

July 1, 2019

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

RE: Request of Sigfox NIP LLC for an Order to Approve the Shared Use of an Existing Tower at 168 Catoona Lane, Stamford, CT 06902

Dear Ms. Bachman:

Pursuant to Connecticut General Statutes ("C.G.S.") §16-50aa, as amended, Sigfox NIP LLC ("Sigfox") hereby requests an order from the Connecticut Siting Council ("Council") to approve the shared use by Sigfox of an existing telecommunication tower at 168 Catoona Lane, Stamford, CT 06902(the "Property"). The existing 300-foot self-support tower is owned by American Tower Corp. ("ATC"), the underlying property is also owned by ATC. Sigfox requests that the Council find that the proposed shared use of the ATC tower satisfies the criteria of C.G.S. §16-50aa and issue an order approving the proposed shared use. A copy of this filing is being mailed to the City of Bridgeport and ATC.

#### Background

The existing ATC facility consists of a 300-foot self-support tower located within an approximate 10,000 square foot compound positioned +/- 300-feet north of the Catoona Lane/Alvord Lane intersection. There are existing carrier antennas located various elevations throughout the tower (see Sheet C-1 of Exhibit 1 for more information). Equipment associated with these antennas is located at various positions within the tower compound.

Sigfox is licensed by the Federal Communications Commission ("FCC") to provide wireless services throughout the State of Connecticut. Sigfox and ATC have agreed to the proposed shared use of the 168 Catoona Lane, Stamford, CT 06902 tower pursuant to mutually acceptable terms and conditions. Likewise, Sigfox and ATC have agreed to the proposed installation of equipment cabinets within an existing adjacent utility building located south of the tower within the compound. ATC has authorized Sigfox to apply for all necessary permits and approvals that may be required to share the existing tower. (See the attached Letter of Authorization).

Sigfox proposes to add one (1) omni antenna, one (1) line of coaxial cable; one (1) filter, and one (1) TMA on the existing tower at 292-feet above ground level. They propose to add one (1) equipment cabinet within the adjacent utility building.

## T-squared site services



- C.G.S. § 16-50aa(c)(1) provides that, upon written request for approval of a proposed shared use, "if the Council finds that the proposed shared use of the facility is technically, legally, environmentally and economically feasible and meets public safety concerns, the council shall issue an order approving such a shared use." Sigfox respectfully submits that the shared use of the tower satisfies these criteria.
- A. <u>Technical Feasibility</u>. The existing ATC tower is structurally capable of supporting Sigfox's proposed improvements. The proposed shared use of this tower is, therefore, technically feasible. A Feasibility Structural Analysis Report ("Structural Report") prepared for this project confirms that this tower can support Sigfox's proposed loading. A copy of the Structural Report has been included in this application.
- **B.** Legal Feasibility. Under C.G.S. § 16-50aa, the Council has been authorized to issue order approving the shared use of an existing tower such as the ATC tower. This authority complements the Council's prior-existing authority under C.G.S. § 16-50p to issue orders approving the construction of new towers that are subject to the Council's jurisdiction. In addition, § 16-50x(a) directs the Council to "give such consideration to the other state laws and municipal regulations as it shall deem appropriate" in ruling on requests for the shared use of existing tower facilities. Under the statutory authority vested in the Council, an order by the Council approving the requested shared use would permit the Applicant to obtain a building permit for the proposed installations.
- C. <u>Environmental Feasibility</u>. The proposed shared use of the ATC tower would have a minimal environmental effect for the following reasons:
  - 1. The proposed installation of one (1) omni antenna, one (1) line of coaxial cable; one (1) filter, and one (1) TMA on the existing tower at 292-feet above ground level, would have no visual impact on the area of the tower. Sigfox's cabinet will be installed within the facility compound. Sigfox's shared use of this tower therefore, does not cause any significant change or alteration in the physical or environmental characteristics of the existing site.
  - 2. Operation of Sigfox's antennas at this site would not exceed the RF emissions standard adopted by the Federal Communications Commission ("FCC"). Included in the EME report of this filing are the approximation tables that demonstrate that Sigfox's proposed facility will operate well within the FCC RF emissions safety standards.
  - 3. Under ordinary operating conditions, the proposed installation would not require the use of any water or sanitary facilities and would not generate air emissions or discharges to water bodies or sanitary facilities. After construction is complete the proposed installations would not generate any increased traffic to the ATC facility other

## T-squared site services



than periodic maintenance. The proposed shared use of the ATC tower, would, therefore, have a minimal environmental effect, and is environmentally feasible.

- **D.** Economic Feasibility. As previously mentioned, Sigfox has entered into an agreement with ATC for the shared use of the existing facility subject to mutually agreeable terms. The proposed tower sharing is, therefore, economically feasible. (Please see included authorization.)
- E. <u>Public Safety Concerns</u>. As discussed above, the tower is structurally capable of supporting Sigfox's full array of one (1) omni antenna, one (1) line of coaxial cable; one (1) filter, and one (1) TMA and all related equipment. Sigfox is not aware of any public safety concerns relative to the proposed sharing of the existing ATC tower.

#### Conclusion

For the reasons discussed above, the proposed shared use of the existing Crown Castle tower at 168 Catoona Lane, Stamford, CT 06902 satisfies the criteria state in C.G.S. §16-50aa and advances the Council's goal of preventing the unnecessary proliferation of towers in Connecticut. The Applicant, therefore, respectfully requests that the Council issue an order approving the prosed shared use.

Sincerely,

Craig A. Russo, P.E.

Engineer

T-Squared Site Services 2500 Highland Road, Suite 201 Hermitage, PA 16148

724.308.7855

craig.r@t-sqrd.com



#### Attachments:

Exhibit-1: Compound Plan and Elevation Depicting the Planned Changes

Exhibit-2: Structural Modification Report

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

Exhibit-4: Letter of Authorization

Exhibit-5: Proof of Mailing to Local Municipality

Exhibit-6: Proof of Mailing to Tower Owner/Property Owner

### Copies to:

Mr. Thomas F. Gill
Director of OPED
Office of Planning and Economic Development
999 Broad Street
Bridgeport, CT 06604

Mr. Jason Hastie Account Project Manager, Vertical Markets/Broadcast Repack American Tower Corporation 10 Presidential Way Woburn, MA 018901



## **EXHIBIT 1:**

Compound Plan and Elevation Depicting the Planned Changes



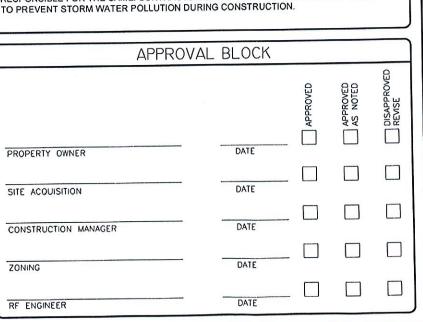
# SITE NUMBER: CT9001

**168 CATOONA LANE** STAMFORD, CT 06902 FAIRFIELD COUNTY



# VICINITY MAP Trap't Escape Room Adventures SITE-The Home Depot O Wetland Irrigation

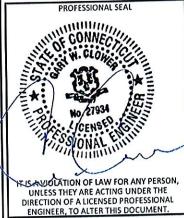
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| T-1 TITLE SHEET  C-1 COMPOUND PLAN & ELEVATION  A-1 ANTENNA PLAN AND DETAILS  E-1 ELECTRICAL DETAILS  G-1 GROUNDING DETAILS | Digitally signed by Gary Clower<br>DN: c=US, st=Pennsylvania,<br>I=Hermitage, o=T-Squared Site<br>Services, cn=Gary Clower,<br>email=gary.c@t-sqrd.com<br>Date: 2019.01.29 15:40:30 -05'0           |
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| VERIFY ALL PLANS AND EXISTING DIMENSION SHALL IMMEDIATELY NOTIFY THE DESIGNED DISCREPANCIES REFORE PROCEEDING WITH          | FULL-SIZE AT 11"X17". CONTRACTOR SHALL<br>DNS AND CONDITIONS ON THE JOB SITE AND<br>R / ENGINEER IN WRITING OF ANY<br>TH THE WORK OR MATERIAL ORDERS OR BE<br>DR SHALL USE BEST MANAGEMENT PRACTICE |







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SITE INFORMATION

168 CATOONA LANE STAMFORD, CT 06902 FAIRFIELD COUNTY

SHEET TITLE

TITLE SHEET

DRAWN BY: KE CHECKED BY: KE DATE: 1/21/19

SCALE: AS NOTED

#### SITE INFORMATION

SCOPE OF WORK:

PROJECT CONSISTS OF INSTALLING THE FOLLOWING:
• (1) PROCOM CXL-900-3LW OMNI ANTENNA

- (1) CAVITY FILTER
- (1) 1/2" COAX CABLE (1) RG6 CABLE
- (1) EQUIPMENT CABINET FOR BASE STATION

SIGFOX SITE NUMBER: 911 SITE ADDRESS

168 CATOONA LANE STAMFORD, CT 06902

TOWER OWNER:

AMERICAN TOWER CORP. 116 HUNTINGTON AVE. 11TH FLOOR

BOSTON, MA 02116

OWNER SITE NUMBER:

LATITUDE (NAD 83):

41.05282° -73.56304° FAIRFIELD

JURISDICTION: PARCEL OWNER: ADDRESS:

AMERICAN TOWER CORP.

