

**FCC FORM 442 - FEDERAL COMMUNICATIONS COMMISSION
APPLICATION FOR NEW OR MODIFIED RADIO STATION UNDER PART 5 OF FCC
RULES - EXPERIMENTAL RADIO SERVICE (OTHER THAN BROADCAST)**

**Approved by
OMB
3060 - 0065
Expires
09/30/98**

Applicant's Name (company): Clearwire Spectrum Holdings II, LLC **File No.:** 0582-EX-PL-2006

Mailing Address

Attention: Nadja S. Sodos-Wallace
Street Address: 815 Connecticut Avenue, NW, Suite 610
P.O. Box:
City: Washington
State: DC
Country:
Zip Code: 20006
E-Mail Address: nadja.sodoswallace@clearwire.com

Application Purpose

Application is for: NEW LICENSE

For Modification indicate below

File No.: **Call sign:**

Government Contract

Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government? If "YES", include as an exhibit a narrative statement describing the government project, agency and contract number. No

Foreign Government Use

Is this authorization to be used for the exclusive purpose of developing radio equipment for export to be employed by stations under the jurisdiction of a foreign government? If "YES", include the contract number and the name of the foreign government concerned as an exhibit. No

Research Project

Is this authorization to be used for providing communications essential to a research project? (The radio communication is not the objective of the research project)? If "YES", include as an exhibit the following information:

- a. A description of the nature of the research project being conducted.
- b. A showing that the communications facilities requested are necessary for the research project involved.
- c. A showing that existing communications facilities are inadequate.

No

Exhibit Information

If all the answers to Items 4, 5, 6 are "NO", include as an exhibit a narrative statement describing in detail the following items:

- a. The complete program of research and experimentation proposed including description of equipment and theory of operation.
- b. The specific objectives sought to be accomplished.
- c. How the program of experimentation has a reasonable promise of contribution to the development, extension, expansion or utilization of the radio art, or is along line not already investigated.

Estimated Duration

Give an estimate of the length of time that will be required to complete the program of experimentation proposed in this application: 12 Months

Environmental Impact

Would a commission grant of this application come within Section 1.1307 of the FCC Rules, such that it may have a significant environmental impact? If "YES", include as an exhibit an Environmental Assessment as required by Section 1.1311. No

Manufacturer

List below transmitting equipment to be installed (if experimental, so state) if additional rows are required, please submit equipment list as an exhibit :

Manufacturer	Model Number	No. Of Units	Experimental
Motorola	DAP000	120	Yes

Station ID

Is the equipment listed in Item 10 capable of station identification pursuant to Section 5.115? No

Applicant Type

Applicant is: Other

Foreign Government

Is applicant a foreign government or a representative of a foreign government? No

License Denied or Revoked

Has applicant or any party to this application had any FCC station license or permit revoked or any application for permit, license or renewal denied by this Commission?

If "YES", include as an exhibit a statement giving call sign of license or permit revoked and relate circumstances. No

Owner and Operator

Will applicant be owner and operator of the station? Yes

Contact Information

Give the following information of person who can best handle inquiries pertaining to this application: First Name:

Nadja

Last Name: Sodos-Wallace

Title: Regulatory Counsel, Assistant Secretary

Phone Number: (202)330-4011

E-Mail Address: nadja.sodoswallace@clearwire.com

Drug Abuse Question

APPLICANT ANTI-DRUG ABUSE CERTIFICATION: By checking "YES", the individual applicant certifies that he or she is eligible for this license. This requires that he or she is not subject to a denial of federal benefits, including FCC benefits, as a result of a drug offense conviction pursuant to Section 5301 of the Anti-Drug Abuse Act of 1988, 21 U.S.C. 862. A non-individual applicant, e.g., corporation, partnership or other unincorporated association, certifies that no party to the application is subject to a denial of federal benefits, pursuant to that section. For definition of a "party" for these purposes, see 47CFR 1.2002(b). Yes

