

P11511 Meeting Minutes 12/6/10

- User Needs
 - Develop a fixture and method to test Fuser Bearings for failures
 - Use of the acoustic machine currently being used by manufacturing is preferred
 - Xerox does not currently understand what Characteristics are shown by failing bearings
 - Manufacture of bearings have a spec of $<.07$ g's in a "vibration test"
- Stake Holder Groups
 - Melissa and Erwin
 - Manufacturing
- Project Leader: Kevin
- Lead Engineer: Fitch
- Everyone Still needs edit privileges to edge project site

Proposal to Xerox:

- Path 1
 - Familiarize team with acoustic measurement system (ams) in manufacturing
 - Arrange meeting with manufacturing
 - Understand what data is available
 - How bearing failure is measured
 - Assuming everything goes well
 - Adapt ams to fit Fuser bearing
 - Sampler bearings with acoustic response
 - Try and find a correlation between the signal from ams to physical bearing life
- Path 2
 - Try and recreate vibration test done by bearing manufacturer

Both will be done in parallel until one is deemed a better solution.

Diagram what was said above in a flow chart when proposing to Xerox

Ask Melissa and Erwin for info and technical drawings on the ams

Dr. Boedo has done a lot of work with bearings in the past. We will ask Dr. Boedo if he would be willing to be our faculty consultant and we will ask permission from Erwin and Melissa beforehand if that is ok.