



November 19, 2012

**ORIGINAL**

David Martin and  
Members of the Siting Council  
Connecticut Siting Council  
Ten Franklin Square  
New Britain, CT 06051

RE: Notice of Exempt Modification  
L49 Stonington Rd.  
Stonington, CT 06378  
N 41° 21' 12.14"  
W 71° 53' 12.45"

**RECEIVED**  
NOV 26 2012  
CONNECTICUT  
SITING COUNCIL

Dear Mr. Martin and Members of the Siting Council:

On behalf of Sprint Spectrum, SBA Communications is submitting an exempt modification application to the Connecticut Siting council for modification of existing equipment at a tower facility located at L49 Stonington Rd. Stonington, CT.

The L49 Stonington Rd. facility consists of a 150' FLAG POLE Tower owned and operated by SBA Communications. In order to accommodate technological changes and enhance system performance in the State of Connecticut, Sprint Spectrum plans to modify the equipment configurations at many of its existing cell sites. Please accept this letter and attachments as notification, pursuant to R.C.S.A. Section 16-50j-73, of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2). In compliance with R.C.S.A. Section 16-50j-73, a copy of this letter and attachments is being sent to the chief elected official of the municipality in which the affected cell site is located.

As part of Sprint's Network Vision modification project, Sprint desires to upgrade their equipment to meet the new standards of 4G technology. The new antennas and associated equipment will allow customers to download files and browse the internet at a high rate of speed while also allowing their phones to be compatible with the latest 4G technology.

Attached is a summary of the planned modifications, including power density calculations reflecting the change in Sprint's operations at the site along with the required fee of \$625.

The changes to the facility do not constitute modifications as defined in Connecticut General Statutes ("C.G.S.") Section 16-50i(d) because the general physical characteristics of the facility will not be

significantly changed or altered. Rather, the planned changes to the facility fall squarely within those activities explicitly provided for in R.C.S.A. Section 16-50j-72(b)(2).

1. The overall height of the structure will be unaffected.
2. The proposed changes will not extend the site boundaries. There will be no effect on the site compound other than the new equipment cabinets.
3. The proposed changes will not increase the noise level at the existing facility by six decibels or more.
4. The changes in radio frequency power density will not increase the calculated "worst case" power density for the combined operations at the site to a level at or above the applicable standard for uncontrolled environments as calculated for a mixed frequency site.

For the foregoing reasons, SBA Communications on behalf of Sprint Spectrum, respectfully submits that the proposed changes at the referenced site constitute exempt modifications under R.C.S.A. Section 16-50j-72(b)(2).

Please feel free to call me at (508) 614-0389 with any questions you may have concerning this matter.

Thank you,

Rick Woods  
SBA Communications Corporation  
33 Boston Post Road West Suite 320  
Marlborough, MA 01752  
508-251-1691 x 319 + T  
508-251-1755 + F  
508-614-0389 + C  
[rwoods@sbasite.com](mailto:rwoods@sbasite.com)



**Sprint Spectrum  
Equipment Modification**

L49 Stonington Rd. Stonington, CT  
Site number CT33XC088

<b>Tower Owner:</b>	SBA Communications Corporation
<b>Equipment Configuration:</b>	FLAG POLE Tower
<b>Current and/or approved:</b>	Six (6) CDMA Antennas @ 147' Six (6) lines of 1-5/8" coax Two (2) equipment cabinets
<b>Planned Modifications:</b>	Install One (1) Fiber Distribution Box Install Three (3) RRHs on ground inside existing lease area Replacing Two (2) equipment cabinets with Two (2) new equipment cabinets

**Structural Information:**

No Structural information is required as there will be no work performed on the tower. Ground work only.

**Power Density:**

The anticipated Maximum Composite contributions from the Sprint facility are 7.898% of the allowable FCC established general public limit. The anticipated composite MPE value for this site assuming all carriers present is 34.358% of the allowable FCC established general public limit sampled at the ground level.

Site Composite MPE %	
Carrier	MPE %
Sprint	7.898%
Metro PCS	3.620%
T-Mobile	4.53%
AT&T	18.31%
Total Site MPE %	34.358%



November 19, 2012

Honorable Edward Haberek, Jr.  
First Selectman  
Town of Stonington  
152 Elm Street  
Stonington, CT 06378

RE: Telecommunications Facility- L49 Stonington Rd. Stonington, CT 06378

Dear Mr. Haberek,

In order to accommodate technological changes and enhance system performance in the State of Connecticut, Sprint Spectrum will be changing its equipment configuration at certain cell sites.

