TDR All-Authors webex meeting: 13th April 2012

John Carwardine

Agenda

- KILC Joint parallel sessions
  - **Goal of sessions**
  - **Schedule for parallel sessions**
  - **Requested preparatory work (reminder)**
- Further guidance
  - **Technical Systems (quick summary of AD&I discussion)**
  - **Where to find RDR and IR figures and text (reminder)**
- Brief status reports from primary authors

TDR preparation schedule

- Due date for author submissions: April 2012
- Due date to EC: October 2012
  - **Very difficult to meet this date if the Editors haven't received all final author submissions by the end of May**
- Internal & external reviews: Nov 2012 – 1st Quarter 2013
- TDR publication: June 2013

KILC parallel sessions

- Overall goal is to develop a skeleton of the TDR content
  - **More than just an outline**

- Authors are asked to prepare for the joint sessions
  - **'Short-form' of the chapter text (if actual text isn't available)**
  - **Figures and tables to be included in the chapter**
    - Actual Figures/tables where final or draft versions already exist
    - Titles for any figures/tables that still need to be created
  - **For chapters in Part-I (R&D)**
    - A list of the key R&D program results and conclusions
  - **Identify any remaining unresolved issues or missing information that prevents completion of the write-up**
  - **Promise dates for final submissions**

Approach to Technical Systems for the TDR

RDR “Matrix”

		AREA SYSTEM					
		Electron Source	Positron Source	Damping Rings	Ring to Main Linac	Main Linac	Beam Delivery System
TECHNICAL SYSTEMS	Magnet systems						
	Vacuum						
	Instrumentation						
	RF Power						
	Cryomodules						
	Cavity Package						
	Dumps & Collimators						
	Accelerator Physics						
GLOBAL SYSTEM	Conv. Facilities & Site						
	Availability & Operations						
	Controls						
	Cryogenics						
	Installation						

RDR "Matrix"

RDR Chapter 2 Accelerator Description

		AREA SYSTEM					
		Electron Source	Positron Source	Damping Rings	Ring to Main Linac	Main Linac	Beam Delivery System
TECHNICAL SYSTEMS	Magnet systems						
	Vacuum						
	Instrumentation						
	RF Power						
	Cryomodules						
	Cavity Package						
	Dumps & Collimators						
	Accelerator Physics						
GLOBAL SYSTEM	Conv. Facilities & Site						
	Availability & Operations						
	Controls						
	Cryogenics						
	Installation						

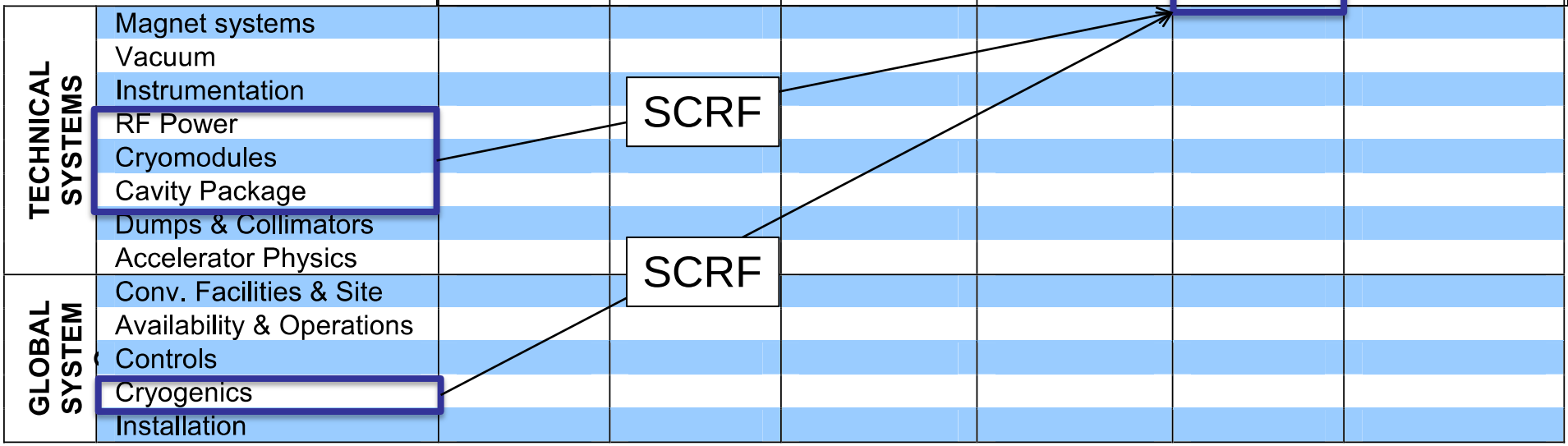
RDR "Matrix"

		AREA SYSTEM					
		Electron Source	Positron Source	Damping Rings	Ring to Main Linac	Main Linac	Beam Delivery System
TECHNICAL SYSTEMS	Magnet systems						
	Vacuum						
	Instrumentation						
	RF Power						
	Cryomodules						
	Cavity Package						
	Dumps & Collimators						
	Accelerator Physics						
GLOBAL SYSTEM	Conv. Facilities & Site						
	Availability & Operations						
	Controls						
	Cryogenics						
	Installation						

