Design Register Status

Benno List
DESY –IPP–
AD&I Webex meeting 1.2.2012

Reminder: The Design Register

- Available at EDMS ID D*959505
- Overview over all beamlines to keep track of design status
- **Please check your system**

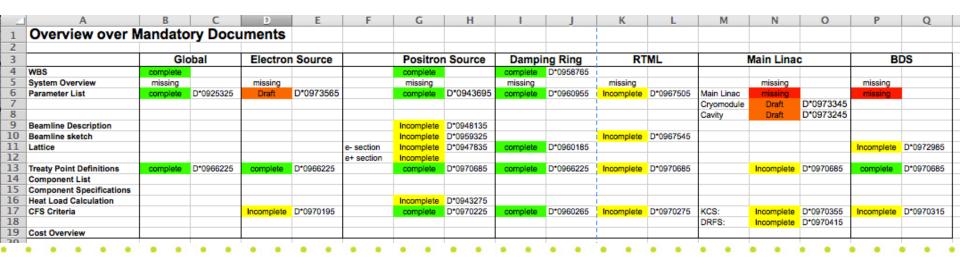|	ID	Description	System	Class	Prim/Sec	Beam	Length	Int. length	z Pos./End	CFS location	Rem.	Lat. Stat.	Lat. Ref
1	ID	Description	System	Class	Prim/Sec	Beam	Length	Int. length	z Pos./End	CFS location	Rem.	Lat. Stat.	Lat. Ref
2						E							
3		**Electron Beam Lines**				E							
4													
5	**ES**	**Electron Source Main Lines**	ES		PRIM	E						Incomplete	401
6	ESHB	**Electron subharmonic buncher**	ES	BEAMLINE	PRIM	E					22	No lattice	
7	ECHIC	Electron Source Chicane	ES	BEAMLINE	PRIM	E		0.0				Incomplete	401
8	EBSTR	Electron 5 GeV Booster	ES	BEAMLINE	PRIM	E		0.0			21	Incomplete	401
9	ESEMIT	Electron Source Emittance Measurement	ES	BEAMLINE	PRIM	E		0.0				Incomplete	401
10	ELTR	Electron Linac tunnel To damping Ring	ES	BEAMLINE	PRIM	E		0.0			20	No lattice	
11	**TES2DR**	**Treaty Point ES to DR**	ES	MARKER	PRIM	E			90			Complete	203
12													
13	**ES**	**Electron Source Extraction Lines**	ES		SEC	E						No lattice	
14	ESTUDX	**Electron Source Tuneup Dump Extraction**	ES	MARKER	SEC	E					23	No lattice	
15	ESTUDL	Electron Source Tuneup Dump Line	ES	BEAMLINE	SEC	E					23	No lattice	
16	ESTUDL	Electron Source Tuneup Dump	ES	DUMP	SEC	E					23	No lattice	
17													
18	**TES2DR**	**Treaty Point ES to DR**	DR	MARKER	PRIM	E			90			Complete	203
19	EDRINJ	Electron Damping Ring Injection line	DR	BEAMLINE	PRIM	E				D-1		Complete	201
20													
21	**DR**	**Electron DR Main Lines**	DR		PRIM	E						Complete	201
22	EARC1	Arc 1 (including dispersion suppressors)	DR	BEAMLINE	PRIM	E	912.0	912.0		D-1		Complete	201
23	EPHTL	Phase Trombone (long)	DR	BEAMLINE	PRIM	E	364.0	1276.0		D-1		Complete	201
24	EDRFRF	DR RF Section	DR	BEAMLINE	PRIM	E	117.0	1393.0		USC0		Complete	201
25	EWIG	Wiggler Section	DR	BEAMLINE	PRIM	E	230.0	1623.0		D+1		Complete	201

Purpose and Content

- Keep track of the status of the documentation of the whole accelerator design

- Includes footnotes with remarks about open issues that need resolution

- The Design Register is available only within EDMS; it is a working tool for the management (PMs) and the Accelerator Systems / Area Group Leaders (you!)

- The DR is updated as often as possible to reflect the current state of affairs. Please check it and act accordingly!

- Design Register lists EDMS numbers of many relevant design documents
  → useful source of information on where-to-find-what
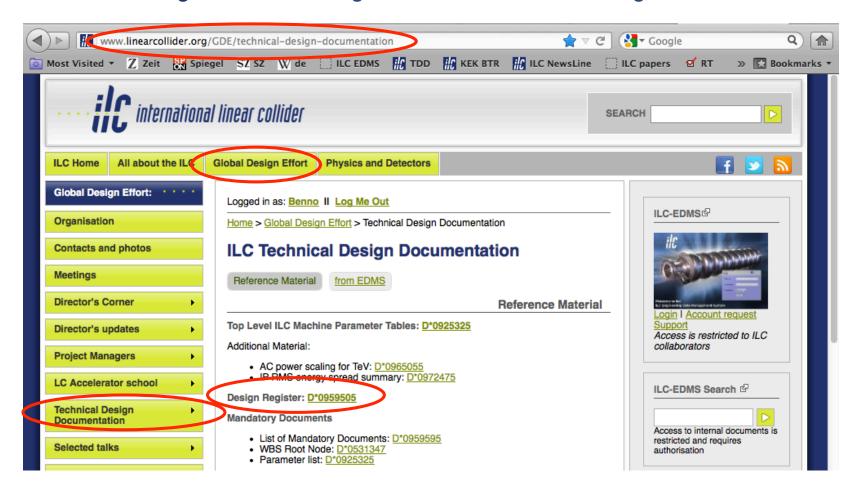
Mandatory Document Overview

- New: Page with overview over mandatory documents per accelerator system

- CFS and Cost rely on
  - **Parameter List**
  - **Lattice**
  - **Component lists and specifications**

- Concise overview over state of documentation

	Global		Electron Source			Positron Source		Damping Ring		RTML		Main Linac			BDS	
Overview over Mandatory Documents																
WBS	complete					complete		complete	D*0958765							
System Overview	missing		missing			missing		missing		missing			missing		missing	
Parameter List	complete	D*0925325	Draft	D*0973565		complete	D*0943695	complete	D*0960955	Incomplete	D*0967505	Main Linac	missing		missing	
												Cryomodule	Draft	D*0973345		
												Cavity	Draft	D*0973245		
Beamline Description						Incomplete	D*0948135									
Beamline sketch						Incomplete	D*0959325			Incomplete	D*0967545					
Lattice					e- section	Incomplete	D*0947835	complete	D*0960185						Incomplete	D*0972985
					e+ section	Incomplete										
Treaty Point Definitions	complete	D*0966225	complete	D*0966225		complete	D*0970685	complete	D*0966225	Incomplete	D*0970685		Incomplete	D*0970685	complete	D*0970685
Component List																
Component Specifications																
Heat Load Calculation						Incomplete	D*0943275									
CFS Criteria			Incomplete	D*0970195		complete	D*0970225	complete	D*0960265	Incomplete	D*0970275	KCS:	Incomplete	D*0970355	Incomplete	D*0970315
												DRFS:	Incomplete	D*0970415		
Cost Overview																

B. List: Design Register status

Access from the TDD Web Page

Linearcollider.org → Global Design Effort → Technical Design Documentation

Summary

- Design Register is a tool for
  - **Project Managers: See where the documentation stands**
  - **Accelerator System / Area Group Leaders:
    See where information is missing from your system**
  - **CFS and Cost responsibles:
    See how mature documentation is,
    find out which official documents are available**