As required by Regulations of Connecticut State Agencies (R.C.S.A.) Section 16-50j-73, the Connecticut Siting Council has been notified of the changes and will review Sprint's proposal. Please accept this letter as notification under Section 16-50j-73 of construction which constitutes an exempt modification pursuant to R.C.S.A. Section 16-50j-72(b)(2).

The accompanying letter to the Siting Council fully describes Sprint's proposal for the referenced cell site. However, if you have any questions or require any further information on our plans or the Siting Council's procedures, please call me at (508) 614-0389.

Thank you,

Rick Woods  
SBA Communications Company  
33 Boston Post Road West Suite 320  
Marlborough, MA 01752  
508-251-1691 x 319 + T  
508-251-1755 + F  
508-614-0389 + C  
[rwoods@sbasite.com](mailto:rwoods@sbasite.com)



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

Sprint Existing Facility

Site ID: CT33XC088

North Stonington 2CT  
808 Stonington Road  
Stonington, CT 06378

**October 25, 2012**



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October 25, 2012

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

Re: Emissions Values for Site: **CT33XC088 – North Stonington 2CT**

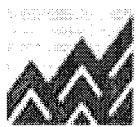
EBI Consulting was directed to analyze the proposed upgrades to the existing Sprint facility located at 808 Stonington Road, Stonington, CT, for the purpose of determining whether the emissions from the proposed Sprint equipment upgrades on this property are within specified federal limits.

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 ( $\mu\text{W}/\text{cm}^2$ ). The number of  $\mu\text{W}/\text{cm}^2$  calculated at each sample point is called the power density. The exposure limit for power density varies depending upon the frequencies being utilized. Wireless Carriers and Paging Services use different frequency bands each with different exposure limits, therefore it is necessary to report results and limits in terms of percent MPE rather than power density.

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

General population/uncontrolled exposure limits apply to situations in which the general 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 ( $\mu\text{W}/\text{cm}^2$ ). The general population exposure limit for the cellular band is approximately 567  $\mu\text{W}/\text{cm}^2$ , and the general population exposure limit for the PCS band is 1000  $\mu\text{W}/\text{cm}^2$ . 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.



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

Additional details can be found in FCC OET 65.

## CALCULATIONS

Calculations were done for the proposed upgrades to the existing Sprint Wireless antenna facility located at 808 Stonington Road, Stonington, CT, using the equipment information listed below. All calculations were performed per the specifications under FCC OET 65. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario. Actual values seen from this site will be dramatically less than those shown in this report. 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 emissions were calculated using the following assumptions:

- 1) 3 CDMA Carriers (1900 MHz) were considered for each sector of the proposed installation.
- 2) 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.
- 3) For the following calculations the sample point was the top of a six foot person standing at the base of the tower. The actual gain in this direction was used per the manufacturers supplied specifications.
- 4) The antenna used in this modeling is the RR90-17-00DP. This is based on feedback from the carrier with regards to anticipated antenna selection. This antenna has a 14.35 dBd gain value at its main lobe at 1900 MHz. All calculations were performed assuming the main lobe of the antenna was focused at the base of the tower to present a worst case scenario.



- 5) The antenna mounting height centerline of the proposed antennas is **147 feet** above ground level (AGL)
- 6) 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 calculation were done with respect to uncontrolled / general public threshold limits

Site ID	CT33XC088 - North Stonington 2CT																
Site Address	808 Stonington Road, Stonington, CT, 06378																
Site Type	Monopole																
<b>Sector 1</b>																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
1a	Andrew	RR90-17-00DP	RRH	1900 MHz	CDMA / LTE	20	3	60	14.35	147	141	1/2 "	0.5	0	1455.9661	26.32807	2.63281%
Sector total Power Density Value: 2.633%																	
<b>Sector 2</b>																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
2a	Andrew	RR90-17-00DP	RRH	1900 MHz	CDMA / LTE	20	3	60	14.35	147	141	1/2 "	0.5	0	1455.9661	26.32807	2.63281%
Sector total Power Density Value: 2.633%																	
<b>Sector 3</b>																	
Antenna Number	Antenna Make	Antenna Model	Radio Type	Frequency Band	Technology	Power Out Per Channel (Watts)	Number of Channels	Composite Power	Antenna Gain in direction of sample point (dBd)	Antenna Height (ft)	analysis height	Cable Size	Cable Loss (dB)	Additional Loss	ERP	Power Density Value	Power Density Percentage
3a	Andrew	RR90-17-00DP	RRH	1900 MHz	CDMA / LTE	20	3	60	14.35	147	141	1/2 "	0.5	0	1455.9661	26.32807	2.63281%
Sector total Power Density Value: 2.633%																	

