

FAIR Project

Form and Status of Specifications

Content

Form and Status of the FAIR Project In Kind Contribution Contract and the Functional Specifications

- **Overview of the contractual and functional specifications framework**
- **Structure of the Contract**
- **Structure of the functional specifications**
- **Status of the "In-Kind Contract" and the Functional Specifications**

FAIR Project

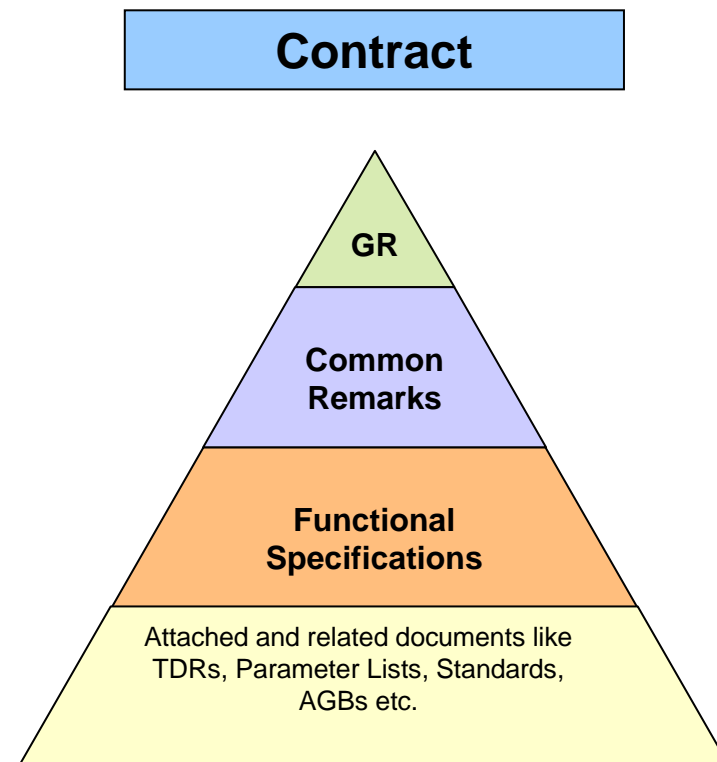
Form and Status of Specifications

Overview

A set of specifications describes the contractual framework, the functional requirements, the shipping and assembly definitions and the acceptance criteria.

The set of specifications is based on the FAIR Convention and the various ANNEX, especially ANNEX-5

- **Contract**
Contractual and legal conditions for each In-Kind Contribution
- **General Remarks (GR)**
Technical Specifications and requirements which are valid for all FAIR accelerators.
- **Common Remarks (CR)**
Technical Specifications and requirements which are valid for a Technical System (like Common Remarks for RF Systems, Common Remarks for Magnets, Normal Conducting)
- **Functional Specifications (EF)**
Detailed and individual specifications and requirements for each Accelerator
- **Attachements, related documents**



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Form and Status of Specifications

Contract Structure

[Introduction](#)

[Scope of the Deliverables](#)

[Provisions](#)

[European, German Laws](#)

[Schedule, Milestones, Terms of delivery](#)

[Compensation, Warranty](#)

[Technical acceptance and final acceptance](#)

[Cooperation and information](#)

[Inventions, patent rights, publications](#)

[Documentation](#)

[Assignment of claims, right of set-off and right of retention](#)

[Alterations and additions to the contract, partial invalidity](#)

[Place of fulfilment, place of jurisdiction, applicable law](#)

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The screenshot shows a contract form with the following elements:

- Logos:** FAIR logo on the left and GSI logo on the right.
- Title:** FAIR Contract In-Kind Contribution (highlighted in a yellow box).
- EDMS Document No:** FAIR-XXXX-CT-004 (highlighted in a yellow box).
- Date:** yyyy-mm-dd 2008-08-07 (highlighted in a yellow box).
- EDMS Project:** Document - tba - (highlighted in a black box).
- Abstract:** The document informs an In-Kind Contributor about the general contractual conditions or the delivery of a FAIR Accelerator Facility component or system.

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Form and Status of Specifications

Structure of General Remarks, Common Remarks and Detailed Functional Specification

[Introduction, Definitions](#)

[Scope of work and delivery](#)

[Provisions of the Contract & Contract Body](#)

[Contact Persons](#)

[Engineering Standards and Design Principles](#)

[Common Contractual and Legal Standards](#)

[Quality Assurance](#)

[Environmental Conditions, Interactions, Interfaces](#)

[Specifications and Performance of Equipment](#)

[Tests and Acceptance](#)

[Shipping, assembly and Consignment](#)

[Reporting and Change Management](#)

[Warranty](#)

The chapter "Specifications and Performance of Equipment" contains the detailed technical functional specifications.

