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Detailed Design Report

Raster scanning magnet system for ESS

DDR RSMS

Rev A

DF project no: 502446

Preparation/Review	Signature	Date
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Revision History Log:

Date:	Rev.:	Init:	Changes:
2016-12-23	A		Initial version

Reference Documents

- "Contract concerning the delivery of the raster scanning magnets for the ESS project", AU, 31/5/2016
- "Appendix 1: Technical Specification", AU, March 2016
- "Conceptual Design of Raster Scanning System", AU, 17/02/2015
- "Technical Description and Compliance Matrix", DF, 20/04/2016

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1. Introduction

This document list the delivered documents that are part of the detailed design of the Raster Scanning Magnet System.

2. Documents and files

2.1. Electronics

Document title	Description
502446 DDR-RSMS-PSU RevA	RSMS-PS Overall description
TP8800110290-Production test procedure - RSMS-PS	RSMS-PS Overall test procedure
502446 DDR-Regulation Module RevA	Regulation module description
502446 DDR-Control Crate RevA	Control crate description
502446 DDR-Output Converter RevA	Output converter description
8200093698.A	Schematics: Control Crate
8200093699.A	Schematics: Output Converter
8200093700.A	Schematics: Main Schematic

2.2. Girder and magnet

Document title	Description
502446 DDR RSM design RevA	Magnet and girder overall description
7103033532	Drawing: Magnet assembly on stand
7103033504	Drawing: Magnet assembly
7103033521	Drawing: Impregnated coil
7103033656	Drawing: Ceramic chamber B
7103033535	Drawing: Ceramic chamber A
502466-001 - Route diagram for magnet.A	Production documentation
502466-003 - Complete magnet test.A	Production documentation
502466-004 - Ferrites 7103033506.A	Production documentation
502466-005 - Ferrites 7103033505.A	Production documentation
502466-006 - Vacuum test.A	Production documentation
7103033532.stp	STEP file: Magnet assembly on stand
7103033504.stp	STEP file: Magnet assembly on stand