




## Validation report form for post-registration changes for CDM programme of activities

(version 01.0)

*Complete this form in accordance with the "Attachment: Instructions for filling out the validation report form for post-registration changes for CDM programme of activities" at the end of this form.*

### VALIDATION REPORT ON POST-REGISTRATION CHANGES (PRCs)

<b>Title and reference number of the programme of activities (PoA)</b>	Gigawatt Global Programme of Activities (Id. 10202)
<b>Process track</b>	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
<b>Version number of the validation report on PoA PRCs</b>	03
<b>Completion date of the validation report on PoA PRCs</b>	15/11/2017
<b>Version number of PoA-DD and/or CPA-DD applicable to this validation report</b>	07
<b>Type(s) of PoA PRCs</b>	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline <input checked="" type="checkbox"/> Corrections <input checked="" type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan to a registered PoA <input checked="" type="checkbox"/> Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline <input type="checkbox"/> Types of changes specific to afforestation and reforestation activities <input type="checkbox"/> Changes to the programme design of a registered PoA <input type="checkbox"/> Changes to project design of generic component project activities or specific-case component project activities
<b>Coordinating/managing entity (CME)</b>	Gigawatt Global Coöperatief U.A.
<b>Host Party(ies)</b>	Rwanda
<b>Sectoral scope(s)</b>	Scope 1: Energy industries (renewable- / non-renewable sources)
<b>Selected methodology(ies)</b>	Methodologies: ACM0002 Grid-connected electricity generation from renewable sources (version 16.0) and AMS-I.D Grid connected renewable electricity generation (version 18.0).
<b>Selected standardized baseline(s), where</b>	Not applicable

<b>applicable</b>	
<b>Name of DOE</b>	AENOR INTERNACIONAL SAU
<b>Name, position and signature of the approver of the validation report on PoA PRCs</b>	 José Magro González Authorized person

**SECTION A. Executive summary**

AENOR INTERNACIONAL S.A.U., hereinafter AENOR, has performed the first verification of the PoA “Gigawatt Global Programme of Activities” (hereafter referred to as “the PoA”) located in Rwanda (registered by the UNFCCC with reference No. 10202) with regard to the relevant requirements for CDM PoA. The objectives of the verification are to verify and certify emission reductions reported for this PoA for the monitoring period of 23/10/2015 - 28/02/2017 (first and last day included); and to verify that the data reported are complete and transparent. Nevertheless, during the verification, the coordinating entity identified and notified to the DOE several changes to be made in the CPA-DD. This report summarizes the assessment of these changes performed on the basis of UNFCCC criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting. The conclusion is that the permanent changes proposed comply with the requirements in the “CDM project standard for programme of activities”.

It is important to note that, AENOR is using CDM-PoA-VPRCV-FORM version 01.0, because a new version of that form, applying the requirements of the CDM Validation and Verification Standard for Programmes of activities” version 01.0 (VVS) has not been published on the UNFCCC website at the time of submission of this validation report. AENOR is applying the requirements of the CDM Validation and Verification Standard for programmes of activities version 01.0 (VVS), nevertheless, note that the section of “Correction” is considered as permanent change in the VVS version 01.

**SECTION B. Validation team, technical reviewer and approver**

The list of involved personnel and the qualification status are summarised in the table below:

**B.1. Validation team member**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Validation findings
1.	Team leader and validator	IR	García Madero	Mercedes	AENOR	Yes	Yes	Yes	Yes
2.	Validator	IR	Medrano Gutierrez	Alfonso	AENOR	Yes	No	No	Yes

**B.2. Technical reviewer and approver of the validation report on PoA PRCs**

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	IR	Llorente Pérez	Elena	AENOR
2.	Approver	IR	Magro González	José	AENOR

## SECTION C. Means of validation

### C.1. Desk review

The scope of the desk review process is to assess all changes from the CDM programme activity as described in the revised component design document, including their negative impact on the estimates of the emissions reductions, the increase of the level of accuracy of the monitoring activity, the additionality, the scale of the project and the applicability and application of approved methodology.

AENOR, based on the “Validation, verification and certification of clean development mechanism (CDM) project activities” (IE-DTC-039) /1/, and the CDM Validation and verification Standard for Programme of Activities version 01.0 /2/, has used a risk-based approach in the validation, focusing on the identification of significant risks for the CPA-001.