116 HUNTINGTON AVE. 11TH FLOOR

BOSTON, MA 02116

GROUND ELEVATION:

SELF-SUPPORT

STRUCTURE TYPE: STRUCTURE HEIGHT:

301' (AGL)

## PROJECT TEAM

APPLICANT:

SIGFOX, INC. 545 BOYLSTON STREET, 10TH FLOOR BOSTON, MA. 02116

PROJECT MANAGEMENT FIRM:

T-SQUARED SITE SERVICES, LLC 2500 HIGHLAND ROAD, SUITE 201

HERMITAGE, PA. 16148

ENGINEERING FIRM:

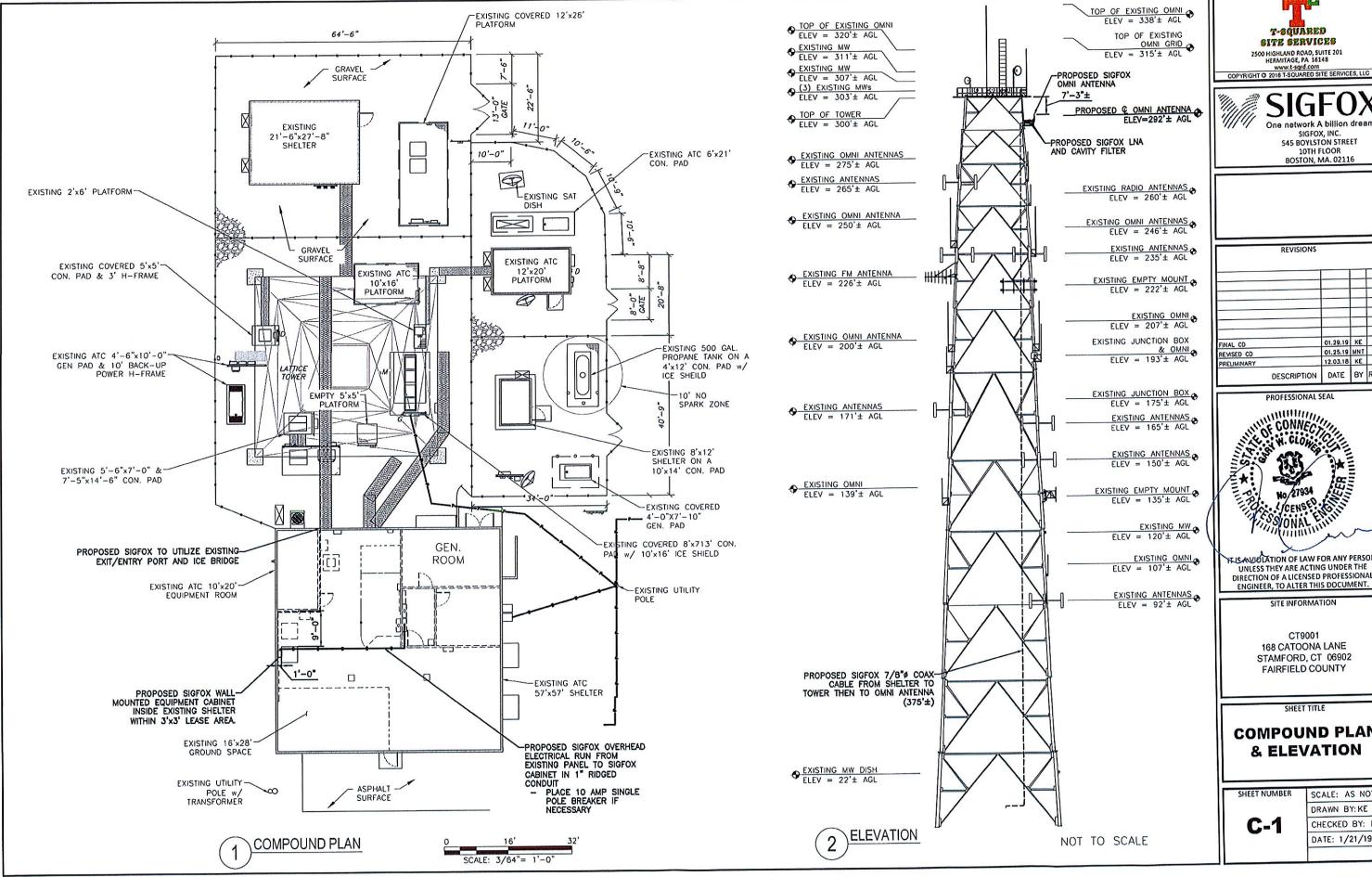
T-SQUARED SITE SERVICES, LLC 2500 HIGHLAND ROAD, SUITE 201

CODE COMPLIANCE

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE W CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNIT AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NO CONFORMING TO THE LATEST EDITIONS OF THE FOLLOWING CODES.

- 2015 INTERNATIONAL BUILDING CODE
- 2017 NATIONAL ELECTRIC CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- 2015 INTERNATIONAL EXISTING BUILDING CODE
- 2015 INTERNATIONAL FIRE CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2015 INTERNATIONAL RESIDENTIAL CODE

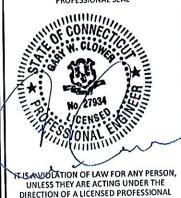
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SITE INFORMATION

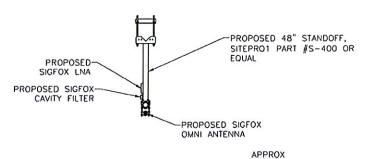
CT9001 168 CATOONA LANE STAMFORD, CT 06902 FAIRFIELD COUNTY

SHEET TITLE

## **COMPOUND PLAN** & ELEVATION

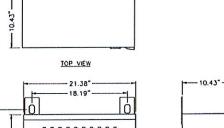
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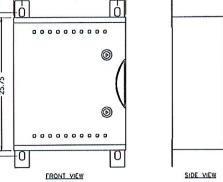
SCALE: AS NOTED



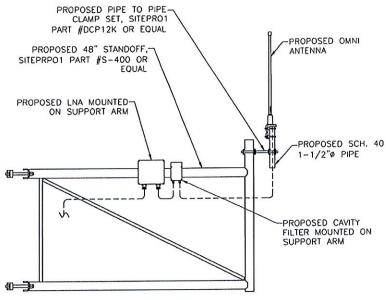
TRUE NORTH PROPOSED ANTENNA PLAN

- 21.38" -

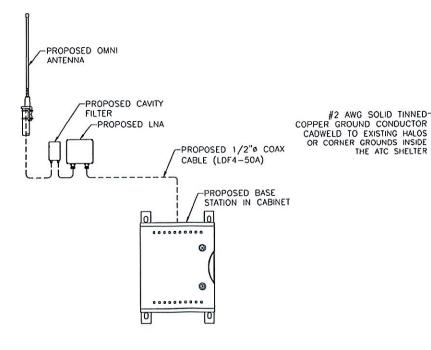




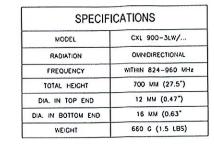
SIGFOX EQUIPMENT CABINET



ANTENNA MOUNTING DETAIL



EQUIPMENT SCHEMATIC

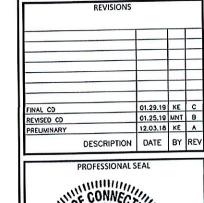


-ANTENNA MOUNTING BRACKET

#2 AWG SOLID TINNED-

THE ATC SHELTER

OMNI ANTENNA DETAIL 3



T-SQUARED

SITE SERVICES

2500 HIGHLAND ROAD, SUITE 201 HERMITAGE, PA 16148 www.t-sigd.com COPYRIGHT O 2016 T-SQUARED SITE SERVICES, LLC

One network A billion dreams

SIGFOX, INC.

545 BOYLSTON STREET

10TH FLOOR BOSTON, MA. 02116

TIS AVIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

SITE INFORMATION

CT9001 168 CATOONA LANE STAMFORD, CT 06902 FAIRFIELD COUNTY

SHEET TITLE

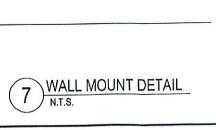
**ANTENNA PLAN AND DETAILS** 

-- PROPOSED SIGFOX EQUIPMENT CABINET

-PROPOSED 1-5/8"
UNI-STRUT ATTACHED
TO EXISTING SHELTER

WALL WITH MOUNTING BOLTS (TYP.)

