

Date: July 8, 2016

Subject: Public and Redacted Version of Request for Confidential Treatment and Complementary Exhibits

File Number: 1041-EX-ST-2016

To Whom It May Concern:

Federated Wireless, Inc., pursuant to 5 U.S.C. § 552 and Sections 0.457 and 0.459 of the Commission's Rules, 47 C.F.R. §§ 0.457, 0.459, hereby requests that certain information complementary to its above-referenced application for Special Temporary Authority (STA) be treated as confidential and not subject to public inspection. The designated information constitutes confidential and proprietary information that, if subject to public disclosure, would cause significant commercial, economic, and competitive harm to Federated Wireless. As described below, Federated Wireless's request satisfies the standards for grant of such requests set forth in Sections 0.457 and 0.459 of the Commission's Rules.

In accordance with Section 0.459(b) and in support of this request, Federated Wireless provides the following information:

1 IDENTIFICATION OF THE INFORMATION FOR WHICH CONFIDENTIAL TREATMENT IS SOUGHT:

Federated Wireless's request for confidential treatment is limited to information that has been redacted from the STA and Exhibits A and B. Federated Wireless does not seek to withhold from public inspection information in the STA and associated exhibits necessary for interference mitigation, including applicant name, contact information, test location, frequency, output power, effective radiated power, emission characteristics, and modulation.

Exhibit A – Special Temporary Authority Justification:

Federated Wireless requests confidential treatment of the information underlined below and redacted from the publicly filed version of Exhibit A that contains confidential and proprietary information regarding the proposed tests/ experiments:

Consistent with the standards set forth in Section 5.61 of the Federal Communications Commission's (Commission's) Rules, 47 C.F.R. § 5.61, Federated Wireless requests Special Temporary Authority (STA) to conduct demonstrations of Shared Spectrum experimental Small Cell Base Stations in Denver, Colorado. Operations under this STA would be consistent with the Part 96 rules the Commission has adopted

to govern use of the 3.5 GHz band. The STA is sought for a period of 180 days beginning on July 31, 2016. Federated Wireless outlines below its need for the requested STA and the reasons that the STA should be granted expeditiously.

The STA is needed to execute operation and performance of Small Cell Base Stations in the 3.5 GHz band, which the Commission has designated for broader commercial use. The operation of Small Cell Base Stations will be consistent with the Commission's Part 96 rules and the incumbent operators will be protected from any harmful interference.

In Denver, CO, Federated Wireless requests authorization to operate on the frequencies between 3550 and 3700 MHz, which have been opened for innovative small cell spectrum sharing in connection with the new Citizens Broadband Radio Service (CBRS). Operations across the proposed frequencies will be consistent with the rules for CBRS devices (CBSDs) set forth in Part 96 of the Commission's rules. As stated above and described below, Federated Wireless will avoid harmful interference to incumbent operations throughout the band, and to operations in adjacent bands.

Planned Operations

Federated Wireless anticipates performing the following tests under the requested STA. The proposed experimental operations in the 3.5 GHz band will be conducted without harmful interference to other authorized users.

- Small Cell Indoor coverage and performance: Federated Wireless in collaboration with its Radio supplier will test:
 - o The operation of the small cell base station to understand the coverage and performance of indoor and outdoor base stations in the 3.5 GHz band.
 - [REDACTED]
 - o The performance and operation of a CBSD when instructed by SAS to switch frequency.
 - o The impact on an end user when a CBSD has switched its frequency
- SAS Management of Shared Spectrum: Federated Wireless, in collaboration with its radio partners, will test spectrum sharing, including Priority Access License (PAL) and General Authorized Access (GAA) registration, CBSD spectrum grant request and SAS response, spectrum grant revocation, and simulated incumbent protection scenarios in an operation environment.

Non-Interference Analysis

Operation under the STA will not adversely impact any authorized user of RF Spectrum.

Radar Protection: The installation of a CBSD in Denver will not interfere with Military radars that operate in the 3550-3700 MHz band. Denver is 1200 km away from the nearest coastal Exclusion Zone established by the Commission. It is also more than 100 km from the nearest inland Exclusion Zone (Fort Carson, CO), established by the Commission to protect adjacent band radar.

International Border: Denver is more than 1,080 km from the nearest Canadian border and over 900 km from the Mexican border. Therefore, no interference to incumbent operations is expected for international operation.

In-Band FSS Protection: The Commission has identified in-band fixed satellite service (FSS) operations in 3600-3700 MHz that require protection under Part 96. Part 96 further requires coordination with any in-band FSS operations within a 150 km coordination contour, operating within 3650-3700 MHz band. The Denver test site is more than 180 km from the nearest in-band FSS site (Cheyenne, WY), and therefore no interference with FSS operators is expected.

Adjacent Band FSS Protection: The Commission has identified adjacent band FSS operations in the 3700-4200 MHz band that require protection under Part 96. Part 96 requires protection of adjacent-band FSS operations within 40km of the FSS site. The Denver test site is more than 160 km away from the nearest adjacent-band FSS operations (Cheyenne, WY), and therefore no interference with FSS operators is expected.

Part 90 (GWBL): There are a number of Part 90 systems operating in this band in the Denver metropolitan area. To ensure that these operators are protected, [REDACTED]

[REDACTED]

Exhibit B – Technical Information:

Federated Wireless requests confidential treatment of the information underlined below and redacted from the publicly filed version of Exhibit B that contain confidential and proprietary information regarding the proposed testing in Denver:

Applicant Name: Federated Wireless, Inc.