Certification

THE APPLICANT CERTIFIES THAT:

- a. Copies of the FCC Rule Parts 2 and 5 are on hand; and
- b. Adequate financial appropriations have been made to carry on the program of experimentation which will be conducted by qualified personnel; and
- c. All operations will be on an experimental basis in accordance with Part 5 and other applicable rules, and will be conducted in such a manner and at such a time as to preclude harmful interference to any authorized station; and
- d. Grant of the authorization requested herein will not be construed as a finding on the part of the Commission:
 - 1. that the frequencies and other technical parameters specified in the authorization are the best suited for the proposed program of experimentation, and
 - 2. that the applicant will be authorized to operate on any basis other than experimental, and
 - 3. that the Commission is obligated by the results of the experimental program to make provision in its rules including its table of frequency allocations for applicant's type of operation on a regularly licensed basis.

THE APPLICANT FURTHER CERTIFIES THAT:

- e. All the statements in the application and attached exhibits are true, complete and correct to the best of the applicant's knowledge; and
- f. The applicant is willing to finance and conduct the experimental program with full knowledge and understanding of the above limitations; and
- g. The applicant waives any claim to the use of any particular frequency or of the electromagnetic spectrum as against the regulatory power of the USA.

Name of Applicant: Clearwire Spectrum Holdings II, LLC
 Signature (Authorized person filing form): Nadja S. Sodos-Wallace
 Signature Date (Authorized person filing form): 11/09/2006
 Title of Person Signing Application: Regulatory Counsel, Assistant Secretary
 Classification: Authorized employee

WILLFUL FALSE STATEMENTS MADE ON THIS FORM ARE PUNISHABLE BY FINE AND/OR IMPRISONMENT (U.S. CODE, TITLE 18, SECTION 1001), AND/OR REVOCATION OF ANY STATION LICENSE OR CONSTRUCTION PERMIT (U.S. CODE, TITLE 47, SECTION 312(A)(1)), AND/OR FORFEITURE (U.S. CODE, TITLE 47, SECTION 503).

NOTIFICATION TO INDIVIDUALS UNDER PRIVACY ACT OF 1974 AND THE PAPERWORK REDUCTION ACT OF 1980

Information requested through this form is authorized by the Communications Act of 1934, as amended, and specified by Section 308 therein. The information will be used by Federal Communications Commission staff to determine eligibility for issuing authorizations in the use of the frequency spectrum and to effect the provisions of regulatory responsibilities rendered by the Commission by the Act. Information requested by this form will be available to the public unless otherwise requested pursuant to 47 CFR 0.459 of the FCC Rules and Regulations. Your response is required to obtain this authorization.

Public reporting burden for this collection of information is estimated to average four (4) hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to the Federal Communications Commission, Records Management Branch, Paperwork Reduction Project (3060-0065), Washington DC 20554. DO NOT send completed applications to this address. Individuals are not required to respond to this collection unless it displays a currently valid OMD control number.

THE FOREGOING NOTICE IS REQUIRED BY THE PRIVACY ACT OF 1974, P.L. 93-579, DECEMBER 31, 1974, 5 U.S.C. 552a(e)(3), AND THE PAPERWORK REDUCTION ACT OF 1980, P.L. 96-511, DECEMBER 11, 1980, 44 U.S.C. 3507.

Station Location

City	State	Latitude	Longitude	Mobile	Street (or other indication of location)	County	Radius of Operation
0 Portland	Oregon	North 45 30 40	West 122 49 52	Portland, Oregon, Geographic Service Area of EBS licenses WHR522 and WLX681		MULTNOMAH	52.00

Datum: NAD 27

Is a directional antenna (other than radar) used? Yes

Exhibit submitted: Yes

(a) Width of beam in degrees at the half-power point:

(b) Orientation in horizontal plane:

(c) Orientation in vertical plane:

Will the antenna extend more than 6 meters above the ground, or if mounted on an existing building, will it extend more than 6 meters above the building, or will the proposed antenna be mounted on an existing structure other than a building? No

