

CRAIG CODY

16 Chestnut Street, Suite 420 Foxboro, MA 02035 Tel (781) 831-1281 ccody@trmcom.com

11/17/2015

Melanie Bachman Acting Executive Director Connecticut Siting Counsel 10 Franklin Square New Britain, CT 06051

Re: Notice of Exempt Modification 18 Titicus Mountain Road, New Fairfield 41.45070 / -73.51597

Dear Ms. Bachman:

T-Mobile Northeast, LLC (T-Mobile) currently maintains six (6) antennas at the One-Hundred Ninety Three foot (193') level of the existing One-Hundred Ninety foot tower at 18 Titicus Mountain Road, New Fairfield, CT. The tower is owned by American Tower Corporation. The property is also owned by American Tower. T-Mobile now intends to add Three (3) antennas with Three (3) new 700MHz antennas. These antennas would be installed at the One-Hundred Ninety (191') foot level of the tower. T-Mobile does not intend to remove any other equipment from the tower at this time.

This facility was not originally approved by the Connecticut Siting Council and was approved by the Board of Selectmen of the Town of New Fairfield on February 17th, 2000. The approval did not include any conditions.

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.C.S.A. § 16-50j-73 a copy of this letter is being sent to the Chief Elected Official, First Selectman, Susan Chapman for the Town of New Fairfield, as well as the property owner and the tower owner.

The planned modifications to the facility fall squarely within those activities provided for in R.C.S.A. § 50j-72(b)(2).

- 1) The proposed modification will not result in an increase in the height of the existing structure.
- 2) The modifications will not require an extension of the site boundary.
- 3) The proposed modification will not increase the noise levels at the facility by six decibels or more, or to levels that exceed state and local criteria.
- 4) The operation and replacement of antennas will not increase radio frequency emissions at the facility to a level at or above the Federal Communications Commission safety standard.
- 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, T-Mobile Northeast LLC respectfully submits that the proposed modifications to the above-referenced telecommunications facility constitute an exempt modification under R.C.S.A § 16-50j-72(b)(2)

Sincerely, Craig Cody

On behalf of American Tower Corporation c/o Tower Resource Management, Inc. 16 Chestnut Street, Suite 420 Foxboro, MA 02035 781-831-1281 ccody@trmcom.com

cc: Town of New Fairfield American Tower Corporation American Tower Corporation Exhibit 1

Site Plan

Exhibit 2

Power Density Report

Exhibit 3

Structural Analysis

T-MOBILE NORTH

CT11106A **NEW FAIRFIELD**

16 TITICUS MOUNT NEW FAIRFIELD, CT



GAS/OIL - YELLOW SURVEY

TEL/CATV - ORANGE

PINK

– PURPLE

PROPOSED EXCAVATION - WHITE

RECLAIMED WATER

GENERAL NOTES

. THE CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY, MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS, AND LOCAL AND STATE JURISDICTIONAL CODES BEARING ON THE PERFORMANCE OF THE WORK THE WORK PERFORMED ON THE PROJECT AND THE MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS AND ORDINANCES.

2. THE ARCHITECT/ENGINEER HAVE MADE EVERY EFFORT TO SET FORTH IN THE CONSTRUCTION AND CONSTRUCT DOCUMENTS THE COMPLETE SCOPE OF WORK. THE CONTRACTOR BIDDING THE JOB IS NEVERTHELESS CAUTIONED THAT MINOR OMISSIONS OR ERRORS IN THE DRAWINGS AND OR SPECIFICATIONS SHALL NOT EXCUSE SAID CONTRACTOR FROM COMPLETING THE PROJECT AND IMPROVEMENTS IN ACCORDANCE WITH THE INTENT OF THESE DOCUMENTS.

3. THE CONTRACTOR OR BIDDER SHALL BEAR THE RESPONSIBILITY OF NOTIFYING (IN WRITING) THE T-MOBILE REPRESENTATIVE OF ANY CONFLICTS, ERRORS, OR OMISSIONS PRIOR TO THE SUBMISSION OF THE CONTRACTOR'S PROPOSAL OR PERFORMANCE OF WORK. IN THE EVENT OF DISCREPANCIES, THE CONTRACTOR SHALL PRICE THE MORE COSTLY OR EXPENSIVE WORK, UNLESS DIRECTED IN WRITING OTHERWISE.

4. THE SCOPE OF WORK SHALL INCLUDE FURNISHING OF ALL MATERIALS, EQUIPMENT, LABOR AND ALL OTHER MATERIALS AND LABOR DEEMED NECESSARY TO COMPLETE THE WORK/PROJECT AS DESCRIBED HEREIN.

5. THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO THE SUBMISSION OF BIDS OR PERFORMING WORK TO FAMILIARIZE HIMSELF WITH THE FIELD CONDITIONS AND TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

6. THE CONTRACTOR SHALL OBTAIN AUTHORIZATION TO PROCEED WITH CONSTRUCTION PRIOR TO STARTING WORK ON ANY ITEM NOT CLEARLY DEFINED BY THE CONSTRUCTION DRAWINGS/CONTRACT DOCUMENTS.

7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS ACCORDING TO THE MANUFACTURER'S/VENDOR'S SPECIFICATIONS UNLESS NOTED OTHERWISE OR WHERE LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

8. THE CONTRACTOR SHALL PROVIDE A FULL SET OF CONSTRUCTION DOCUMENTS AT THE SITE UPDATED WITH THE LATEST REVISIONS AND ADDENDUM OR CLARIFICATIONS AVAILABLE FOR THE USE BY ALL PERSONNEL INVOLVED WITH THE PROJECT.

9. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE PROJECT DESCRIBED HEREIN. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER CONTRACT.

- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY PERMITS AND INSPECTIONS WHICH ARE REQUIRED FOR THE WORK BY THE ARCHITECT/ENGINEER, THE STATE, COUNTY, OR LOCAL GOVERNMENT AUTHORITY.
- 11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, EASEMENTS, PAVING, CURBING, ETC., DURING CONSTRUCTION. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL REPAIR ANY DAMAGE THAT MAY HAVE OCCURRED DUE TO CONSTRUCTION ON OR ABOUT THE PROPERTY
- 12. THE CONTRACTOR SHALL KEEP THE GENERAL WORK AREA CLEAN AND HAZARD FREE DURING CONSTRUCTION AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON PROPERTY. PREMISES SHALL BE LEFT IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST, OR SMUDGES OF ANY NATURE.
- 13. THE CONTRACTOR SHALL COMPLY WITH ALL OSHA REQUIREMENTS, AS WELL AS THE LATEST EDITIONS OF ANY PERTINENT STATE SAFETY REGULATIONS.
- 14. THE CONTRACTOR SHALL NOTIFY THE T-MOBILE REPRESENTATIVE WHERE A CONFLICT OCCURS ON ANY OF THE CONTRACT DOCUMENTS, THE CONTRACTOR IS NOT TO ORDER MATERIAL OR CONSTRUCT ANY PORTION OF THE WORK THAT IS IN CONFLICT UNTIL CONFLICT IS RESOLVED BY THE T-MOBILE REPRESENTATIVE.
- 15. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS, ELEVATIONS, PROPERTY LINES, ETC., ON THE JOB.
- 16. THE CONTRACTOR SHALL RETURN ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITION AT THE COMPLETION OF WORK.

