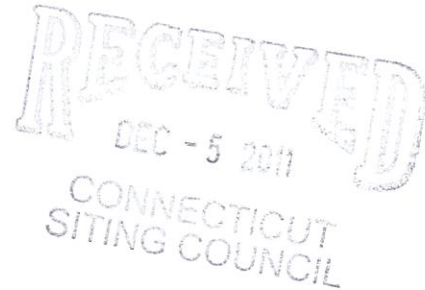


November 28, 2011

Chairman Robert Stein
Connecticut Siting Council
10 Franklin Square
New Britain, CT 06051



SUBJECT: Sprint Spectrum L.P.'s Notice of Intent to Make an Exempt Modification to an Existing Facility at 2577 Main Street, Glastonbury, CT 06033 (Site # CT43XC822)

Dear Chairman Stein:

Pursuant to R.C.S.A. Sections 16-50j-73 and 16-50j-72(b), Sprint Spectrum L.P. (Sprint), hereby gives notice to the Connecticut Siting Council (Council) and the Town of Glastonbury of its intent to make an exempt modification to an existing telecommunications facility located at 2577 Main Street, Glastonbury, Connecticut.

Sprint plans to install a hydrogen fuel cell at its 2577 Main Street facility to provide emergency backup power in the event of an electric outage. This planned installation does not constitute a modification subject to the Council's review as it falls within those activities provided for in R.C.S.A. Section 16-50j-72(b)(2). Specifically, this installation will not change the height of the existing tower, will not extend the boundaries of the existing compound, will not increase noise levels at the site by six decibels or more, and will not increase the total radio frequency electromagnetic radiation power density at the site to levels above applicable standards.

PROPOSED INSTALLATION

Sprint plans to install a 5 kW Altery hydrogen fuel cell generator within the existing fenced equipment compound. The fuel cell will be inside a cabinet measuring 3'6" x 2'2" x 6'0". There will also be a hydrogen cylinder storage cabinet with overall dimensions of 4'8" x 4'8" x 6'0".

Please contact me at 703.533.1006 or Hulshart@earthlink.net should you have any questions about this planned modification.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mark Hulshart", written over a horizontal line.

Mark Hulshart
Principal

cc: Richard Johnson, Town Manager, Town of Glastonbury
St. Paul's Roman Catholic Church (property owner)

Specifications

Alteryx Freedom Power™ 5 kW System installed in an FPS Power Cabinet		FPS-524-240	FPS-524-240-400	FPS-548-240	FPS-548-240-405
Physical	Dimensions (w x d x h)	26" x 42" x 72" [66 cm x 107 cm x 183 cm]			
	Weight	515 lb [234 kg]	706 lb [320 kg]	515 lb [234 kg]	706 lb [320 kg]
	Number of FPS Engines	1			
	Number of TPMs	0	1	0	1
Performance	Rated power	5 kW			
	Rated current	210 A		105 A	
	Operating voltage (nominal) ¹	24 VDC		48 VDC	
	Operating voltage (range) ¹	21 to 29 VDC		42 to 58 VDC	
	Standing Input Current (nominal)	1.92 A @ 24 VDC		0.96 A @ 48 VDC	
Operation	Ambient temperature ²	- 4 °F to 104 °F [- 20 °C to +40 °C]			
	Relative humidity, noncondensing	5 to 100%			
	Location	Outdoor only			
	Auxiliary AC in ²	120 V, 60 Hz, 10 A, single phase			
Storage	Ambient temperature	+ 40 °F to +113 °F [+4 °C to +45 °C]			
	Relative humidity, noncondensing	5 to 100%			
Fuel	Gaseous hydrogen purity	Hydrogen (H ₂) 99.95% certified Industrial Grade			
	Supply pressure range	40 to 150 PSIG [2.8 to 10.5 kg/cm ²]			
	Typical operating pressure	100 PSIG [7.03 kg/cm ²]			
	Consumption	300 g/hour @ 5 kW			
Monitoring / Control	Standard	Ethernet, USB, Serial, 4 Dry Contacts			
	Optional	Wireless Telemetry			
	Rectifier Supply Voltage	n/a	27.0 ± 0.6 VDC	n/a	54.0 ± 0.6 VDC

¹Polarity is determined by customer requirements and ground connections.

