**Test Objective/Description:** Duration

**Location:** Fleming lab

**Date:** 1/27/16

**Hardware Needed:** Quad, external payload mass, stopwatch

**Procedure:**

Make sure battery is completely charged.

Check that all hardware on the quad is secured and functional.

Make sure all sensors are turned on to simulate the power draw of an actual mission.

Clear the testing area and wear safety glasses.

Fly quad in a search pattern to mimic flight conditions.

Record how long the quad can fly until the low battery signal.

**Requirements Met**

|  |  |
| --- | --- |
| **1.3.1** |  |
| **1.3.2** |  |
|  |  |
|  |  |

**Test Anomalies**

|  |  |
| --- | --- |
| After about 10 minutes, the quad required full throttle to maintain flight. |  |
| Another test was conducted that produced the same results |  |
|  |  |
|  |  |

**Test Results:**

Quad flew for 13 min 20 seconds before the battery ran out. External payload of 1lb.