragonwave	HORIZON COMPACT	3	1/4	Ì	
	72.0	1	samsung telecommunications	WIMAX DAP HEAD	3 1	5/8 1/2	1	
		1	tower mounts	Side Arm Mount [SO 101-3]				

Notes:

1) 2) 3)

Existing Equipment Reserved Equipment Equipment Relocated to 114' Elevation

Table 3 - Design Antenna and Cable Information

Mounting Level (ft)	Flavation	Number of Antennas	Antenna Manufacturer	Antenna Model	Number of Feed Lines	Feed Line Size (in)
-	-	-	-	-	-	-

3) ANALYSIS PROCEDURE

Table 4 - Documents Provided

Document	Remarks	Reference	Source
GEOTECHNICAL REPORTS	FDH, 07-11435G, 01/23/2008	2192549	CCISITES
POST-MODIFICATION INSPECTION	TEP, 126879, 03/07/2013	3684848	CCISITES
TOWER FOUNDATION DRAWINGS/DESIGN/SPECS	Rohn, 34738SW, 10/24/1996	1947809	CCISITES
TOWER MANUFACTURER DRAWINGS	Rohn, 34738SW, 10/24/1996	1947800	CCISITES
POST-MODIFICATION INSPECTION	SGS, 145041, 11/21/2014	5407775	CCISITES
POST-MODIFICATION INSPECTION	SGS, 146127, 3/12/2015	5596857	CCISITES
POST-MODIFICATION INSPECTION	TEP, 25663.40942, 3/9/2016	6131239	CCISITES
TOWER REINFORCEMENT DESIGN/DRAWINGS/DATA	PJF, 41707-0508, 5/23/2008	2268906	CCISITES

3.1) Analysis Method

tnxTower (version 7.0.5.1), a commercially available analysis software package, was used to create a three-dimensional model of the tower and calculate member stresses for various loading cases. Selected output from the analysis is included in Appendix A.

3.2) Assumptions

- 1) Tower and structures were built in accordance with the manufacturer's specifications.
- 2) The tower and structures have been maintained in accordance with the manufacturer's specification.
- 3) The configuration of antennas, transmission cables, mounts and other appurtenances are as specified in Tables 1 and 2 and the referenced drawings.
- 4) Monopole was reinforced in conformance with the referenced modification drawings.

This analysis may be affected if any assumptions are not valid or have been made in error. Paul J. Ford and Company should be notified to determine the effect on the structural integrity of the tower.

4) ANALYSIS RESULTS

Table 5 - Section Capacity (Summary)