²For operation below +10 °C, the FPS must be connected to the grid and supplied with AC power until a grid failure, at which time the heat generated by the FPS will be sufficient to maintain operation of the FPS at temperatures between -20 °C and +10 °C.



SITE NAME: GLASTONBURY

SITE NUMBER: CT43XC822

SITE ADDRESS: 2577 MAIN STREET
GLASTONBURY, CT 06033

SITE TYPE: EXISTING 130' SELF SUPPORT TOWER

Sprint

6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251

BLACK & VEATCH

10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO:	168202
DRAWN BY:	DMS
CHECKED BY:	MB

SITE INFORMATION	AREA MAP	APPLICABLE CODES	DRAWING INDEX																						
<p>SITE ADDRESS: 2577 MAIN STREET GLASTONBURY, CT 06033</p> <p>PROPERTY OWNER: ST. PAUL'S ROMAN CATHOLIC CHURCH 2577 MAIN STREET GLASTONBURY CT 06033</p> <p>EQUIPMENT SUPPLIER: ALTERGY 140 BLUE RAVINE ROAD FOLSOM, CA 95630 JERRY MEYERS 913-461-3674 jerry.meyers@altergy.com</p> <p>POWER COMPANY: CONNECTICUT POWER AND LIGHT</p> <p>TELCO COMPANY: NA</p> <p>COUNTY: HARTFORD</p> <p>LATITUDE (NAD83): 41° 42' 51.790" N 41.71439</p> <p>LONGITUDE (NAD83): 72° 36' 46.93" W -72.61304</p> <p>CONTACT ENGINEER: BRYAN HANSEN WORK: 913-458-7343 E-MAIL: hansenbj@bv.com</p>		<p>ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:</p> <p>2009 INTERNATIONAL BUILDING CODE WITH STATE MODIFICATIONS</p> <p>2009 INTERNATIONAL MECHANICAL CODE</p> <p>2009 INTERNATIONAL PLUMBING CODE</p> <p>2009 NEC NATIONAL ELECTRICAL CODE</p> <p>IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL</p>	<table><tr><td>T-1</td><td>TITLE SHEET & PROJECT DATA</td></tr><tr><td>C-1</td><td>OVERALL SITE PLAN</td></tr><tr><td>C-2</td><td>SITE PLAN</td></tr><tr><td>S-1</td><td>EQUIPMENT CABINET DETAILS</td></tr><tr><td>S-2</td><td>CONCRETE PAD DETAILS</td></tr><tr><td>M-1</td><td>HYDROGEN PIPING SCHEMATIC</td></tr><tr><td>E-1</td><td>ELECTRICAL ONE-LINE DIAGRAMS</td></tr><tr><td>E-2</td><td>OVERALL CONDUIT DETAILS</td></tr><tr><td>E-3</td><td>ELECTRICAL WIRING DIAGRAM</td></tr><tr><td>E-4</td><td>FUEL CELL INTERNAL WIRING DIAGRAM</td></tr><tr><td>G-1</td><td>GROUNDING PLAN AND DETAILS</td></tr></table>	T-1	TITLE SHEET & PROJECT DATA	C-1	OVERALL SITE PLAN	C-2	SITE PLAN	S-1	EQUIPMENT CABINET DETAILS	S-2	CONCRETE PAD DETAILS	M-1	HYDROGEN PIPING SCHEMATIC	E-1	ELECTRICAL ONE-LINE DIAGRAMS	E-2	OVERALL CONDUIT DETAILS	E-3	ELECTRICAL WIRING DIAGRAM	E-4	FUEL CELL INTERNAL WIRING DIAGRAM	G-1	GROUNDING PLAN AND DETAILS
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	<p>PROJECT DESCRIPTION</p> <p>INSTALL POWER BACK UP EQUIPMENT TO EXISTING SITE WITHIN EXISTING COMPOUND. INSTALL (1) NEW FUEL CELL WITH (1) FUEL STORAGE CABINET ON CONCRETE PAD AND CONNECT TO THE SITE'S DC POWER PLANT BUS.</p>	<p>APPROVALS</p> <p>THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS & AUTHORIZE THE SUBCONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT & MAY IMPOSE CHANGES OR MODIFICATIONS.</p> <p>ERICSSON: _____ DATE: _____</p> <p>BLACK & VEATCH: _____ DATE: _____</p> <p>COMMENTS: _____</p>	<p>ENGINEER OF RECORD</p> <p>CHRIS KRAFFT PE # 080438 BLACK & VEATCH CORPORATION</p>																						
	<p>LOCATION MAP</p>	<p>DRIVING DIRECTIONS FROM HARTFORD-BRAINARD AIRPORT</p> <p>HARTFORD-BRAINARD AIRPORT: HEAD NORTH ON LINDBERGH DRIVE TOWARD MAXIM ROAD, TURN LEFT ONTO MAXIM ROAD, CONTINUE ONTO BRAINARD ROAD, TURN RIGHT ONTO THE RAMP TO I-91 NORTH/I-84/SPRINGFIELD/BOSTON, MERGE ONTO US-5 NORTH, TAKE EXIT 90 TO MERGE ONTO CT-2 EAST TOWARD NORWICH, TAKE EXIT 6 FOR GRISWOLD STREET, TURN RIGHT ONTO GRISWOLD STREET, TURN LEFT ONTO MAIN STREET, TURN RIGHT ONTO WELLES STREET, DESTINATION WILL BE ON THE RIGHT.</p>																							

