

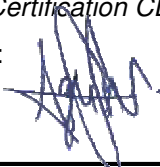


**Verification and certification report form for
CDM project activities
(Version 04.0)**

Complete this form in accordance with the instructions attached at the end of this form.

BASIC INFORMATION

Title and UNFCCC reference number of the project activity	Jiangxi Xiajiang Hydropower Project (UNFCCC reference number: 7289)		
Scale of the project activity	<input checked="" type="checkbox"/> Large-scale <input type="checkbox"/> Small-scale		
Version number of the verification and certification report	01.2		
Completion date of the verification and certification report	26/09/2021		
Monitoring period number and duration of this monitoring period	The 1 st monitoring period: 01/08/2013-31/12/2015		
Version number of the monitoring report to which this report applies	03		
Crediting period of the project activity corresponding to this monitoring period	The 1 st crediting period: 01/08/2013-31/07/2020		
Project participants	The project owner: Jiangxi CPI Xiajiang Power Generation Co., Ltd. (China) Buyer: J-TEC Co., Ltd. (Japan)		
Host Party	China		
Applied methodologies and standardized baselines	Energy industries (renewable - / non-renewable sources) ACM0002 Consolidated baseline methodology for grid-connected electricity generation from renewable sources (Version 12.2.0)		
Mandatory sectoral scopes	1: Energy industries (renewable - / non-renewable sources)		
Conditional sectoral scopes, if applicable	Not applicable		
Estimated amount of GHG emission reductions or GHG removals for this monitoring duration in the registered PDD	1,062,481 tCO ₂ e		
Certified amount of GHG emission reductions or GHG removals for this monitoring period	Amount before 1 January 2013	Amount from 1 January 2013 until 31 December 2020	Amount from 1 January 2021
	0 tCO ₂ e	815,801 tCO ₂ e	0 tCO ₂ e
Name and UNFCCC reference number of the DOE	LGAI Technological Center, S.A. (Applus+ Certification) UNFCCC Ref. No.: E-0032		

Name, position and signature of the approver of the verification and certification report	<p>Mr. Agustín Calle de Miguel</p> <p><i>Applus+ Certification CDM Technical Manager</i></p> <p>Signature: </p>
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SECTION A. Executive summary

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LGAI Technological Center, S.A. (hereafter referred to as Applus+ Certification) has been contracted by Jiangxi CPI Xiajiang Power Generation Co., Ltd. to perform the 1st periodical verification of Jiangxi Xiajiang Hydropower Project (UNFCCC Ref. No. 7289) applying the methodology ACM0002 version 12.2.0 under the requirement of CDM validation and verification standard for project activities version 02.0. The management of Jiangxi CPI Xiajiang Power Generation Co., Ltd. is responsible for the preparation of the GHG emissions data and the reported GHG emission reductions.

A desk review and follow up have been conducted to verify the data submitted in the monitoring report. Applus+ Certification confirms the following has been reviewed:

- (a) The registered PDD or revised PDD, including the monitoring plan and the corresponding validation report;
- (b) Monitoring reports of previous monitoring periods and corresponding verification reports (if applicable);
- (c) Monitoring report of this monitoring period;
- (d) The applied monitoring methodology;
- (e) Relevant decisions, clarifications and guidance from the CMP and the CDM Executive Board;
- (f) All information and references relevant to the project activity's resulting in emission reductions.

Jiangxi Xiajiang Hydropower Project is a newly-built hydropower project. The purpose of the project is to generate electricity by using hydro resources to alleviate electricity shortage in Central area of China. The project activity will achieve greenhouse gas (GHG) emission reductions by avoiding GHG emissions from the electricity generation of fossil fuel-fired power plants in Central China Power Grid (CCPG) which is dominant of fuel-fired power plants. The total installed capacity of the project is 360 MW involves the installation and operation of 9 sets of hydropower turbine generator with 40 MW each. The project started construction on 08/10/2010 and started fully operation on 29/04/2015.

Applus+ Certification confirms that the project is implemented in accordance with the validated and registered PDD. The monitoring plan complies with the applied methodology ACM0002 version 12.2.0 and the monitoring has been carried out in accordance with the monitoring plan. The monitoring system is in place and the emission reductions are calculated without material misstatements. Our opinion relates to the projects GHG emissions and the resulting GHG emission reductions reported and related to the valid and registered project baseline and monitoring and its associated documents. Based on the information reviewed and evaluated Applus+ Certification confirms that the implementation of the project has resulted in 815,801 tCO₂e emission reductions during period 01/08/2013-31/12/2015.

SECTION B. Verification team, technical reviewer and approver**B.1. Verification 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/document review	On-site inspection	Interviews	Verification findings
1.	Team Leader/ Technical Expert	EI	Xue	Denny	Applus+ Certification	x	x	x	x

B.2. Technical reviewer and approver of the verification and certification report

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	EI	Shen	Simon	Applus+ Certification
2.	Approver	IR	Calle de Miguel	Agustín	Applus+ Certification

SECTION C. Application of materiality**C.1. Consideration of materiality in planning the verification**

No.	Risk that could lead to material errors, omissions or misstatements	Assessment of the risk		Response to the risk in the verification plan and/or sampling plan
		Risk level	Justification	
1.	N.A.			

C.2. Consideration of materiality in conducting the verification

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Not applicable.

SECTION D. Means of verification**D.1. Desk/document review**

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The Monitoring Report version 01 dated 08/11/2016 submitted by the PP was made publicly available on the UNFCCC website before the verification activities started. The published MR was assessed based on all the relevant documents. The aim of the assessment in the desk review was to:

- verify the completeness of the data and the information presented in the MR;
- check the compliance of the MR with respect to the monitoring plan depicted in the registered PDD and verify that the applied methodology was carried out. Particular attention to the frequency of measurements, the quality of the metering equipment including calibration requirements, and the quality assurance and quality control procedures was paid;
- evaluate the data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

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

D.2. On-site inspection

Duration of on-site inspection: 08/12/2016 to 09/12/2016				
No.	Activity performed on-site	Site location	Date	Team member
1.	<ul style="list-style-type: none"> - confirm the implementation and operation of the project; - review the data flow for generating, aggregating and reporting the monitoring parameters; - confirm the correct implementation of procedures for operations and data collection; - cross-check the information provided in the MR documentation with other sources; - review the calculations and assumptions used to obtain the GHG data and ER; - check the monitoring equipment against the requirements of the PDD and the approved methodology, including calibrations, maintenance, etc.; - identify if the quality control and quality assurance procedures are in place to prevent or correct errors or omissions in the reported parameters. 	Baqiu Town, Xiajiang County, Ji'an City, Jiangxi Province, P. R. of China.	08/12/2016 to 09/12/2016	Denny Xue

D.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Guo	Jian	Jiangxi CPI Xiajiang Power Generation Co., Ltd.	08/12/2016 to 09/12/2016	Operation of the project activity; Implementation of the monitor plan of the project activity;	Denny Xue
2	Zhang	Yulin	Jiangxi CPI Xiajiang Power Generation Co., Ltd.	08/12/2016 to 09/12/2016	Data collection and data achievement;	
3	Zeng	Xiaoning	Jiangxi CPI Xiajiang Power Generation Co., Ltd.	08/12/2016 to 09/12/2016	Calibration of meters and equipment maintenance;	
4	Xia	Yue	Goldchina Consultancy International Co., Ltd.	08/12/2016 to 09/12/2016	Data collection and ER calculation	

D.4. Sampling approach

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Not applicable.

D.5. