**Date: 9/6/2014**

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| **Group Number and Name** | **#14 Low Cost RF power meter** |
| **Client/Advisor** | **Dan Stieler/ Prof Neihart** |
| **Attendees/Role** | **Silu Feng/Leader, Xiaoshuo Li/key idea holder, Yijia Huang/webmaster, Boyang Hu,Cong Han/communicater, Yusi Xie/key idea holder** |

# Past week accomplishments

What was done, who did it, and when it was done

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| * Our group meets the Prof Neihart and discuss about the plan for this semester. * The diode group reviews the knowledge of diode detector, low pass filter and scale amplifier. * The coupler group reviews the design of directional coupler. * The diode group run the AC simulation of complete diode detector, revise the design of low pass filter and add additional filter in the scale amplifier. |

# Plan for coming week

What to do, who, and when should it be done

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| * The coupler group needs to buy connectors and other parts to test the piece. * The coupler group will build the coupler. * The coupler group will use oscilloscope to test parts. * The diode group needs to use AC and transing response simulation to test low pass filter. * The diode group needs to use potentiometer to replace the offset voltage source. |

# Pending Issues

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| * Build the directional coupler. * Finish the design of diode detector. |

# Individual Contributions

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| * Silu Feng review project plan and document (1 hr). Search and design how to test directional coupler (3 hr). * Xiaoshuo Li use ADS to test diode detector. Revise the attenuation put on scale amp. Work with Cong Han and Boyang Hu to revise the design of diode detector (5 hr). * Yijia Huang review what we did last semester(1 hr). Recalculate the max flux density to make sure T-94-6 would not burn under 1000W. Read the documents and files to draw a graph about how to initial our testing coupler. Watch videos about how to cut cables, remove sheath and solder (3 hr). Talk with detector group about details that they would require. Discuss with teammates about how to testing and watch videos (1 hr). * Boyang Hu researches the potentiometer base system. Add Xiaoshuo’s extra attenuation on the first voltage divider. Work with Xiaoshuo to put extra capacitor after the first voltage divider (4 hr). * Cong Han revise the RC components of low pass filter. Work with Xiaoshuo to solve the slow response after filter. Ask Prof Neihart about the design of filter. (4 hr) * Yusi Xie review the project plan and documents (1 hr). Search about how to build directional coupler (3 hr). |

Individual hourly Contributions

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| **NAME** | **Hours this week** | **HOURS**  **Cumulative** |
| Silu Feng | 4 | 4 |
| Xiaoshuo Li | 5 | 5 |
| Yijia Huang | 5 | 5 |
| Boyang Hu | 4 | 4 |
| Cong Han | 4 | 4 |
| Yusi Xie | 4 | 4 |

# Comments and extended discussions:

We all did a great job in the past week.