(a) Overall height above ground to tip of antenna in meters:

(b) Elevation of ground at antenna site above mean sea level in meters:

(c) Distance to nearest aircraft landing area in kilometers:

(d) List any natural formations of existing man-made structures (hills, trees, water tanks, towers, etc.) which, in the opinion of the applicant, would tend to shield the antenna from aircraft:

Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2548.00000000-2554.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	10M0W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2548.00000000-2554.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	5M00W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2554.00000000-2560.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	10M0W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2554.00000000-2560.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	5M00W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2560.00000000-2566.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	10M0W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2560.00000000-2566.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	5M00W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2566.00000000-2572.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	10M0W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2566.00000000-2572.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	5M00W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2572.00000000-2578.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	10M0W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2572.00000000-2578.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	5M00W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2578.00000000-2584.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	10M0W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2578.00000000-2584.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	5M00W7D	Internet data
Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2584.00000000-2590.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	10M0W7D	Internet data

Action	Frequency	Station Class	Output Power/ERP	Mean Peak	Frequency Tolerance (+/-)	Emission Designator	Modulating Signal
New	2584.00000000- 2590.00000000 MHz	FX	2.000000 W 250.000000 W	M	0.00100000 %	5M00W7D	Internet data

**Statement In Support of Clearwire Spectrum Holdings II, LLC's Application for
Experimental License in Portland, Oregon**

Clearwire Spectrum Holdings II, LLC, ("Clearwire") a limited liability company and a wholly-owned subsidiary of Clearwire Corporation¹ is hereby requesting Commission authorization to construct an experimental wireless system in the Portland, Oregon area using existing Educational Broadband Service ("EBS") spectrum licensed to Portland Regional Educational Telecommunications Corporation ("PRETC") under EBS Station WHR522 (Channels C1-4) and Hispanic Information and Telecommunications Network, Inc. ("HITN") under EBS Station WLX681 (Channels D1-3).² Both HITN and PRETC have consented to Clearwire's temporary use of their licensed spectrum for the subject program of experimentation and have provided Clearwire with letters demonstrating that consent (one is included and one will be included shortly and associated).

The experimental system will be used to evaluate the system level performance of equipment designed to meet the WiMAX 802.16e performance criteria. The experimental license is necessary because the Motorola equipment that is to be used for the test has not received FCC type acceptance. The equipment is branded under the name Motorola Wi4 and additional information about the equipment can be found on the Motorola website (<http://www.motorola.com/>). As described by Motorola:

Wi4 WiMAX provides enhanced broadband wireless access in fixed, nomadic and mobile environments. Operators with wi4 WiMAX networks will be able to extend coverage and capability to serve today's large metro areas as well as new markets previously not reached.

Users in rural markets and developing countries will finally have broadband services that they can afford, while mobile users will benefit from access to new mobile multimedia services and instant access to the whole of the Internet, wherever and whenever they want it.

Wi4 WiMAX end-to-end solutions meet virtually all of the operator's deployment needs including access, core, devices, network management and services.

The theory of operation is explained fully in documents created by the IEEE and WiMAX Forum (www.wimaxforum.org). It is Clearwire's objective to evaluate the key performance parameters (coverage, capacity, quality of service, etc.) of the 802.16e

¹ Both Clearwire Spectrum Holdings II, LLC (File Number 0002768668) and Clearwire Corporation (File Number 0002767874) have current FCC Forms 602 Ownership Disclosure Forms on file with the Commission's Wireless Telecommunications Bureau.

² Although HITN's license includes all four D-Group channels, the application only requests authorization to use channels D1-3, as Channel D4 will be used to provide educational programming. See, PRETC Request for Special Temporary Authority filed with the Wireless Telecommunications Bureau to allow it to use Channel D4 to continue to provide PRETC's educational programming.

equipment as compared to the equipment's specifications as well as how it compares to commercially available pre-WiMAX class equipment. In order to effectively evaluate system level performance, Clearwire intends to construct a system with a sufficient number of cells to create a realistic signal propagation and interference environment. The objective of the test is to understand the capabilities and limitations of the WiMAX equipment in order to establish the design processes to be used in future deployments of 802.16e technology.

