Attachment A

Application for Modification of Experimental License

By this application, Viasat, Inc. ("Viasat") requests modification to its experimental license under call sign WH2XTJ[1]. Specifically, Viasat requests to add its newest high capacity satellite ViaSat-2[2] (S2902) located at 69.9° W.L., increase the geographic area consistent with the Viasat-2 footprint over the U.S. and its territories and add new emissions consistent with the planned operation on ViaSat-2.

Grant of these modifications would allow Viasat to continue development and test antennas that provide broadband services to a wide range of U.S. households, businesses and government users.

1. Operation on ViaSat-2 at 69.9° W.L.

The proposed experiment will be conducted in the same ViaSat-2 Ka-band network using the same frequencies and access method as residential customers using the fixed VSAT equipment authorized under call sign E170088.[3] This network incorporates the functions necessary to support mobility experiments into the management functions of the multi-frequency time division multiple access (MF-TDMA) waveform technology operating on the network. The transmitted bursts from the earth stations use the same return link channels as used by the residential terminals and represent separate bursts on the return channel frequency.

2. Modification to Geographic Area

With the addition of ViaSat-2 there is an increase in the geographic footprint over the United States and its territories. Specifically this modification seeks to add Puerto Rico and the U.S. Virgin Islands.

3. Addition of Emissions

The ViaSat-2 Ka-band network uses a new waveform that requires the addition of new emission designators. While there is an increase in EIRP there is also an increase in the necessary bandwidth. These increases mean that the off-axis EIRP density does not differ from the emissions on the ViaSat-1 Ka-band network, authorized under the current experimental license with call sign WH2XTJ.

During testing, transmissions will be monitored by test engineers as well as the satellite operations center. If in the event interference is detected or for any other reason it is necessary to

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1 *See* Call Sign WH2XTJ; OET File Nos. 0248-EX-PL-2015; 0153-EX-ML-2015; 0224-EX-CR-2017.

2 *See* Call Sign S2902; IBFS File Nos. SAT-LOI-20130319-00040; SAT-MOD-20141105-00121; SAT-AMD-20150105-00002; SAT-MOD-20160527-00053 ("ViaSat-2 Authorization").

3 *See* Call Sign E70088; IBFS File Nos. SAT-LIC-20170401-00357.

cease transmissions, Viasat maintains a 7/24 Network Operations Center which can be reached at (720)-493-7300.