**System Design Review Follow-up Requirements**

Team 4 – Wheelchair Pressure Pad

The review was held 10/2/09. All team members and selected BE faculty members were present.

The following item must be explicitly addressed in the next design review briefing document that will be due just before or after the winter holiday break.

1. Consider finding or developing a model of the pressure sore development that addresses the effects of pressure on/pressure off cycling. Use this model to determine minimum sampling interval. Also consider selective data storage approaches (only save data when there are changes and/or possible problematic situations).
2. Determine temperature and time (use cycles) stability of FSRs.
3. Consider and address effects of soft backing on FSRs. Assure FSRs don’t create excessive pressure points.
4. Estimate amount of data (MB) that will need to be stored on SD and how long it will take to transfer this data to a computer for analysis.
5. Consider and address power requirements and battery life issues and specifications.
6. Assure pad overheating is not a problem for any reasonable system failure mode.
7. Consider and address pad life and hygiene issues.

Signatures (Indicating that students understand and will address issues raised and that all major faculty concerns are listed):

Andy Bowser Dr. C. Tritt

Team PM Class Chief Engineer