Table 5 - Section Capacity (Summary)						
Elevation (ft)	Component Type	Size	Critical Element	% Capacity	Pass / Fail	
118 - 113	Pole	TP24x24x0.25	Pole	3.5%	Pass	
113 - 108	Pole	TP24x24x0.25	Pole	10.6%	Pass	
108 - 103	Pole	TP24x24x0.25	Pole	23.9%	Pass	
103 - 98	Pole	TP24x24x0.25	Pole	37.4%	Pass	
98 - 93	Pole	TP24x24x0.25	Pole	58.2%	Pass	
93 - 90	Pole	TP24x24x0.25	Pole	70.5%	Pass	
90 - 85	Pole	TP24x24x0.375	Pole	58.5%	Pass	
85 - 80	Pole	TP24x24x0.375	Pole	77.7%	Pass	
80 - 76.5	Pole	TP24x24x0.375	Pole	90.8%	Pass	
76.5 - 76.25	Pole + Reinf.	TP24x24x0.5875	Reinf. 18 Tension Rupture	66.2%	Pass	
76.25 - 74	Pole + Reinf.	TP24x24x0.5875	Reinf. 18 Tension Rupture	72.4%	Pass	
74 - 73.75	Pole + Reinf.	TP24x24x0.8375	Reinf. 18 Tension Rupture	53.4%	Pass	
73.75 - 68.88	Pole + Reinf.	TP24x24x0.8375	Reinf. 18 Tension Rupture	63.8%	Pass	
68.88 - 68.63	Pole + Reinf.	TP24x24x0.825	Reinf. 13 Tension Rupture	64.5%	Pass	
68.63 - 64.5	Pole + Reinf.	TP24x24x0.825	Reinf. 13 Tension Rupture	73.7%	Pass	
64.5 - 64.25	Pole + Reinf.	TP24x24x1.025	Reinf, 9 Compression	67.4%	Pass	
64.25 - 63	Pole + Reinf.	TP24x24x1.025	Reinf. 9 Compression	70.0%	Pass	
63 - 62.75	Pole + Reinf.	TP24x24x0.9625	Reinf. 12 Tension Rupture	73.6%	Pass	
62.75 - 60	Pole + Reinf.	TP24x24x0.9625	Reinf. 12 Tension Rupture	79.6%	Pass	
60 - 59.75	Pole + Reinf.	TP30x30x0.6375	Pole	64.3%	Pass	
59.75 - 54.75	Pole + Reinf.	TP30x30x0.6375	Pole	73.4%	Pass	
54.75 - 49.75	Pole + Reinf.	TP30x30x0.6375	Pole	82.8%	Pass	
49.75 - 49.25	Pole + Reinf.	TP30x30x0.6375	Pole	83.7%	. Pass	
49.25 - 49	Pole + Reinf.	TP30x30x0.7875	Reinf. 17 Tension Rupture	76.0%	Pass	
49 - 44	Pole + Reinf.	TP30x30x0.7875	Reinf. 17 Tension Rupture	84.7%	Pass	
44 - 42	Pole + Reinf.	TP30x30x0.7875	Reinf. 17 Tension Rupture	88.3%	Pass	
42 - 41.75	Pole + Reinf.	TP30x30x0.9125	Reinf. 11 Tension Rupture	78.8%	Pass	
41.75 - 36.75	Pole + Reinf.	TP30x30x0.9125	Reinf. 11 Tension Rupture	86.9%	Pass	
36.75 - 34.5	Pole + Reinf.	TP30x30x0.9125	Reinf. 11 Tension Rupture	90.6%	Pass	
34.5 - 34.25	Pole + Reinf.	TP30x30x1.025	Reinf. 8 Compression	82.2%	Pass	
34.25 - 34	Pole + Reinf,	TP30x30x1.025	Reinf. 8 Compression	82.6%	Pass	
34 - 33.75	Pole + Reinf.	TP30x30x0.925	Reinf. 8 Compression	93.1%	Pass	
33.75 - 30	Pole + Reinf.	TP30x30x0.925	Reinf. 8 Compression	99.5%	Pass	
30 - 29.75	Pole + Reinf.	TP36x36x0.6875	Pole	80.8%	Pass	
29.75 - 28.5	Pole + Reinf.	TP36x36x0,6875	Pole	82.5%	Pass	
28.5 - 28.25	Pole + Reinf.	TP36x36x0.8375	Reinf. 16 Tension Rupture	70.1%	Pass	