The mobile WiMAX specifications have long been in development and are now resulting in the creation of commercially available equipment. The implementation of mobile WiMAX will result in a revolution of the wireless industry allowing the development and implementation of high speed applications in a mobile device. The proposed spectral efficiency of the WiMAX system will allow precious and limited spectrum to be used more effectively in the commercial market place.

Description of Directional Antenna

A directional antenna will be used with the following parameters:

- (a) width of beam in degrees at the half-power point: 60 to 120 degrees
- (b) orientation in horizontal plane: various, 0 to 359 degrees
- (c) orientation in vertical plane: various, +/-5 degrees from horizon

PRETC LETTERHEAD

Clearwire Spectrum Holdings II LLC
815 Connecticut Avenue, NW, Suite 610
Washington, DC 20006

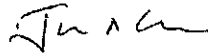
Re: Request for Experimental License
On EBS Stations WHR522
(Channels C1234)
Portland, Oregon

To Whom it May Concern:

Portland Regional Educational Telecommunications, Corp. ("PRETC"), licensee of C-Group EBS Station WHR522, Portland, Oregon, hereby consents to Clearwire Spectrum Holdings II LLC's ("CSHII") use of those channels in relation to its evaluation and testing of WiMAX 802.16e compliant equipment and for comparison to other available equipment for a period of one year commencing as of November 1, 2006 in accordance with the terms set forth in the agreement between the parties.

Sincerely,

Portland Regional Educational
Telecommunications, Corp.



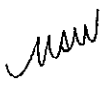
Name

Pres.

Title

11/9/06

Date





Hispanic Information & Telecommunications Network
Brooklyn Navy Yard Building #292, Suite #211 63 Flushing Avenue, Unit 281 Brooklyn, NY 11205
Telephone 212.966.5660 Fax 212.966.5725
September 25, 2006

Clearwire Spectrum Holdings II LLC
815 Connecticut Avenue, NW, Suite 610
Washington, DC 20006

Re: Request for Experimental License
On EBS Station WLX681 (Channels D1234)
Portland, Oregon

To Whom it May Concern:

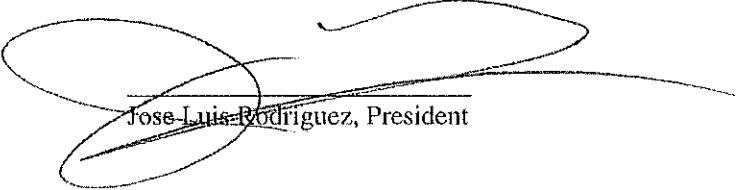
Hispanic Information and Telecommunications Network, Inc. ("HITN"), licensee of D-Group EBS Station WLX681, Portland, Oregon, hereby consents to Clearwire Spectrum Holdings II LLC's ("CSHII") use of those channels in relation to its evaluation and testing of WiMAX 802.16e compliant equipment and for comparison to other available equipment for a period of two years.

HITN believes that the testing and comparison of such WiMAX 802.16e compliant equipment will ensure that the best and most efficient technologies and equipment will be rapidly evaluated and thus available for use on the 2.5 Ghz band as the transition process progresses. HITN believes that this experiment will have a significant benefit to educational licensees that will be seeking to adapt new broadband services facilitated by such technologies to instructional purposes in satisfaction of their unique educational missions.

By signing below, I confirm that HITN has consented to CSHII's use of our EBS spectrum for the above-described purposes and the filing of this letter in association with CSHII's request for an experimental license. CSHII has agreed to operate in accordance with the rules and regulations of the Federal Communications Commission.

Sincerely,

Hispanic Information and
Telecommunications Network, Inc.



Jose Luis Rodriguez, President