The following documents were reviewed as part of the scope of the activity:

- Project documentation: Registered PoA /3/ and included CPA-0001 /4/, revised CPA-0001 /5/ validation report of registered PoA-DD /6/, validation report of included CPA-001 /7/, initial version of monitoring report /8/ and final version of monitoring report /9/.
- CDM project standard for programme of activities, version 01.0 /10/.
- CDM project cycle procedure for programme of activities, version 01.0 /11/.
- CDM PoA Monitoring report form version 01.0 and the instructions for filling it out /12/.
- AMS.I.D - Grid connected renewable electricity generation, version 18 /13/.
- Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board.
- The monitoring plan and the applied monitoring methodology, paying close attention to the frequency of measurements, the quality of metering equipment, sampling requirements and the quality assurance and quality control procedures
- The data and information presented to verify their completeness, including the Monitoring Report and the measuring records of the different monitored parameters.
- The influence of data management and the quality assurance and quality control system on the generation and reporting of emission reductions.

A complete list of all documents reviewed is attached in Appendix 3 of this report.

**C.2. On-site inspection**

Duration of on-site inspection: 29/05/2017				
No.	Activity performed on-site	Site location	Date	Team member
1.	<ul style="list-style-type: none"> <li>• Confirmation of the on-site visit planning.</li> <li>• Verification of data generation.</li> <li>• Testing of monitoring equipment and observation of monitoring practices.</li> <li>• Verification of compliance of calibration frequency against original certificates.</li> <li>• Verification of sufficiency of monitoring plan.</li> <li>• Verification of internal data quality control</li> <li>• Crosscheck the information provided against monitoring report and data from monitoring system, plant log books, purchase records, etc.</li> <li>• Verification of controls established to detect and correct any error or omission in monitoring parameters.</li> <li>• Interview with power plant operators to confirm monitoring procedures.</li> <li>• Verification of the changes made to the Monitoring report.</li> </ul>	Project site	29/05/2017	Mercedes García Madero
2.	<ul style="list-style-type: none"> <li>• Verification of different data of the PoA and included CPA and monitoring report.</li> <li>• Review of the monitoring report and emission reduction calculations.</li> <li>• Verification of sector regulation change.</li> <li>• Clarifications related to monitoring procedures.</li> <li>• Verification of electrical energy generation.</li> <li>• Internal procedures of the Quality Management System.</li> <li>• Verification of estimates and assumptions for determining GHG data.</li> <li>• Overall organizational structure for data management and flow of information.</li> </ul>	Project site	29/05/2017	Mercedes García Madero

**C.3. Interviews**

No	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Twagirimana	Twaha	Operation and Maintenance Technician SCATEC	29/05/2017	Verification of data generation.  Testing of monitoring equipment and observation of monitoring practices.	Mercedes García Madero
2	Jung	Carsten	Consultant - Carbon Africa Limited	29/05/2017	Verification of compliance of calibration frequency against original certificates.	
3	Kerigu	Kevin	Consultant - Carbon Africa Limited	29/05/2017		
4	Fichtenberg	Michael	Gigawatt cooperatif	29/05/2017	Verification of internal data quality control.  Verification of controls established to detect and correct any error or omission in monitoring parameters.  Crosscheck the information provided against monitoring report and data from monitoring system, plant log books, purchase records, etc.  Overall organizational structure for data management and flow of information.  Verification of sector regulation change.  Clarifications related to monitoring procedures.  Corrections made to the Monitoring report  Verification of electrical energy generation.	

**C.4. Clarification requests, corrective action requests and forward action requests raised**

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PoA-DD and/or CPA-DD form(s)		CAR 2	
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline			
Corrections			

Changes to the start date of the crediting period		<b>CAR 1</b>	
Inclusion of a monitoring plan in a registered PoA			
Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline			
Types of changes specific to afforestation and reforestation project activities			
Changes to the programme design of a registered PoA			
Changes to project design of generic component project activities or specific-case component project activities			
Others (please specify)			
<b>Total</b>		<b>1</b>	

## SECTION D. Validation findings

### D.1. Compliance with PoA-DD and/or CPA-DD form(s)

<b>Means of validation</b>	<p>During desk review process, the compliance of the revised CPA-DD (both in tracked-change and clean versions) with the valid version of the applicable CPA-DD form and the Instructions for completing the CDM-CPA-DD FORM was checked.</p> <p>The CME has used the later version of the CPA-DD form for the revised CPA-DD. All sections, titles, tables, have been revised and crosschecked against the <i>guidelines from the UNFCCC</i> and they were correct.</p>
<b>Findings</b>	<b>CAR 2 - The form of the CPA-DD is not the most recent one, version 08.1</b>
<b>Conclusion</b>	<p>The proposed revised CPA-DD has adopted the component project activity design document form (CDM-CPA-DD-FORM) Version 08.1. AENOR has assessed the information included comparing with which was included in the registered CPA-DD (CDM-CPA-DD-FORM version 04). Once compared both versions, it is AENOR opinion that the information included in the new form is materially the same as the information in the registered CPA-DD, therefore, in accordance with paragraph 248 of the CDM Validation and Verification Standard for Programme of Activities. The changes that are the subject of the request for approval have been highlighted in the tracked version of the revised CPA-DD.</p>

