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| **MEETING MINUTES – Sponsor Meeting** |
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| OWNER: Julia Kim |

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Present: Joshua Cushion, Patrick Delallana, Julia Kim, Benjamin Mock, Jasmine Vanderhorst

Time 5:30 p.m. – 7:00 p.m.

Pete wanted to go over the components that have been received and that were still pending.

-VCO: Has not been ordered yet as the company originally considered, Hiitite, was purchased by another company so there have been issues getting this component.

-Multipliers: Also from Hiitite so looking around for new options.

-Power amplifier: There is a quote from Fairview, which is at $1900 and is in stock. It’s been sent to Donna for ordering.

-Wideband amplifier: Received.

-Horns: 25 horns ordered and received.

-Low noise amplifier: It’s also been sent to Donna as it’s also from Fairview, and it should take about 2 weeks to be received.

 -Single pole four throw switch: A question mark will be assigned to that one as there are some issues with that part.

-Single pole sixteen throw switch: It’s been ordered; however it’s the one with the longest shipping time.

-Attenuators: Also part of the Fairview order, which are in the queue for orders to be placed.

-IQ demodulator: Received.

-A/D converter: It needs to be ordered, which can be done from the Digilent website.

-Digilent board: Two were ordered and have been received.

-Band pass filters: Have been ordered and should be received sometime soon.

-Isolator: Order has been sent to Donna, however hasn’t been placed yet.

-Waveguide adapters: Haven’t been ordered yet as Ben didn’t have enough information on the part. Pete will help with that one.

-Cables: Josh asked if there were any specific cable links that were needed. Pete said they should be as short as possible. We need to identify how many cables are needed and how long they should be.

Pete asked Pat if he had the Xilinx suites, and informed him that he could download it for free from the website as a student and he could also download Adept, which is another program to be used for the programming. He said he would send Pat what he has used before.

He asked about the room to be used for the project, and Ben let him know that he had managed to acquire a room at the CAPS building that is 30x12 feet and the ceiling is about 2 stories high. There is also a metal frame that can be used to hang the absorber foams. There are also 2 pieces of equipment in the room that are not used every day; however, the room cannot be used when they are being used. The absorbers are pending as Ben wanted to make sure the actual size of the room we would be using before placing an order.

Test equipment:

Pete thinks that we should go ahead and buy an X-band detector for test equipment, which would be important in order to determine whether the pulse signal is actually a pulse and to look at the quality of the RF pulse and to verify the fidelity of the pulse.

For the spectrum analyzer, Pete is going to look into whether he can ask Tektronics to loan us one or we would have to rent one.

For the field strength meter, it has to work in the X-band.

The laser should be easily procurable; however, the mechanical engineers have to get on it in order to make sure it fits their design as it should be aligned accurately.

For the DC power supply, CAPS said we can use what they have or we can also borrow from the laboratories. Josh is going to check whether that will be a problem.

As for the upcoming visit, Pete said that he is considering staying until February 11th in order to meet with the group and go through the different tasks to be done. He asked who would be available when and we gave him our times.

He asked us to come up with the testing plan for the components, the image formation calibration plan, and for advancement on the programming.