Latent Damage and Reliability in Semiconductor Devices

Advisor: Dr. Randall Geiger Client: Dr. Randall Geiger, EcpE

Members (roles):

Sean Santella (Leader)
Jaehyuk Han (Webmaster)
Hayle Olson (Communication Leader)
David Ackerman (Key Concept Holder)

Weekly Summary:

We held two team meetings and an advisor meeting this week. During the advisor meeting it was brought to our attention that our high voltage source was not operating as we had originally thought. We also wrote our final report.

Meeting Notes:

Team Meeting (April 18th at 2PM in Coover 3014)

Duration: 1 Hour

Members Present: Jaehyuk Han, David Ackerman

Notes: During this team meeting Jaehyuk and David worked with the ESD stress board to

try and troubleshoot the existing issues.

Advisor Meeting (April 20th at 1PM in Coover 2046)

Duration: 30 Minutes

Members Present: Dr. Geiger, Sean Santella, Jaehyuk Han, Hayle Olson, David Ackerman Notes: During this advisor meeting Dr. Geiger assisted us with troubleshooting our electric fencer. It was during this meeting that we discovered our electric fence was not operating as we thought it was. Because of this Dr. Geiger provided us with a different one to use until the end of the semester.

Team Meeting (April 20th at 1:30PM in Coover 3014)

Duration: 1 Hour 30 Minutes

Members Present: Sean Santella, Jaehyuk Han, Hayle Olson, David Ackerman

Notes: During this team meeting we worked to stress a device with the new electric fencer that Dr. Geiger provided us. We also implemented 2 2watt resistors and 2 4kV

diodes to use when stressing our device.

Weekly Accomplishments:

- Wrote our Final Report.
- Recognized incorrect electric fencer.

Plans for Next Week:

- Find a stressing condition that will destroy 50% of our devices.
- Practice Final Presentation.

Pending Issues:

None

Individual Contributions:

Sean Santella: Attended a team meeting, an advisor meeting, and worked on final report.

Jaehyuk Han: Attended both team meetings, an advisor meeting, and tinkered with the ESD stress condition.

Hayle Olson: Attended a team meeting, an advisor meeting, wrote weekly report, and worked on final report.

David Ackerman: Attended both team meetings, an advisor meeting, tinkered with the ESD stress condition, and worked on final report.

Hourly Contributions:

Member:	Weekly Hours:	Semester Hours:	Yearly Hours:
Sean Santella	5.0	52.5	105.5
Jaehyuk Han	3.5	30.5	67.0
Hayle Olson	4.5	46.5	93.0
David Ackerman	9.5	48.5	90.5

Semester Total: 178.0 Hours Yearly Total: 356.0 Hours