tnxTower Report - version 7.0.5.1

	+	1			ı
28.25 - 23.25	Pole + Reinf.	TP36x36x0.8375	Reinf. 16 Tension Rupture	76.2%	Pass
23.25 - 23	Pole + Reinf.	TP36x36x0.95	Reinf. 16 Tension Rupture	69.6%	Pass
23 - 21.5	Pole + Reinf.	TP36x36x0.95	Reinf. 16 Tension Rupture	71.3%	Pass
21.5 - 21.25	Pole + Reinf.	TP36x36x0.8	Pole	84.7%	Pass
21.25 - 19	Pole + Reinf.	TP36x36x0.8	Pole	87.7%	Pass
19 - 18.75	Pole + Reinf.	TP36x36x0.95	Pole	73.8%	Pass
18.75 - 18.5	Pole + Reinf.	TP36x36x0.95	Pole	74.1%	Pass
18.5 - 18.25	Pole + Reinf.	TP36x36x0.85	Pole	80.9%	Pass
18.25 - 13.25	Pole + Reinf.	TP36x36x0.85	Pole	87.1%	Pass
13.25 - 12.7	Pole + Reinf.	TP36x36x0.85	Pole	87.8%	Pass
12.7 - 12.45	Pole + Reinf.	TP36x36x0.85	Pole	89.6%	Pass
12.45 - 11.5	Pole + Reinf.	TP36x36x0.85	Pole	90.8%	Pass
11.5 - 11.25	Pole + Reinf.	TP36x36x0.9	Reinf. 4 Compression	87.0%	Pass
11.25 - 10.5	Pole + Reinf.	TP36x36x0.9	Reinf. 4 Compression	87.9%	Pass
10.5 - 10.25	Pole + Reinf.	TP36x36x1.35	Reinf. 24 Compression	82.8%	Pass
10.25 - 7.5	Pole + Reinf.	TP36x36x1.35	Reinf. 24 Compression	86.0%	Pass
7.5 - 7.25	Pole + Reinf.	TP36x36x1.4	Reinf. 24 Compression	83.9%	Pass
7.25 - 6.25	Pole + Reinf.	TP36x36x1.4	Reinf. 24 Compression	85.1%	Pass
6.25 - 6	Pole + Reinf.	TP36x36x1.425	Reinf. 24 Compression	85.2%	Pass
6 - 3.73	Pole + Reinf.	TP36x36x1.8	Reinf. 24 Compression	72.5%	Pass
3.73 - 3.48	Pole + Reinf.	TP36x36x1.8	Reinf. 24 Compression	72.7%	Pass
3.48 - 2.75	Pole + Reinf.	TP36x36x1.8	Reinf. 24 Compression	73.4%	Pass
2.75 - 2.5	Pole + Reinf.	TP36x36x1.675	Reinf. 24 Compression	78.8%	Pass
2.5 - 2	Pole + Reinf.	TP36x36x1.675	Reinf. 24 Compression	79.3%	Pass
2 - 1.75	Pole + Reinf.	TP36x36x1.475	Reinf. 24 Compression	88.0%	Pass
1.75 - 0	Pole + Reinf.	TP36x36x1.475	Reinf. 24 Compression	90.0%	Pass
	₩			Summary	
			Pole	90.8%	Pass
			Reinforcement	99.5%	Pass
	The state of the s	- 0101 - CURUY-UU 01 - 5/1 - 111 - CUSHO (4 1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0	Overall	99.5%	Pass

Table 6 - Tower Component Stresses vs. Capacity - LC7

Notes	Component	Elevation (ft)	% Capacity	Pass / Fail
1	Flange Connection	90	36.8	Pass
1	Flange Connection	60	77.8	Pass
1	Flange Connection	30	72.8	Pass
1	Anchor Rods	0	82.2	Pass
1	Base Plate	0	75.4	Pass
1	Base Foundation Steel	0	70.7	Pass
1	Base Foundation Soil Interaction	0	58.1	Pass

Structure Rating (max from all components) =	99.5%
	33.376

Notes:

4.1) Recommendations

The monopole and its foundation have sufficient capacity to carry the proposed loading configuration. No modifications are required at this time.

See additional documentation in "Appendix C – Additional Calculations" for calculations supporting the % capacity consumed.



RADIO FREQUENCY EMISSIONS ANALYSIS REPORT EVALUATION OF HUMAN EXPOSURE POTENTIAL TO NON-IONIZING EMISSIONS

SPRINT Existing Facility

Site ID: CT03XC083

New Britain Gravel Pit 115 North Mountain Road New Britain, CT 06053

April 24, 2018

EBI Project Number: 6218002920

Site Compliance Summary				
Compliance Status:	COMPLIANT			
Site total MPE% of				
FCC general	22.91 %			
population	ZZ.31 70			
allowable limit:				



April 24, 2018

SPRINT Attn: RF Engineering Manager 1 International Boulevard, Suite 800 Mahwah, NJ 07495

Emissions Analysis for Site: CT03XC083 – New Britain Gravel Pit

EBI Consulting was directed to analyze the proposed SPRINT facility located at **115 North Mountain Road, New Britain, CT**, for the purpose of determining whether the emissions from the Proposed SPRINT Antenna Installation located on this property are within specified federal limits.