### D.2. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable

### D.3. Corrections

<b>Means of validation</b>	<p>The CME has identified one permanent change, considered as correction to the information fixed at registration, in accordance with paragraph 230 of the CDM Project Standard for Programme of Activities:</p> <p>1. <u>Number of installed solar modules</u>: number of solar modules indicated in</p>
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	<p>the registered CPA-DD version 05 is 28,340, nevertheless, finally, the number of installed modules is 28,360, but the capacity of them is the same, 300 W. The peak capacity remains the same, therefore, the scale of the project is the same, and the calculations of the emission reductions remains also the same using the methodology AMS-I.D.</p> <p>AENOR during on site visit verified that the new information included in the revised CPA-DD is consistent with the real situation and supported by Single Line Diagram /16/..</p>
<b>Findings</b>	Not applicable
<b>Conclusion</b>	<p>The audit team using the on site inspection and the documented reference determines that the final number of installed solar modules reflects the actual information of the project and the application of the methodology is not affected since the installed capacity fixed at registration remains the same.</p> <p>For that reason, the audit team determines that the corrected information included in final version of the CPA-DD is an accurate reflection of actual information, and total installed capacity of the power plant and the emission reductions calculation and monitoring is not affected by the changes. Therefore, the corrected parameter is in accordance with the applied methodology and the registered monitoring plan in accordance with paragraph 257 of the CDM Validation and Verification standard for programme of Activities.</p>

#### D.4. Changes to the start date of the crediting period

<b>Means of validation</b>	<p>The starting date of the crediting period of the CPA reflected in the UNFCCC webpage was: 01/01/2016, nevertheless, the CPA-0001 was included into the POA on 23/10/2015. The coordinating entity required to modify the starting date of the crediting period to the date on which the CPA was included into the POA, 23/10/2015.</p> <p>The new starting date of the crediting period is in accordance with the CDM project standard for programmes of activities. This change was requested to the UNFCCC Secretariat via an e-mail sent on 27<sup>th</sup> April 2017 /21/ by the coordinating entity.</p> <p>The change in the date is less than a year, therefore, in accordance with the paragraph 232 (a) of the CDM project standard for programmes of activities (version 01.0). The change was verified against a copy of the notification /22/ and the proper change made in the UNFCCC webpage.</p>
<b>Findings</b>	<b>CAR 1 - The change of the starting date of the crediting period requested by the CME is not included in the correct section of the Monitoring report.</b>
<b>Conclusion</b>	The change of the crediting period required by the coordinating entity is less than a year, therefore, the procedure followed to change it has been made in accordance with the paragraph 232 (a) of the CDM project standard for programmes of activities (version 01.0).

#### D.5. Inclusion of a monitoring plan in a registered PoA

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable



## D.6. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline

Means of validation	<p>The CME has identified two permanent changes of the monitoring plan related to the registered CPA:</p> <ol style="list-style-type: none"> <li>1. <u>Meter installation</u>: The included CPA-DD (version 05) stated that a total of four meters will be installed. Three of them to measure the energy supplied to the grid and the fourth one to measure the electricity supplied from the grid. Nevertheless, only three meters have finally been installed: <ul style="list-style-type: none"> <li>• Main meter: Operated by the CPA implementer.</li> <li>• Back-up meter: Operated by the Rwanda Energy Group (REG).</li> <li>• Auxiliary meter: Operated by REG to meter electricity use during the night time.</li> </ul> <p>The main and back up meter measure the electricity supplied to the grid, and the auxiliary meter the electricity supplied from the grid. Therefore, the measurements of electricity supplied to and from the grid are guaranteed with these three meters. During on site visit, it has been verified and confirmed that the auxiliary meter is operated by the CPA implementer, and it is used to meter certain electrical loads as site building and lighting. But, this meter is not used for billing purposes. The main and back up meters are both bidirectional, and they measures exported and imported electricity to and from the grid and they are used for billing purposes. Both meters are correctly calibrated and maintained, and therefore, the data needed for the emission calculation is accurately obtained.</p> </li> <li>2. <u>Accuracy of the meters</u>: In accordance with the registered CPA, the meters will be of class 0.5S for active and 2 for reactive. Nevertheless, the meters installed are more accurate being class 0.2S for active and 0.5S for reactive. During on site visit, the calibration certificates /14-15/ of the main and back-up meters are provided, and the higher accuracy of 0.2S has been checked.</li> </ol> <p>AENOR during on site visit verified that the new information included in the revised CPA-DD is consistent with the real situation and supported by documentation:</p> <ul style="list-style-type: none"> <li>• Single Line Diagram /16/. This document states the number of installed modules is 28,360 and during the <i>on site</i> visit it was crosschecked al well.</li> <li>• Letter from the Energy Utility Corporation Limited, EUCL, with reference number 11.07.23/256/14/DIR-MD/RN /17/ which justify the connection and final installed capacity of the solar power plant.</li> <li>• Power Purchase Agreement /18/ to verify the connection to the grid and the regulatory framework of the meters installed.</li> <li>• Billing records and invoices /19/, used for the emission reduction calculation.</li> <li>• SCADA reports. /20/ to crosscheck that the billing records and invoices are correct.</li> <li>• Calibration certificates, used by the audit team to verify the final accuracy and the calibration results of the meters.</li> </ul>
Findings	No finding has been raised.