> SCALE: AS NOTED DRAWN BY: KE CHECKED BY: KE DATE: 1/21/19



NOTE: ALL POSTS MUST BE GROUNDED

#### ELECTRICAL NOTES

- 1. ALL ELECTRICAL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE (NEC) AS WELL AS APPLICABLE STATE AND LOCAL CODES.
- ALL ELECTRICAL ITEMS SHALL BE U.L. APPROVED OR LISTED AND PROCURED SPECIFICATION REQUIREMENTS.
- THE ELECTRICAL WORK INCLUDES ALL LABOR AND MATERIAL DESCRIBED BY DRAWINGS AND SPECIFICATION INCLUDING INCIDENTAL WORK TO PROVIDE COMPLETE OPERATING AND APPROVED ELECTRICAL SYSTEM
- 4. GENERAL CONTRACTOR SHALL PAY FEES FOR PERMITS, AND IS RESPONSIBLE FOR OBTAINING SAID PERMITS AND COORDINATION OF
- 5. ELECTRICAL AND TELCO WIRING AT EXPOSED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC OR RIGID SCHEDULE 80 PVC FOR LOCATIONS SUBJECT TO PHYSICAL DAMAGE) (AS PERMITTED BY
- ELECTRICAL AND TELCO WIRING AT CONCEALED INDOOR LOCATIONS SHALL BE IN ELECTRICAL METALLIC TUBING, ELECTRICAL NONMETALLIC TUBING, OR RIGID NONMETALLIC TUBING (RIGID SCHEDULE 40 PVC AS PERMITTED BY CODE).
- ELECTRICAL AND TELCO WIRING OUTSIDE A BUILDING, ABOVE GRADE AND EXPOSED TO WEATHER SHALL BE IN WATER TIGHT GALVANIZED RIGID STEEL CONDUITS (RGS) AND WHERE REQUIRED IN LIQUID TIGHT FLEXIBLE METAL OR NONMETALLIC CONDUITS.
- BURIED CONDUIT SHALL BE RIGID NONMETALLIC CONDUIT (RIGID SCHEDULE 40 PVC); DIRECT BURIED IN AREAS OF OCCASIONAL LIGHT TRAFFIC, ENCASED IN REINFORCED CONCRETE IN AREAS OF HEAVY TRAFFIC
- LIQUID-TIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED INDOORS AND OUTDOORS IN AREAS WHERE VIBRATION OCCURS AND FLEXIBILITY IS NEFDED.
- ELECTRICAL WIRING SHALL BE COPPER WITH TYPE THHN, THWN-2, OR THIN INSULATION.

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| PANEL | NAME: N/A 1      | 20/240 VOL   | TS   | 3    | WIRE |      | 1 PHASE      | MAIN BREAKER     | R: 100A |
| CCT   | LOAD DESCRIPTION | LOAD<br>(VA) | POLE | AMP  | AMP  | POLE | LOAD<br>(VA) | LOAD DESCRIPTION | CCT     |
| 1     | SIGFOX BASE UNIT | 1440         | 1    | 10   |      |      |              |                  | 2       |
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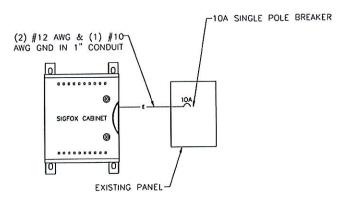
TOTAL CONNECTED LOAD (VA): 1,440
MAXIMUM LOAD CURRENT (A): 6
PANEL CAPACITY (A): 100
SPARE CAPACITY (A): 95

## 1 PANEL SCHEDULE N.T.S.

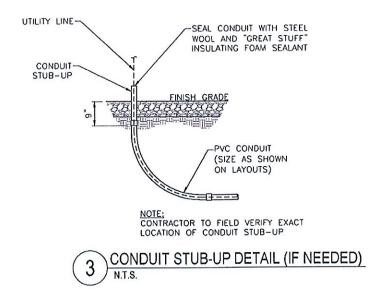
#### ELECTRICAL NOTES

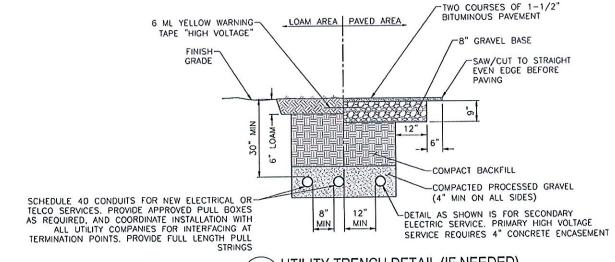
ISOLATION OF SIGFOX POWER MUST BE MAINTAINED USING A 10 AMP SINGLE POLE BREAKER, LABELED SIGFOX, BETWEEN POWER SOURCE AND SIGFOX EQUIPMENT.

SUPPLY NEW BREAKER IN EXISTING PANELS AND/OR NEW BREAKERS IN DISCONNECT IF NEEDED.



2 ELECTRICAL ONE-LINE DIAGRAM



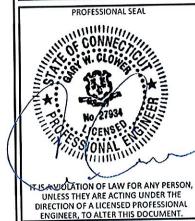


4 UTILITY TRENCH DETAIL (IF NEEDED)





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|             | DESCRIPTION | DATE     | BY  | REV |



SITE INFORMATION

CT9001 168 CATOONA LANE STAMFORD, CT 06902 FAIRFIELD COUNTY

SHEET TITLE

ELECTRICAL DETAILS

SHEET NUMBER

E-1

DRAWN BY: KE
CHECKED BY: KE
DATE: 1/21/19

SCALE: AS NOTED

#### GROUNDING NOTES

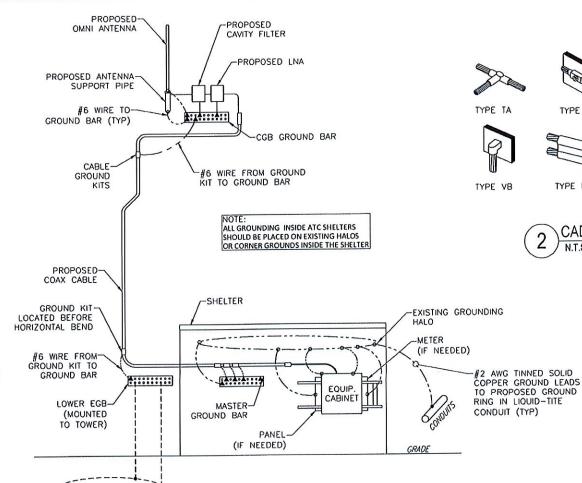
- GROUNDING SHALL COMPLY WITH BED ART. 250. ADDITIONALLY, GROUNDING, BONDING AND LIGHTING PROTECTION SHALL BE DONE IN ACCORDANCE WITH METRO MOD CELL SITE GROUNDING
- GROUND CABLE SHIELDS MINIMUM AT BOTH ENDS USING MANUFACTURERS CABLE GROUNDING KITS SUPPLIED BY PROJECT
- 3. USE #6 COPPER STRANDED WIRE WITH GREEN COLOR INSULATION FOR ABOVE GRADE GROUNDING (UNLESS OTHERWISE SPECIFIED) AND #2 SOLID TINNED BARE COPPER WIRE FOR BELOW GRADE GROUNDING AS INDICATED ON THE DRAWING
- 4. ALL POWER AND GROUND CONNECTIONS TO BE CRIMP-STYLE, COMPRESSION WIRE LUGS AND NUTS BY HARGER (OR APPROVED EQUAL) RATED FOR OPERATION AT NO LESS THAN 75'C OR CADWELD EXOTHERMIC WELD. DO NOT ALLOW BARE COPPER WIRE TO BE IN CONTACT WITH GALVANIZED STEEL.
- ROUTE GROUNDING CONDUCTORS ALONG THE SHORTEST AND STRAIGHTEST PATH POSSIBLE, EXCEPT AS OTHERWISE INDICATED. GROUNDING LEADS SHOULD NEVER BE BENT AT RIGHT ANGLE. ALWAYS MAKE AT LEAST 12" RADIUS BENDS. #6 WIRE CAN BE BENT AT6" RADIUS WHEN NECESSARY, BOND ANY METAL OBJECTS WITHIN 6 FEET OF PROJECT OWNER EQUIPMENT OR CABINET TO MASTER GROUND BAR OR GROUNDING RING.
- CONNECTIONS TO BE GROUND BARS SHALL BE MADE WITH TWO HOLE COMPRESSION TYPE COPPER LUGS. APPLY OXIDE INHIBITING COMPOUND TO ALL LOCATIONS.
- APPLY OXIDE INHIBITING COMPOUND TO ALL MECHANICAL GROUND
- CONTRACTOR SHALL PROVIDE AND INSTALL OMNI DIRECTIONAL ELECTRONIC MAKER SYSTEM (EMS) CALLS OVER EACH GROUND ROD AND BONDING POINT BETWEEN EXISTING TOWER/ MONOPOLE GROUNDING RING AND EQUIPMENT GROUNDING RING
- CONTRACTOR SHALL TEST COMPLETED GROUND SYSTEM AND RECORD RESULTS FOR PROJECT CLOSE-OUT DOCUMENTATION. 5 OHMNS MINIMUM RESISTANCE REQUIRED.
- 10. CONTRACTOR SHALL CONDUCT ANTENNA, CABLE, AND LNA RETURN-LOSS AND DISTANCE-TO-FAULT MEASUREMENTS (SWEEP TESTS) AND RECORD RESULTS FOR PROJECT CLOSE OUT.

#### GROUNDING LEGEND

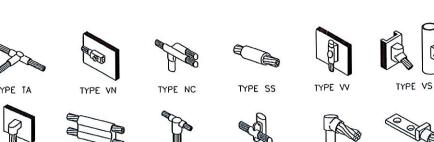
EXISTING TOWER

GROUND RING

COMPRESSION FITTING CONNECTION EXOTHERMIC WELD CONNECTION ---- PROPOSED GROUND WIRING ---- EXISTING GROUND WIRING







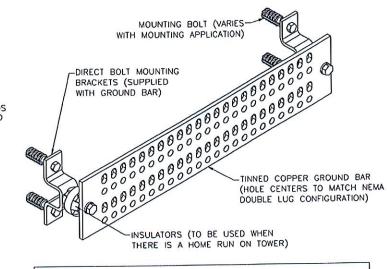
TYPE GY

TYPE GR

CADWELD GROUNDING CONNECTION DETAILS N.T.S.