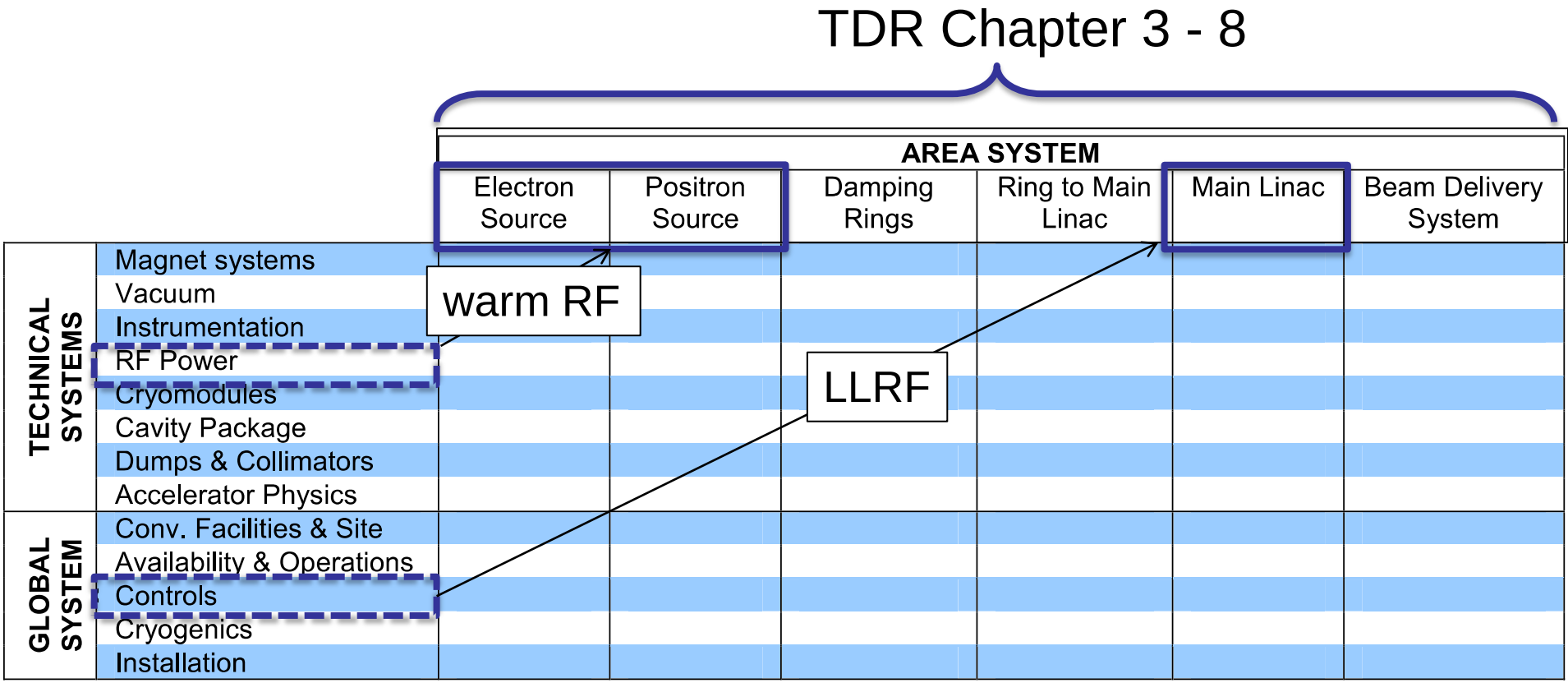
RDR Chapter 3 Technical Systems

TDR Approach

TDR Chapter 3 - 8



TDR Approach



TDR and remaining Tech/Global systems

		AREA SYSTEM					
		Electron Source	Positron Source	Damping Rings	Ring to Main Linac	Main Linac	Beam Delivery System
TECHNICAL SYSTEMS	Magnet systems						
	Vacuum						
	Instrumentation						
	RF Power						
	Cryomodules						
	Cavity Package						
	Dumps & Collimators						
	Accelerator Physics						
GLOBAL SYSTEM	Conv. Facilities & Site						
	Availability & Operations						
	Controls						
	Cryogenics						
	Installation						

How to deal with these in the TDR?

General approach

- Deal with them in AS chapters 3-8 as appropriate
- Assume unchanged from RDR (copy & paste)
- Review requirements! (I.e. read RDR)

Likely to be exceptions to these "rules"

Working guidance for chapter preparation
(discussion topic for the joint sessions at KILC)

- Magnet Systems
  - **Requirements and component counts go in the AS chapters**
  - **Provide additional details of any special devices, eg BDS final doublet**
  - **If needed, general descriptions of general design approaches, solutions, etc. will be covered in a separate chapter**
- Instrumentation
  - **Requirements and component counts go in the AS chapters**
  - **Provide additional details of any special devices**
  - **If needed, general descriptions of design approaches, solutions, etc. will be covered in a separate chapter**
- Vacuum
  - **Requirements and component counts go in the AS chapters**
  - **Solutions should also be included in the AS chapters**
- Dumps & collimators
  - **Requirements, type of dump, etc. go in the AS chapters**
  - **Provide specific details as required**
- Controls
  - **'Special case' – will be written up in a separate chapter (based on RDR material)**