<b>Conclusion</b>	<p>Taking into consideration that the coordinating/managing entity is unable to implement the registered monitoring plan exactly the same as it was registered, the two identified modifications are considered in line with paragraph 236 of the “CDM project standard for programmes of activities” and considered as permanent changes to the monitoring plan.</p> <p>The revised monitoring plan as described in the revised CPA-DD is in compliance with the applied methodology since the calculations are not modified as consequence of the changes, and, the revised monitoring plan does not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.</p> <p>The audit team states that proposed alternative monitoring is not likely to lead to a reduction in the accuracy of the calculation of GHG emission reductions since there is no modification in the calculation; and, taking into consideration that the meters installed are more accurate than those detailed in the registered CPA, the final accuracy of the monitoring is higher.</p> <p>In conclusion, AENOR has verified that permanent changes comply with the relevant requirements in the “CDM project standard for programmes of activities” and the description included in the revised CPA-DD is consistent with the real situation and supported by documentation, line diagram and calibration certificates. For all those reasons, the audit team determines that permanent changes to the monitoring plan proposed are in compliance with the applied methodology AMS-I.D , do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan and therefore, comply with the relevant requirements in the “CDM project standard for programmes of activities”, version 01.0.</p>
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#### D.7. Types of changes specific to afforestation and reforestation activities

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable

#### D.8. Changes to the programme design of a registered PoA

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable

#### D.9. Changes to project design of generic component project activities or specific-case component project activities

<b>Means of validation</b>	Not applicable
<b>Findings</b>	Not applicable
<b>Conclusion</b>	Not applicable

**SECTION E. Internal quality control**

Following the completion of the assessment process by the validation team, all documentation undergoes an internal quality control through a technical review before submission to the CDM-EB. The technical reviewer is a qualified member of AENOR, independent from the team that carried out the validation of the post registration changes. The technical reviewer or the team appointed for the technical review are qualified in the technical area and sectoral scope of the project activity.

## SECTION F. Validation opinion

AENOR was contracted to perform the first verification of the PoA “Gigawatt Global Programme of Activities” (hereafter referred to as “the PoA”) registered by the UNFCCC with reference No. 10202 with regard to the relevant requirements for CDM PoA. The objectives of this verification are to verify and certify emission reductions reported for the CPA-001 (ASYV 8.5MW Solar PV Project) included into the POA for the monitoring period of 23/10/2015 - 28/02/2017 (first and last day included); and to verify that the data reported are complete and transparent. During the verification, the coordinating entity identified and notified to the DOE several changes to be made in the CPA-DD. AENOR has performed the validation of the proposed changes according to the registered Programme of Activities 10202, CPA-001 titled ASYV 8.5MW Solar PV Project, CDM Validation and Verification Standard for Programme of Activities (Version 01.0), CDM Project Standard for Programme of Activities (version 01.0) and CDM Project Cycle Procedure for Programme of Activities (Version 01.0).

AENOR planned and performed its work to obtain the information and explanations considered necessary to provide sufficient evidence to give reasonable assurance that the eligibility criteria stated in the registered POA are accomplished by the specific-case CPA titled: **ASYV 8.5MW Solar PV Project**. The validation consisted of the following three phases: i) a desk review of the CPA design, the baseline and the monitoring plans; ii) follow-up interviews with project stakeholders and coordinating entity; iii) the resolution of outstanding issues and the issuance of the final validation report and opinion.

