

Exhibit for HiAkaSat Experimental License Application

#2b (A showing that the communications facilities requested are necessary for the research project)

The HiakaSat satellite is a remote sensing satellite. As such, a large amount of imagery data will need to be transferred down to Earth. Radio communications is the method chosen for command and telemetry. This appears to be the most economical and least risk communication method when compared with other non-RF communication technologies.

#2c (A showing that existing communications facilities are inadequate).

There are no existing communications facilities, this is a new satellite.