**Test Case ##**

Author Version

Project Date

|  |  |  |
| --- | --- | --- |
| **Name of the Test Case** | |  |
| **Narrative**  Incl. use case and test objectives. | |  |
| **Function(s) under Investigation** (*FuI*)  “the referenced specification of a function realized (operationalized) by the object under investigation” | |  |
| **Object under Investigation** (*OuI*)  "the component(s) (1..n) that are to be qualified by the test” | |  |
| **Domain under Investigation** (*DuI*)  “the relevant domains or sub-domains of test parameters and connectivity.” | |  |
| **Purpose of Investigation** *(PoI)*  The test purpose in terms of Characterization, Verification, or Validation | |  |
|  | | |
| **System under Test** (*SuT*):  Systems, subsystems, components included in the test case or test setup. | |  |
| **Functions under Test** (*FuT*)  Functions relevant to the operation of the system under test, including FuI and relevant interactions btw. OuI and SuT. | |  |
|  | | |
| **Test criteria** *(TCR)*  Formulation of criteria for each PoI based on properties of SuT; encompasses properties of test signals and output measures. | |  |
|  | **Target Metrics** *(TM)*  Measures required to quantify each identified test criteria |  |
| **Variability Attributes** *(VA)*  controllable or uncontrollable factors and the required variability; ref. to PoI. |  |
| **Quality Attributes** *(QA)*  threshold levels for test result quality as well as pass/fail criteria. |  |

**Qualification Strategy**

*<Insert here a free text description of the Qualification Strategy: how are the PoI to be met by the different tests and how will the test results be combined to yield the desired PoI outcomes (see guideline on qualification strategy)>*

**Test Specification ##.##**

|  |  |
| --- | --- |
| **Reference to Test Case** |  |
| **Title of Test** |  |
| **Test Rationale** |  |
| **Specific Test System** (graphical) |  |
| **Target measures** |  |
| **Input and output parameters** |  |
| **Test Design** |  |
| **Initial system state** |  |
| **Evolution of system state and test signals** |  |
| **Other parameters** |  |
| **Temporal resolution** |  |
| **Source of uncertainty** |  |
| **Suspension criteria / Stopping criteria** |  |

**Mapping to Research Infrastructure**

*<Insert here a free text description of how the Test Specifications are mapped to experimental facilities / research infrastructure: how is it planned to distribute (map) and execute the specified test system in a given research infrastructure (free text); this section can be used to list the intended Experiment specifications.>*

**Experiment Specification ##.##.##**

|  |  |
| --- | --- |
| **Reference to Test Specification** |  |
| **Title of Experiment** |  |
| **Research Infrastructure** |  |
| **Experiment Realisation** |  |
| **Experiment Setup** (concrete lab equipment) |  |
| **Experimental Design and  Justification** |  |
| **Precision of equipment and measurement uncertainty** |  |
| **Storage of experiment data** |  |