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PARCEL: 27/2/7.3// CONTACT: BRUCE HOFFMASTER 484-942-6339 CURRENT ZONING: 2 JURISDICTION: TOWN OF NEW FAIRFIELD ARCHITECT/ENGINEER: INFINIGY ENGINEERING 1033 WATERVLIET SHAKER ROAD ALBANY, NY 12205 LAT / LONG: N 4145070' / W -73.51597'	THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.
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	TAG #1		THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED.			
	#2	7	NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE.			
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			16 TITICUS MOUNTAIN RD NEW FAIRFIELD, CT 06812			
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T - Mobile STRUCTURAL NOTES: 1. SPECIFICATIONS / CODES: -CONCRETE WORK SHALL BE PERFORMED IN ACCORDANCE WITH LATEST EDITION OF THE ACI CODE. -STEEL WORK SHALL BE PERFORMED IN ACCORDANCE -STEEL WORK SHALL BE PERFORMED IN ACCORDANCE WITH AISC STEEL CONSTRUCTION MANUAL, 9th EDITION. -WELDING SHALL BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY (AWS) D1.1-92 "STRUCTURAL WELDING" CODE-STEEL. -REINFORCING STEEL SHALL BE PLACED IN ACCORDANCE WITH THE CONCRETE REINFORCING STEEL INSTRUCT (OPSI) "MANUAL OF STANDARD OD INFINIGY 1033 Watervliet Shaker Albany, NY 12205 Office # (518) 690-0790 Fax # (518) 690-0793 STEEL INSTITUTE (CRSI), "MANUAL OF STANDARD PRACTICE." 2. MATERIALS: -CONCRETE: fc' - 3000psi. (MIN. U.N.O.) -REINFORCING STEEL: ASTM A615, GRADE 60. -WIRE MESH: ASTM A185. -STRUCTURAL STEEL: ASTM A36. -ELECTRODES FOR WELDING: E 70xx. -GALVANIZING: ASTM A153 (BOLTS) OR ASTM A123 (SHAPES, PLATES). -EXPANSION BOLTS: HILTI KWIK BOLT II, STAINLESS SUBMITTALS DESCRIPTION STEEL, 3/4"¢x43/4" EMBEDMENT OR AN APPROVED EQUAL. \$/11/15 FOR PERMIT 0 DEPT. DATE APP'D RFE RF MAN. REVISIONS ZONING DPS CONSTR. SITE AC. 317-000 PROJECT NO: MAP DRAWN BY: CHECKED BY: ASW MILLE CONNER OF CONNA INO. 24705 THIS DOCUMENT IS THE CREATION, DESIGN, PROPERTY AND COPYRIGHTED WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN CONSENT IS STRICTLY PROHIBITED. NOTE: IF DRAWINGS ARE 22"x34", USE GRAPHICAL SCALE AND/OR 1/2 TIMES OF THE NOTED SCALE. SITE NUMBER: CT11106A SITE NAME: NEW FAIRFIELD (AT&T) 16 TITICUS MOUNTAIN RD NEW FAIRFIELD, CT 06812 SHEET TITLE EQUIPMENT **SPECIFICATIONS** STAND-OFF MOUNT DETAIL SHEET NUMBER NOT TO SCALE C-4 SHEET 5 OF 8 SHEETS





ELECTRICAL NOTES:

WORK INCLUDED

1. INCLUDE ALL LABOR, MATERIALS, EQUIPMENT, PLANT SERVICES AND ADMINISTRATIVE TASKS REQUIRED TO COMPLETE AND MAKE OPERABLE THE ELECTRICAL WORK SHOWN ON THE DRAWINGS AND SPECIFIED HEREIN, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- A. PREPARE AND SUBMIT SHOP DRAWINGS, DIAGRAMS AND ILLUSTRATIONS
- B. PROCURE ALL NECESSARY PERMITS AND APPROVALS AND PAY ALL REQUIRED FEES AND CHARGES IN CONNECTION WITH THE WORK OF THIS CONTRACT.
- C. SUBMIT AS-BUILT DRAWINGS, OPERATING AND MAINTENANCE INSTRUCTIONS AND MANUALS.
- D. EXECUTE ALL CUTTING, DRILLING, ROUGH AND FINISH ATCHING OF EXISTING OR NEWLY INSTALLED CONSTRUCTION REQUIRED FOR THE WORK OF THIS CONTRACT. FOR SLAB PENETRATIONS THROUGH POST TENSION SLABS, X-RAY EXACT AREA OF PENETRATION PRIOR TO PERFORMING WORK.
- COORDINATE ALL X-RAY WORK WITH BUILDING ENGINEER. E. PROVIDE HANGERS, SUPPORTS, FOUNDATIONS, STRUCTURAL FRAMING SUPPORTS, AND BASES FOR CONDUIT AND EQUIPMENT PROVIDED OR INSTALLED UNDER THE WORK OF HIS CONTRACT. PROVIDE COUNTER FLASHING, SLEEVES AND SEALS FOR FLOOR AND WALL PENETRATIONS
- F. MAINTAIN ALL EXISTING ELECTRICAL SERVICES IN THE BUILDING AREAS NOT AFFECTED BY THE ALTERATION DURING THE PROGRESS OF THE WORK INCLUDING PROVIDING ALL TEMPORARY JUMPERS, CONDUITS, CAPS, PROTECTIVE DEVICES, CONNECTIONS AND EQUIPMENT REQUIRED, PROVIDE TEMPORARY LIGHT AND POWER FOR CONSTRUCTION PURPOSES.
- 2. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO CALL FOR AN INSTALLATION THAT IS COMPLETE IN EVERY RESPECT. IT IS NOT THE INTENT TO GIVE EVERY DETAIL ON THE DRAWINGS AND IN THE SPECIFICATIONS. IF AN ITEM OF WORK IS INDICATED IN THE DRAWINGS. IT IS CONSIDERED SUFFICIENT. FOR INCLUSION IN THE CONTRACT. FURNISH AND INSTALL ALL MATERIAL AND EQUIPMENT USUALLY FURNISHED OR NEEDED TO MAKE A COMPLETE INSTALLATION WHETHER OR NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.

