

Exhibit 1:

Is this authorization to be used for fulfilling the requirement of a government contract with an agency of the United States Government?

As part of the ongoing Argos project (<http://argos.rice.edu>), the applicant (Rice University) has designed and built custom reconfigurable many-antenna base stations (ArgosV3). The project is funded by national science foundation research grant CRI 1405937 and will continue until July 2017 and will possibly extended till July 2018.

https://www.nsf.gov/awardsearch/showAward?AWD_ID=1405937

The Argos project will develop and deploy a first-of-its-kind multi-cell wireless network research platform capable of massive MIMO on the campus of Rice University over a period of two years. The ArgosNet research platform consists of the following key components: (i) a highly configurable many-antenna base station called ArgosBS, (ii) mobile terminals called ArgosMobile. ArgosNet will serve as a testbed for research addressing the multidisciplinary challenges of advanced wireless communication for 5th and 6th generation of mobile networks.

Therefore, the requested license is essential in conducting experiments and testing the ArgosNet in outdoor environment and in various frequency bands in order to make observations on wireless channel effects on Massive-MIMO communications in various bands. This research help advance state-of-the-art in wireless communications and mobile networking and its results will become public knowledge as they will be published in wireless communications journals and conferences.

It is worth to mention that Rice University has acquired licenses for the TV white space spectrum in the past to test its TVWS radios as part of similarly NSF-funded research projects.