

## Synergrid C10/26 homologation procedure for power generating units (info update published on 29/04/2020)

A new edition 2.1 of the Synergrid prescription C10/11 “*Specific technical prescriptions regarding power-generating plants operating in parallel to the distribution network*” was published on 01/09/2019, and took effect on 01.11.2019. The C10/26-homologation procedure, based on this technical prescription has therefore also been updated. Reminder: all generating units must be homologated by Synergrid for the list C10/26 before starting a commissioning procedure – see also chapter 5 of C10/11 ed2.1.

### Contents of the homologation procedure

The current homologation procedure is more extensive than the previous version: it is based on the **complete annex D of the new C10/11 prescription ed2.1 (2019)**, allowing a more centralised Belgian conformity check and limiting the individual conformity checks for each equipment upon installation.

### Terms & deadlines

The C10/26-homologation is free of charge.

The previous C10/26-list (based on the C10/11 edition of June 2012) has expired and has been removed from the website. Only units homologated following the current C10/26-procedure (based on the C10/11 edition 2.1 of September 2019) can be installed in Belgium.

For some requirements and proof of compliance documents, the C10/11 prescription ed2.1 allowed an additional delay: see details in chapter 3 of the C10/11 prescription. As a consequence, most C10/26-homologations followed a 2-step procedure:

1. A **temporary homologation**, based on the manufacturer’s declaration of compliance. The transition period for temporary homologation requests has ended: only requests for final homologations can be treated.
2. A **final homologation**, based on the additional introduction of the necessary proofs of compliance. The deadline for a temporary homologation to be confirmed into a final homologation is **01/09/2020**. (For new requests for a final homologation without a prior temporary homologation, there is no deadline.)

### **Covid-19: deadline for final homologation C10/26 postponed from 01/05/2020 to 01/09/2020**

The current Synergrid list C10/26 contains mainly temporary homologations for power generating units compliant with the Synergrid technical prescription C10/11 ed 2.1 (09/2019). To obtain a final homologation, a manufacturer must introduce the required proofs of conformity (certificates and/or test reports) necessary to prove the declared characteristics and obtain a final homologation.

The deadline to provide these proofs of conformity was 01/05/2020. However, due to the Covid-19 crisis, Synergrid was informed that the planning for testing their generation units in certified laboratories was impacted for many manufacturers. Synergrid decided to take this exceptional situation into account and to postpone by 4 months the initial deadline for introduction of the proofs of conformity for the final homologation. Manufacturers must send the proofs of conformity to Synergrid before **01/09/2020**.

On 01/09/2020, Synergrid will withdraw the temporary homologations of all units for which the necessary proofs of conformity have not been received. In the meantime, the temporary homologations remain valid, and the Synergrid declarations for temporary homologation available in the list C10/26 remain valid to prove conformity to the Belgian Grid Operators. Of course, if a final homologation is obtained before 1/09/2020, Synergrid will publish it as soon as granted by updating the list C10/26 and the Synergrid declarations on their website.

## Documents

The C10/26-homologation procedure is based on **one single C10/26-model document**, containing 4 separate sheets:

1. Declaration of conformity
2. List of power generating units
3. Checklist annex D (technical file)
4. Proof of conformity documents

**A detailed description on how to complete each sheet is available at the bottom of that sheet.**

This document is only available in English.

In case of a positive homologation, only the first 2 sheets (declaration of conformity + list of units) will be signed and dated by Synergrid, and published on the website of Synergrid, through a link in the list C10/26. The sheet “3. checklist annex D” and corresponding conformity proof documents stay **confidential** within Synergrid for the purpose of the homologation.