GENERAL REQUIREMENTS

- 1. PROVIDE ALL WORK IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE (NEC) AND LOCAL AND STATE ELECTRICAL CODES.
- 2. THE ELECTRICAL PLANS ARE DIAGRAMMATIC ONLY. REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT DIMENSIONS OF THE BUILDING
- 3. LOAD CALCULATIONS ARE BASED ON EXISTING BUILDING INFORMATION/DRAWINGS PROVIDED TO ENGINEERING. CONTRACTOR IS TO VERIFY ALL EXISTING RATINGS AND LOADS PRIOR TO PURCHASING OF SPECIFIED EQUIPMENT FOR COMPLIANCE TO NEC. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES AND REQUEST FURTHER DIRECTION BY ENGINEER.
- 4 EXISTING BUILDING FOURPMENT IS NOTED ON THE DRAWINGS. NEW OR RELOCATED EQUIPMENT IS SHOWN WITH SOLID LINES FUTURE EQUIPMENT (NOT IN THIS CONTRACT) IS DEPICTED WITH SHADED LINES, REQUEST CLARIFICATION OF DRAWINGS OR OF SPECIFICATIONS PRIOR TO PRICING OR INSTALLATION. 5. GENERAL
- A. AFTER CAREFULLY STUDYING THE DRAWINGS AND SPECIFICATIONS, AND BEFORE SUBMITTING THE PROPOSAL MAKE A MANDATORY SITE VISIT TO ASCERTAIN CONDITIONS OF THE SITE, AND THE NATURE AND EXACT QUANTITY OF WORK TO BE PERFORMED. NO EXTRA COMPENSATION WILL BE ALLOWED FOR FAILURE TO NOTIFY THE OWNER. IN WRITING. OF ANY DISCREPANCIES THAT MAY HAVE BEEN NOTED BETWEEN THE EXISTING CONDITIONS AND THE DRAWINGS AND SPECIFICATIONS.
- B VERIFY ALL MEASUREMENTS AT THE SITE AND BE RESPONSIBLE FOR CORRECTNESS OF SAM 6. QUALITY, WORKMANSHIP, MATERIALS AND SAFETY
- A. PROVIDE NEW MATERIALS AND EQUIPMENT OF A DOMESTIC MANUFACTURER BY THOSE REGULARLY ENGAGED IN THE PRODUCTION AND MANUFACTURE OF SPECIFIED MATERIALS AND EQUIPMENT, WHERE UL, OR OTHER AGENCY, HAS ESTABLISHED STANDARDS FOR MATERIALS PROVIDE MATERIALS WHICH ARE LISTED AND LABELED ACCORDINGLY. THE COMMERCIALLY STANDARD ITEMS OF FOURPMENT AND THE SPECIFIC NAMES MENTIONED HEREIN ARE INTENDED FOR THE PROPER FUNCTIONING OF THE WORK.
- B. WORK SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE REQUIRED FOR THE WORK, INSTALL MATERIALS AND TO PRESENT A NEAT APPEARANCE WHEN COMPLETED AND IN ACCORDANCE WITH THE APPROVED. RECOMMENDATIONS OF THE MANUFACTURER AND IN ACCORDANCE WITH CONTRACT DOCUMENTS.
- C. PROVIDE LABOR, MATERIALS, APPARATUS AND APPLIANCES ESSENTIAL TO THE FUNCTIONING OF THE SYSTEMS DESCRIBED OR INDICATED HEREIN, OR WHICH MAY BE REASONABLY IMPLIED AS ESSENTIAL WHENEVER MENTIONED IN THE CONTRACT DOCUMENT OR NOT
- D. MAKE WRITTEN REQUESTS FOR SUPPLEMENTARY INSTRUCTIONS TO ARCHITECT/ENGINEER IN CASE OF DOUBT AS TO WORK INTENDED OR IN EVENT OF NEED FOR EXPLANATION THEREOF
- PERFORMANCE AND MATERIAL REQUIREMENTS SCHEDULED OR SPECIFIED ARE MINIMUM STANDARD ACCEPTABLE. THE RIGHT TO JUDGE THE QUALITY OF EQUIPMENT THAT DEVIATES FROM THE CONTRACT DOCUMENT REMAINS SOLELY WITH ARCHITECT/ENGINEER. CONTRACT DOCUMENT OR NOT. GUARANTEE
- 1. GUARANTEE MATERIALS, PARTS AND LABOR FOR WORK FOR ONE YEAR FROM THE DATE OF ISSUANCE OF OCCUPANCY PERMIT. DURING THAT PERIOD, MAKE GOOD FAULTS OR IMPERFECTIONS THAT MAY ARISE DUE TO DEFECTS OR OMISSIONS IN MATERIALS OR WORKMANSHIP WITH NO ADDITIONAL COMPENSATION AND AS DIRECTED BY ARCHITECT.