TYPE GT

TYPE PI



|      |     | GROUND BAR   | SCHEDULE      |          |
|------|-----|--------------|---------------|----------|
| TYPE | OTY | MANUFACTURER | PART NO.      | REMARKS  |
| MGB  | 2   | COMMSCOPE    | UGBKIT-0120-T | OR EQUAL |
| CBG  | 1   | COMMSCOPE    | UGBKIT-0412   | OR EQUAL |

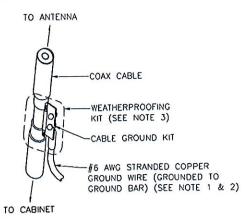
**GROUND BAR DETAIL** 

NOTES

1. DO NOT INSTALL CABLE GROUND KIT AT A BEND AND ALWAYS DIRECT GROUND WIRE DOWN TO GROUND BAR.

2. GROUNDING KIT SHALL BE TYPE AND PART NUMBER AS SUPPLIED OR RECOMMENDED BY CABLE MANUFACTURER.

WEATHER PROOFING SHALL BE TWO-PART TAPE SUPPLIED WITH KIT. COLD SHRINK SHALL NOT BE USED.



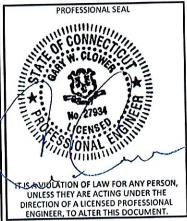
TYPE GL

COAXIAL CABLE GROUNDING 6



One network A billion dream SIGFOX, INC. 545 BOYLSTON STREET 10TH FLOOR BOSTON, MA. 02116

REVISIONS 01.29.19 KE C FINAL CD 01.25.19 MNT B 12.03.18 KE A REVISED CD DESCRIPTION DATE BY REV



SITE INFORMATION

CT9001 168 CATOONA LANE STAMFORD, CT 06902 FAIRFIELD COUNTY

SHEET TITLE

GROUNDING **DETAILS** 

SHEET NUMBER G-1

DRAWN BY: KE CHECKED BY: KE DATE: 12/3/18

SCALE: AS NOTED

**NOT USED** 

NOT USED 5 N.T.S.



## **EXHIBIT 2:**

**Structural Modification Report** 



Eng. Number OAA743185\_C2\_02
December 7 2018
Page 2 of 3

(1) 1/2" Coax

(1) 1/4" Coax

Spok Holdings

#### AMERICAN TOWER' Geo-broadcast 226.0 226.0 2 Shively 6025-1-1 (1) 7/8" Coax Pole Mount Solutions 222.0 222.0 1 **Empty Mount** Sector Frame Other US Dept Of 207.0 207.0 Sinclair SC281-L (1) 7/8" Coax Side Arm Homeland Security 200.0 200.0 2 TX RX Systems 101-68-10-X-03N Side Arm (2) 1 1/4" Coax Marcus Comm. 2 Antel BCD-87010 Side Arm 193.0 193.0 (3) 7/8" Coax Spok Holdings 30" x 30" Reflector 1 Leg 175.0 175.0 12" x 12" Junction Box 1 Leg 3 NextNet BTS-2500 (6) 5/16" Coax Clearwire 171.0 171.0 T-Arm Argus LLPX310R 3 (2) 2" conduit 15 RCU (12) 1 5/8" Coax (1) 3/8" Coax 165.0 165.0 Leg Metro PCS (1) 3/8" RET Control 6 Kathrein 800 10504 Cable Alcatel-Lucent ALU 800MHz External 3 Notch Filter 3 RFS IBC1900HB-2 (3) 1 1/4" Hybriflex 150.0 150.0 3 Alcatel-Lucent 800MHz RRH Sector Frame Sprint Nextel (1) 1.7" Hybrid 6 Alcatel-Lucent 1900MHz RRH 3 Nokia 2.5G MAA - AAHC RFS APXVSPP18-C-A20 3 139.0 139.0 1 Antel BCD-87010 Side Arm (1) 7/8" Coax Sensus USA 135.0 135.0 1 Blank Exhibit (1) 1/2" Coax Side Arm Senet 120.0 120.0 1 Channel Master Type 120 Stand-Off (1) 1/2" Coax Spok Holdings 107.0 107.0 (1) 1 1/4" Coax 1 TX RX Systems 101-68-10-X-03N Side Arm Marcus Comm. 3 Alcatel-Lucent RRH2X60-1900A-4R 3 Alcatel-Lucent RRH2x60 700 Alcatel-Lucent RRH4x45-B66 w/o Solar 3 (3) 1 1/4" Hybriflex 92.0 92.0 Shield Sector Frame Verizon 3 RFS DB-T1-6Z-8AB-OZ 6 Andrew SBNHH-1D65B 72" x 14" Panel 6 22.0 Til-Tek TA-2324-LHCP (1) 7/8" Coax Sirius XM Radio 22.0 1 Leg

**Equipment to be Removed** 

6.0

6.0

1

1

Trimble Acutime 2000

Channel Master Type 120

| Elevation¹ (ft) Mount RAD Oty          | Antenna | Mount Type | Lines | Carrier |  |  |  |  |
|--|---------|------------|-------|---------|--|--|--|--|
| No loading considered as to be removed |         |            |       |         |  |  |  |  |

Leg



Eng. Number OAA743185\_C2\_02 December 7 2018 Page 3 of 3

Proposed Equipment

| Elevation   | n¹ (ft) | Otri | 4-4                        |            |                  |            |
|-------------|---------|------|----------------------------|------------|------------------|------------|
| Mount       | RAD     | Qty  | Antenna                    | Mount Type | Lines            | Carrier    |
| 292.0 292.0 |         | 1    | Procom CXL 900-3LW         |            |                  |            |
|             | 292.0   | 1    | 5" x 3" x 2" Cavity Filter | Side Arm   | (1) 7/8" Coax    | SigfoxS.A. |
|             |         | 1    | Low Noise Amplifier        |            | 10.001.00 000000 | Ü          |

Mount 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).

Install proposed coax anywhere on the tower.

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.

TK/ANG



Authorized by "EOR" Dec 7 2018 4:52 PM cosign



## **EXHIBIT 3:**

General Power Density Table report (RF Emissions Analysis Report)

## T-squared site services





## RF EMISSIONS COMPLIANCE REPORT

# T-Squared Site Services on Behalf of SIGFOX

Site: Stamford (katoona), CT Site ID: CT9001 ATC Site ID: 88018 168 CATOONA LANE STAMFORD, CT 2/8/2019

## **Report Status:**

## SIGFOX Is Compliant



sealed 10feb2019 mike@h2dc.com H2DC PLLC Ct CoA#: 0001714

Prepared By:

Sitesafe, LLC

8618 Westwood Center Drive, Suite 315 Vienna, VA 22182

Voice 703-276-1100 Fax 703-276-1169

#### T-SQUARED SITE SERVICES



#### Engineering Statement in Re: Electromagnetic Energy Analysis T-Squared Site Services STAMFORD, CT

My signature on the cover of this document indicates:

That I, Michael A McGuire, am currently and actively licensed to provide (in this state/jurisdiction as indicated within the professional electrical engineering seal on the cover of this document) professional electrical engineering services, as an employee of Hurricane Hill Development Company, PLLC, a duly authorized/registered engineering firm (in this state, as applicable) on behalf of SiteSafe, LLC; and

That I am thoroughly familiar with the Rules and Regulations of the Federal Communications Commission ("the FCC" and "the FCC Rules") both in general and specifically as they apply to the FCC's Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; and

That the technical information serving as the basis for this report was supplied by T-Squared Site Services (See attached Site Summary and Carrier documents), and that SIGFOX's installations involve communications equipment, antennas and associated technical equipment at a location referred to as the "Stamford (katoona), CT" ("the site"); and

That SIGFOX proposes to operate at the site with transmit antennas listed in the carrier summary and with a maximum effective radiated power as specified by SIGFOX and shown on the worksheet, and that worst-case 100% duty cycle have been assumed; and

That in addition to the emitters specified in the worksheet, there are additional collocated pointto-point microwave facilities on this structure and, the antennas used are highly directional oriented at angles at or just below the horizontal and, that the energy present at ground level is typically so low as to be considered insignificant and have not been included in this analysis; and

That this analysis has been performed with the assumption that the ground immediately surrounding the tower is primarily flat or falling; and

That at this time, the FCC requires that certain licensees address specific levels of radiofrequency energy to which workers or members of the public might possibly be exposed (at §1.1307(b) of the FCC Rules); and

That such consideration of possible exposure of humans to radio-frequency radiation must utilize the standards set by the FCC, which is the Federal Agency having jurisdiction over communications facilities; and

That the FCC rules define two tiers of permissible exposure guidelines: 1) "uncontrolled environments," defined as situations in which persons may not be aware of (the "general public"), or may not be able to control their exposure to a transmission facility; and (2) "controlled environments," which defines situations in which persons are aware of their potential for exposure (industry personnel); and

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#### T-SQUARED SITE SERVICES



That this statement specifically addresses the uncontrolled environment (which is more conservative than the controlled environment) and the limit set forth in the FCC rules for licensees of SIGFOX's operating frequency as shown on the attacked antenna worksheet; and

That when applying the uncontrolled environment standards, the predicted Maximum Power Density at two meters above ground level from the proposed SIGFOX operation is no more than 0% of the maximum in any accessible area on the ground and

That it is understood per FCC Guidelines and OET65 Appendix A, that regardless of the existent radio-frequency environment, only those licenses whose contributions exceed five percent of the exposure limit pertinent to their operation(s) bear any responsibility for bringing any non-compliant area(s) into compliance; and

That when applying the uncontrolled environment standards, the cumulative predicted energy density from the proposed operation is no more than 6.17% of the maximum in any accessible area up to two meters above the ground per OET-65; and

That the calculations provided in this report are based on data provided by the client and antenna pattern data supplied by the antenna manufacturer, in accordance with FCC guidelines listed in OET-65. Horizontal and vertical antenna patterns are combined for modeling purposes to accurately reflect the energy two meters above ground level where on-axis energy refers to maximum energy two meters above the ground along the azimuth of the antenna and where area energy refers to the maximum energy anywhere two meters above the ground regardless of the antenna azimuth, accounting for cumulative energy from multiple antennas for the carrier and frequency range indicated; and

That the Occupational Safety and Health Administration has policies in place which address worker safety in and around communications sites, thus individual companies will be responsible for their employees' training regarding Radio Frequency Safety.

