CDM: Form for Submissions on Small Scale Methodologies and Procedures (version 03)

(To be used for presenting questions/proposals/amendments related to the simplified methodologies for small-scale CDM project activity categories)

Name:	Name of the Authors: Flavia Rocha Santos Institution: MGM Innova on behalf of PPG Industries
Affiliation[1]:	☐DNA ☐DOE ☒PP ☐Stakeholder
Title/Subject (max. 200 characters):	Applicability of AMS-II.D for project involving changes in raw material and production process in an Automotive Painting Plant.
Purpose of the submission:	☒ Query on an approved SSC methodology or small scale procedures[2] (Fill in field 1. below) ☐ Request for Revision of an approved SSC methodology (Fill in fields 2. and 3. below) ☐ Proposal for a new SSC methodology (Fill in fields 4. and 5. below)
Approved SSC methodologies[2] to which your submission relates to, if applicable.	AMS-II.D – version 12
Contact Information (e-mail addresses to which the answers are to be delivered and phone contacts for possible dialogue on the submission).	Flávia Rocha Santos fsantos@mgminnova.com +55 11 23853590

Information for completing the form

Describe the questions related to the SSC Methodologies, Modalities and Procedures below. If the questions are related to a project under development or implementation, you may describe the context in which they arose.

Query on an approved SSC methodology or SSC procedures

1. If you have questions relating to the application of an approved small-scale methodology (AMS) please specify and provide reference to the exact technology/measure below. If you have questions related to procedures for SSC project activities please clarify below:

PPG's new paint (B1:B2) enables the use of a compact painting process, which compared to the traditional painting process, eliminates the prime booth, the prime oven, the prime strip out, and the prime sand. The elimination of these steps results in reduced natural gas combustion and reduced electricity consumption and therefore reduced greenhouse gas emissions.

Baseline Scenario (traditional process):

The traditional automotive paint process (hereinafter referred to as the baseline scenario), begins with the application of pretreatment and electrocoat followed by a primer layer. After the primer layer is cured, a topcoat layer of basecoat and clearcoat is applied and cured. The result is a five-layer lustrous and durable paint finish.

[1] Designated National Authority (DNA); Designated Operational Entity (DOE); Project Participant (PP), and Stakeholder.

[2] The list of all approved small-scale methodologies (AMS) can be found at http://cdm.unfccc.int and go to CDM: small scale CDM methodologies.

This process is the industry norm, whether the topcoat chemistry is based on water, solvent, or powder.

Project Scenario:

Driven by a general concern for cleaner production and a specific desire to reduce material, energy and time in the painting process, the proposed project activity involves the introduction of a new technology for the automotive paint process, namely PPG's B1:B2 Compact Paint System. The use of such technology eliminates the need for primer by enhancing the properties of the two layers of basecoat that are used. In this system, the B1 layer provides primer, filling, anti-chip, and durability benefits. The B2 layer provides color and additional durability. Both the B1 and B2 layers are applied wet-on-wet without a heated flash-off zone in between.

In conclusion, the compact painting process eliminates steps associated with the priming phase, including the application of primer, and the subsequent baking, cooling, and sanding, offering energy consumption optimization compared to the baseline scenario. Consequently, some equipment used in the conventional painting process will be removed and proof that they will not be used elsewhere will be presented. In our understanding this is equivalent to replacing old equipment by new ones that have zero energy consumption.

The following figures show the difference between the baseline scenario and the proposed project.