CLEANING

1. REMOVE ALL CONSTRUCTION DEBRIS RESULTING FROM THE

- WORK 2 CLEAN FOLIPMENT AND SYSTEMS FOLLOWING THE COMPLETION OF THE PROJECT TO THE SATISFACTION OF THE ENGINEER.
- COORDINATION AND SUPERVISION
- 1. CAREFULLY LAY OUT ALL WORK IN ADVANCE TO AVOID UNNECESSARY CUTTING, CHANNELING, CHASING OR DRILLING OF FLOORS WALLS, PARTITIONS, CEILINGS OR OTHER SURFACES. WHERE SUCH WORK IS NECESSARY, HOWEVER, PATCH AND REPAIR THE WORK IN AN APPROVED MANNER BY SKILLED MECHANICS AT NO ADDITIONAL COST TO THE OWNER, RENDER FULL COOPERATION TO OTHER TRADES WHERE WORK WILL BE INSTALLED IN CLOSE PROXIMITY TO WORK OF OTHER TRADES. ASSIST IN WORKING OUT SPACE CONDITIONS. IF WORK IS INSTALLED REFORE COORDINATION WITH OTHER TRADES OR CAUSES INTERFERENCE, MAKE CHANGES NECESSARY TO CORRECT CONDITIONS WITHOUT EXTRA CHARGE.
- SUBMITTALS.
- 1. AS-BUILT DRAWINGS: A. UPON COMPLETION OF THE WORK, FURNISH TO THE OWNER "AS-BUILT" DRAWINGS.
- 2. SERVICE MANUALS:
- A. LIPON COMPLETION OF THE WORK, FULLY INSTRUCT T-MOBILE AS TO THE OPERATION AND MAINTENANCE OF ALL MATERIAL, FOLIPMENT AND SYSTEMS.
- B. PROVIDE 3 COMPLETE BOUND SETS OF INSTRUCTIONS FOR OPERATING AND MAINTAINING ALL SYSTEMS AND EQUIPMENT.
- CUTTING AND PATCHING
- 1. PROVIDE ALL CUTTING, DRILLING, ROUGH AND FINISH PATCHING REQUIRED TO COMPLETE THE WORK. 2. OBTAIN OWNER APPROVAL PRIOR TO CUTTING THROUGH FLOORS
- OR WALLS FOR PIPING OR CONDUIT
- TESTS, INSPECTION AND APPROVAL
 - BEFORE ENERGIZING ANY ELECTRICAL INSTALLATION. INSPECT EACH UNIT IN DETAIL. TIGHTEN ALL BOLTS AND CONNECTIONS (TORQUE-TIGHTEN WHERE REQUIRED) AND DETERMINE THAT ALL OMPONENTS ARE ALIGNED, AND THE EQUIPMENT IS IN SAFE, OPERATIONAL CONDITION
 - PROVIDE THE COMPLETE ELECTRICAL SYSTEM FREE OF GROUND FAULTS AND SHORT CIRCUITS SUCH THAT THE SYSTEM WILL OPERATE SATISFACTORILY UNDER FULL LOAD CONDITIONS, WITHOUT EXCESSIVE HEATING AT ANY POINT IN THE SYSTEM.
- SPECIAL REQUIREMENTS
- 1. DO NOT LEAVE ANY WORK INCOMPLETE NOR ANY HAZARDOUS SITUATIONS CREATED WHICH WILL AFFECT THE LIFE OR SAFETY OF THE PUBLIC AND/OR BUILDING OCCUPANTS, DO NOT INTERFERE WITH OR CUTOFF ANY OF THE EXISTING SERVICES WITHOUT THE OWNER'S WRITTEN PERMISSION
- 2. WHEN NECESSARY TO TEMPORARILY DISCONNECT ANY EXISTING BUILDING UTILITIES AND SERVICE SYSTEMS, INCLUDING FEEDER OR BRANCH CIRCUITING SUPPLYING EXISTING FACILITIES CONFER WITH THE OWNER AND ARRANGE THE PERIOD OF INTERRUPTION FOR A TIME MUTUALLY AGREED UPON SHUTDOWN NOTE: SCHEDULE AND NOTIFY OWNER 48 HOURS
- PRIOR TO SHUTDOWN, ALL SHUTDOWN WORK TO BE SCHEDULED AT A TIME CONVENIENT TO OWNER. GROUNDING
- 1. ROUTE ALL GROUNDING CONDUCTORS AS SHOWN ON CONDUIT/GROUNDING RISER.
- 2 ROUTE 500 KCMIL CU. THEN CONDUCTOR FROM THE MGB LOCATION TO BUILDING STEEL. VERIFY BUILDING STEE EFFECTIVELY GROUNDED PER NEC TO THE MAIN SERVICE GROUNDING ELECTRODE CONDUCTOR (GEC). 3. MAKE ALL GROUND CONNECTIONS FROM MGB TO ELECTRICAL
- EQUIPMENT WITH 2 HOLE, CRIMP TYPE, BURNDY COMPRESSION TERMINATIONS, SIZED AS REQUIRED. 4. USE 1 HOLE, CRIMP TYPE, BURNDY COMPRESSIONS
- TERMINATIONS, SIZED AS REQUIRED, AT EQUIPMENT GROUND CONNECTIONS
- 5. HIRE AN INDEPENDENT LAB TO PERFORM THE SPECIFIED OHMS TESTING PROVIDE 4 SETS OF THE CERTIFIED DOCUMENTS TO THE OWNER FOR VERIFICATION PRIOR TO THE PROJECT COMPLETION.
- RACEWAYS
- 1. ALL WIRING TO BE INSTALLED IN CONDUIT SYSTEMS IN ACCORDANCE WITH THE FOLLOWING: A. EXTERIOR FEEDERS AND CONTROL, WHERE UNDERGROUND, TO
- BE IN SCH 40 PVC B. EXTERIOR, ABOVE GROUND POWER CONDUITS TO BE
- GALVANIZED RIGID STEEL (RGS). C. ALL TELECOMMUNICATION CONDUITS, INTERIOR/EXTERIOR, TO
- BF FMT D. INSTALL PULL ROPES IN ALL NEW EMPTY CONDUITS INSTALLED
- ON THIS PROJECT. E. ALL TELECOM CONDUITS AND PULL BOXES INSTALLED ON THIS PROJECT TO BE LABELED "T--MOBILE". OWNER WILL
- PROVIDE LABELS FOR CONTRACTOR TO INSTALL. F. INTERIOR FEEDERS TO BE INSTALLED IN E.M.T. WITH STEEL
- COMPRESSION FITTINGS. MINIMUM SIZE CONDUIT TO BE 3/2" TRADE SIZE
- UNLESS OTHERWISE INDICATED ON THE DRAWINGS
- H. FINAL CONNECTIONS TO MOTORS AND VIBRATING EQUIPMENT TO BE INSTALLED IN LIQUID-TIGHT FLEXIBLE METAL CONDUIT. I. CONDUIT TO BE RUN CONCEALED IN CEILINGS, FINISHED
- AREAS OR DRYWALL PARTITIONS, UNLESS OTHERWISE NOTED. THE ROUTING OF CONDUITS INDICATED ON THE DRAWINGS IS DIAGRAMMATIC, BEFORE INSTALLING ANY WORK, EXAMINE THE WORKING LAYOUTS AND SHOP DRAWINGS OF THE OTHER TRADES TO DETERMINE THE EXACT LOCATIONS AND CLEARANCES
- K. ALL EXTERIOR MOUNTING HARDWARE TO BE GALVANIZED STEEL. COORDINATE WITH BUILDING ENGINEER PRIOR TO ATTACHING TO BUILDING STRUCTURE.

RACEWAYS CONT'D

L. PENETRATIONS OF WALLS, FLOORS AND ROOFS, FOR THE PASSAGE OF ELECTRICAL RACEWAYS, TO BE PROPERLY SEALED AFTER INSTALLATION OF RACEWAYS SO AS TO MAINTAIN THE STRUCTURAL OR WATERPROOF INTEGRITY OF THE WALL, FLOOR OR ROOF SYSTEM TO BE PENETRATED. SEAL ALL CONDUIT PENETRATIONS THROUGH FIRE OR SMOKE RATED WALLS, CEILINGS OR SMOKE TIGHT CORRIDOR PARTITIONS TO MAINTAIN PROPER RATING OF WALL OR CELLING

CONFLICTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATIONS

OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY

THE CONSTRUCTION DRAWINGS, ANY SUCH DISCREPANCY IN

ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING SUCH BIDDER MIGHT HAVE

3. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF

BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE

DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED, OR

OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO

ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON

THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF

THE REQUIREMENTS OF THE CONTRACT DOCUMENTS

1. CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS. 2. SEE MASTER CONTRACTION SERVICES AGREEMENT FOR

1, ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION

RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH

CAUSED BY THEIR EMPLOYEES AT WORK AND AT THE

LEAVE THEIR WORK CLEAN AND READY TO USE.

