**Forecaster**

Current State

1. Finished re-writing code for database access.
2. Finished converting existing code to work within MS Visual Studio 2010.
3. Started work on new DB editor using up to date MS technologies particularly Windows7 UI features and enhanced editing capabilities using data grids.
4. Completed modeling the existing Microstation DLL. This will facilitate understanding and re-engineering the system to accommodate the upgrades.
5. Started re-writing the UI code in Microstation to use newer recommended MS technologies.

Future Work

1. Finish DB Schema.
2. Current simulation working from within Microstation (MS). (Will help with testing.)
3. Incorporate DB changes into simulation.
4. Continue new DB editor.
5. Continue new Microstation UI and functionality including changes to DB.
6. Integration of above features into a unified UI from within MS.

Paul’s Tasks:

Steps 1 and 2 are well along and will require about another 4 weeks or work. Estimated completion would March.

Step 3 is the bulk of the programming and will require approximately 6 months of work. Estimated completion would be September.

Shanti’s Tasks:

Steps 4 and 5 comprise the bulk of the work and will also require about 6 months of work. Since this is concurrent with steps 1 -3, estimated completion would be September.

Notes:

The estimates are based on full-time work on this project.

They also assume that there would be no major changes to the requirements along the way. Close consultation with the Engineers here at the plaza should mean that the DB schema should be finalized before 3 starts (we think we are pretty close now).

The intention is to also have feedback from the on-site engineers before step 3. This may involve changes to the DB and UI, the result being lengthening of the above estimates.

In addition the following work will need to be done after the above has been completed:

1. Review and update reporting options.
2. Rewrite of block quality estimator.
3. New system for creating sample DB tables from raw data. (Currently this is a combination of out-dated DB formats and DOS programs created when initial work started on the forecaster some 15 years ago!)

We would review the requirements to do these steps after finishing the principal work above. An initial estimate would be about an additional 4-6 months of work to be divided between Paul and Shanti.

A rough estimate of completion of the entire project would be early 2013.