REV	DATE	DESCRIPTION
0	11/17/11	ISSUED FOR CONSTRUCTION

STATE OF CONNECTICUT

CHRIS KRAFFT

0027388

PROFESSIONAL ENGINEER

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

CT43XC822
GLASTONBURY
2577 MAIN STREET
GLASTONBURY, CT 06033
CO-LOCATION

SHEET TITLE
TITLE SHEET &
PROJECT DATA

SHEET NUMBER
T-1

EXISTING
WOODED AREA

C-2

EXISTING SITE
ACCESS ROAD

MAIN STREET

EXISTING PARKING
AREA (TYP)

EXISTING GRASSY AREA (TYP)

EXISTING
BUILDING (TYP)

EXISTING
TREE (TYP)

OVERALL SITE PLAN



40' 20' 0 40' 80'
1"=40'

Sprint

6580 SPRINT PARKWAY
OVERLAND PARK, KANSAS 66251



BLACK & VEATCH

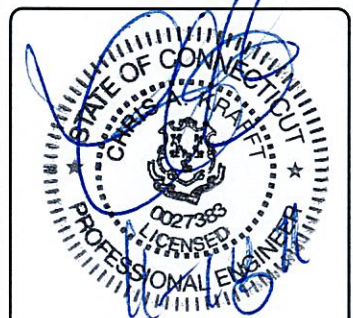
10950 GRANDVIEW DRIVE
OVERLAND PARK, KANSAS 66210
(913) 458-2000

