



SPIRE Project Document

Ref: SPIRE-RAL-PRJ-001861

Issue: 1.0

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SPIRE Alignment Model Verification Matrix

B. Swinyard

| Requirement Name | Description | Test ID1 | Test ID2 | Procedure ID1 | Procedure ID2 | Test Report ID1 | Test Report ID2 | NCRs | Compliance |
|------------------|---|-----------|-----------|--|--|-----------------|-----------------|--|------------|
| IRD-STRC-R01 | Alignment of the instrument w.r.t. the FIRST optical axis | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 SPIRE-RAL-DOC-001578 | | | | | OK |
| IRD-STRC-R04 | Optics and associated sub-system alignment | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | LAM.QUA.SPI.NCR.030047_10 LAM.QUA.SPI.NCR.030048_10 | OK |
| IRD-STRP-R02 | Optics and filters alignment | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-STRP-R03 | Array module alignment | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-STRS-R02 | Optics alignment requirements | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-STRS-R03 | Array module alignment | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTP-R00 | Compatibility with Herschel telescope | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 SPIRE-RAL-DOC-001578 | | | | LAM.QUA.SPI.NCR.030045-1 | OK |
| IRD-OPTP-R02 | Variation in focal ratio | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTP-R03 | Distortion | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTP-R04 | Anamorphism | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTP-R05 | Throughput | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTP-R06 | Image quality | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTS-R02 | Variation in focal ratio | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTS-R03 | Distortion | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTS-R04 | Anamorphism | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTS-R05 | Theoretical throughput | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| IRD-OPTS-R06 | Image quality | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| VRD-06 | Optical design | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 SPIRE-RAL-DOC-001578 | | | | | OK |
| VRD-07 | Optical interface to FIRST system | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 SPIRE-RAL-DOC-001578 | | | | | OK |
| VRD-09 | Instrument optical performance | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 SPIRE-RAL-DOC-001578 | | | | | OK |
| VRD-10 | Integration and alignment | ILT_INTG | ILT_ALIGN | SPIRE-MSS-PRJ-001650 iss 3 | LAM.OPT.SPI.PRC-030023_1 SPIRE-RAL-DOC-001578 | Log Book | | | OK |
| VRD-11 | Sub-system optical interfaces | ILT_ALIGN | | LAM.OPT.SPI.PRC-030023_1 | | | | | OK |
| VRD-50 | Instrument to ground facility interfaces | ILT_ALIGN | | SPIRE-RAL-DOC-001578 | | | | | OK |