In summary, it is stated here that the proposed operation at the site would not result in exposure of the Public to excessive levels of radio-frequency energy as defined in the FCC Rules and Regulations, specifically 47 CFR 1.1307 and that SIGFOX's proposed operation is completely compliant.

Finally, it is stated that access to the tower should be restricted to communication industry professionals, and approved contractor personnel trained in radio-frequency safety; and that the instant analysis addresses exposure levels at two meters above ground level and does not address exposure levels on the tower, or in the immediate proximity of the antennas.

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## SIGFOX Stamford (katoona), CT Site Summary

| Carrier                       | Area Maximum Percentage MPE |
|-------------------------------|-----------------------------|
| AT&T Mobility, LLC            | 0.115 %                     |
| AT&T Mobility, LLC            | 0.075 %                     |
| AT&T Mobility, LLC            | 0.159 %                     |
| AT&T Mobility, LLC            | 0.029 %                     |
| Sirius XM Radio               | 0.055 %                     |
| Clearwire                     | 0.079 %                     |
| Sensus USA                    | 0.089 %                     |
| SIGFOX (Proposed)             | 0 %                         |
| MetroPCS                      | 0.09 %                      |
| MetroPCS                      | 0.076 %                     |
| Marcus Comm                   | 0.037 %                     |
| Spok Holdings                 | 0.123 %                     |
| Geo Broadcast Solutions       | 0.099 %                     |
| Sprint                        | 0.126 %                     |
| Sprint                        | 0.328 %                     |
| Sprint                        | 0.124 %                     |
| T-Mobile                      | 0.074 %                     |
| T-Mobile                      | 0.07 %                      |
| T-Mobile                      | 0.023 %                     |
| US Dept. of Homeland Security | 0.036 %                     |
| US Dept. of Homeland Security | 0.312 %                     |
| Unknown                       | 0.248 %                     |
| Verizon Wireless              | 1.413 %                     |
| Verizon Wireless              | 1.385 %                     |
| Verizon Wireless              | 0.534 %                     |
| Verizon Wireless              | 0.471 %                     |
| Composite Site MPE:           | 6.17 %                      |

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**T-SQUARED SITE SERVICES**2500 Highland Road | Suite 201
Hermitage, PA 16148 | 724.308.7855 www.t-sqrd.com



#### AT&T Mobility, LLC Stamford (katoona), CT **Carrier Summary**

Frequency: Maximum Permissible Exposure (MPE):

2300 MHz 1000 μW/cm^2 1.14727 μW/cm^2 0.11473 %

Maximum power density at ground level:
Highest percentage of Maximum Permissible Exposure:

|              |              |                    |     |                | On                                | Axis              | Area                              |                |  |
|--------------|--------------|--------------------|-----|----------------|-----------------------------------|-------------------|-----------------------------------|----------------|--|
| Antenna Make | Model        | Height Orientation |     | ERP<br>(Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |  |
| KMW          | EPBQ-654L8H6 | 235                | 0   | 2209           | 0.898255                          | 0.089825          | 0.898255                          | 0.089825       |  |
| KMW          | EPBQ-654L8H6 | 235                | 120 | 2209           | 0.898255                          | 0.089825          | 0.898255                          | 0.089825       |  |
| KMW          | EPBQ-654L8H6 | 235                | 240 | 2209           | 0.893752                          | 0.089375          | 0.898176                          | 0.089818       |  |

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## T-squared site services



#### AT&T Mobility, LLC Stamford (katoona), CT Carrier Summary

 Frequency:
 1900
 MHz

 Maximum Permissible Exposure (MPE):
 1000
 µWk/cm²2

 Maximum power density at ground level:
 0.75117
 µW/cm²2

 Highest percentage of Maximum Permissible Exposure:
 0.07512
 %

|              |                 |                  |                               |                | On /                              | Axis              | Area                              |                   |
|--------------|-----------------|------------------|-------------------------------|----------------|-----------------------------------|-------------------|-----------------------------------|-------------------|
| Antenna Make | Mo del          | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE |
| CCI Antennas | OPA-65R-LCUU-H6 | 235              | 0                             | 1755           | 0.579304                          | 0.05793           | 0.743571                          | 0.074357          |
| CCI Antennas | OPA-65R-LCUU-H6 | 235              | 120                           | 1765           | 0.580196                          | 0.05802           | 0.743571                          | 0.074357          |
| CCI Antennas | OPA-65R-LCUU-H6 | 235              | 240                           | 1755           | 0.585031                          | 0.058503          | 0.743571                          | 0.074357          |

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## T-SQUARED SITE SERVICES



#### T-Mobile Stamford (katoona), CT Carrier Summary

 Frequency:
 700
 MHz

 Maximum Permissible Exposure (MPE):
 466.67
 pVW/cm^2

 Maximum power density at ground level:
 0.34623
 µW/cm^2

 Highest percentage of Maximum Permissible Exposure:
 0.07419
 %

| Antenna Make |                |                  |                               |                | On A                              | Axis           | Area                              |                |
|--------------|----------------|------------------|-------------------------------|----------------|-----------------------------------|----------------|-----------------------------------|----------------|
|              | Model          | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| ANDREW       | LNX-6515DS-VTM | 265              | 0                             | 1854           | 0.343907                          | 0.073694       | 0.345416                          | 0.074018       |
| ANDREW       | LNX-6515DS-VTM | 265              | 120                           | 1854           | 0.343798                          | 0.073671       | 0.345416                          | 0.074018       |
| ANDREW       | LNX-6515DS-VTM | 265              | 240                           | 1854           | 0.343907                          | 0.073694       | 0.345416                          | 0.074018       |

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## T-squared site services



#### AT&T Mobility, LLC Stamford (katoona), CT Carrier Summary

 Frequency:
 737
 MHz

 Maximum Permissible Exposure (MPE):
 491.33
 µW/cm²2

 Maximum power density at ground level:
 0.78283
 µW/cm²2

 Highest percentage of Maximum Permissible Exposure:
 0.15933
 %

| Antenna Make |             |                  |                               |                | On A                              | Axis           | Area                              |                |
|--------------|-------------|------------------|-------------------------------|----------------|-----------------------------------|----------------|-----------------------------------|----------------|
|              | Model       | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | Max Power<br>Density<br>(uW/cm^2) | Percent of MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| ANDREW       | SBNHH-1D65A | 235              | 0                             | 2148           | 0.549152                          | 0.111768       | 0.740165                          | 0.150644       |
| ANDREW       | SBNHH-1D65A | 235              | 120                           | 2148           | 0.549152                          | 0.111768       | 0.740165                          | 0.150644       |
| ANDREW       | SBNHH-1D65A | 235              | 240                           | 2148           | 0.532713                          | 0.108422       | 0.740165                          | 0.150644       |

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## T-squared site services



#### AT&T Mobility, LLC Stamford (katoona), CT Carrier Summary

 Frequency:
 850
 MHz

 Maximum Permissible Exposure (MPE):
 568.67
 µW/cm^2

 Maximum power density at ground level:
 0.16611
 µW/cm^2

 Highest percentage of Maximum Permissible Exposure:
 0.02931
 %

| Antenna Make |       |                  |                               | -           | On A                              | Axis              | Area                              |                |
|--------------|-------|------------------|-------------------------------|-------------|-----------------------------------|-------------------|-----------------------------------|----------------|
|              | Model | Helght<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(uW/cm^2) | Percent of MPE |
| Powerwave    | 7770  | 235              | 0                             | 547         | 0.091895                          | 0.016217          | 0.142048                          | 0.025067       |
| Powerwave    | 7770  | 235              | 120                           | 547         | 0.091895                          | 0.016217          | 0.142048                          | 0.025067       |
| Powerwave    | 7770  | 235              | 240                           | 547         | 0.092012                          | 0.016237          | 0.142048                          | 0.025067       |

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## T-squared site services



#### Sirius XM Radio Stamford (katoona), CT Carrier Summary

 Frequency:
 2350
 MHz

 Maximum Permissible Exposure (MPE):
 1000
 µW/cm²2

 Maximum power density at ground level:
 0.54666
 µW/cm²2

 Highest percentage of Maximum Permissible Exposure:
 0.05467
 %cm²2

|              |            |                  |                               |             | On                                | Axis              | Area                             |                |  |
|--------------|------------|------------------|-------------------------------|-------------|-----------------------------------|-------------------|----------------------------------|----------------|--|
| Antenna Make | Model      | Height<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(uW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µWcm^2) | Percent of MPE |  |
| TIL-TEK      | TA-2350-T0 | 270              | 0                             | 1222        | 0.27333                           | 0.027333          | 0.27333                          | 0.027333       |  |
| TIL-TEK      | TA-2350-T0 | 270              | 0                             | 1222        | 0.27333                           | 0.027333          | 0.27333                          | 0.027333       |  |

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## T-squared site services



#### Clearwire Stamford (katoona), CT Carrier Summary

Frequency: 2500
Maximum Permissible Exposure (MPE): 1000
Maximum power density at ground level: 0.78697

Maximum power density at ground level: 0.
Highest percentage of Maximum Permissible Exposure: 0.

