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**Tutorial document to explain and support the proposal made to the JRC
by the CEMEP for the new version of the European UPS CoC**

Objectives:

23 September 2010

Over the last few months and after the meeting at the JRC in Ispra last March, the Cemep contributing members met to discuss an alternative proposal to the new CoC version as drafted by the JRC with the help of their Swiss consultant Schnyder.

The Cemep proposal does not reach the expectations of the JRC in terms of value for now and probably for the future.

With the goal to document and support their proposal and also to anticipate on future requirements with more than likely higher expectations, the Cemep proposes to design a tutorial document that will be sent to the JRC with copy to Schnyder.

Scope / Structure:

The static UPS industry has been working for a long time on improving Energy Efficiency. The static UPS design is governed by the IEC standards IEC 62040. These standards are broadly adopted in our industry including in the EPA Energy Star project currently under discussion.

Rotary UPSs are neither in these standards scope nor they are in the frame of the Cemep works.

UPS designs are made of different topologies and Energy Efficiency cannot be addressed without referring to availability, to topologies and to the standards governing our business. Data availability has a price and we know that, at this stage, our customers do not want to compromise when it comes to decide upon Energy Efficiency vs reliability. It could be that legislation governs this in the future but it's not the case now and it will not be in the near future.

Furthermore and because of their design, single phase UPSs have different levels of efficiency than 3 phase UPSs.

All of this has to be clearly and simply explain in order to avoid trends towards higher expectations.

The document shall cover the following topics:

- What has been done so far by the UPS industry
- Topologies and availability
- Full load vs half and no load
- 3 phase vs single phase
- Self contained vs outside transformers / auto transformers
- Expectations for the future
- Anticipation on sustainable environment (Eco-design, disposal, recycling)

Most of these topics are already addressed in various document such as the Cemep guide or the IEC standards.

The CEMEP works around this tutorial document will mostly consist in extracting and gathering the data in a few pages document.

Process:

Contributions of the different Cemep members will be requested.

Urgency is of the essence since the Cemep do not want other stakeholders to take the lead on their behalf on these matters.

Proposal is to organize the works through conf calls with possibly a visit to the JRC / Schnyder when it comes to submit the document.

Schedule:

- Submittal of this proposal to the Cemep members
When: Sept 30th, 2010 Who: Gimelec
- Feed-back from the Cemep members with names of contributing members
When: Oct 8th, 2010 Who: Cemep members
- Working group conf calls:
When: Oct 12th 2010 (kick-off), Oct 21st 2010, Oct 28th 2010
Who: Contributing members
- Final draft to be submitted to the Cemep members
When: Nov 5th, 2010
- Document to be sent to JRC / Schnyder
When: Nov 12th, 2010