The review of the CPA design documentation and additional documents related to the changes requested, and the subsequent background investigation and follow-up interviews have provided AENOR with sufficient evidence to validate the fulfilment of the stated criteria.

The conclusions can be summarised in detail as follows:

- The proposed revised CPA (version 07) is in line with the eligibility criteria stated in the registered POA.
- The permanent changes to the monitoring plan proposed are in compliance with the applied methodology AMS-I.D and do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan.
- The alternative monitoring is not likely to lead to a reduction in the accuracy of the calculation of the GHG emission reductions, on the contrary, the alternative monitoring leads a higher accuracy.
- The revised CPA is in line with all relevant host country criteria of the host country DNA and with all relevant UNFCCC requirements for CDM.
- The transfer of information from the previous form (version 04.0) of the CPA registered into the new form (version 08.1) is totally correct and materially the same.
- The corrected information is an accurate reflection of actual information.

In AENOR opinion, the CPA correctly applies and meets the relevant UNFCCC requirements for the CDM, the relevant host country criteria and the registered POA eligibility criteria.

Madrid, 14 November 2017

## Appendix 1. Abbreviations

Abbreviations	Full texts
AENOR	AENOR INTERNACIONAL S.A.U.
ACM0002	Grid-connected electricity generation from renewable sources, version 16.0.0.
AMS-I.D	Grid connected renewable electricity generation, version 18.
CAR	Corrective action request
CDM	CDM Clean Development Mechanism
CDM-EB	CDM Executive Board
CER	Certified Emission Reduction(s)
CL	Clarification Request
CME	Coordinating or Managing Entity
CMP	Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol
COD	Commercial Operation Date
CO <sub>2</sub>	Carbon Dioxide
CO <sub>2</sub> e	Carbon dioxide equivalent
CPA	Component project activity
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board of the CDM of the Kyoto Protocol
ER	Emission Reductions
EUCL	Energy Utility Corporation Limited
FAR	Forward action request
GHG	Greenhouse Gases
IPCC	Intergovernmental Panel on Climate Change
MP	Monitoring Plan
MR	Monitoring Report
MWh	Megawatt hour
N/A	Not applicable
PoA	Programme of Activities
CPA-DD	Component project activity design document form
PoA-DD	Project Design Document form
PP	Project participants
PRC	Post-registration changes
PS	Clean Development Mechanism Project Standard for programme of activities (Version 01.0)
REA	Rwanda Energy Group
tCO <sub>2</sub> e	Carbon dioxide equivalent tonnes

UNFCCC	United Nations Framework Convention on Climate Change
VVS	CDM Validation and Verification Standard for Programme of Activities (version 01.0)

## Appendix 2. Competence of team members and technical reviewers

### CERTIFICATE OF QUALIFICATION

Subject: Verification and Technical Review Team for the CPA "ASYV 8.5MW Solar PV Project (CPA-001)".

Madrid, 21/08/2017

Hereby I confirm the following records of qualification, according with AENOR internal instruction "Validation, Verification and Certification of Clean Development Mechanism (CDM) project activities" IE-DTC-039, and in relation with the verification process of the above mentioned project activity:

Name: Mercedes GARCÍA MADERO

CDM Team Leader: Yes

CDM Verifier: Yes

CDM Technical Reviewer: N/A

External Technical Expert: N/A

Technical areas related with the project activity:

TA 1.2. Renewables



Jose Magro  
Authorised person

**CERTIFICATE OF QUALIFICATION**

Subject: Verification and Technical Review Team for the CPA "ASYV 8.5MW Solar PV Project (CPA-001)".

Madrid, 21/08/2017

Hereby I confirm the following records of qualification, according with AENOR internal instruction "Validation, Verification and Certification of Clean Development Mechanism (CDM) project activities" IE-DTC-039, and in relation with the verification process of the above mentioned project activity:

Name: Alfonso MEDRANO GUTIERREZ

CDM Team Leader: N/A

CDM Verifier: Yes

CDM Technical Reviewer: N/A

External Technical Expert: N/A

Technical areas related with the project activity:

TA 1.2. Renewables



Jose Magro  
Authorised person



**CERTIFICATE OF QUALIFICATION**

Subject: Verification and Technical Review Team for the CPA "ASYV 8.5MW Solar PV Project (CPA-001)".