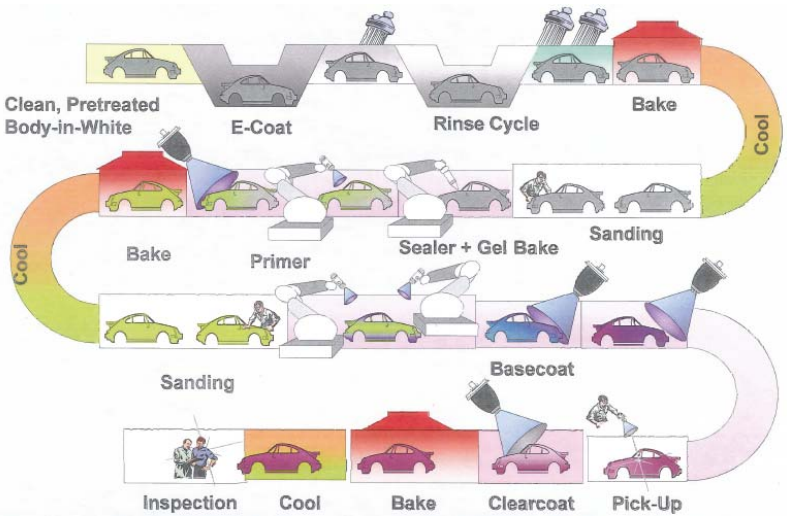

Figure 1: Current Automotive Painting Process - Baseline Scenario

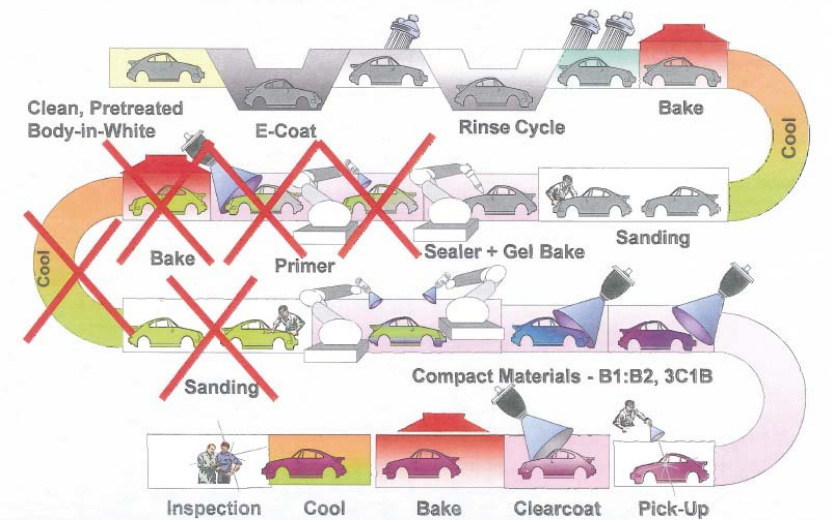

Figure 2: Compact Painting Process – Project Activity

PPG intends to implement the compact painting process on Greenfield sites as well as in existing facilities. For the case of existing facilities, the compact painting process can result in lower emissions for the same throughput or lower emissions intensity when the vehicle volume is increased but the energy consumption is held constant.

PPG calculated emission reductions based on energy savings due to the use of compact painting process, taking into account savings from electricity and natural gas as described above and would like to seek clarification on the following points:

- Is AMS II.D fully applicable to the project where savings occurs due to elimination of energy consuming steps in the painting process as described above? In this case, we understand that elimination of operating equipment is the same as replacing it by an infinitely more efficient one.
- Regarding the calculation of baseline emissions in the case of new facilities (Greenfield projects), we anticipate using a traditional painting process of the same painting capacity as the baseline scenario. We seek confirmation that this will be acceptable.

Request for revision of an approved SSC methodology
2. If you are proposing an amendment/revision to an approved small-scale methodology (AMS), please provide justifications below:
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3. If you are proposing an amendment/revision to an approved small-scale methodology (AMS) please provide the draft methodology with changes highlighted.
The following documents have been attached to this form: ❑ Draft methodology with changes highlighted in Word and PDF formats ❑ PDD in PDF format (optional) ❑ Additional information (please specify if you are providing any information note, published paper or a report in support of the request for revision of the SSC methodology)

Proposal for a new SSC methodology	
4. If you are proposing a new small scale methodology, please provide justifications below:	
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5. For submitting a new small scale methodology a filled in form "CDM: form for proposed new small scale methodologies (F-CDM-SSC-NM)" is required.	
The following documents have been attached to this form: ❑ Completely filled in form "CDM: form for proposed new small scale methodologies (F-CDM-SSC-NM)" in Word and PDF formats[3] ❑ A draft PDD (with sections A to C completed): ○ Relevant annexes to the PDD are provided ❑ Additional information (please specify if you are providing any information note, published paper or a report in support of the new SSC methodology)	
Date you are delivering the contribution:	November 16th 2010.
Information to be completed by the secretariat	
SSC-Submission number	

[3] The current version of the form (F-CDM-SSC-NM) is available on the UNFCCC CDM website (http://cdm.unfccc.int).