Applicant FRN: 0024199457

Legal Contact Details:

Name of Contact	Kurt Schaubach
Contact Address	4301 N Fairfax Drive, Suite 310 Arlington, VA 22203

Technical Contact Details:

Name of Contact	Farhad Bassirat
Contact Address	4301 N Fairfax Drive, Suite 310 Arlington, VA 22203

Base Station General Information

Equipment	[REDACTED]
Quantity	[REDACTED]
Area of Operation	Operation not to exceed 25 km from the following geographic center points: Latitude: 39.695712, Longitude: -104.997620

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

[REDACTED]

Amplifier Detail

Antenna	Internal
Type	directional
Quantity	2 per Base Station
Gain	3 dB
Beamwidth at Half-Power Point	Various (60° to 360° Horizontal and 6° to 180° vertical)
Orientation in Horizontal Plane	Various (0° to 360°)
Orientation in Vertical Plane	Various (0° to -60°)

Radio	Modulation	Emission Designator	Bandwidth	Maximum Output Power	Maximum EIRP
	Digital	10M0W7W	10 MHz	500 mW	30 dBm
	Digital	20M0W7W	20 MHz	500 mW	30 dBm

2 IDENTIFICATION OF THE CIRCUMSTANCE GIVING RISE TO THE SUBMISSION

Federated Wireless is submitting an application for Special Temporary Authority to test certain aspects of prospective wireless operations in the 3.5 GHz band

3 EXPLANATION OF THE DEGREE TO WHICH THE INFORMATION IS COMMERCIAL OR FINANCIAL OR CONTAINS A TRADE SECRET OR IS PRIVILEGED:

The information requested to be kept confidential has significant commercial and financial value to Federated Wireless. The exhibits supporting the STA discuss tests/experiments that include trade secret information. The Commission has clarified that confidential treatment should be afforded to trade secrets. Federated Wireless's tests and experiments and proprietary wireless applications using particular radio frequency equipment and shared spectrum technology represent "secret commercially valuable plans" within the meaning of a trade secret as recognized by the Commission.

4 EXPLANATION OF THE DEGREE TO WHICH THE INFORMATION CONCERNS A SERVICE THAT IS COMPETITIVE:

Federated Wireless is planning to test its SAS (Spectrum Access System), shared spectrum solutions, and operation of Small Cell Base Station in the 3.5 GHz band in Denver, Colorado. The services and shared spectrum technologies that are the subject of this STA have not been fully developed, but are expected to be implemented in hardware, software, and service offerings in the 3.5 GHz band. SAS Administrators, equipment manufacturers, and software developers will compete vigorously on the basis of their products in this band.

5 EXPLANATION OF HOW DISCLOSURE OF THE INFORMATION COULD RESULT IN SUBSTANTIAL COMPETITIVE HARM

The technology under test is very sensitive and confidential in nature. Disclosure of the redacted information could cause substantial competitive harm to Federated Wireless, because it would provide competitors insight into confidential research, development, operational, and

strategic information that would not otherwise be available, which would work to Federated Wireless's severe competitive disadvantage.

6 IDENTIFICATION OF ANY MEASURES TAKEN BY THE REQUESTING PARTY TO PREVENT UNAUTHORIZED DISCLOSURE.

Federated Wireless routinely treats the redacted information as highly confidential and exercises significant care to ensure that such information is not disclosed to its competitors or the public. Federated Wireless has taken steps to keep confidential the information set forth in the confidential exhibits by limiting the number of people involved in the tests/experiments to only those on a "need to know" basis, and by requiring that any third parties involved in the preliminary analysis execute robust nondisclosure agreements.

7 IDENTIFICATION OF WHETHER THE INFORMATION IS AVAILABLE TO THE PUBLIC AND THE EXTENT OF ANY PREVIOUS DISCLOSURES OF THE INFORMATION TO ANY THIRD PARTIES

The information contained in the confidential exhibits is not available to the public, and will only be disclosed to third parties pursuant to the restrictive safeguards described above. Federated Wireless voluntarily provides the information to the Commission at this time with the expectation that it will be treated confidentially in accordance with the Commission's rules.

8 JUSTIFICATION OF THE REQUESTED PERIOD OF CONFIDENTIALITY

Federated Wireless requests that the redacted information be treated as being confidential on an indefinite basis as it cannot identify a date certain on which this information could be disclosed without causing competitive harm to Federated Wireless. Shared spectrum is new technology that is being developed. As such, Federated Wireless expects that confidential treatment will be necessary for the length of the proposed experiment and thereafter in order to protect its evolving business and technology strategies.

9 ANY OTHER INFORMATION THAT WOULD BE USEFUL IN ASSESSING WHETHER THIS REQUEST SHOULD BE SUBMITTED

The information subject to this request for confidentiality should not be made available for public disclosure at any time. There is nothing material that public review of this information would add to the Commission's analysis of Federated Wireless's request for an experimental authorization.

Moreover, public disclosure of the sensitive information in the confidential exhibits to the STA after the Commission has ruled on the Request for Confidentiality is not necessary for the Commission to fulfill its regulatory responsibilities.



Consistent with 47 C.F.R. § 0.459(d), Federated Wireless requests notification if release of the information subject to this request is requested pursuant to the FOIA or otherwise, so that Federated Wireless may have an opportunity to oppose grant of any such request.

Respectfully submitted,

/s/ Kurt Schaubach

Kurt Schaubach
Chief Technology Officer
Federated Wireless, Inc.