

<b>Team #:</b>	P16104	<b>Team Name:</b>	Microfluidic Spectroscopy in CubeSats
<b>Date:</b>	5/8/2016 16:54	<b>Document Owner:</b>	James Lewis
<b>Revision #:</b>	1		

<b>Subsystem/ Function/ Feature Name:</b>	Max Current
<b>Date of Test:</b>	
<b>Performed By</b>	James Lewis and Matthew Glazer

Concluded Condition of meeting Engineering Specification:	<b>PASS</b>
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**I. TESTING SPECIFICATION**

Specification Number	Importance	Source	Function	Specification (Metric)	Unit of Measure	Max Value	Min Value	Comments/Status
ER 11	3	PRP	System	Current	A	2	0.5	

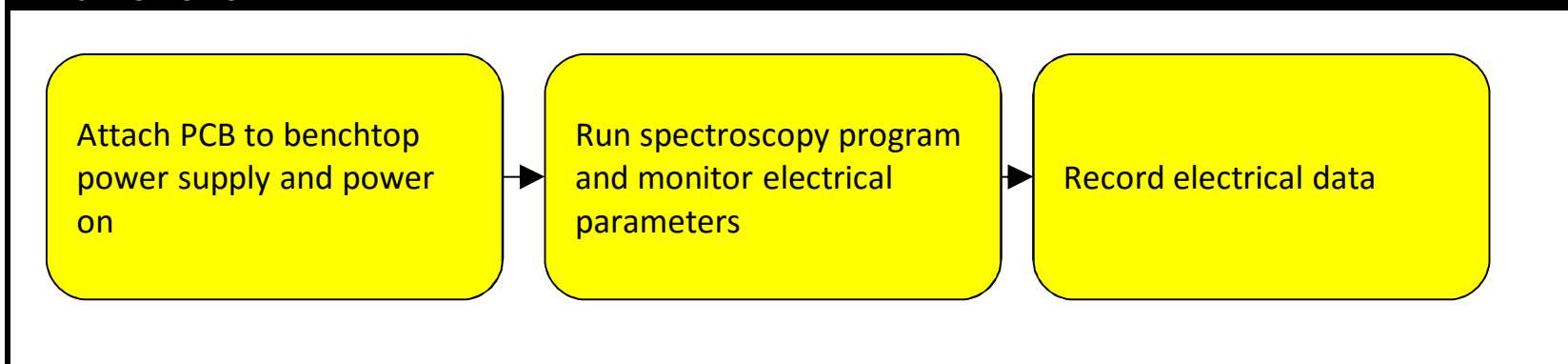
**II. EQUIPMENT REQUIRED**

Specification Number	Equipment or Instrumentation required
ER 11	Benchtop power supply, photodiode w/ complimentary circuitry, custom fixture, laptop

**III. DATA COLLECTION STRATEGY**

Specification Number	Data acquisition strategy
ER 11	The goal of this test is to gauge the electrical parameters of the project. These parameters include the current, voltage, and power consumption

**III. TESTING FLOWCHART**



**IV. RAW DATA ACQUISITION**

	<b>LED OFF</b>	<b>LED ON</b>
<b>Current</b>	<b>0.112A</b>	<b>0.136A</b>

#### **V. RESULTS**

The total current consumption with the LED running was 0.136A. This was also the maximum current draw of the system

#### **VI. CONCLUS**

The current limit set was for 2A. Since the maximum current draw never exceeded 0.15A, this test passed the current requirement