

Loon LLC
Form 442 File Number: 0609-EX-CN-2020
Date of Submission: July 31, 2020

EXHIBIT A - NARRATIVE STATEMENT

Consistent with the standards set forth in Section 5.63 of the Federal Communications Commission's (FCC's or Commission's) Rules, 47 C.F.R. § 5.63, Loon LLC (Loon) requests a new Experimental Radio Service License (Experimental License) and outlines below the compelling reasons why the application should be granted expeditiously.

Loon Background

Loon is working to bring HAPS-powered Internet access to unserved and underserved communities around the world.

[REDACTED]

Description of the Program

Loon seeks the instant Experimental License to evaluate the performance of 700 MHz spectrum for communications with terrestrial UE. Loon's experiments involving 700 MHz spectrum will complement ongoing tests already approved by the FCC involving E-band spectrum under call signs WI2XCS and WH2XUP to interconnect between Loon HAPS balloons and ground terminals.

[REDACTED]

[REDACTED]

[REDACTED]

Loon will have the ability to terminate transmissions if the platforms exit the test area. First, the platforms will continue to contain a GPS receiver. If the receiver detects that the platform has exited the test area, it will automatically disable transmissions over the test frequencies. Second, connections to the ground infrastructure can be used to manually disable transmissions. Third, the airborne radios will automatically be disabled if the connection to the ground infrastructure is lost for a defined period of time.

The proposed experimental operations accordingly will be conducted without harmful interference to other authorized users. Should any interference be reported, the proposed tests will cease immediately unless and until the interference is resolved to the satisfaction of the complainant. Protected users should report possible interference to Ben Wojtowicz of Loon (email: loon-fcc@google.com; telephone: 847-767-0554).

Regulatory Contact

Jeanette Kennedy
1600 Amphitheatre Parkway
Mountain View, CA 94043
650-495-6228
jtkennedy@loon.com

Technical Contact

Ben Wojtowicz, Engineering Lead
1600 Amphitheatre Parkway
Mountain View, CA 94043
847-767-0554
bwojtowi@loon.com

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EXHIBIT B - TECHNICAL INFORMATION

Applicant Name: Loon LLC

Applicant FRN: 0026885012

Technical Contact Details

Name of Contact: Ben Wojtowicz, Engineering Lead

Contact Details: 1600 Amphitheatre Parkway, Mountain View, CA 94043

Phone: 847-767-0554

Email: bwojtowi@loon.com

Should any interference be reported, the proposed operator will cease transmissions immediately unless and until the interference incident has been resolved. The technical point of contact above has “kill switch” capability for all devices involved in the proposed conventional experimental license application (“License Application”).

Legal Contact Details

Name of Contact: Jeanette Kennedy, Regulatory Affairs Manager

Contact Details: 1600 Amphitheatre Parkway Mountain View, CA 94043

Phone: 650-495-6228

Email: jtkennedy@loon.com

Explanation

Loon LLC (“Loon”) seeks to operate High-Altitude Platform Station (“HAPS”) launched from Spaceport America that will interconnect with UE.