

IEEE P2800.2 Subgroup 2: Type Tests

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Scope of Subgroup 2 – Develop type test methods that determine an IBR unit’s ability to comply with performance requirements outlined in IEEE 2800-2022 Table 20, Verification Methods Matrix.

Subgroup 2 meeting day and times: TBD – biweekly

Subgroup decisions for Type Test Clause:

- What other standards exists that may be applicable – start a list
- If different methods or criteria are needed for different technologies
- Outline of the type test clause (such as shown below)
 - Type test is described in IEEE 2800-2022 clause 12.2.2
- Identification and specification of the quantities to be measured for characterizing the performance of the IBR unit
- Measurement procedures for quantifying the performance
- Criteria for assessing compliance

Type test clause layout:

- All type tests will be in one clause (with various subclauses)
- Each of the different requirements in Table 20 that have a “R” under “Type Test” should use the following template and headings (using IEEE 1547.1-2020 as a guide):
 - Purpose – explain why test is being performed and ties back to base standard requirement
 - General – if needed to explain other general conditions of test set up
 - Procedures – steps to perform test and record results
 - Requirements - may add additional details or condition of performing the test (team to discuss if this heading is necessary since IEEE 1547.1-2020 was not consistent)
 - Criteria - Pass/fail
 - Comment – additional clarification (optional)
- Some type tests may be designed to inform IBR Design Evaluation (Subgroup 3). These tests may or may not have pass-fail criteria.

Other considerations:

- Type test methods may be different from any design evaluation or commissioning test
- Written using “should” and not “shall”
- Need to consider all IBR types. May consider offering different optional test procedures.

- When multiple procedures are offered, perhaps let users decide which procedure to apply rather than restricting certain procedures to certain IBR types. (E.g. a 5 MW PV inverter may prefer to use the WTG type test procedure rather than one that smaller inverters use.)
- Each type test proposal by the subgroup can be reviewed during WG meeting
 - It may be good for type test subgroup to understand how type test data may be useful for other subgroups.