1. THE CONTRACTORS SHALL, AT ALL TIMES, KEEP THE SITE FREE

COMPLETION OF THE WORK, THEY SHALL REMOVE ALL RUBBISH

FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR

TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL

A. VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL

B, REMOVE ALL TRACES OF SPLASHED MATERIALS FROM

C. IF NECESSARY, TO ACHIEVE A UNIFORM DEGREE OF

A. VISUALLY INSPECT INTERIOR SURFACE AND REMOVE ALL

FORFIGN MATTER FROM WALLS, FLOOR, AND CEILING,

B. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM

1. REFER TO SECTION 17 OF SIGNED MCSA: SEE PROFESSIONAL SERVICE AGREEMENT FOR MCSA.

1. GENERAL CARPENTRY, ELECTRICAL AND ANTENNA DRAWINGS ARE

CONTRACTOR MUST REFER TO ALL DRAWINGS. ALL COORDINATION

1. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AS REQUIRED AND

INTERRELATED. IN PERFORMANCE OF THE WORK, THE

LISTED IN THESE SPECIFICATIONS TO THE OWNER FOR

2. ALL SHOP DRAWINGS SHALL BE REVIEWED, CHECKED AND

CORRECTED BY CONTRACTOR PRIOR TO SUBMITTAL TO THE

1 SUBMIT 3 COPIES OF FACH REQUEST FOR SUBSTITUTION, IN

NCLUDE RELATED SPECIFICATION SECTION AND DRAWING

COMPLIANCE WITH THE REQUIREMENTS FOR SUBSTITUTIONS. 2. SUBMIT ALL NECESSARY PRODUCT DATA AND CUT SHEETS

WHICH PROPERLY INDICATE AND DESCRIBE THE ITEMS.

NUMBERS AND COMPLETE DOCUMENTATION SHOWING

EACH REQUEST, IDENTIFY THE PRODUCT OR FABRICATION OR INSTALLATION METHOD TO BE REPLACED BY THE SUBSTITUTION.

PRODUCTS AND MATERIALS BEING INSTALLED. THE CONTRACTOR

SHALL, IF DEEMED NECESSARY BY THE OWNER, SUBMIT ACTUAL SAMPLES TO THE OWNER FOR APPROVAL IN LIEU OF CUT

ARCHITECTURAL SYMBOLS

###

DETAIL REFERENCE KEY

- DRAWING DETAIL NUMBER-

-SHEET NUMBER OF DETAIL-

(x)-

REFER TO

RE: 2/A-3

D BE THE RESPONSIBILITY OF THE CONTRACTOR

TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER

CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.

TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER

C. REMOVE PAINT DROPPINGS, SPOTS, STAINS, AND DIRT FROM

AND IN A MANNER THAT DOES NOT NECESSARILY OBSTRUCT THE FLOW OF OTHER WORK, ANY STORAGE METHOD MUST MEET ALL

GOVERNING THE WORK.

CONTRACTS AND WARRANTIES

ADDITIONAL DETAILS.

STORAGE

CLEANUF

2. EXTERIOR

INTERIOR

SHOP DRAWINGS

OWNER.

SHEFTS

PRODUCTS AND SUBSTITUTIONS

FORFIGN MATTER.

ADJACENT SURFACES.

ADJACENT SURFACES.

FINISHED SURFACES.

RELATED DOCUMENTS AND COORDINATION

CHANGE ORDER PROCEDURE:

BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON

DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE

MATERIALS OR DOING ANY WORK NO EXTRA CHARGE OF

OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR

FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.

PROCEEDS WITH THE WORK IN THE AFFECTED AREAS. 2. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE

- M. PROVIDE ALL CONDUIT ENDS WITH INSULATED METALLIC GROUNDING BUSHINGS.
- N. CONDUIT TO BE SUPPORTED AT MAXIMUM DISTANCE OF -0", OR AS REQUIRED BY NEC, IN HORIZONTAL AND VERTICAL DIRECTIONS
- UNCTION BOXES AND/OR OUTLET BOXES NOT USED IN EXPOSED AREAS. PROVIDE ALL OTHER UNUSED BOXES WITH STANDARD STEEL COVER PLATES.
- P. WHERE APPLICABLE, PROVIDE ROOFTOP CONDUIT SUPPORT SYSTEM, CONFORMING TO ROOFTOP WARRANTY REQUIREMENTS, PER BUILDING

WIRES AND CARLES

- 1. CONTRACTOR TO COORDINATE WITH EQUIPMENT SUPPLIER AND VENDOR FOR EXACT FOURPMENT OVER-CURRENT PROTECTION WIRE SIZE AND PLUG CONFIGURATION, IF APPLICABLE, VOLTAGE. PRIOR TO BID.
- 2. ALL EQUIPMENT/DEVICES TO BE PROVIDED WITH INSULATED GROUND CONDUCTOR
- 3. ALL WIRE AND CABLE TO BE 600VOLT, COPPER, WITH THWN/ THHN INSULATION, EXCEPT AS NOTED.
- 4. WIRE FOR POWER AND LIGHTING WILL NOT BE LESS THAN NO. 12AWG, ALL WIRE NO. 8 AND LARGER TO BE STRANDED.
- 5. CONTROL WIRING IS NOT TO BE LESS THAN NO. 14AWG. FLEXIBLE IN SINGLE CONDUCTORS OR MULTI-CONDUCTOR CABLES CONTROL WIRING WILL CONSIST OF MULTI-CONDUCTOR CABLES WHEREVER POSSIBLE. CABLES TO BE PROVIDED WITH AN OVERALL FLAME-RETARDANT, EXTRUDED JACKET AND RATED FOR PLENUM USE. ALL CONTROL WIRE TO BE 600VOLT RATED. 6. WIRE PREVIOUSLY PULLED INTO CONDUIT IS CONSIDERED USED