0.78697 µW/cm^2 0.0787 %

µW/cm^2

On Axis Area Max Power Density (μW/cm^2) Max Power Density (μW/cm^2) 0.739197 Height (feet) Percent of MPE Percent of MPE Orientation Antenna Make Model (degrees true) ERP (Watts) ARGUS LLPX310R 171 1542 0.399273 0.039927 0.07392 ARGUS LLPX310R 171 120 1542 0.402094 0.040209 0.739197 0.07392 **ARGUS** LLPX310R 171 240 1542 0.399273 0.039927 0.739197 0.07392

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## T-SQUARED SITE SERVICES



#### Sensus USA Stamford (katoona), CT Carrier Summary

µW/cm^2

µW/cm^2

Frequency: 900
Maximum Permissible Exposure (MPE): 600
Maximum power density at ground level: 0.53559
Highest percentage of Maximum Permissible Exposure: 0.08927

|              |             |                  |                               |             | On /                              | Axis           | Area                              |                |  |
|--------------|-------------|------------------|-------------------------------|-------------|-----------------------------------|----------------|-----------------------------------|----------------|--|
| Antenna Make | Model       | Height<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(μW/cm^2) | Percent of MPE | Max Power<br>Density<br>(μW/cm^2) | Percent of MPE |  |
| Antel        | BCD-87010-5 | 139              | 0                             | 1000        | 0.531692                          | 0.088615       | 0.535591                          | 0.089265       |  |

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## T-SQUARED SITE SERVICES



#### SIGFOX (Proposed) Stamford (katoona), CT **Carrier Summary**

Maximum Permissible Exposure (MPE):

905.2 603.47 µW/cm^2 µW/cm^2 0.00045

Maximum power density at ground level: Highest percentage of Maximum Permissible Exposure:

0.00007

|              |             |                  |                               |             | On A                              | Axis              | Are                               | ea             |
|--------------|-------------|------------------|-------------------------------|-------------|-----------------------------------|-------------------|-----------------------------------|----------------|
| Antenna Make | Model       | Height<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(μW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| Amphenol     | CXL 900-3LW | 292              | o                             | 1           | 0.000448                          | 0.000074          | 0.000448                          | 0.000074       |

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## T-squared site services



#### MetroPCS Stamford (katoona), CT Carrier Summary

 Frequency:
 2100
 MHz

 Maximum Permissible Exposure (MPE):
 1000
 µW/cm^2

 Maximum power density at ground level:
 0.89774
 µW/cm^2

 Highest percentage of Maximum Permissible Exposure:
 0.08977
 %

|     | Antenna Make   |          |                  |                               |                | On Axis                           |                   | Area                              |                |
|-----|----------------|----------|------------------|-------------------------------|----------------|-----------------------------------|-------------------|-----------------------------------|----------------|
| 822 |                | Model    | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
|     | Kathrein-Scala | 80010504 | 165              | 0                             | 2245           | 0.404136                          | 0.040414          | 0.613107                          | 0.061311       |
|     | Kathrein-Scala | 80010504 | 165              | 120                           | 2245           | 0.404136                          | 0.040414          | 0.613107                          | 0.061311       |
|     | Kathrein-Scala | 80010504 | 165              | 240                           | 2245           | 0.404577                          | 0.040458          | 0.613107                          | 0.061311       |

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## T-squared site services



#### **MetroPCS** Stamford (katoona), CT **Carrier Summary**

Frequency: Maximum Permissible Exposure (MPE):

1900 MHz 1000

Maximum power density at ground level: Highest percentage of Maximum Permissible Exposure:

µW/cm^2

0.76139 µW/cm^2 0.07614 %

|                |          |                  |                               | -           | On                                | Axis           | Are                               | a              |
|----------------|----------|------------------|-------------------------------|-------------|-----------------------------------|----------------|-----------------------------------|----------------|
| Antenna Make   | Model    | Height<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(μW/cm^2) | Percent of MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| Kathrein-Scala | 80010504 | 165              | 0                             | 2114        | 0.400446                          | 0.040045       | 0.457407                          | 0.045741       |
| Kathrein-Scala | 80010504 | 165              | 120                           | 2114        | 0.400446                          | 0.040045       | 0.457407                          | 0.045741       |
| Kathrein-Scala | 80010504 | 165              | 240                           | 2114        | 0.400446                          | 0.040045       | 0.457407                          | 0.045741       |

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## T-squared site services



#### Marcus Comm Stamford (katoona), CT Carrier Summary

 Frequency:
 456
 MHz

 Maximum Permissible Exposure (MPE):
 304
 µW/cm^2

 Maximum power density at ground level:
 0.11391
 µW/cm^2

 Highest percentage of Maximum Permissible Exposure:
 0.03747
 %

|              |       |                  |                               |             | On                                | Axis              | Area                              |                   |  |
|--------------|-------|------------------|-------------------------------|-------------|-----------------------------------|-------------------|-----------------------------------|-------------------|--|
| Antenna Make | Model | Height<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(μW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE |  |
| Generic      | Omni  | 324              | 0                             | 100         | 0.053611                          | 0.017635          | 0.053611                          | 0.017635          |  |
| Generic      | Omni  | 320              | 0                             | 100         | 0.060302                          | 0.019836          | 0.060302                          | 0.019836          |  |

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## T-squared site services



#### Spok Holdings Stamford (katoona), CT Carrier Summary

 Frequency:
 900
 MHz

 Maximum Permissible Exposure (MPE):
 600
 µW/cm²2

 Maximum power density at ground level:
 0.73797
 µW/cm²2

 Highest percentage of Maximum Permissible Exposure:
 0.123
 %

|              |             |                  |                               |             | On Axis                           |                   | Are                               | ea             |  |
|--------------|-------------|------------------|-------------------------------|-------------|-----------------------------------|-------------------|-----------------------------------|----------------|--|
| Antenna Make | Model       | Helght<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(μW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |  |
| Antel        | BCD-87010-5 | 193              | 0                             | 1000        | 0.368987                          | 0.061498          | 0.368987                          | 0.061498       |  |
| Antel        | BCD-87010-5 | 193              | 0                             | 1000        | 0.368987                          | 0.061498          | 0.368987                          | 0.061498       |  |

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## T-squared site services



#### **Geo Broadcast Solutions** Stamford (katoona), CT **Carrier Summary**

Maximum Permissible Exposure (MPE):

200 µW/cm^2

0.19851 µW/cm^2

Maximum power density at ground level:
Highest percentage of Maximum Permissible Exposure:

0.09925

|              |       |                  |                               |             | On A                              | Axis              | Area                              |                   |  |
|--------------|-------|------------------|-------------------------------|-------------|-----------------------------------|-------------------|-----------------------------------|-------------------|--|
| Antenna Make | Model | Height<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(μW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(μW/cm^2) | Percent of<br>MPE |  |
| Shively Labs | 6025  | 226              | 0                             | 100         | 0.098238                          | 0.049119          | 0.099255                          | 0.049627          |  |
| Shively Labs | 6025  | 226              | 0                             | 100         | 0.098238                          | 0.049119          | 0.099255                          | 0.049627          |  |

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## T-squared site services



#### **Sprint** Stamford (katoona), CT **Carrier Summary**

Frequency: Maximum Permissible Exposure (MPE):

2500 MHz 1000 µW/cm^2 1.25531 µW/cm^2 0.12553 %

Maximum power density at ground level:
Highest percentage of Maximum Permissible Exposure:

|                 |                 |                  |                               |                | On A                              | Axis              | Area                              |                |
|-----------------|-----------------|------------------|-------------------------------|----------------|-----------------------------------|-------------------|-----------------------------------|----------------|
| Antenna<br>Make | Model           | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| Nokia           | 2.5G MAA - AAHC | 150              | 0                             | 3389           | 0.982627                          | 0.098263          | 1.243418                          | 0.124342       |
| Nokia           | 2.5G MAA - AAHC | 150              | 120                           | 3389           | 0.982627                          | 0.098263          | 1.243418                          | 0.124342       |
| Nokia           | 2.5G MAA - AAHC | 150              | 240                           | 3389           | 0.986391                          | 0.098639          | 1.243418                          | 0.124342       |

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**T-SQUARED SITE SERVICES**2500 Highland Road | Suite 201
Hermitage, PA 16148 | 724.308.7855 www.t-sqrd.com



#### Sprint Stamford (katoona), CT Carrier Summary

 Frequency:
 1900
 MHz

 Maximum Permissible Exposure (MPE):
 1000
 µW/cm^2

 Maximum power density at ground level:
 3.27842
 µW/cm^2

 Highest percentage of Maximum Permissible Exposure:
 0.32784
 %

| Antenna Make | Model           | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | On Axis                           |                   | Area                              |                |
|--------------|-----------------|------------------|-------------------------------|----------------|-----------------------------------|-------------------|-----------------------------------|----------------|
|              |                 |                  |                               |                | Max Power<br>Density<br>(μW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(μW/cm^2) | Percent of MPE |
| RFS          | APXVSPP18-C-A20 | 150              | 0                             | 3804           | 0.832096                          | 0.08321           | 1.516412                          | 0.151641       |
| RFS          | APXVSPP18-C-A20 | 150              | 120                           | 3804           | 0.832096                          | 0.08321           | 1.516412                          | 0.151641       |
| RFS          | APXVSPP18-C-A20 | 150              | 240                           | 3804           | 0.835716                          | 0.083572          | 1.516412                          | 0.151641       |
| RFS          | APXVSPP18-C-A20 | 150              | 0                             | 3804           | 0.832096                          | 0.08321           | 1.516412                          | 0.151641       |
| RFS          | APXVSPP18-C-A20 | 150              | 120                           | 3804           | 0.832096                          | 0.08321           | 1.516412                          | 0.151641       |
| RFS          | APXVSPP18-C-A20 | 150              | 240                           | 3804           | 0.835716                          | 0.083572          | 1.516412                          | 0.151641       |

