

To: Anthony Serafini, FCC
From: Chris Voorhees, Planetary Resources Development Corporation (PRDC)
Re: Amendment to PRDC FCC STA Application #0313-EX-ST-2014
Date: 8/14/2014

This memorandum outlines modifications to PRDC's application for FCC STA experimental license #0313-EX-ST-2014, related to its Arkyd 3 spacecraft flight experiment. The modifications are as follows:

1. The Ubiquiti Networks XR2 radio originally included in the application is no longer part of the experiment and has been removed from the Arkyd 3 space station and earth station configurations. Accordingly, the application shall include the following modifications:
 - a. The Ubiquiti Networks XR2 **shall be removed** from the application's Manufacturer / Transmitting Equipment List
 - b. The following RF emission **shall be removed** from the application's Arkyd 3 space station at 400 km orbit, 51.6° inclination:
 - i. Frequency: 2.4000 – 2.4850 GHz
 - ii. Output Power / ERP: 600 mW / 4.460 W
 - iii. Mean / Peak: Peak
 - iv. Emission Designator: 22M0F1D
 - v. Modulating Signal: 1 Mbps DSSS
 - c. The following RF emission **shall be removed** from the application's earth station in Redmond, Washington:
 - i. Frequency: 2.4000 – 2.4850 GHz
 - ii. Output Power / ERP: 600 mW / 1200 W
 - iii. Mean / Peak: Peak
 - iv. Emission Designator: 22M0F1D
 - v. Modulating Signal: 1 Mbps DSSS
2. The quantity of Microhard MHX 2420-SL radios used in the flight experiment is in error in the application's Manufacturer / Transmission Equipment List section. The correct quantity of Microhard MHX 2420-SL radios is **QTY = 2**, one (1) for the Arkyd 3 space station and one (1) for the earth station in Redmond, Washington.

With the exception of the above modifications, all other information contained in the application and its attachments remains unchanged.