

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**

A	B	C	D	E	F	G	H	I	J	K	L	M	N
ID	Description	System	Class	Prim/Sec	Beam	Length	Int. length	z Pos./End	CFS location	Rem.	Lat. Stat.	Lat. Ref	
Electron Beam Lines													
ES	Electron Source Main Lines	ES		PRIM	E							Incomplete	401
ESHB	Electron subharmonic buncher	ES	BEAMLINE	PRIM	E					22		No lattice	
ECHIC	Electron Source Chicane	ES	BEAMLINE	PRIM	E		0.0					Incomplete	401
EBSTR	Electron 5 GeV Booster	ES	BEAMLINE	PRIM	E		0.0			21		Incomplete	401
ESEMIT	Electron Source Emittance Measurement	ES	BEAMLINE	PRIM	E		0.0					Incomplete	401
ELTR	Electron Linac tunnel To damping Ring	ES	BEAMLINE	PRIM	E		0.0			20		No lattice	
TES2DR	Treaty Point ES to DR	ES	MARKER	PRIM	E				90			Complete	203
ES	Electron Source Extraction Lines	ES		SEC	E							No lattice	
ESTUDX	Electron Source Tuneup Dump Extraction	ES	MARKER	SEC	E					23		No lattice	
ESTUDL	Electron Source Tuneup Dump Line	ES	BEAMLINE	SEC	E					23		No lattice	
ESTUDL	Electron Source Tuneup Dump	ES	DUMP	SEC	E					23		No lattice	
TES2DR	Treaty Point ES to DR	DR	MARKER	PRIM	E				90			Complete	203
EDRINJ	Electron Damping Ring Injection line	DR	BEAMLINE	PRIM	E					D-1		Complete	201
DR	Electron DR Main Lines	DR		PRIM	E							Complete	201
EARC1	Arc 1 (including dispersion suppressors)	DR	BEAMLINE	PRIM	E	912.0	912.0			D-1		Complete	201
EPHTL	Phase Trombone (long)	DR	BEAMLINE	PRIM	E	364.0	1276.0			D-1		Complete	201
EDRFRF	DR RF Section	DR	BEAMLINE	PRIM	E	117.0	1393.0			USC0		Complete	201
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

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	Overview over Mandatory Documents																
2																	
3		Global		Electron Source			Positron Source		Damping Ring		RTML		Main Linac		BDS		
4	WBS	complete					complete		complete	D*0958765							
5	System Overview	missing		missing			missing		missing		missing			missing			missing
6	Parameter List	complete	D*0925325	Draft	D*0973565		complete	D*0943695	complete	D*0960955	Incomplete	D*0967505	Main Linac	missing			missing
7													Cryomodule	Draft	D*0973345		missing
8													Cavity	Draft	D*0973245		
9	Beamline Description						Incomplete	D*0948135									
10	Beamline sketch						Incomplete	D*0959325				Incomplete	D*0967545				
11	Lattice					e- section	Incomplete	D*0947835	complete	D*0960185							Incomplete
12						e+ section	Incomplete	D*0970685	complete	D*0966225	Incomplete	D*0970685		Incomplete	D*0970685	complete	D*0972985
13	Treaty Point Definitions	complete	D*0966225	complete	D*0966225		complete	D*0970685	complete	D*0966225	Incomplete	D*0970685		Incomplete	D*0970685	complete	D*0970685
14	Component List																
15	Component Specifications																
16	Heat Load Calculation						Incomplete	D*0943275									
17	CFS Criteria			Incomplete	D*0970195		complete	D*0970225	complete	D*0960265	Incomplete	D*0970275	KCS:	Incomplete	D*0970355	Incomplete	D*0970315
18													DRFS:	Incomplete	D*0970415		
19	Cost Overview																



Access from the TDD Web Page

Linearcollider.org → Global Design Effort → Technical Design Documentation

The screenshot shows a web browser at the URL www.linearcollider.org/GDE/technical-design-documentation. The page features a navigation menu with the following items: ILC Home, All about the ILC, **Global Design Effort**, and Physics and Detectors. A sidebar on the left contains a 'Global Design Effort' section with sub-items: Organisation, Contacts and photos, Meetings, Director's Corner, Director's updates, Project Managers, LC Accelerator school, **Technical Design Documentation**, and Selected talks. The main content area is titled 'ILC Technical Design Documentation' and includes a 'Reference Material' section with links to 'Top Level ILC Machine Parameter Tables: D*0925325' and 'Additional Material' containing links for 'AC power scaling for TeV: D*0965055' and 'IP RMS energy spread summary: D*0972475'. A 'Design Register: D*0959505' link is also present. A 'Mandatory Documents' section lists 'List of Mandatory Documents: D*0959595', 'WBS Root Node: D*0531347', and 'Parameter list: D*0925325'. On the right, there are sections for 'ILC-EDMS' and 'ILC-EDMS Search'.



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 responsables:
See how mature documentation is,
find out which official documents are available**