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## T-squared site services



#### Sprint Stamford (katoona), CT Carrier Summary

| Antenna Make | Model           | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | On Axis                           |                   | Area                              |                |
|--------------|-----------------|------------------|-------------------------------|----------------|-----------------------------------|-------------------|-----------------------------------|----------------|
|              |                 |                  |                               |                | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| RFS          | APXVSPP18-C-A20 | 150              | 0                             | 2168           | 0.686134                          | 0.119397          | 0.699536                          | 0.121729       |
| RFS          | APXVSPP18-C-A20 | 150              | 120                           | 2168           | 0.686134                          | 0.119397          | 0.699536                          | 0.121729       |
| RFS          | APXVSPP18-C-A20 | 150              | 240                           | 2168           | 0.68818                           | 0.119753          | 0.699536                          | 0.121729       |

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## T-SQUARED SITE SERVICES



#### T-Mobile Stamford (katoona), CT Carrier Summary

 Frequency:
 2100
 MHz

 Maximum Permissible Exposure (MPE):
 1000
 µW/cm²2

 Maximum power density at ground level:
 0.70305
 µW/cm²2

 Highest percentage of Maximum Permissible Exposure:
 0.0703
 %

| Antenna Make | Model            | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | On Axis                           |                   | Area                              |                |
|--------------|------------------|------------------|-------------------------------|----------------|-----------------------------------|-------------------|-----------------------------------|----------------|
|              |                  |                  |                               |                | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| Ericsson     | AIR 32 B2A/B66Aa | 265              | 0                             | 2313           | 0.658844                          | 0.065884          | 0.658844                          | 0.065884       |
| Ericsson     | AIR 32 B2A/B66Aa | 265              | 120                           | 2313           | 0.658844                          | 0.065884          | 0.658844                          | 0.065884       |
| Ericsson     | AIR 32 B2A/B66Aa | 265              | 240                           | 2313           | 0.65491                           | 0.065491          | 0.657702                          | 0.06577        |

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## T-SQUARED SITE SERVICES



## T-Mobile Stamford (katoona), CT **Carrier Summary**

Frequency: Maximum Permissible Exposure (MPE): Maximum power density at ground level: Highest percentage of Maximum Permissible Exposure:

1000 µW/cm^2 0.22861 µW/cm^2 0.02286 %

| Antenna Make |                |                  |                               |                | On /                              | Axis           | Area                              |                |
|--------------|----------------|------------------|-------------------------------|----------------|-----------------------------------|----------------|-----------------------------------|----------------|
|              | Model          | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| Ericsson     | AIR 21 B2A B4P | 265              | 0                             | 2061           | 0.135462                          | 0.013546       | 0.155748                          | 0.015575       |
| Ericsson     | AIR 21 B2A B4P | 265              | 120                           | 2061           | 0.135462                          | 0.013546       | 0.155748                          | 0.015575       |
| Ericsson     | AIR 21 B2A B4P | 265              | 240                           | 2061           | 0.135503                          | 0.01355        | 0.155748                          | 0.015575       |

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## US Dept. of Homeland Security Stamford (katoona), CT Carrier Summary

 Frequency:
 150
 MHz

 Maximum Permissible Exposure (MPE):
 200
 µW/cm^2

 Maximum power density at ground level:
 0.07253
 µW/cm^2

 Highest percentage of Maximum Permissible Exposure:
 0.03626
 %

| Antenna Make Model |       |                  |                               | -           | On A                              | Axis              | Arc                               | ea             |
|--------------------|-------|------------------|-------------------------------|-------------|-----------------------------------|-------------------|-----------------------------------|----------------|
|                    | Model | Height<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(μW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| SINCLAIR           | SC281 | 250              | 0                             | 100         | 0.029262                          | 0.014631          | 0.029729                          | 0.014865       |
| SINCLAIR           | SC281 | 207              | 0                             | 100         | 0.042971                          | 0.021486          | 0.043673                          | 0.021836       |

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## T-squared site services



## US Dept. of Homeland Security Stamford (katoona), CT Carrier Summary

 Frequency:
 450
 MHz

 Maximum Permissible Exposure (MPE):
 300
 µW/cm^2

 Maximum power density at ground level:
 0.9364
 µW/cm^2

 Highest percentage of Maximum Permissible Exposure:
 0.31213
 %

|                 |          |                  |                               |                | On /                              | kxis           | Area                              |                   |
|-----------------|----------|------------------|-------------------------------|----------------|-----------------------------------|----------------|-----------------------------------|-------------------|
| Antenna Make    | Model    | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | Max Power<br>Density<br>(μW/cm^2) | Percent of MPE | Max Power<br>Density<br>(μW/cm^2) | Percent of<br>MPE |
| Rohde & Schwarz | ADD090   | 275              | 0                             | 100            | 0.102918                          | 0.034306       | 0.102918                          | 0.034306          |
| Rohde & Schwarz | ADD090   | 275              | 0                             | 100            | 0.102918                          | 0.034306       | 0.102918                          | 0.034306          |
| Rohde & Schwarz | ADD090   | 275              | 0                             | 100            | 0.102918                          | 0.034306       | 0.102918                          | 0.034306          |
| Rohde & Schwarz | ADD090   | 275              | 0                             | 100            | 0.102918                          | 0.034306       | 0.102918                          | 0.034306          |
| Rohde & Schwarz | ADD090   | 275              | 0                             | 100            | 0.102918                          | 0.034306       | 0.102918                          | 0.034306          |
| Rohde & Schwarz | ADD090   | 275              | 0                             | 100            | 0.102918                          | 0.034306       | 0.102918                          | 0.034306          |
| Rohde & Schwarz | ADD090   | 275              | 0                             | 100            | 0.102918                          | 0.034306       | 0.102918                          | 0.034306          |
| Rohde & Schwarz | ADD090   | 275              | 0                             | 100            | 0.102918                          | 0.034306       | 0.102918                          | 0.034306          |
| Rohde & Schwarz | ADD090   | 275              | 0                             | 100            | 0.102918                          | 0.034306       | 0.102918                          | 0.034306          |
| SINCLAIR        | SC381-HL | 246              | 0                             | 100            | 0.029822                          | 0.009941       | 0.029822                          | 0.009941          |

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### Unknown Stamford (katoona), CT **Carrier Summary**

Frequency:

Antenna Make

Dielectric

470

Maximum Permissible Exposure (MPE):

313.33

MHz µW/cm^2

0.77602

µW/cm^2

Maximum power density at ground level: Highest percentage of Maximum Permissible Exposure:

TLP-08M-2E

Height

(feet)

270

0.24767

On Axis Max Power
Orientation Density
(degrees true) ERP (Watts) (µW/cm^2) Max Power Density (µW/cm^2) Percent of MPE Percent of MPE 0.776021 0.247666 0.776021 0.247666

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## T-SQUARED SITE SERVICES



Frequency: Maximum Permissible Exposure (MPE): MHz

850 566.67 μW/cm^2

μW/cm^2 % 8.00593

Maximum power density at ground level: Highest percentage of Maximum Permissible Exposure:

1.41281

| Antenna Make |             |                  |                               |                | On A                              | Axis           | Arc                               | ea             |
|--------------|-------------|------------------|-------------------------------|----------------|-----------------------------------|----------------|-----------------------------------|----------------|
|              | Model       | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE | Max Power<br>Density<br>(μW/cm^2) | Percent of MPE |
| ANDREW       | SBNHH-1D65B | 92               | 0                             | 2892           | 4.392171                          | 0.775089       | 4.807162                          | 0.848323       |
| ANDREW       | SBNHH-1D65B | 92               | 120                           | 2892           | 4.392171                          | 0.775089       | 4.807162                          | 0.848323       |
| ANDREW       | SBNHH-1D65B | 92               | 240                           | 2892           | 4.276637                          | 0.754701       | 4.807162                          | 0.848323       |

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**T-SQUARED SITE SERVICES**2500 Highland Road | Suite 201
Hermitage, PA 16148 | 724.308.7855 www.t-sqrd.com



 Frequency:
 2100
 MHz

 Maximum Permissible Exposure (MPE):
 1000
 µW/cm²2

 Maximum power density at ground level:
 13.85044
 µW/cm²2

 Highest percentage of Maximum Permissible Exposure:
 1.38504
 %

| Antenna Make |        |                  |                               |             | On                                | Axis              | Ar                                | ea             |
|--------------|--------|------------------|-------------------------------|-------------|-----------------------------------|-------------------|-----------------------------------|----------------|
|              | Model  | Height<br>(feet) | Orientation<br>(degrees true) | ERP (Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of<br>MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| Generic      | 6 Foot | 92               | 0                             | 4277        | 12.203756                         | 1.220376          | 12.251038                         | 1.225104       |
| Generic      | 6 Foot | 92               | 120                           | 4277        | 12.203756                         | 1.220376          | 12.251038                         | 1.225104       |
| Generic      | 6 Foot | 92               | 240                           | 4277        | 12 130371                         | 1 213037          | 12 251038                         | 1 225104       |