Site Composite MPE %	
Carrier	MPE %
Sprint	7.69%
Metro PCS	3.62%
T-Mobile	4.53%
AT&T	18.31%
Total Site MPE %	34.358%



## Summary

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

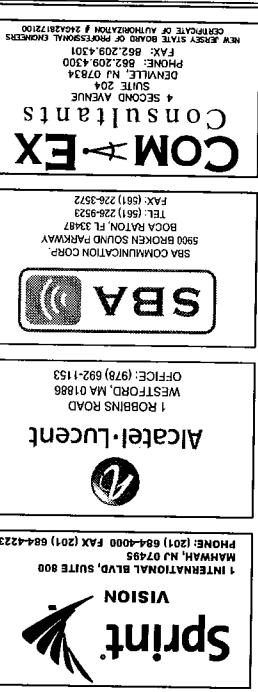
The anticipated Maximum Composite contributions from the Sprint facility are **7.898% (2.633% from each sector)** of the allowable FCC established general public limit considering all three sectors simultaneously sampled at the ground level.

The anticipated composite MPE value for this site assuming all carriers present is **34.358%** 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



**sprint** <sup>TM</sup>



# NORTH STONINGTON ROAD 808 STONINGTON ROAD SITE ADDRESS:

SITE NUMBER:  
**CT33XC088**

SITE NAME:  
SOUTHERN NEW ENGLAND

COMPANY:  
SOUTHERN NEW ENGLAND

TELEPHONE:  
1 INTRANATIONAL BLVD - SUITE

APPUCANT:  
SPRINT

REPRESENTATIVE:  
ACTEL-LUCENT

SECTOR 1: 1147  
SECTOR 2: 1147  
SECTOR 3: 1147

PROPERTY OWNER:  
NKWLLC

STRUCTURE HEIGHT:  
3150' AGL

STRUCTURE TYPE:  
FLAG POLE

GROUND ELEVATION( ):  
28' AMSL

SCHEDULE OF REVISIONS:  
A-3 DETAILS & ANTENNA SCENARIO

A-4 RF DATA SHEET

A-5 CABINET AND ANTENNA WIRING DIAGRAM

E-1 ELECTRIC, TELCO, GROUNDING PLANS AND DETAILS

E-2 TYPICAL POWER AND GROUNDING ONE-LINE DIAGRAM

T-1 TITLE SHEET

SHEET NUMBER:  
10/05/12 REVISED PER CLIENT COMMENTS

C-1 SITE SURVEY PHOTOS 1

C-2 SITE SURVEY PHOTOS 2

C-3 SITE PLAN

C-4 SPECIFICATIONS & DETAILS

DRWNS BY:  
SOF

CHEKED BY:  
NG

SCALE:  
NG

JOB NO:  
12033-SBA

SOURCE OF COORDINATES/ELAVATION - SBA AND  
SPRINT

STRUCTURE OWNER:  
SBA TOWERS LLC

P.O. BOX 275  
LEDYARD CT

5900 BROKEN SOUND PARKWAY  
BOCA RATON, FL 33487

PHONE: (862) 209-4300  
DENNILLE, NJ 07834

ONE (1) EXISTING POWEROUSE CABINET TO BE REPLACED WITH ONE (1)

BATTERY CABINET

ONE (1) EXISTING POWERR DISTRIBUTION BOX (D-BOX) INSTALLED ON

PROPOSED FIBER OPTIC AREA.

DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE CODES AND ORDINANCES.

BUILDING CODE: 2006 NEC (NFA-70)

DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

AND SHALL IMMEDIATELY NOTIFY THE PROJECT OWNERS REPRESENTATIVE IN WRITING OF

CONTRACTOR SHALL VERIFY ALL PLANS AND EXISTING DIMENSIONS AND CONDITIONS ON THE JOB SITE

DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

ONE (1) MULTIMODAL EQUIPMENT CABINET TO BE REPLACED WITH ONE (1)

WITH ONE (1) EXISTING EQUIPMENT CABINET TO BE REPLACED WITH THE EXISTING

DEPARTMENT AND MAY IMPOSE CHANGES OR MODIFICATIONS.

HEREIN ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING

DEPARTMENT HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND

FACILITY AS FOLLOWS:

THE FOLLOWING PARTIES HEREBY APPROVE THIS EXISTING WIRELESS COMMUNICATIONS

SPRINT PROPOSES TO MODIFY THIS EXISTING WIRELESS COMMUNICATIONS

FACILITY NOT REQUIRED

THIS FACILITY HAS NO PLUMBING OR REFRIGERANTS

DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

ONE (1) EXISTING CMA OUTDOOR EQUIPMENT CABINET TO BE REPLACED

WITH ONE (1) MULTIMODAL EQUIPMENT CABINET TO BE REPLACED WITH THE EXISTING

SPRINT LEASE AREA.