WIRE SIZE

AND IS NOT TO BE RE-PULLED 7. HOME RUNS AND BRANCH CIRCUIT WIRING FOR 20A, 120V

ENGTH (FT.)	HOME RUN WIRE
0 TO 50	NO. 12
51 TO 100	NO. 10

- 101 TO 150 NO. 8 VOLTAGE DROP IS NOT TO EXCEED 3%.
- 9. MAKE ALL CONNECTIONS WITH UL APPROVED, SOLDERLESS.
- PRESSURE TYPE INSULATED CONNECTORS: SCOTCHLOK OR AND APPROVED EQUAL.
- WIRING DEVICES 1. ALL RECEPTACLES INSTALLED IN THIS PROJECT TO BE GROUNDING TYPE, WITH GROUNDING PIN SLOT CONVECTED TO DEVICE GROUND SCREW FOR GROUND WIRE CONNECTION.
- DISCONNECT SWITCHES AND FUSES 1. DISCONNECT SWITCHES TO BE VOLTAGE-RATED TO SUIT THE
- CHARACTERISTICS OF THE SYSTEM FROM WHICH THEY ARE SUPPLIED.
- 2 PROVIDE HEAVY-DUTY, METAL-ENCLOSED, EXTERNALLY-OPERATED DISCONNECT SWITCHES, FUSED OR UNFUSED, OF SUCH TYPE AND SIZE AS REQUIRED TO PROPERLY PROTECT OR DISCONNECT
- THE LOAD FOR WHICH THEY ARE INTENDED 3. PROVIDE NEMA 1 DISCONNECT SWITCHES FOR INTERIOR
- INSTALLATION, NEMA 3R FOR EXTERIOR INSTALLATION.
- 4. DISCONNECT SWITCHES TO BE MANUFACTURED BY:
- A. GENERAL ELECTRIC COMPANY
- B, SQUARE-D 5. PROVIDE RK-1 TYPE FUSES, UNLESS NOTED OTHERWISE. INSTALLATION
- 1. INSTALL DISCONNECT SWITCHES WHERE INDICATED ON
- DRAWINGS
- 2. INSTALL FUSES IN FUSIBLE DISCONNECT SWITCHES, FUSES
- MUST MATCH IN TYPE AND RATING. 3. FUSES TO BE MOUNTED SO THAT THE LABELS SHOWING THEIR
- RATINGS CAN BE READ WITHOUT REQUIRING FUSE REMOVAL. 4. FURNISH AND DEPOSIT SPARE FUSES AT THE JOB SITE AS
- FOLLOWS A. THREE SPARES FOR EACH TYPE AND SIZE, IN EXCESS OF
- 60A, USED FOR INITIAL FUSING. B. TEN PERCENT SPARES FOR EACH TYPE AND SIZE, UP TO
- AND INCLUDING 60A, USED FOR INITIAL FUSING, IN NO CASE WILL LESS THAN THREE FUSES OF ONE PARTICULAR TYPE AND SIZE BE FURNISHED.

GENERAL NOTES:

CHANGE ORDER.

- INTENT 1. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS ACCOMPANYING THEM DESCRIBE THE WORK TO BE DONE AND
- THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION. 2 THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY. HOWEVER, SHOULD ANYTHING BE SHOWN INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN,
- INDICATED OR SPECIFIED IN BOTH 3. THE INTENTION OF THE DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN
- THE CONTRACT 4. THE PURPOSE OF THE SPECIFICATIONS IS TO INTERPRET THE INTENT OF THE DRAWINGS AND TO DESIGNATE THE METHOD OF THE PROCEDURE, TYPE AND QUALITY OF MATERIALS REQUIRED TO COMPLETE THE WORK.

5. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED

CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE

AND SHALL BE CONSIDERED AS PART OF THE WORK. NO

MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A

				T. Mobile
1. ALL WORK SHALL I	BE IN ACCORDANCE	WITH APPLICABLE LOCAL,		T-MOBILE NORTHLAST LLC
NOT BE LIMITED TO	THE APPLICABLE CO	DES SET FORTH BY THE	ļ	BENSALEM, PA 19020
LOCAL GOVERNING	BODY, SEE "CODE C	UMPLIANCE T-1.		
1. BEFORE THE COMME	ENCEMENT OF ANY W	ORK, THE CONTRACTOR		\$
POINT OF CONTACT	FOR ALL PERSONNEL	INVOLVED IN THIS		
PROJECT, THIS PRO. SCHEDULE FOR THE	PROJECT WHICH WIL	L BE SUBMITTED TO		
THE OWNER PRIOR	to the commencemi E progress chart,	ENT OF ANY WORK. NOT MORE THAN 3		
DAYS AFTER THE DA THE WORK ON THE	TE ESTABLISHED FOR SCHEDULE, INDICATIN	COMMENCEMENT OF		(518) (518)
EACH MAJOR CATEG	ORY OR UNIT OF WO	RK TO BE PERFORMED		Muato Muato Miban
OTHER ELEMENTS OF	F WORK AND SHOWIN	IG COMPLETION OF THE		
FOR SUBSTANTIAL C	OMPLETION OF THE N	WORK,		Z
SCHEDULE AN ON-S	SITE MEETING WITH A	LL MAJOR PARTIES, THIS	11	—
MANAGER, CONTRACT	FOR, LAND OWNER R	EPRESENTATIVE, LOCAL		
SUBCONTRACTED).	Y, TOWER ERECTION	FOREMAN		SUBMITTALS
 CONTRACTOR SHALL CONSTANT COMMUNI 	CATIONS, SUCH AS A	SUME MEANS OF MOBILE PHONE OR A		9/11/15 FOR PERMIT 0
BEEPER. THIS EQUIF OWNER, NOR WILL Y	PMENT WILL NOT BE WIRELESS SERVICE BE	SUPPLIED BY THE		
5. DURING CONSTRUCT EMPLOYEES AND SU	ION, CONTRACTOR M BCONTRACTORS WEAR	UST ENSURE THAT R HARD HATS AT ALL		
TIMES. CONTRACTOR	WILL COMPLY WITH HEIR AGREEMENT.	ALL WPCS SAFETY		
6. PROVIDE WRITTEN D	DAILY UPDATES ON SI	TE PROGRESS TO THE		
7. COMPLETE INVENTOR	RY OF CONSTRUCTION	N MATERIALS AND		
8. NOTIFY THE OWNER	PROJECT MANAGER	IN WRITING NO LESS		
ERECTIONS, AND EQ	UIPMENT CABINET PL	ACEMENTS.		
SURANCE AND BONDS				DEPT. DATE APP'O REVISIONS RFE
 CONTRACTOR, AT TH MAINTAIN, FOR THE 	HEIR OWN EXPENSE, DURATION OF THE P	SHALL CARRY AND ROJECT, ALL		RF MAN:
INSURANCE, AS REC COMMENCE WITH TH	UIRED AND LISTED, A	AND SHALL NOT Y HAVE PRESENTED AN		OPS
ORIGINAL CERTIFICAT	E OF INSURANCE ST	ATING ALL COVERAGES AGREEMENT FOR		SITE AC.
REQUIRED INSURANCE	E LIMITS. RE NAMED AS AN A			PROJECT NO: 317-000
ALL POLICIES.				DRAWN BY: MAP
3. CONTRACTOR MUST	FROME FROOF OF		ľ	CHECKED BT. NOW
1	ADJ	ADJUSTABLE		OF CONNE
	AGL &	ABOVE GROUND LINE AND	1	S. STE
	APPROX			S S S S S S S S S S S S S S S S S S S
	BTS	BASE TRANSMISSION STATION		The Count
	CAB CLG	CEILING		V VV A SARA
	CONC CONT	CONCRETE CONTINUOUS	Ŧ	No. 24705
-		DIAMETER	V	CENSE
	EA	EACH		MONAL ENIN
	ELEC	ELEVATION		PROFENSIONAL SEAL
	EQ EQUIP	EQUAL EQUIPMENT		
	EGB	EQUIPMENT GROUND BAR EXISTING		DESIGN, PROPERTY AND COPYRIGHTED
	EXT			WORK OF T-MOBILE. ANY DUPLICATION OR USE WITHOUT EXPRESS WRITTEN
	GA	GAUGE		CONSENT IS STRICTLY PROHIBITED.
	GALV GC	GALVANIZED GENERAL CONTRACTOR		
	GRND	GROUND LONG		GRAPHICAL SCALE AND/OR 1/2 TIMES
	MAX			UF THE NOTED SCALE.
	MECH	MICROWAVE DISH		SITE NUMBER:
	MFR MGB	MANUFACTURER MASTER GROUND BAR		
	MIN	MINIMUM		NEW FAIRFIELD (AT&T)
	(N)	NEW		16 TITICUS MOUNTAIN RD
10010	NIC NTS	NOT IN CONTRACT NOT TO SCALE		NEW FAIRFIELD, UT 00012
NBOLS	OC OPP	ON CENTER OPPOSITE		SHEET TITLE
	(P)	PROPOSED		
	PCS	PERSONAL COMMUNICATION SYSTEM POWER PROTECTION CABINET		
	SF SHT	SQUARE FOOT SHEET		ELECIKICAL
KEY	SIM	SIMILAR STAINIESS STEEL		NULES
	STL	STAINLESS STEEL STEEL		
	TOC TOM	TOP OF CONCRETE TOP OF MASONRY		SHEEL NUMBER
2	TYP	TYPICAL VERIEV IN FIELD		
A-3	UON	UNLESS OTHERWISE NOTED		N-1
	WWF W/	Welded Wire Fabric With		SHEET 8 OF 8 SHEETS
			2	