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# T-squared site services



 Frequency:
 1900
 MHz

 Maximum Permissible Exposure (MPE):
 1000
 µW/cm^2

 Maximum power density at ground level:
 5,33901
 µW/cm^2

 Highest percentage of Maximum Permissible Exposure:
 0,5339
 %

|              |        |    |                               | -    | On                                | Axis           | Arc                               | ea             |
|--------------|--------|----|-------------------------------|------|-----------------------------------|----------------|-----------------------------------|----------------|
| Antenna Make | Model  |    | Orientation<br>(degrees true) |      | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE |
| Generic      | 6 Foot | 92 | 0                             | 5060 | 2.406006                          | 0.240601       | 5.149232                          | 0.514923       |
| Generic      | 6 Foot | 92 | 120                           | 5060 | 2.406357                          | 0.240636       | 5.149232                          | 0.514923       |
| Generic      | 6 Foot | 92 | 240                           | 5060 | 2.406006                          | 0.240601       | 5.149231                          | 0.514923       |

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Frequency:
Maximum Permissible Exposure (MPE):
Maximum power density at ground level;
Highest percentage of Maximum Permissible Exposure:

751 MHz 500.67 µW/cm^2 2.35812 µW/cm^2 0.471 %

| _Antenna Make |             |                  |                               |                | On /                              | Axis           | Are                               | a              |
|---------------|-------------|------------------|-------------------------------|----------------|-----------------------------------|----------------|-----------------------------------|----------------|
|               | Model       | Height<br>(feet) | Orientation<br>(degrees true) | ERP<br>(Watts) | Max Power<br>Density<br>(µW/cm^2) | Percent of MPE | Max Power<br>Density<br>(μW/cm^2) | Percent of MPE |
| ANDREW        | SBNHH-1D65B | 92               | 0                             | 1362           | 1.229924                          | 0.245657       | 1.993586                          | 0.398186       |
| ANDREW        | SBNHH-1D65B | 92               | 120                           | 1362           | 1.229925                          | 0.245657       | 1.993586                          | 0.398186       |
| ANDREW        | SBNHH-1D65B | 92               | 240                           | 1362           | 1.228313                          | 0.245335       | 1.993586                          | 0.398186       |

Page **30** of **30** 



## **EXHIBIT 4:**

Letter of Authorization

T-squared site services
2500 Highland Road | Suite 201
Hermitage, PA 16148 | 724.308.7855
www.t-sqrd.com



#### LETTER OF AUTHORIZATION

SITE NO: See Site List Below

SITE NAME: See Site List Below

ADDRESS: See Site List Below

I, Margaret Robinson, Senior Counsel, US Tower Division on behalf of American Tower\*, owner of the tower facility located at the address identified below (the "Tower Facilities"), do hereby authorize SIGFOX NIP LLC dba SIGFOX S.A., its successors and assigns, to act as American Tower's non-exclusive agent for the purpose of filing and securing any zoning, land-use, building permit and/or electrical permit application(s) and approvals of the applicable jurisdiction for and to conduct the construction of the installation of antennas and related telecommunications equipment on the Tower Facility located at the above address. This installation shall not affect adjoining lands and will occur only within the area leased by American Tower.

American Tower understands that the application may be denied, modified or approved with conditions. The above authorization is limited to the acceptance by American Tower of conditions related to American Tower's installation. Any such conditions of approval or modifications will not be effective unless approved in writing by American Tower.

The above authorization does not permit SIGFOX NIP LLC dba SIGFOX S.A to modify or alter any existing permit(s) and/or zoning or land-use conditions or impose any additional conditions unrelated to American Tower's installation of telecommunications equipment without the prior written approval of American Tower.

Sites Authorized (continued on the next page):

| CT9000 | ATC 302469 |
|--------|------------|
| CT9001 | ATC 88018  |
| CT9081 | ATC 88017  |
| CT9122 | ATC 88008  |
| CT9123 | ATC 88011  |
| CT9184 | ATC 88010  |





| Asset Number | Site Name                  | Site Address                        | Site City  | Site State  | Site Zip   |
|--------------|----------------------------|-------------------------------------|------------|-------------|------------|
| 302469       | Bridgeport CT<br>2         | 1069 Connecticut<br>Avenue          | Bridgeport | Connecticut | 06607-1226 |
| 88018        | STAMFORD<br>(KATOONA)      | 168 Catoona Lane                    | Stamford   | Connecticut | 06902-4573 |
| 88017        | SHELTON-<br>TRUMBULL       | 14 OXFORD<br>DRIVE/BOOTH<br>HILL RD | SHELTON    | Connecticut | 06484-3455 |
| 88008        | BETHANYCT                  | 93 Old Amity<br>Road                | Bethany    | Connecticut | 06524-3400 |
| 88011        | EAST<br>KILLINGLY<br>NORTH | 1375 North Road                     | Killingly  | Connecticut | 06241-1404 |
| 88010        | DURHAM CT                  | 373<br>CHAMBERLAIN<br>HILL RD       | Higganum   | Connecticut | 06441-4062 |

Signature:

Margaret Robinson, Senior Counsel US Tower Division

#### NOTARY BLOCK

COMMONWEALTH OF MASSACHUSETTS County of Middlesex

This instrument was acknowledged before me by Margaret Robinson, Senior Counsel of American Tower (Tower Facility owner), personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument and acknowledged to me that he/she executed the same.

WITNESS my hand and official seal, this 18th day of June, 2019.

MELISSA AHM METZLER
Notary Public
Commonwealth at Massachusette
My Commission Expires March 14, 2025

Notary Public My Commission Expires: March 14, 2020

 American Tower as used herein is defined as American Tower Corporations and any of its affiliates or subsidiaries.

10 Presidential Way • Woburn, MA 01801 • 781.926.4500 Office • 781.926.4555 Fax • www.americantower.com

## T-SQUARED SITE SERVICES



## **EXHIBIT 5:**

Proof of Mailing to Local Municipality

T-SQUARED SITE SERVICES
2500 Highland Road | Suite 201
Hermitage, PA 16148 | 724.308.7855
www.t-sqrd.com



#### After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

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.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



## Shipment Receipt

## Address Information

Ship to:

Ship from:

Mr. Thomas F. Gill

T-Squared Site Services, LLC

City of Bridgeport

2500 Highland Rd

999 Broad Street Office of Planning &

Suite 201

Economic Devp.

BRIDGEPORT, CT

Hermitage, PA

06604

16148 US

US

203-576-7221

7243087855

## **Shipment Information:**

Tracking no.: 775606569248

Ship date: 07/01/2019

Estimated shipping charges: 8.65 USD

## **Package Information**

Pricing option: FedEx One Rate Service type: FedEx Express Saver Package type: FedEx Envelope

Number of packages: 1

Total weight:

Declared Value: 0.00 USD

Special Services:

Pickup/Drop-off: Drop off package at FedEx location

#### **Billing Information:**

Bill transportation to: My Account - 350-350

Your reference:

P.O. no.:

Invoice no.:

Department no.:

## Thank you for shipping online with FedEx ShipManager at fedex.com.

#### **Please Note**

FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1000, e.g., jewelry, precious metals, negotiable instruments and other items listed in our Service Guide. Written claims must be filed within strict time limits; Consult the applicable FedEx Service Guide for details.

The estimated shipping charge may be different than the actual charges for your shipping charges are calculated. FedEx Service Guide or the FedEx Rate Sheets for details on how shipping charges are calculated.



## **EXHIBIT 6:**

**Proof of Mailing to Tower Owner/Property Owner** 

## T-squared site services



## After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.

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.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in

additional billing charges, along with the cancellation of your FedEx account number.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.



## Shipment Receipt

## **Address Information**

Ship to:

Ship from:

Mr. Jason Hastie

T-Squared Site Services, LLC

American Tower Corp.

2500 Highland Rd

10 Presidential Way

Suite 201

WOBURN, MA

Hermitage, PA

01801

16148

US

US

781-926-7845

7243087855

## **Shipment Information:**

Tracking no.: 775606658840

Ship date: 07/01/2019

Estimated shipping charges: 8.65 USD

## **Package Information**

Pricing option: FedEx One Rate Service type: FedEx Express Saver Package type: FedEx Envelope

Number of packages: 1

Total weight:

Declared Value: 0.00 USD

Special Services:

Pickup/Drop-off: Drop off package at FedEx location

## **Billing Information:**

Bill transportation to: My Account - 350-350

Your reference:

P.O. no.: Invoice no .:

Department no.:

Thank you for shipping online with FedEx ShipManager at fedex.com.

#### Please Note

FedEx will not be responsible for any claim in excess of \$100 per package, whether the result of loss, damage, delay, non-delivery, misdelivery, or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim. Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental, consequential, or special is limited to the greater of \$100 or the authorized declared value. Recovery cannot exceed actual documented loss. Maximum for items of extraordinary value is \$1000, e.g., jewelry, precious metals, negotiable instruments and other items listed in our Service Guide for Virtien claims must be filed within strict time limits; Consult the applicable FedEx Service Guide for details.

The estimated shipping charge may be different than the actual charges for your shipment. Differences may occur based on actual weight, dimensions, and other factors. Consult the applicable FedEx Service Guide or the FedEx Rate Sheets for details on how shipping charges are calculated.