

Thursday April 6, 2006 10am CDT
GG2 Controls Weekly Teleconference
Report on Requirements Gathering from POCs
Meeting Minutes

Attending:

Jim Patrick, Sharon Lackey, Margaret Votava, Patty McBride, Eric Gotschalk, Brian Chase – FNAL, John Carwardine, Claude Saunders, Frank Lenkszus, Ned Arnold – Argonne, Kay Rehlich – DESY, Janet Milton, Marc Ross – SLAC, Shinichiro Michizono – KEK

Area Systems Roll Call for Controls (LLRF comes next):

e- source	FNAL – no info or primary contact yet
e+ source	Jim Clarke – Daresbury Lab has undulator info SLAC ILC site has documents on e+, but not controls oriented Vinod from SLAC will gather non-undulator controls requirements Beamlines to be in linac tunnel (assumed for now) 10 MW beam dump will be hot with variety of special systems Approx. 200m of undulators with Q and BPM breaks
DR	no new info. Civil layout, cable lengths, magnet stringing to be Incorporated. Assume for now 5 service shafts.
RTML	Kay supplied WBS info with many components (web link available) No cable counts, data rates, or civil info incorporated yet
Main Linac	Kay supplied WBS info. Notes: generic rack space allocated by civil needs to be verified Motor controls for stub tuners under discussion 3 penetrations per RF unit, perhaps just 2.
BDS	requirements review telecon next week Thurs April 13 th , 10 am CDT Magnet movers and final focus cryo needs to be incorporated Cable power dissipation issue, with associated cooling and controls
Cryo	Tom Petersen – Jim Patrick reporting, Approx. 10 cryo plants, each the size of FNAL plant 2 or 3 other smaller cryo plants Currently spec commercial control system, requiring bridge to ILC Controls. Some question if we should spec ILC controls all the way. Estimated 100,000 monitoring/control channels, dominated by Thermocouples
Conv. Fac. Installation	No contact point no contact point

Area Systems Roll Call for LLRF

e-	nothing to report, no SLAC contact identified yet
e+	ditto
DR	Suzanna Guiducci has diagrams, but nothing to report No SLAC contact identified yet. Note: expected request for increase in RF voltage for DR
RTML	Kay included RTML LLRF info in WBS info
Main Linac	Kay included in WBS info Brian Chase – another block diagram iteration planned, including MPS Global regulation spec still up in the air 3 distinct RF distribution schemes currently – we need to pick one
BDS	no new update, no contact point One klystron for pair of crab cavities at each IP

General Comments at close:

We need to prepare info for April 18th Linac/RDR meeting.

April 20th telecom approaching to review Linac requirements with area system group.

We also need to keep eye on preparations for June 6 meeting where DCB will review costing exercise prior to Vancouver. Instrumentation and controls.