QUALITY ASSURANCE

ADMINISTRATION

INSURANCE AND BOND



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

T-Mobile Existing Facility

Site ID: CT11106A

New Fairfield (AT&T) 37 Titicus Mountain Road New Fairfield, CT 06812

September 17, 2015

EBI Project Number: 6215004795

Site Compliance Summary						
Compliance Status:	COMPLIANT					
Site total MPE% of FCC general public allowable limit:	5.52 %					



September 17, 2015

T-Mobile USA Attn: Jason Overbey, RF Manager 35 Griffin Road South Bloomfield, CT 06002

Emissions Analysis for Site: CT11106A – New Fairfield (AT&T)

EBI Consulting was directed to analyze the proposed T-Mobile facility located at **37 Titicus Mountain Road, New Fairfield, CT**, for the purpose of determining whether the emissions from the Proposed T-Mobile 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 97-01 and 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.

<u>General population/uncontrolled exposure</u> limits apply to situations in which the general public 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 public 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.

Public exposure to radio frequencies is regulated and enforced in units of microwatts per square centimeter (μ W/cm²). The general population exposure limit for the 700 MHz Band is approximately 467 μ W/cm², and the general population exposure limit for the PCS and AWS bands is 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.



<u>Occupational/controlled exposure</u> 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 their exposure and can exercise control over the potential for exposure and can exercise 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 T-Mobile Wireless antenna facility located at **37 Titicus Mountain Road, New Fairfield, CT**, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. Since T-Mobile 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, 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) 2 GSM / UMTS channels (PCS Band 1900 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel
- 2) 2 UMTS channels (AWS Band 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 30 Watts per Channel.
- 3) 2 LTE channels (AWS Band 2100 MHz) were considered for each sector of the proposed installation. These Channels have a transmit power of 60 Watts per Channel.
- 4) 1 LTE channel (700 MHz Band) was considered for each sector of the proposed installation. This channel has a transmit power of 30 Watts.
- 5) 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.



- 6) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The maximum gain of the antenna per the antenna manufactures supplied specifications minus 10 dB 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.
- 7) The antennas used in this modeling are the Ericsson AIR21 (B4A/B2P & B2A/B4P) for 1900 MHz (PCS) and 2100 MHz (AWS) channels and the Commscope LNX-6515DS-VTM for 700 MHz channels. This is based on feedback from the carrier with regards to anticipated antenna selection. The Ericsson (AIR21 B4A/B2P & B2A/B4P) have a maximum gain of 15.9 dBd at their main lobe. The Commscope LNX-6515DS-VTM has a maximum gain of 14.6 dBd at its main lobe. The maximum gain of the antenna per the antenna manufactures supplied specifications, minus 10 dB, 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.
- 8) The antenna mounting height centerline of the proposed antennas is **193 feet** above ground level (AGL).
- 9) 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 public threshold limits.



Sector:	А	Sector:	В	Sector:	С
Antenna #:	1	Antenna #:	1	Antenna #:	1
Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P	Make / Model:	Ericsson AIR21 B4A/B2P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	193	Height (AGL):	193	Height (AGL):	193
Frequency Bands	2100 MHz (AWS)	Frequency Bands	2100 MHz (AWS)	Frequency Bands	2100 MHz (AWS)
Channel Count	2	Channel Count	2	# PCS Channels:	2
Total TX Power:	120	Total TX Power:	120	# AWS Channels:	120
ERP (W):	4,668.54	ERP (W):	4,668.54	ERP (W):	4,668.54
Antenna A1 MPE%	0.48	Antenna B1 MPE%	0.48	Antenna C1 MPE%	0.48
Antenna #:	2	Antenna #:	2	Antenna #:	2
Make / Model:	Ericsson AIR21 B2A/B4P	Make / Model:	Ericsson AIR21 B2A/B4P	Make / Model:	Ericsson AIR21 B2A/B4P
Gain:	15.9 dBd	Gain:	15.9 dBd	Gain:	15.9 dBd
Height (AGL):	193	Height (AGL):	193	Height (AGL):	193
Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)	Frequency Bands	1900 MHz(PCS) / 2100 MHz (AWS)
Channel Count	4	Channel Count	4	Channel Count	4
Total TX Power:	120	Total TX Power:	120	Total TX Power:	120
ERP (W):	4,668.54	ERP (W):	4,668.54	ERP (W):	4,668.54
Antenna A2 MPE%	0.48	Antenna B2 MPE%	0.48	Antenna C2 MPE%	0.48
Antenna #:	3	Antenna #:	3	Antenna #:	3
Make / Model:	Commscope LNX- 6515DS-VTM	Make / Model:	Commscope LNX- 6515DS-VTM	Make / Model:	Commscope LNX- 6515DS-VTM
Gain:	14.6 dBd	Gain:	14.6 dBd	Gain:	14.6 dBd
Height (AGL):	193	Height (AGL):	193	Height (AGL):	193
Frequency Bands	700 MHz	Frequency Bands	700 MHz	Frequency Bands	700 MHz
Channel Count	1	Channel Count	1	Channel Count	1
Total TX Power:	30	Total TX Power:	30	Total TX Power:	30
ERP (W):	865.21	ERP (W):	865.21	ERP (W):	865.21
Antenna A3 MPE%	0.19	Antenna B3 MPE%	0.19	Antenna C3 MPE%	0.19

