

13-129856-00



Building Permit Application City of Portland, Oregon - Bureau of Development Services

1900 SW 4th Avenue, Portland, Oregon 97201 • 503-823-7310 • TTY 503-823-6868 • www.portlandoregon.gov/bds

Type of work

New construction Addition/alteration/replacement

Demolition Other:

Category of construction

1 & 2 family dwelling Commercial/industrial Accessory building

Multifamily Master builder Other:

Job site information and location

Job no.: Job address: **1300 NE 16th Ave**

City/State/ZIP: **Portland, OR 97232**

Suite/bldg./apt. no.: Project name: **PO60XC026 Lloyd Center/Holladay Park**

Cross street/directions to job site: **On NE 16th Ave, North of NE Multnomah St.**

Subdivision: Lot no. Tax map/parcel no **1N1E35AB 5600**

Description of work

Minor Modification to Existing Wireless Facility -

Remove (6) existing antennas and replace with (3) new antennas. Remove existing cabinets and replace with (2) new cabinets.

Provide RS Permit no.

Property owner Tenant

Name: **Sprint** E-mail: **Kara.campbell@powderriverdev.com**

Address: **8880 SW Nimbus Ave, Suite B**

City/State/ZIP: **Beaverton, OR 97008**

Phone: **(503) 547-7983** FAX:

Owner installation: This installation is being made on property that I own, which is not intended for sale, lease, rent, or exchange.

Owner signature: **N/A** Date:

Contractor

Business name: **TBD** E-mail:

Address:

City/State/ZIP:

Phone: FAX:

CCB lic. no.

Authorized signature: _____

Print name: Date:

Applicant Contact Person

Business name: **General Dynamics on behalf of Sprint**

Contact name: **Kara Campbell (on behalf of General Dynamics)**

Address: **8880 SW Nimbus Ave, Suite B**

City/State/ZIP: **Beaverton, OR 97008**

Phone: **(503) 547-7983** FAX:

E-mail: **kara.campbell@powderriverdev.com**

Authorized signature: _____

Print name: Date:

This permit application expires if a permit is not obtained within 180 days after it has been accepted as complete.

Office Use Only

Permit no:

Date received:

By:

Required Data: One and Two Family Dwelling

Permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation:	
Number of bedrooms:	
Number of bathrooms:	
Total number of floors:	
New dwelling area:	square feet
Garage/carport area:	square feet
Covered porch area:	square feet
Deck area:	square feet
Other structure area:	square feet

Required Data: Commercial Use

Permit fees* are based on the value of the work performed. Indicate the value (rounded to the nearest dollar) of all equipment, materials, labor, overhead, and the profit for the work indicated on this application.

Valuation:	\$20,000
Existing building area:	square feet
New building area:	square feet
Number of stories:	
Type of construction:	
Occupancy groups	
Existing:	
New:	

Notice

All contractors and subcontractors are required to be licensed with the Oregon Construction Contractors Board under ORS 701 and may be required to be licensed in the jurisdiction in which work is being performed.

Statement of Fact: I certify that the facts and information set forth in this application are true and complete to the best of my knowledge. I understand that any falsification, misrepresentation or omission of fact (whether intentional or not) in this application or any other required document, as well as any misleading statement or omission, may be cause for revocation of permit and/or certificate of occupancy, regardless of how or when discovered.

I acknowledge that work related to this Building Permit Application may be subject to regulations governing the handling, removal and/or disposal of asbestos and/or lead-based paint. _____ (initials)

Building Permit Fees*

Please refer to fee schedule

Fees due upon application	
Amount received	
Date received	

Residential Combo permit subcontractor submittals only can be faxed to 503-823-7693 or e-mailed to BDSCombInspSec@portlandoregon.gov.

PO60XC026

COP	1.	A-6, A-8	OSSC 107.2.1	Please provide weights and geometry of all equipment being installed. Detail 1/ A-6, specify the mount hardware. Remove note on detail 2/A-8 " Antenna information pulled from preliminary product date sheet." Provide final information.
PRDS				Addressed.
COP	2.	A-8	OSSC 1604.4	Provide connection detail to the parapet. Show the parapet construction and show that it can support the antenna loads. Alternatively, provide the weights and geometry of the equipment being removed to show that the loads on the parapet are not increasing.
PRDS				Addressed using details from existing CD's.
COP	3.	Missing	OSSC 107.2.1	Please attach a copy of the framing plans for the existing platform that you analyze on Page 8 of 16 in the calculations, to the drawings. Please also include the details on A6 that are referenced. Locate the new and existing equipment that will be on the platform. Show the framing of the existing roof structure and show how the equipment frame is located relative to the roof structure. You check a 20 inch column for the new loads. Verify that all three frame supports sit directly over a 20 inch column, or show that the existing structure is adequate to support the new loads under each leg.
PRDS				Existing roof framing can be shown.

Summary: All items can be addressed.

PRDS will need a PO for: CD Revisions.