Madrid, 21/08/2017

Hereby I confirm the following records of qualification, according with AENOR internal instruction "Validation, Verification and Certification of Clean Development Mechanism (CDM) project activities" IE-DTC-039, and in relation with the verification process of the above mentioned project activity:

Name: Elena LLORENTE PÉREZ

CDM Team Leader: N/A

CDM Verifier: N/A

CDM Technical Reviewer: Yes

External Technical Expert: N/A

Technical areas related with the project activity:

TA 1.2. Renewables



Jose Magro  
Authorised person

### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	AENOR	Specific Instruction for Validation, Verification and Certification of Clean Development Mechanism (CDM) Project Activities (IE/DTC/039)	-	AENOR
2	CDM-EB	CDM validation and verification standard for programme of activities, version 01.0 (EB93-A08-STAN)	03/03/2017	UNFCCC
3	CME	Registered PoA-DD	08/10/2015	UNFCCC
4	CME	Registered CPA: ASYV 8.5MW Solar PV Project (CPA-001) version 05.	08/10/2015	UNFCCC
5	CME	Revised CPA: ASYV 8.5MW Solar PV Project (CPA-001) version 07.	17/08/2017	CME
6	ERM	Validation report of the CDM-PoA Gigawatt Global Programme of Activities, version 02.	13/10/2015	UNFCCC
7	ERM	Validation Report of the CDM Component Project Activity CPA ASYV 8.5MW Solar PV Project (CPA-001), version 02.	13/10/2015	UNFCCC
8	CME	Monitoring Report version 01	04/04/2017	CME
9	CME	Monitoring Report version 05	01/06/2017	CME
10	CDM-EB	CDM project standard for programme of activities, version 01.0 (CDM-EB93-A07-STAN)	03/03/2017	UNFCCC
11	CDM-EB	CDM project cycle procedure for programme of activities (CDM-EB93-A09-PROC)	03/03/2017	UNFCCC
12	CDM-EB	Attachment. Instructions for filling out the CDM PoA Monitoring report form version 02.0	07/06/2017	UNFCCC
13	UNFCCC	AMS.I.D - Grid connected renewable electricity generation, version 18	--	UNFCCC
14	SCATEC	Calibration certificates of electricity main meter 1610/3P4W-CT-0/5261.2	01/10/2016	CME
15	EUCL	Calibration certificates of electricity back up meter RSB/NMD/04/01/37/046	12/07/2016	CME
16	CME	Single Line Diagram	13/11/2014	CME
17	EUCL	Letter from the Energy Utility Corporation Limited, EUCL, with reference number 11.07.23/256/14/DIR-MD/RN	18/09/2014	CME
18	CME	Power Purchase Agreement	2013	CME
19	SCATEC	Billing records and invoices	2015 - 2017	CME

**CDM-PoA-PRCV-FORM**

20	EUCL	SCADA reports	2015-2017	CME
21	CME	E-mail sent requiring the modification of the starting date of the crediting period.		
22	CME	Notification from the UNFCCC of the approval of the change of starting date of crediting period	04/05/2017	CME

## Appendix 4. Clarification requests, corrective action requests and forward action requests

Table 1. CL from this validation

CL ID	xx	Section no.		Date: DD/MM/YYYY
Description of CL				
CME's response				Date: DD/MM/YYYY
Documentation provided by CME				
DOE assessment				Date: DD/MM/YYYY

Table 2. CAR from this validation

CAR ID	CAR 1	Section no.	4.2	Date: 23/05/2017
Description of CAR				
The change of the starting date of the crediting period requested by the CME is not included in the correct section of the Monitoring report.				
Project participant response				Date: 30/05/2017
<i>The change has been included in new version of Monitoring Report</i>				
Documentation provided by project participant				
GWG CDM MR v2				
DOE assessment				Date: 30/05/2017
The CME has prepared a new version of the Monitoring report, and the change to the starting date of the crediting period is detailed in corresponding section, therefore, <b>CAR 1 is closed.</b>				

CAR ID	CAR 2	Section no.	4.2	Date: 15/11/2017
Description of CAR				
The form of the CPA-DD is not the most recent one, version 08.1				
Project participant response				Date: 15/11/2017
Documentation provided by project participant				
CPA-DD version 07				
DOE assessment				Date: 15/11/2017
The correct form is used, therefore, CAR is closed.				

