

Exhibit Entry: Form 442 Question 6: Description of Research Project

I am filing for an experimental FCC license to operate under the frequency 151.3MHz using a pair of transceivers and two antennas. This is a prototype project and I am a graduate student for the University of California, Santa Cruz. The project is to monitor coral reef habitats and send the information wirelessly to land. The bandwidth does not need to be large; however the distance to land is approximately 6km. I tried to use the unlicensed 900MHz band during a test deployment this summer (August) at the Midway Atoll in the Hawaiian Islands and the link was too weak to reach land. So I am moving to a lower frequency using a Radiometrix BiM1 151.300MHz transceiver in my design. Ultimately, after a successful deployment on Midway, these transceivers might be used in another study in the Great Barrier Reef in Australia within next year. I am applying for a 2 year license, during which I will study and write my thesis on the project.