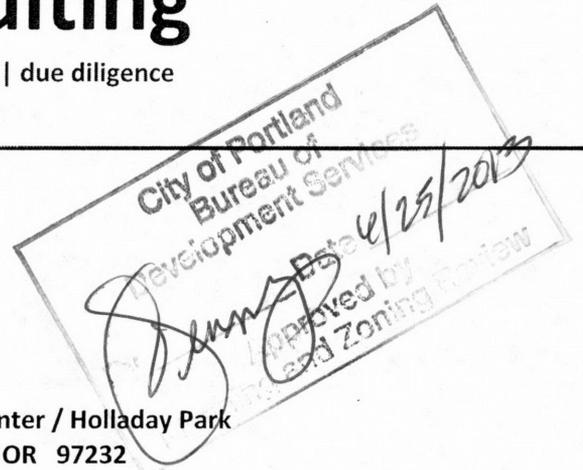
EBI Consulting

environmental | engineering | due diligence

2

6/11/2013

City of Portland
Development Services
1900 SW Fourth Avenue
Portland, OR 97201



RE: Sprint Site No. PO60XC026 – Lloyd Center / Holladay Park
1300 NW 16th Avenue, Portland, OR 97232

Attention: Planning Department

This responds to your request regarding the proposed Sprint Nextel wireless telecommunications facility ("WTF") referenced above.

Sprint designs, constructs and operates its wireless telecommunications facilities to comply with the Federal Communications Commission ("FCC") rules and regulations governing human exposure to radio frequency ("RF") emissions.

For the above mentioned WTF, Sprint will transmit 377 Watts ERP for each 800 MHz transmitter and 671 Watts ERP for each 1900 MHz transmitter per sector.

Based upon a theoretical analysis performed by EBI Consulting for the above mentioned WTF, the predicted power density 16 feet below the antennas (the distance between the bottom of the lowest proposed antennas and the nearest habitable Space walking surface) is 0.024 milliwatts per square centimeter ("mW/cm²") for each 1900 MHz transmitter per sector and 0.013 mW/cm² for each 800 MHz transmitter per sector. This complies with the FCC's Uncontrolled/General Population Maximum Permissible Exposure limit of 1 mW/cm² for the 1900 MHz transmitters and 0.587 mW/cm² for the 800 MHz transmitters. **The maximum composite power density at this level for all Sprint transmitters per sector is 0.019% of the FCC's Uncontrolled/General Population Maximum Permissible Exposure limit.**

Based on these findings, the above WTF will comply with the Maximum Permissible Exposure limits in Table 274-1, Chapter 33.274 and the placement of the antennas will not cause any habitable area of a structure to exceed the Federal Communication Commission's (FCC's) limits for human exposure to radio frequency electromagnetic fields.

Scott Heffernan
RF Engineering Director
EBI Consulting
21 B Street
Burlington, MA 01803

RECEIVED
JUN 11 2013
BDS
DOCUMENT SERVICES

13-179856 00

13-129856-CD
SPRINT

Existing Antennas	Proposed Antennas
Andrew RR65-18-00DPL2	KMW ET-X-TS-70-15-62-18-iR-RD
56" long 8" wide 3" deep	74" long 11.8" wide 5.9" deep

PO60XC026 Lloyd Center



806~869MHz, X-pol., H70°/ V12°, ET0~10°
 1850~1995MHz, XX-pol., H62°/ V5.2°, ET0~10°



• Electrical Specification

Product Number	ET-X-TS-70-15-62-18-iR-RD	
Frequency Range	806~869MHz	1850~1995MHz
3dB Beam-Width	Horizontal	70°
	Vertical	12.0°
Gain (dBi /dBd)	15.2 / 13.4	18.0/ 15.9
Electrical Down Tilt Range	0° ~ 10°	0° ~ 10°
1 st Upper Sidelobe Suppression	> 18dB (up to 15° EL)	> 18dB (up to 10° EL)
Front-to-Back Ratio @180±15°	> 30dB	≥ 28dB
Polarization Type	Dual, Slant ±45°	Quad, Slant ±45°
Cross -Polar Discrimination(XPD)	0°, Boresight	> 18dB
	±60°	> 10dB
Input Maximum CW Power	250W	250W
Impedance	50Ω	50Ω
Return Loss	> 15dB	> 15dB
Isolation Between Ports	> 28dB	> 28dB
HBW Squint across the same ports	±2°	±5°
Passive Intermodulation, IM3	≤ -110dBm (@2x43dBm, @ 2 minute duration)	
Antenna Control Interface	Field Replaceable Internal RET, AISG2.0	



• Mechanical Specification

Dimension (Length x Width x Depth)	1875mm x 300mm x 150mm (73.8" x 11.8" x 5.9")
Weight without Clamp	19.0kg (41.9lbs)
Max. Wind Speed	67m/s (150mph)
Wind Load (@100mph), Front / Side / Rear	863.0N / 431.5N / 863.0N (194.1lbf / 97.0lbf / 194.1lbf)
Connector (Type / Position)	6 x 7/16" DIN(Female) / Bottom

• Specifications are subject to change without notice. 09 April. 2012