

Description of Research Project: SCU Ground Station Supporting 1HOPSAT-1 Cubesat

The ground station antenna will be used to provide command and control for the Hera Systems' 1HOPSAT-1 spacecraft. This mission is an on-orbit demonstration, risk reduction, test, and characterization of key avionics and optical component.

Commanding and telemetry will be implemented with the C-band transceiver on the spacecraft, and this ground station.

Also, the satellite contains an imaging telescope payload for recording images and video of the Earth. Image data can be transmitted to this ground station over the same C-band transceiver.

The License requested, is necessary to authorize radio transmission of commands from the ground station to the satellite.