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GSI

FAIR

FAIR General Remarks

EDMS Document No
FAIR-GMXX-CT-001

Date yyyy-mm-dd
2008-08-07

EDMS Project
Document – tba-

Abstract

The document describes the common, general functional specifications for all accelerator systems as well as the common Quality Assurance policy and general and the general Test Strategy and common tests.

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Form and Status of Specifications

Status of Specifications

The In-Kind Contribution Contract,
the General Remarks,
the Common Remarks for the various
Technical Systems and
the detailed Functional Specification for
the

CR
are in-work.

| List of FAIR Specifications | | | | | | | | | | Version 2.1 / 11. July 2008 | | |
|-----------------------------|----------------|-----------|----------|-----------|--------|---|---|---|---|-----------------------------|---|--|
| | | | | | | | | | | EDMS Name: FAIR-XXXX-EF-000 | | |
| EDMS Doku-Number | | | | | | | | | | Titel | | |
| Machine Code | Equipment Code | Separator | Doc Type | Separator | Number | | | | | | | |
| X | X | X | X | - | C | T | | 0 | 0 | 1 | Call for Tender | |
| X | X | X | X | - | C | T | | 0 | 0 | 3 | Contract | |
| X | X | G | R | - | E | F | | - | 0 | 0 | General Remarks | |
| X | X | M | G | N | - | E | F | - | 0 | 0 | Common Remarks on normal conductive Magnets (2.N.2-N) | |
| X | X | M | G | F | - | E | F | - | 0 | 0 | Common Remarks on superferriic Magnets (2.N.2-F) | |
| X | X | M | G | S | - | E | F | - | 0 | 0 | Common Remarks on super conductive Magnets (2.N.2-S) | |
| X | X | P | C | | - | E | F | - | 0 | 0 | Common Remarks on PCs (2.N.3) | |
| X | X | R | F | | - | E | F | - | 0 | 0 | Common Remarks on RF-Systems/Components (2.N.4) | |
| X | X | B | D | | - | E | F | - | 0 | 0 | Common Remarks on Beam Diagnostics (2.N.6) | |
| X | X | V | C | H | - | E | F | - | 0 | 0 | Common Remarks on Vacuum/High (2.N.7-H) | |
| X | X | V | C | U | - | E | F | - | 0 | 0 | Common Remarks on Vacuum/UHV (2.N.7-U) | |
| X | X | E | L | | - | E | F | - | 0 | 0 | Common Remarks on Electron Cooling (2.N.9) | |
| X | X | S | C | | - | E | F | - | 0 | 0 | Common Remarks on Stochastic Cooling (2.N.10) | |
| X | X | C | L | | - | E | F | - | 0 | 0 | Common Remarks on Local Cryogenics (2.N.12) | |
| X | X | C | O | | - | E | F | - | 0 | 0 | Common Remarks on Controls | |
| F | T | X | X | | - | E | F | - | 0 | 0 | Specifications for HEBT (2.3) | |
| S | F | X | X | | - | E | F | - | 0 | 0 | Specification for Super FRS (2.4) | |
| C | R | X | X | | - | E | F | - | 0 | 0 | Specification for CR (2.5) | |
| N | R | X | X | | - | E | F | - | 0 | 0 | Specification for NESR (2.6) | |
| P | L | X | X | | - | E | F | - | 0 | 0 | Specification for p-Linac (2.7) | |
| 1 | S | X | X | | - | E | F | - | 0 | 0 | Specification for SIS100 (2.8) | |
| P | T | X | X | | - | E | F | - | 0 | 0 | Specification for p-bar Target (2.9) | |
| R | R | X | X | | - | E | F | - | 0 | 0 | Specification for RESR (2.10) | |
| H | R | X | X | | - | E | F | - | 0 | 0 | Specification for HESR (2.11) | |
| 3 | S | X | X | | - | E | F | - | 0 | 0 | Specification for SIS300 (2.12) | |
| E | R | X | X | | - | E | F | - | 0 | 0 | Specification for ER (2.13) | |
| X | X | C | X | | - | E | F | - | 0 | 0 | Specifications for Cryogenic Units (2.14.8) | |
| C | O | X | X | | - | E | F | - | 0 | 0 | Specifications for Controls (2.14.10) | |
| R | S | X | X | | - | E | F | - | 0 | 0 | Specification for Radiation/Safety (2.14.15) | |