Proposal: How to Coordinate re-Baselining SiD 4/7/08 JJ

I. Problem

We are refining what SiD looks like, with potentially new global parameters, more realistic engineering concepts, full specification for all detector subsystems, and a new Geant4 description. How do we manage the changes so we come up with a coherent design? Who's responsible for what? What's the process?

II. Needed Discussions at RAL

What level of detail do we need and can we produce for a new Geant4 description?

When must SiD's new Geant4 description be complete? (Revisit LOI Timetable)

III. Sub System Definition

Engineering Group communicates engineering constraints and Sim/Recon Group defines needed level of detail for G4 to subgroup.

Subgroup leaders responsible for coordinating subsystem design within subgroup.

Subgroup liaison communicates new design to engineering group, gets reaction, iterates as necessary.

Subsystem Technical Proposal. We schedule an open phone meeting to hear about the new design in detail, including subgroup plans and any open or contentious issues. Input from others is accepted.

SiD Exec facilitates resolution of outstanding issues and OKs it.

Engineering group serves as the repository for the details of the SiD subsystem design, and is responsible for any future change control.

Subgroup leaders responsible for generating G4 description of subsystem (xtml). Note that level of G4 detail may differ from level of engineering detail.

Sim/Recon Group leader responsible for assembling subgroup descriptions into working SiD description. Subgroups responsible for checking simulation is accurate.

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