

EM-SPRINT-015-110518

May 16, 2011

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MAY 18 2011  
CONNECTICUT  
SITING COUNCIL

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 1280 Chopsey Hill Road, Bridgeport, CT 06606 (Site # CT03XC325)**

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 City of Bridgeport of its intent to make an exempt modification to an existing telecommunications facility located at 1280 Chopsey Hill Road, Bridgeport, Connecticut.

Sprint plans to install a hydrogen fuel cell at its 1280 Chopsey Hill Road 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 10 kW Alteryg hydrogen fuel cell generator within the existing fenced equipment compound; the installation mounted to a new 6'0" x 9'0" concrete pad. The fuel cell will be inside a cabinet measuring 3'6" x 2'2" x 6'0". There will also be hydrogen cylinder storage cabinets with overall dimensions of 4'8" x 4'8" x 6'0".

Please contact me at 703.533.1006 or [Hulshart@earthlink.net](mailto:Hulshart@earthlink.net) should you have any questions about this planned modification.

Sincerely,



Mark Hulshart  
Principal

cc: Mayor Bill Finch, City of Bridgeport  
Remo Tartaglia (property owner)



Alteryx Freedom Power™ 10 kW System installed in an FPS Power Cabinet		FPS-1024-240	FPS-1024-240-400	FPS-1048-240	FPS-1048-240-405
Physical	Dimensions (w x d x h)	26" x 42" x 72" [66 cm x 107 cm x 183 cm]			
	Weight	705 lbs [320 kg]	885 lb [401 kg]	705 lbs [320 kg]	885 lb [401 kg]
	Number of FPS Engines	2			
	Number of TPMs	0	2	0	2
Performance	Rated power	10 kW			
	Rated current	420 A		210 A	
	Operating voltage (nominal) <sup>1</sup>	24 VDC		48 VDC	
	Operating voltage (range) <sup>1</sup>	21 to 29 VDC		42 to 58 VDC	
	Standing Input Current (nominal)	2.46 A @ 24 VDC		1.23 A @ 48 VDC	
Operation	Ambient temperature <sup>2</sup>	- 4 °F to 104 °F [- 20 °C to +40 °C]			
	Relative humidity, noncondensing	5 to 100%			
	Location	Outdoor only			
	Auxiliary AC in <sup>2</sup>	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 <sub>2</sub> ) 99.95% certified Industrial Grade			
	Supply pressure range	40 to 150 PSIG [2.8 to 10.5 kg/cm <sup>2</sup> ]			
	Typical operating pressure	100 PSIG [7.03 kg/cm <sup>2</sup> ]			
	Consumption	600 g/hour @ 10 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

<sup>1</sup>Polarity is determined by customer requirements and ground connections.

<sup>2</sup>For 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.

**TRANSMITTAL**

ORIGINAL

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**DATE:** May 16, 2011

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

CONNECTICUT  
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**SUBJECT:** Transmittal of Sprint Spectrum L.P.'s Notice of Intent to Make an Exempt Modification to an Existing Facility at 1280 Chopsey Hill Road, Bridgeport, CT 06606 (Site # CT03XC325)

Included with this transmittal are six packets (one original and five copies) of:

- Letter summarizing the installation.
- 8.5" x 14" PE-stamped drawings that illustrate the site plan, equipment cabinets and electrical diagrams.
- Alteryg's fuel cell specifications for model FPS-1024-240.

Attached to this transmittal form is:

- One application fee check in the amount of \$625.