## New units: How to introduce a request for homologation

To **introduce a request for homologation**, these steps must be followed:

1. Fill in all the required information in all sheets of the C10/26-model document, and gather all necessary proof of compliance documents (referenced in sheet 4).
2. Send the following files to [CE10@synergrid.be](mailto:CE10@synergrid.be) with at least “homologation C10/26” in the subject:
  - a. The duly filled-in C10/26-document in Excel-format, and a copy in pdf for archive purposes.
  - b. The proof of compliance documents, corresponding to the reference list in sheet 4 of the C10/26-homologation document.  
**NOTE:** For emails > 8 MB, please use WeTransfer or a similar method for transferring large files
  - c. If an electronic signature is not possible/available, join also an undersigned and dated pdf-scan of sheet 1 (declaration of conformity) and 2 (list of production units) for publishing purposes.
  - d. One homologation request can contain several product series (see sheet 2 – list of production units), but for each product series (group of units with similar characteristics), a separate technical file consisting of sheet 3 and the corresponding proof of conformity documents must be introduced. This can be done within the same file by creating as many copies of sheet 3 as there are product series.

*Example: A (grouped) homologation request for 3 product series will need a C10/26-homologation document with at least 6 pages:*

- 1 page with the conformity declaration for all series
- 1 page with the list of all units of all series
- 3 pages with on each separate page a checklist D for a series
- 1 page with the lists of proof of conformity documents for all product series.

Units with a temporary homologation: how to introduce a request for final homologation - see next page

Units with a temporary homologation: how to introduce a request for final homologation

1. Re-use the last edition of the Excel file received from Synergrid upon confirming the temporary homologation.
2. Sheet 1 and sheet 2 can remain unchanged.
3. In sheet 4, fill in the references of all the necessary proofs of conformity.
  - a. Use one single line for each certificate or test report + give a reference number in column B. For example:

No.	Manufacturer-references of the proofs of conformity according to the references given in <u>column L</u> of the checklist annex D	Description	Evaluation Synergrid
1	Certificate_xx_yy_zzz	Certificate based on EN50549-1 for series xxx.	
2	Test_report_nr_xyz_series_name_date	Test report based on VDE AR4105 ed 2018-11 for series yyy	

- b. Add the reference number at the beginning of each filename
4. In sheet 3, complete column L (“*manufacturer’s reference of proof of conformity*”) with the correct reference of the proof listed in sheet 4, completed with the adequate paragraph if applicable (test reports). This is necessary for at least all requirements mentioning “certificate / test report” in column J (“*required proof of conformity*”). For example:

Reference in annex D of C10/11 ed2.1 dated 01.09.2019	Characteristic	Requirement - black = mandatory - blue = additional information needed in column M	Reference NC RfG	Applicable on what units?			Required proof of conformity	C10/11 Compliant ? completion is considered to be a declaration of honour by manufacturer	Manufacturer’s reference of proof of conformity available in the technical file: see list of proofs of conformity (sheet 4)	Additional information to be filled in by the manufacturer where required (see blue italics) or preferred
				General units other than backup power systems (“emergency groups”) according to C10/11 definition §2.2.1	emergency groups C10/11 §2.2.1	Specific type B (RfG)				
<b>D.3</b>	<b>Integrated automatic separation system (power ≤ 30 kVA)</b>									
	Protection functions	Function	Trip setting: settings according to annex C, §C.1 of C10/11							
		Overvoltage 10 min mean	230 V • 10% no delay *	units ≤ 30k.VA with internal automatic separation system	yes		certificate / test report	compliant	proof ref 1, §x.g	
		Overvoltage	230 V • 15% no delay *	units ≤ 30k.VA with internal automatic separation system	yes		certificate / test report	compliant	proof ref 1, §x.g	
		Undervoltage	230 V • 20% no delay *	units ≤ 30k.VA with internal automatic separation system	yes		certificate / test report	compliant	proof ref 1, §x.g	
		Overfrequency	51,5 Hz no delay *	units ≤ 30k.VA with internal automatic separation system	yes		certificate / test report	compliant	proof ref 1, §x.g	
		Underfrequency	47,5 Hz no delay *	units ≤ 30k.VA with internal automatic separation system	yes		certificate / test report	compliant	proof ref 1, §x.g	

5. Send the completed Excel file, together with all the proofs of conformity listed in sheet 4, to [CE10@synergrid.be](mailto:CE10@synergrid.be) before 01/09/2020. Please use WeTransfer or similar if the size of all documents exceeds 8 MB.