All information used in this report was analyzed as a percentage of current Maximum Permissible Exposure (% MPE) as listed in the FCC OET Bulletin 65 Edition 97-01and ANSI/IEEE Std C95.1. The FCC regulates Maximum Permissible Exposure in units of microwatts per square centimeter (μ W/cm2). The number of μ W/cm² calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

All results were compared to the FCC (Federal Communications Commission) radio frequency exposure rules, 47 CFR 1.1307(b)(1) – (b)(3), to determine compliance with the Maximum Permissible Exposure (MPE) limits for General Population/Uncontrolled environments as defined below.

General population/uncontrolled exposure limits apply to situations in which the general population may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Therefore, members of the general population would always be considered under this category when exposure is not employment related, for example, in the case of a telecommunications tower that exposes persons in a nearby residential area.

General population exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (μ W/cm²). The general population exposure limits for the 850 MHz Band is approximately 567 μ W/cm². The general population exposure limit for the 1900 MHz (PCS), 2500 MHz (BRS) and the 23 GHz microwave bands are 1000 μ W/cm². Because each carrier will be using different frequency bands, and each frequency band has different exposure limits, it is necessary to report percent of MPE rather than power density.

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Occupational/controlled exposure limits apply to situations in which persons are exposed as a consequence of their employment and in which those persons who are exposed have been made fully aware of the potential for exposure and can exercise control over their exposure. Occupational/controlled exposure limits also apply where exposure is of a transient nature as a result of incidental passage through a location where exposure levels may be above general population/uncontrolled limits (see below), as long as the exposed person has been made fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Additional details can be found in FCC OET 65.

CALCULATIONS

Calculations were done for the proposed SPRINT Wireless antenna facility located at 115 North Mountain Road, New Britain, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since SPRINT is proposing highly focused directional panel antennas, which project most of the emitted energy out toward the horizon, all calculations were performed assuming a lobe representing the maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was focused at the base of the tower. For this report the sample point is the top of a 6-foot person standing at the base of the tower.

For all calculations, all equipment was calculated using the following assumptions:

- 1) 1 CDMA channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 2) 2 LTE channels (850 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 3) 5 CDMA channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 16 Watts per Channel.
- 4) 2 LTE channels (1900 MHz (PCS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 40 Watts per Channel.
- 5) 8 LTE channels (2500 MHz (BRS)) were considered for each sector of the proposed installation. These Channels have a transmit power of 20 Watts per Channel.
- 6) 1 microwave backhaul channel (23 GHz) was analyzed for this facility. This channel has a transmit power of 1 Watt.



- 7) All radios at the proposed installation were considered to be running at full power and were uncombined in their RF transmissions paths per carrier prescribed configuration. Per FCC OET Bulletin No. 65 Edition 97-01 recommendations to achieve the maximum anticipated value at each sample point, all power levels emitting from the proposed antenna installation are increased by a factor of 2.56 to account for possible in-phase reflections from the surrounding environment. This is rarely the case, and if so, is never continuous.
- 8) For the following calculations, the sample point was the top of a 6-foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used in this direction. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 9) The antennas used in this modeling are the RFS APXV9ERR18-C-A20, RFS APXVSPP18-C-A20 and RFS APXVTM14-C-I20 for transmission in the 850 MHz, 1900 MHz (PCS) and 2500 MHz (BRS) frequency bands and the Andrew VHLP1-23 for the 23 GHz microwave backhaul. This is based on feedback from the carrier with regards to anticipated antenna selection. Maximum gain values for all antennas are listed in the Inventory and Power Data table below. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB for directional panel antennas and 20 dB for highly focused parabolic microwave dishes, was used for all calculations. This value is a very conservative estimate as gain reductions for these particular antennas are typically much higher in this direction.
- 10) The antenna mounting height centerlines of the proposed antennas are 116 feet above ground level (AGL) for Sector A, 116 feet above ground level (AGL) for Sector B and 116 feet above ground level (AGL) for Sector C.
- 11) Emissions values for additional carriers were taken from the Connecticut Siting Council active database. Values in this database are provided by the individual carriers themselves.