ONE (1) EXISTING POWERR DISTRIBUTION BOX (D-BOX) INSTALLED ON

PROPOSED FIBER OPTIC AREA.

DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE

BUILDING CODE: 2006 NEC (STABE BUILDING CODE, 2006 CT SUPPLEMENT)

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DEVELOPMENT AND USE OF THE SITE WILL CONFORM TO ALL APPLICABLE

A-1

DRAWING SHEET: 3 OF 9

# COMPOUND PLAN & ELEVATION

NEW LONDON CTY  
STONINGTON, CT  
808 STONINGTON RD  
N. STONINGTON 2 CT  
CT33X0088

**EXCOM** CONSULTANTS  
4 SECOND AVENUE  
SUITE 204  
DEWITT NY 13430  
PHONE: 682-2043  
FAX: 682-20430  
E-MAIL: [EXCOM@AOL.COM](mailto:EXCOM@AOL.COM)

INTERNATIONAL BLVD., SUITE 800  
HAWAIIAN MOTELS  
PHONE: (201) 684-4000 FAX: (201) 684-4223

**GRAPHIC SCALE**

NOT SHOWN FOR CLARITY  
NOTE: EXISTING GROUND

10 of 10

FLM6\_POLE  
ECS3110\_E\_1730

**NOTE: EXISTING SPRINT COCKTAILS AND BOTTOM DRAWS**

**REMINI, NO CHANNELS**

**FOR EXISTING DRINKERS**

The diagram illustrates three separate paths for signal transmission. Each path is represented by an arrow originating from a label and pointing towards a vertical line that represents a wall or barrier. The labels are: 'EXISTING ANTENNAS BY OTHERS' (top), 'EXISTING ANTENNAS BY OTHERS' (middle), and 'BY OTHERS' (bottom). The arrows originate from the left side of the labels and point towards the right side of the vertical wall line.

## OF FLAG POLE

For more information about the study, please contact Dr. John Smith at (555) 123-4567 or via email at [john.smith@researchinstitute.org](mailto:john.smith@researchinstitute.org).

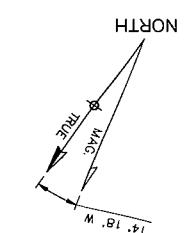
( IN FEET )  
3'16 inch = 1 Foot  
( 34' x 36" SHEET SIZE )

EXISTING COMPOUND PLAN  
SCALE: 3/16" = 1'

This architectural site plan illustrates the layout of a bridge foundation area. The plan shows various components and their labels:

- EXISTING ICE COVER
- EXISTING POWER CABINET
- EXISTING CONCRETE PAD (8'X10')
- EXISTING 4.0 COMPACT CABINET
- EXISTING EQUIPMENT FRAME
- EXISTING SPINT STEEL
- EXISTING SPINT ICE
- EXISTING PPIC
- EXISTING GRATE COVER
- EXISTING GROUT POLE 150'
- EXISTING EQUIPMENT AREA
- EXISTING SITE COMPOUND TECO AND ELECTRIC BACKBOARD
- EXISTING EQUIPMENT SHELTER AT 21
- EXISTING CICE BRIDGE BY OTHERS
- EXISTING GRAVEL COVER
- EXISTING ECU

The plan also includes a detailed view of the foundation structure at the bottom, showing multiple rectangular footings and a central support.



C-3

SITE PLAN

DRAWING TITLE:

808 STONINGTON ROAD  
STONINGTON, CT 06378

CT33XG088

DB NO: 12033-SBA

HECKED BY: JCP

THE KARMA

INITIAL SUBMISSION 09/05/12

\_\_\_\_\_

\_\_\_\_\_

## **SCHEDULE OF REVISIONS**

---

WESTFORD, MA 01886  
TEL: (978) 952-1600

Alcatel-Lucent

www.IBM.com

SBA COMMUNICATIONS CORP.  
ONE RESEARCH DRIVE, SUITE 200C  
WESTBOROUGH, MA 01581  
TEL: (508) 366-5454  
FAX: (508) 366-5455

SBA

PHONE: (201) 684-4000 FAX (201) 684-4222

Together with Nextel.  
**sprint**

ANSWER: **ANSWER**

FAX: 862-2089, 4301  
PHONE: 862-2089, 4300  
DEARVILLE, NJ 07834  
SUITE 204

SCALE: N.T.S. C-3 FIBER SERVICE PLAN-EQUIPMENT SPACE

SCALE 3/32" = 1'-0"

C-3 SCALE: 3/32" = 1'-0"