T-Mobile Site Inventory and Power Data

Site Composite MPE%					
Carrier	MPE%				
T-Mobile (Per Sector Max)	1.15 %				
Sprint	0.54 %				
Clearwire	0.05 %				
Verizon Wireless	1.77 %				
AT&T	0.78 %				
Homeland Security	1.23 %				
Site Total MPE %:	5.52 %				

T-Mobile Sector 1 Total:	1.15 %
T-Mobile Sector 2 Total:	1.15 %
T-Mobile Sector 3 Total:	1.15 %
Site Total:	5.52 %

T-Mobile _per sector	# Channels	Watts ERP (Per Channel)	Height (feet)	Total Power Density (µW/cm ²)	Frequency (MHz)	Allowable MPE (µW/cm²)	Calculated % MPE
T-Mobile 2100 MHz (AWS) LTE	2	2334.27	193	4.80	2100	1000	0.48 %
T-Mobile 700 MHz LTE	1	865.21	193	0.89	700	467	0.19 %
T-Mobile 1900 MHz (PCS) UMTS	2	1167.14	193	2.40	1900	1000	0.24 %
T-Mobile 2100 MHz (AWS) UMTS	2	1167.14	193	2.40	2100	1000	0.24 %
						Total:	1.15%



Summary

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

The anticipated maximum composite contributions from the T-Mobile facility as well as the site composite emissions value with regards to compliance with FCC's allowable limits for general public exposure to RF Emissions are shown here:

T-Mobile Sector	Power Density Value (%)
Sector 1:	1.15 %
Sector 2:	1.15 %
Sector 3 :	1.15 %
T-Mobile Per Sector	1.15 %
Maximum:	
Site Total:	5.52 %
Site Compliance Status:	COMPLIANT

The anticipated composite MPE value for this site assuming all carriers present is 5.52% of the allowable FCC established general public 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.

Scott Heffernan **RF Engineering Director**

EBI Consulting 21 B Street Burlington, MA 01803



Structural Evalua	tion
ATC Site Number & Name	88014, New Fairfield, CT
Carrier Site Number & Name	CT11106A, N/A
Site Location	22 Titicus Mountain Road
	New Fairfield, CT 06812-2565, Fairfield County
	41.450664 N / -73.515989 W
Tower Description	187.5 ft Self Supported Tower
Basic Wind Speed	95 mph (3-Second Gust)
Basic Wind Speed w/ Ice	50 mph (3-Second Gust) w/ ¾" ice
Code	ANSI/TIA-222-G / 2003 IBC / 2005 Connecticut Supplemental / 2009 Connecticut
	Amendments

Existing and Reserved Equipment

Elevation ¹ (ft)			Anteres		Lines	C
Mount	RAD	Qty	Antenna	Mount Type	Lines	Carrier
187.5 193.0	3	Ericsson AIR 21, 1.3 M, B2A B4P				
	193.0	3	Ericsson AIR 21, 1.3M, B4A B2P	T-Arm	(12) 1 5/8" Coax (1) 1 5/8" (1.63") Fiber	T-Mobile
		3	Ericsson KRY 112 144/1			
		2	Horizon Compact	T-Arm	(2) 1/2" Coax (6) 5/16" (0.31") Coax (1) 2" conduit	Clearwire
		3	NextNet BTS-2500			
185.0	185.0	3	Argus LLPX310R			
		1	DragonWave A-ANT-23G-2.5-C	Stand-Off		
		1	DragonWave A-ANT-11G-4-C	T-Arm		
		3	Alcatel-Lucent 2X50W RRH w/o Filter			Sprint Nextel
		3	Alcatel-Lucent 4x40W RRH	Log		
164.0	167.0	2	Alcatel-Lucent TD-RRH8x20-25 w/ Solar	Leg	(3) 1 1/4" Hybriflex (1) 1 1/4" (1.25") Fiber	
164.0 1	167.0	3	Shield			
		6	RFS RFS APXV9TM14-ALU-I20	Low Profile Platform		
		3	RFS APXVSPP18-C-A20			
	160.0	6	Ericsson RRUS 11 (Band 12) (55 lb)	Sector Frame	(12) 1 5/8" Coax (4) 0.74" 8 AWG 7 (1) 3" conduit (1) 0.28" RG-6	AT&T Mobility
		3	Powerwave 7770.00			
160.0		3	Allgon 7770.00			
100.0		3	Powerwave P65-16-XLH-RR			
		6	Powerwave LGP21401			
			1	Raycap DC6-48-60-18-8F.	Flush	
142.0	146.0	6	RFS FD9R6004/2C-3L	Low Profile Platform	(12) 1 5/8" Coax	Verizon
		3	Antel BXA-171085-8BF-EDIN-X			
		2	Antel LPA-80080/4CF			
		4	Antel LPA-80063/4CF			
		3	Antel BXA-70063/6CF_			
106.0	121.0	1	Dielectric TLP-16A-1E	Stand-Off	(1) 3 1/8" HL	Qualcomm
		1	Andrew DB616F-BC	Side Arm	(2) 7/8" Coax	US Dept Of
70.0	80.0	<u> </u>		Juc Ann		Homeland Security
	1	4' Omni	Stand-Off		US Treasury	



Equipment to be Removed

Elevation ¹ (ft)	Qty	Antenna	Mount Type	Lines	Carrier
Mount RAD					
No loading considered as to be removed					

Proposed Equipment

Elevation ¹ (ft)		0.5.7	Antonno		Lines	Corrier
Mount	RAD	Qiy	Antenna	Mount Type	LINES	Carrier
193.0	193.0	3	Ericsson RRUS 11 B12	T-Arm	-	T Mobilo
187.5	191.0	3	Commscope LNX-6515DS-VTM	T-Arm	-	1-IVIODIIE

¹Mount elevation is defined as height above bottom of steel structure to bottom of mount, RAD elevation is defined as center of antenna above grade level (AGL).

The existing and proposed loads listed in the tables above are compared to the tower's current design capacity or previous structural analysis. The tower should be re-evaluated as future loads are added or if actual loads are found different from those listed in the tables. The subject tower and foundation *are adequate* to support the above stated loads in conformance with specified requirements.

Reviewed by: William Garrett, PE Chief Engineer



Nov 13 2015 3:10 PM