All calculations were done with respect to uncontrolled / general population threshold limits.

SPRINT Site Inventory and Power Data by Antenna

Sector:	Α	Sector:	В	Sector:	С
Antenna #:	1	Antenna#:	1	Antenna #:	1
Make / Model:	RFS APXV9ERR18-C- A20	Make / Model:	RFS APXVSPP18-C-A20	Make / Model:	RFS APXVSPP18-C-A20
Gain:	11.9 / 14.9 dBd	Gain:	13.4 / 15.9 dBd	Gain:	13.4 / 15.9 dBd
Height (AGL):	116 feet	Height (AGL):	116 feet	Height (AGL):	116 feet
Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)	Frequency Bands	850 MHz / 1900 MHz (PCS)
Channel Count	10	Channel Count	10	Channel Count	10
Total TX Power(W):	220 Watts	Total TX Power(W):	220 Watts	Total TX Power(W):	220 Watts
ERP (W):	5,873.76	ERP (W):	7,537.38	ERP (W)	7,537.38
Antenna A1 MPE%	1.96 %	Antenna B1 MPE%	2.54 %	Antenna C1 MPE%	2.54 %
Antenna#:	. 2	Antenna #:	2	Antenna #:	2
Maké / Model:	RFS APXVTM14-C-I20	Make / Model:	RFS APXVTM14-C-I20	Make / Model:	RFS APXVTM14-C-I20
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	116 feet	Height (AGL):	116 fcet	Height (AGL):	116 feet
Frequency Bands	2500 MHz (BRS)	Frequency Bands	2500 MHz (BRS)	Frequency Bands	2500 MHz (BRS)
Channel Count	8	Channel Count	8	Channel Count	8
Total TX Power(W):	160 Watts	Total TX Power(W):	160 Watts	Total TX Power(W):	160 Watts
ERP (W):	6,224.72	ERP(W):	6,224.72	ERP (W):	6,224.72
Antenna A2 MPE%	1.85 %	Antenna B2 MPE%	1.85 %	Antenna C2 MPE%	1.85 %

Microwave Backhaul Data								
Make / Model:	Gain	Height (AGL):	Frequency Bands	Channel Count	Total TX Power(W)	ERP (W)	MPE %	Sector
Andrew VHLP1-23	33.45 dBd	116	23 GHz	1	1	2,213.09	0.07	A

Site Composite MPE%					
Carrier	MPE%				
SPRINT - Sectors B & C	4.39 %				
AT&T	6.68 %				
Clearwire	0.43 %				
T-Mobile	2.65 %				
Verizon Wireless	8.76 %				
Site Total MPE %:	22.91 %				

SPRINT Sector A Total:	3.88 %
SPRINT Sector B Total:	4.39 %
SPRINT Sector C Total:	4.39 %
	the William Committee
Site Total:	22.91 %

SPRINT _ Frequency Band / Technology Max Power Values (Sectors B & C)	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (μW/cm²)	Frequency (MHz)	Allowable MPE (μW/cm²)	Calculated % MPE
Sprint 850 MHz CDMA	1	437.55	116	1.30	850 MHz	567	0.23%
Sprint 850 MHz LTE	2	437.55	116	2.60	850 MHz	567	0.47%
Sprint 1900 MHz (PCS) CDMA	5	622.47	116	9.25	1900 MHz (PCS)	1000	0.92%
Sprint 1900 MHz (PCS) LTE	2 .	1,556.18	116	9.25	1900 MHz (PCS)	1000	0.92%
Sprint 2500 MHz (BRS) LTE	8	778.09	116	18.49	2500 MHz (BRS)	1000	1.85%
				FARTURY.		Total:	4.39%



Summary

All calculations performed for this analysis yielded results that were within the allowable limits for general population exposure to RF Emissions.

