



# The International Amateur Radio Union

Since 1925, the Federation of National Amateur Radio Societies  
Representing the Interests of Two-Way Amateur Radio Communication

Firebird 2

14 July 2014

Larry Springer

Dear Larry

I have discussed your request with my team. We have been able to confirm the requested frequencies and coordinated as follows..

Downlink 1      437,405 MHz

Downlink 2      437,230 MHz

Uplink            145,860 MHz

The above frequency has been coordinated with the understanding that you have agreed to the IARU terms of reference for the use of amateur service spectrum for experimental purpose.

Please advise us the launch dates once it is known. Although we have avoided coordinating frequencies which have already be coordinated for other known satellites **on the same mission**, it remains your responsibility to check for any possible conflict and advise us accordingly

Please also confirm the name and full contact details of the person who will control the operation of Firebird 2 after launch.

Please note that all frequencies in the amateur satellite service are shared frequencies. We have attempted to make the best possible selection for your project.

Please also read the attached documents about controlling satellites.

While coordinating the frequencies noted above, we also note that use of frequencies as described in your request for frequency coordination appears inconsistent with numbers 1.56 and 1.57 of the ITU radio regulations.

**RR 1.56** *amateur service*: A radiocommunication service for the purpose of self-training, intercommunication and technical investigations carried out by amateurs, that is, by duly authorized [**licensed**] persons [**individual natural people**] interested in radio technique solely with a personal aim [**for themselves**] and without pecuniary interest [**compensation**].

(NOTE1: Explanatory terms in brackets are not part of the treaty text.),

(NOTE2: “ without pecuniary interest” means that you may accept free will donations of goods and services, that is, with nothing required in return. However, you may not accept money or other compensation for services or data provided to anyone for any reason.)

RR 1.57 amateur-satellite service: A radiocommunication *service* using *space stations* on earth *satellites* for the same purposes as those of the *amateur service*.

We strongly suggest consulting with your administration (telecommunication regulator) to determine if the amateur-satellite service or another radiocommunication service is appropriate for your operation. The decision of whether the proposed operation is appropriate for the amateur-satellite service rests entirely with your administration. We encourage you to share this letter with them.

You are reminded of the conditions under which this letter is issued and that you agree to notify the IARU Satellite Advisor of the following events, whenever they occur.

- a. Experimental station call sign assignment.
- b. Experimental station license expiration.
- c. International communication arrangements made.
- d. Launch date in the coordination request passes without the launch occurring.
- e. Launch failure.
- f. Mission termination (including spacecraft failure.)

Best wishes for a successful project. Please keep us informed of progress

Hans ZS6AKV  
Hans van de Groenendaal  
IARU Satellite Adviser

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Visit [www.iaru.org/satellite](http://www.iaru.org/satellite) for guidelines and useful information