

Description of the project:

We are developing a new radio system for use by universities building cubesats that will be licensed with STA or experimental licenses.

Description of the facilities:

We need to test this radio on 437.500Mhz with low power in our laboratory. Testing needs to be done between two radios, one of the new ones and one current commercial radio. We do not have a current STA or experimental license that allows us to create those emissions. Transmit power will not exceed 5W. Antennas in use will be 1/4 wave whips.

Current facilities are not adequate:

Current cubesat radios for university cubesats do not provide forward error correction or dynamically adjustable data rates.