The anticipated maximum composite contributions from the SPRINT facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general population exposure to RF Emissions are shown here:

SPRINT Sector	Power Density Value (%)		
Sector A:	3.81 %		
Sector B:	4.39 %		
Sector C:	4.39 %		
SPRINT Maximum	4.39 %		
Total (per sector):	4.39 %		
Site Total:	22.91 %		
Site Compliance Status:	COMPLIANT		

The anticipated composite MPE value for this site assuming all carriers present is **22.91** % of the allowable FCC established general population limit sampled at the ground level. This is based upon values listed in the Connecticut Siting Council database for existing carrier emissions.

FCC guidelines state that if a site is found to be out of compliance (over allowable thresholds), that carriers over a 5% contribution to the composite value will require measures to bring the site into compliance. For this facility, the composite values calculated were well within the allowable 100% threshold standard per the federal government.

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Zsamba, Anne Marie (Contractor)

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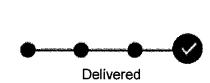
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Ship date: Mon, 4/30/2018 Rebecca Alescio Crown Castle Clifton Park,

NY 12065

US



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Ms. Erin

Stewart,

Mayor City of New Britain 27 West Main Street NEW BRITAIN, CT 06051 US

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982896

Reference:

1765.6680

Signed for by:

C.BAILEY

Delivery location:

NEW BRITAIN,

CT

Delivered to:

Receptionist/Front

Desk

Service type:

FedEx Priority

Overnight

Packaging type:

FedEx Pak

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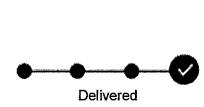
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City of New
Britain

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Our records indicate that the following package has been delivered.

Tracking number:

772108316720

Status:

Delivered:

05/02/2018 09:01 AM Signed for By:

C.BAILEY

Door Tag number:

DT104897134092

Invoice number:

982896

Reference:

1765.6680

Signed for by:

C.BAILEY

Delivery location:

NEW BRITAIN,

CT

Delivered to:

Receptionist/Front

Desk

Service type:

FedEx Priority

Overnight

Packaging type:

FedEx Pak

Number of pieces:

1

Weight:

1.00 lb.

Special

Adult Signature

handling/Services:

Required

Deliver Weekday

Standard transit:

5/1/2018 by 10:30

am

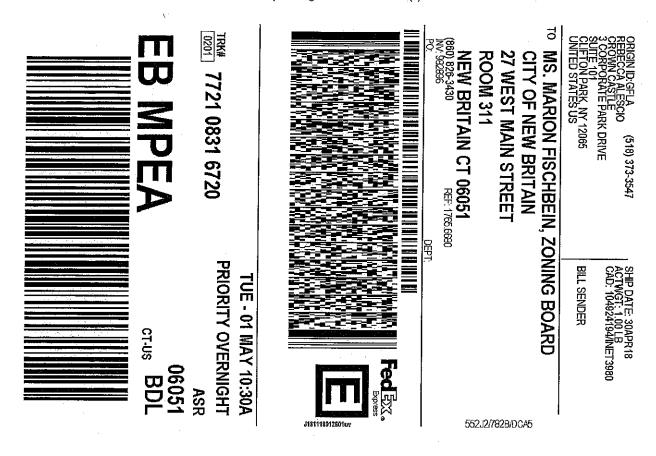
Please do not respond to this message. This email was sent from an unattended mailbox. This report was generated at approximately 8:04 AM CDT on 05/02/2018.

All weights are estimated.

To track the latest status of your shipment, click on the tracking number above. Standard transit is the date and time the package is scheduled to be delivered by, based on the selected service, destination and ship date. Limitations and exceptions may apply. Please see the FedEx Service Guide for terms and conditions of service, including the FedEx Money-Back Guarantee, or contact your FedEx Customer Support representative.

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Thank you for your business.



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2. Fold the printed page along the horizontal line.

3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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