

Meeting Minutes –CDR  
March 12, 2008

Timing

- consider human reaction delay?

Requirements

- not evident that whole system meets requirements just because sub systems meet requirements
- need calculations from reliability, maintainability

Risk

- rail switching risk should be higher than rail power/rail sensor since it has not been tested yet and the other circuits have been tested

Cost

- shipping cost should be included
- purchase requests need to be approved and need to be on BOM
- need to monitor purchases
- order extra parts for maintainability requirement

Software

- top level diagram – builder decoder class is actually not in API
- “How to write an application” document
- need examples of using API
- demo mode – push go again after pushing stop the system should still continue
- maintenance mode – fix rail powering mistakes
- how to handle error in XML document

Networking

- test PIC to PIC communication with numerical values
- suggestion to use correctional code instead of CRC

Low Level

- need fans because voltage across regulator will be about 19V
- calculate time constants for sensor circuits
- rail switch circuit – base current drives BJT not voltage so pick a FET instead of a BJT
- need requirement analysis
- need power analysis over power and current
  - heat dissipation
  - current drawn

Schedule

- April 7 – boards soldered
- April 25 – pass ATP
- May 9 – clean up

- put maintainability and sustainability analysis in schedule

Miscellaneous

- be sure Digital Lab is clean Tuesdays 8-11

**Action Items**

- exception handling for XML error

- power analysis

Next Meeting: Friday, March 14, 2008 11am.