PROJECT NO: 168202

DRAWN BY: DMS

CHECKED BY: MB

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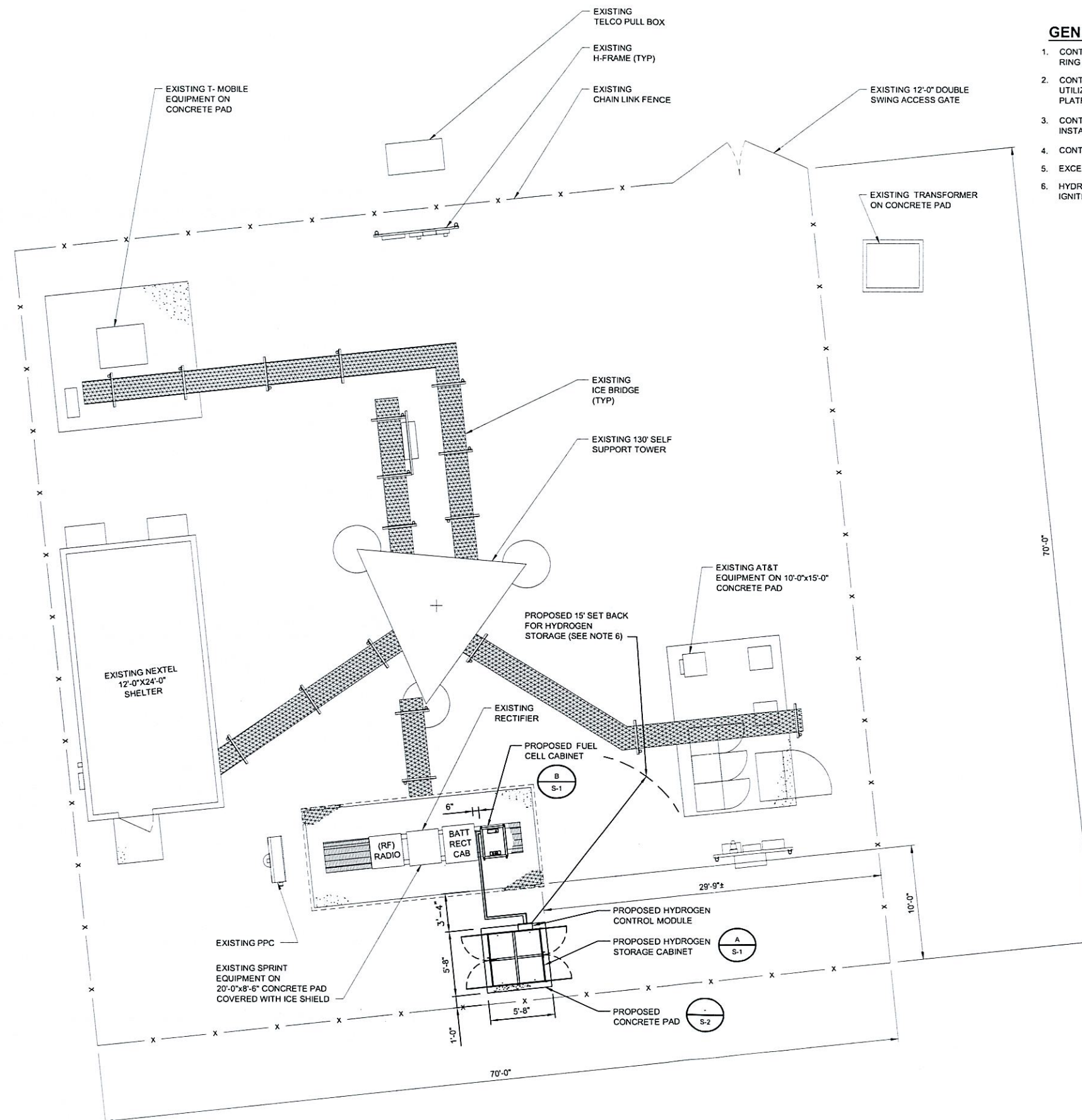
CT43XC822
GLASTONBURY
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SHEET TITLE

OVERALL
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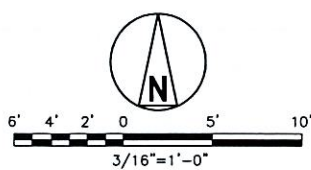
SHEET NUMBER

C-1



GENERAL NOTES:

1. CONTRACTOR SHALL GROUND ALL NEW EQUIPMENT TO THE NEAREST GROUND RING (SEE G-1).
2. CONTRACTOR SHALL ROUTE CONDUIT TO AVOID TRIP HAZARDS BY EITHER UTILIZING EXISTING CABLE TRAY, OVERHEAD ICE BRIDGE, UNDERNEATH RAISED PLATFORM, OR AROUND EDGE OF CONCRETE PAD.
3. CONTRACTOR SHALL FOLLOW ALL MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION OF ALL NEW EQUIPMENT.
4. CONTRACTOR SHALL VERIFY THE ALARM CABLES ARE OF SUFFICIENT LENGTH.
5. EXCESS CABLES SHALL BE LACED IN A NEAT AND ORGANIZED MANNER.
6. HYDROGEN STORAGE CABINET HAS A REQUIRED SET BACK OF 15' FROM IGNITION SOURCES & AIR INTAKES.



SITE PLAN



6580 SPRINT PARKWAY
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**CT43XC822
GLASTONBURY
2577 MAIN STREET
GLASTONBURY, CT 06033
CO-LOCATION**

SHEET TITLE
SITE PLAN

SHEET NUMBER
C-2

