

All documents numbers start with a 9

9 _ _ _
| | |
| | | Document per chart
| | | Generation (i.e. PSS has 1,2&3, FEEPS has 1&2) **Use 0 when the document doesn't apply to any of these**

System

- 0- Non system Specific (group wide)
- 1- PSS
- 2- Reserved for PSS expansion
- 3- FEEPS
- 4- Reserved for FEEPS expansion
- 5- BLEPS
- 6- Reserved for BLEPS expansion
- 7- DIW
- 8- Reserved for future use
- 9- Reserved for future use

000-099 Requirements

000 – Statement of work

For x.1.4.1.4 – Design Statement of Work

For Beamlines – Installation Statement of Work

001-009 Reserved for Statement of Works for upgrade, revisions, add-ons, etc.

010 – Cost Estimate

011-019 Additional Cost Estimates

020 System Requirement Specifications

021 Hardware Requirement Specifications

022 Software Requirement Specifications

023 Users Requirement Specifications

024 PLC Software Coding Guidelines

030 System I/O List

031 1st subsystem's I/O List (Chain A)

032 2nd subsystem's I/O List (Chain B)

033 3rd subsystem's I/O List (Chain C)

040 System Fault List

041 1st subsystem's Fault List (Chain A)

042 2nd subsystem's Fault List (Chain B)

043 3rd subsystem's Fault List (Chain C)

050 System Interface Control Document

For 91x

051 PSS to ACIS ICD

052 PSS to FEEPS ICD

053 PSS to BLEPS ICD

054 PSS to FE Shutter ICD

055 PSS to Integral Shutter ICD

056 PSS to DIW ICD

057 PSS to Remote Shutter Interface ICD/HMI

058 PSS to User controls ICD/EPICS

For 93x

051 FEEPS to PSS ICD

052 FEEPS to BLEPS ICD

053 FEEPS to VAT controller ICD

054 FEEPS to MPS chassis ICD

For 95x

051 BLEPS to PSS ICD

052 BLEPS to FEEPS ICD

100-199 Design

100 – Functional Description

110 – Standard Beamline Configurations

120 – Software Design Specifications

121 – 1st subsystem's Software Design Specifications (Chain A)

122 – 2nd subsystem's Software Design Specifications (Chain B)

123 – 3rd subsystem's Software Design Specifications (Chain C)

124 – 4th subsystem's Software Design Specifications (HMI)

125 – Software Design Guideline

130 Software Source Code

131 1st subsystem's Software Source Code (Chain A)

132 2nd subsystem's Software Source Code (Chain B)

133 3rd subsystem's Software Source Code (Chain C)

134 4th subsystem's Software Source Code (HMI)

135 Software Source Code ESD-A pdf version

136 Software Source Code ESD-B pdf version

137 Software Source Code Chain-C pdf version

140 Code Review Walk Through

141 1st subsystem's Code Review Walk Through (Chain A)

142 2nd subsystem's Code Review Walk Through (Chain B)

143 3rd subsystem's Code Review Walk Through (Chain C)

144 4th subsystem's Code Review Walk Through (HMI)

150 Hardware Design Specifications

160 Software Version Control

170 – System Software Change Request (SCR)

171 – 1st subsystem's Software Change Request (Chain A)

172 – 2nd subsystem's Software Change Request (Chain B)

173 – 3rd subsystem's Software Change Request (Chain C)

174 – 4th subsystem's Software Change Request (HMI)

180- Commissioning Plan

181- Bill of Materials

182 – Beamline Readiness Checklist

200-299 Validations Procedures

200 – Initial System Test

210 – System I/O Validation

211 1st subsystem's I/O Validation (Chain A)

212 2nd subsystem's I/O Validation (Chain B)

213 3rd subsystem's I/O Validation (Chain C)

220 – Beamline Functional Validation/(Verification) Procedure

221 – 1st Subsystem's Functional Validation/Verification (Chain A Validation)

222 – 2nd Subsystem's Functional Validation/Verification (Chain B Validation)

223 – 3rd Subsystem's Functional Validation/Verification (C&C Verification)

229 – 30-ID Gen-3 PSS System Commissioning Plan

230 System Interface Validation

For 91x

231 PSS to ACIS Interface Validation

232 PSS to FEEPS Interface Validation

233 PSS to BLEPS Interface Validation

234 PSS to FE Shutter Interface Validation

235 PSS to Integral Shutter Interface Validation

236 PSS to DIW Interface Validation

237 PSS to Remote Shutter Interface Validation

238 PSS to User Controls Interface Validation

240 Chain C/HMI Functional Change Checkout Procedure

250 End-to-End Test

260 I/O Commissioning

261 1st subsystem's I/O Commissioning Chain A

262 2nd subsystem's I/O Commissioning Chain B

263 3rd subsystem's I/O Commissioning Chain C

264 Gen-1 PSS Acceptance Test

300-399 Test Procedures

300 Front End Shutter Acceptance Checkout Procedure for Generations 1 & 2 PSS

301 PSS- ACIS Trip Test

302 PSS-DIW Quick Test

303 PSS FE Shutter Simulator Test Procedure

400-499 Repair Procedures

400 One-for-One parts replacement

420 PSS Jumper Installation and Removal Procedure

430 Work Request Procedure and Forms
440 PSS Shutter Calibration

500-599 User Docs

User Manual
Floor Manager Training
User/Operator Training
Search and Secure Procedures
Administrative Control Procedures
Fault Resetting Procedure

600- Misc.

605 – Procedure for Securing Storage Ring Front End Shutters

Create W.B.S. 99 for Lab Beamline Simulator
98 for Lab Prototype System
97 for Test Cart System