



# IECRE ADMINISTRATIVE DOCUMENT

**IEC System for Certification to Standards Relating to Equipment for Use in Renewable Energy Applications (IECRE System)**

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**ME Certification Scheme: Assessment Checklist for Electricity producing tidal energy converters – Power performance assessment**



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67 000 electrotechnical terminology entries in English and French extracted from the Terms and Definitions clause of IEC publications issued since 2002. Some entries have been collected from earlier publications of IEC TC 37, 77, 86 and CISPR.

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## **Summary**

The purpose of this Administrative Document is to establish a common approach amongst all IECRE Test Laboratories (RETLs) operating within the IECRE System, Marine Energy Sector, regarding the competence area "IEC/TS 62600-200: Electricity producing tidal energy converters - Power performance assessment" via the following:

- Assessment Checklist for the peer assessment of RETLs for the power performance assessment of electricity producing tidal energy converters.

**Table 1: Checklist to be covered during RETL Assessment**

The following is a non-exclusive list of the checklist for the assessment of test reporting to be used by the peer assessors, once peer assessment begins:

|    |                     |  |
|----|---------------------|--|
| 1  | General Information | Is general information on the project, developer, device and abbreviations included?   |
| 2  | Device Information  | Are the TEC device details included?<br>i. Device status definition<br>ii. Operations manual information<br>iii. Location<br>iv. Mode of operation<br>v. Device parameters   |
| 3  | Test Design         | Is the test design adequately described?<br>i. Test site(s) –physical details and dimensions in relation to the TEC, details of maps, surveys etc;<br>ii. Resource analysis including ADCP deployment procedure, model details, tidal components modelled<br>iii. Test duration<br>iv. Test method and validation, whether AEP or similar is required, deviations from TS<br>v. Test Equipment for measuring resource and electrical output, other data collection required, sampling rates<br>vi. Standard Methods used<br>vii. Instrument calibration certificates<br>viii. Test documentation location<br>ix. Test Staffing and authorisations<br>x. Health & Safety requirements |
| 4. | Test Schedule       | Is the test schedule included and does it detail:<br>i. Site characterization<br>ii. Measuring instrument details<br>iii. Dummy deployment<br>iv. Test programme to include device availability, detail of any grid failures, record of data interruptions<br>v. Test lab./client communications log<br>vi. Operations manual  |
| 5. | Data Management     | Is the analysis method and data management adequately documented on:<br>i. Analytical methods<br>ii. Performance requirements<br>iii. Data management including storage, manipulation and control<br>iv. Software list   |
| 6. | Quality Control     | Have appropriate Quality Control measures been employed and reported?<br>Including on:<br>i. Observation of data collection<br>ii. Manipulation<br>iii. Reporting  |
| 7. | Quality Assurance   | What internal auditing has been carried out on the<br>i. Test Plan<br>ii. Analysis and measurements<br>iii. Test system control<br>iv. Data integrity check<br>v. Test Report  |
| 8. | Test Report         | i. Based on IEC template or with appropriate coverage<br>ii. Deviations with estimates of impact on results<br>iii. Authorisation of report including use of any accreditation logo.<br>iv. Construction of the uncertainty budget to give a clear picture of the accurate performance   |

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