Table 3. FAR from this validation

FAR ID	xx	Section no.		Date: DD/MM/YYYY
Description of FAR				

<b>CME's response</b>	<b>Date:</b> DD/MM/YYYY
<b>Documentation provided by CME</b>	
<b>DOE assessment</b>	<b>Date:</b> DD/MM/YYYY

# Attachment: Instructions for filling out the validation report form for post-registration changes for CDM Programme of activities

## 1. General instructions

1. When completing the CDM-PoA-PRCV-FORM that applies to the validation of post-registration changes (PRCs) of any type of registered CDM programme of activities (PoA) and/or generic component project activities, and/or specific-case component project activities (CPA) except carbon dioxide capture and storage (CCS), in addition to applying the relevant requirements in the valid version of the "[CDM validation and verification standard \(VVS\)](#)", consult the "[Rules and Reference](#)" section of the UNFCCC CDM website. This section contains all regulatory documents for the CDM, such as [standards](#) (including [methodologies](#), [tools](#) and [standardized baselines](#)), [procedures](#), [guidelines](#), [clarifications](#), [forms](#) and the "[Glossary: CDM terms](#)".
2. In describing the changes in sections D.2 – D.9, clearly indicate which document(s) (i.e. whether only the PoA-DD, CPA-DD or both the PoA-DD and CPA-DD) and section(s) that are effected by the changes (i.e. Sections A, B, C, etc).
3. Include, if necessarily, additional information other than that indicated in this validation report on PRCs, in order to support how the designated operational entity (DOE) has arrived at its opinion. This information may include, but need not be limited to tables, graphs and annexes such as a validation protocol.
4. List all the abbreviations used in this validation report in Appendix 1 debajo de.
5. Complete the CDM-PoA-PRCV-FORM and all attached documents in English, or attach a full translation of relevant sections in English.
6. Complete the CDM-PoA-PRCV-FORM using the same format without modifying its font, headings or logo, and without any other alteration to the form.
7. Do not modify or delete the tables and their columns in the CDM-PoA-PRCV-FORM. Add rows to the tables and appendices as needed.
8. If a section of the CDM-PoA-PRCV-FORM is not applicable, explicitly state "N/A" to indicate that the section is left blank intentionally.
9. Use an internationally recognized format for the presentation of values in the CDM-PoA-PRCV-FORM, for example use digits grouping in thousands and mark a decimal point with a dot (.), not with a comma (,).
10. Complete the CDM-PoA-PRCV-FORM deleting this attachment "Instructions for filling out the validation report form for post-registration changes for CDM programme of activities".

## 2. Specific instructions

1. Indicate the following information on the cover page:
  - (a) Title and reference number of the programme of activities (PoA) (UNFCCC reference number);
  - (b) Process track (check the applicable track. Only one process track can be selected);
  - (c) Version number of the validation report on PoA PRCs (version XX.X);
  - (d) Completion date of the validation report on PoA PRCs (DD/MM/YYYY);
  - (e) Version number of PoA-DD and/or CPA-DD applicable to this validation report;
  - (f) Type(s) of PoA PRCs (check the applicable type(s) of PRCs);

- (g) Coordinating/Managing Entity;
- (h) Host Party(ies);
- (i) Sectoral scope(s)
- (j) Selected methodology(ies)
- (k) Selected standardized baseline(s), where applicable;
- (l) Name of DOE;
- (m) Name, position and signature of an approver of the validation report on PoA PRCs.

## **SECTION A. Executive summary**

1. Provide a brief summary of the registered CDM programme of activities and/or generic component project activities, and/or specific-case component project activities (including the purpose and general description and location), scope of the validation, validation process and conclusion.

## **SECTION B. Validation team, technical reviewer and approver**

1. Provide details of the validation team, technical reviewer and approver in sections B.1 and B.2. If applicable, also identify any trainees.
2. For "Type of resource" in sections B.1 and B.2, indicate the type of resource of the personnel with the use of one of the following abbreviations referring to the "[CDM accreditation standard](#)";
  - (a) IR (Internal Resource);
  - (b) EI (External Individuals);
  - (c) OR (Outsourced Resource).
3. Demonstrate how the team meets the competence required for the validation in Appendix 2 debajo de.

## **SECTION C. Means of validation**

### **C.1. Desk review**

1. List all documents reviewed or referenced during the validation in Appendix 3 debajo de.

### **C.2. On-site inspection**

1. Summarize any on-site inspection performed during the validation in the table.

### **C.3. Interviews**

1. Summarize all the interviews (i.e. in-person interviews, web/teleconferences, etc.) conducted during the validation in the table.

### **C.4. Clarification requests, corrective action requests and forward action requests raised**

1. Indicate in the table the number of clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised during the validation of each type of post-registration change in SECTION D debajo de.

## **SECTION D. Validation findings**

1. In sections D.1–D.9 debajo de, where applicable, complete tables to validate the compliance in accordance with the applicable validation requirements in the VVS by describing:
  - (a) Means of validation: describe how the compliance was validated;
  - (b) Findings: provide a brief description of the findings. Include in Appendix 4 debajo de details of any CLs, CARs and FARs, if raised;
  - (c) Conclusion: provide a conclusion on the compliance based on the findings.

**D.1. Compliance with PoA-DD and/or CPA-DD form(s)**

1. Confirm the compliance of the revised PoA-DD and/or CPA-DD (both in tracked-change and clean versions) with the valid version of the applicable PoA-DD and/or CPA-DD form(s) and the instructions therein for filling out the respective form(s).
2. If the CMEs used the later version of the PoA-DD and/or CPA-DD form(s) for the revised PoA-DD (and/or CPA-DD) than the version of the PoA-DD and/or CPA-DD form(s) of the registered PoA, confirm whether information transferred to the later version of the PoA-DD and/or CPA-DD form(s) is materially the same as that in the registered PoA.

**D.2. Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline**

1. Explain how the temporary deviations from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline were assessed in accordance with the applicable validation requirements in the VVS.
2. Provide an assessment on whether the temporary deviations from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline require prior approval by the Board.
3. Indicate the period for which the temporary deviation from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline is applicable.

**D.3. Corrections**

1. Explain how the corrections to the registered PoA-DD and/or CPA-DD were assessed in accordance with the applicable validation requirements in the VVS.
2. Provide an assessment on whether the corrections require prior approval by the Board.

**D.4. Changes to the start date of the crediting period**

1. Explain how the changes to the start date of the crediting period were assessed in accordance with the applicable validation requirements in the VVS.
2. Provide an assessment on whether the changes to the start date of the crediting period require prior approval by the Board.

**D.5. Inclusion of a monitoring plan in a registered PoA**

1. Explain how the inclusion of a monitoring plan in the registered PoA was assessed in accordance with the applicable validation requirements in the VVS.

**D.6. Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline**

1. Explain how the permanent changes from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline were assessed in accordance with the applicable validation requirements in the VVS.
2. Provide an assessment on whether the permanent changes from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline require prior approval by the Board.

**D.7. Types of changes specific to afforestation and reforestation activities**

1. Explain how the changes specific to afforestation and reforestation activities were assessed in accordance with the applicable validation requirements in the VVS.

**D.8. Changes to the programme design of a registered PoA**

1. Explain how the changes to the programme design of a registered PoA were assessed in accordance with the applicable validation requirements in the VVS.
2. Provide an assessment on whether the changes to the project design of the registered PoA require prior approval by the Board.



**D.9. Changes to project design of generic component project activities or specific-case component project activities**

1. Explain how the changes to the project design of a generic component project activities or specific-case component project activities were assessed in accordance with the applicable validation requirements in the VVS.
2. Provide an assessment on whether the changes to the project design of a generic component project activities or specific-case component project activities require prior approval by the Board.

**SECTION E. Internal quality control**

1. Describe the measures taken to ensure the quality of the validation activities.

**SECTION F. Validation opinion**

1. Provide a validation opinion on the post-registration changes.

**Appendix 1. Abbreviations**

1. List all the abbreviations used in this report in the table.

**Appendix 2. Competence of team members and technical reviewers**

1. Provide documentation to substantiate the required competence of validation team members and technical reviewer(s).

**Appendix 3. Documents reviewed or referenced**

1. List all documents reviewed or referenced during the validation including CDM regulatory documents in the table.
2. For each document indicate the following:
  - (a) Title: provide the title of the document. Include the version number, if applicable;
  - (b) Author: provide the name(s) of the author(s). Where the author(s) belong(s) to the organization(s) that issue the document, provide only the name(s) of the organization(s);
  - (c) References to the document: where applicable, provide the relevant reference to the document such as the dates of completion/publication and URL;
  - (d) Provider: choose one of the following options to indicate who provided the document to the DOE for its desk review. Select 'Others' for documents that were provided by those other than the CME:
    - (i) CME;
    - (ii) Others.

**Appendix 4. Clarification requests, corrective action requests and forward action requests**

1. If needed, copy tables 1, 2 and/or 3 for each CL, CAR, and FAR, and copy the following rows until the finding is closed unless a FAR for future validation was issued:
  - (a) CME's response;
  - (b) Documentation provided by CME;
  - (c) DOE assessment.
2. In each table, indicate the section number of the validation report on PRCs to which each CL, CAR, and/or FAR corresponds.

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**Document information**

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01.0	5 June 2015	Initial publication.
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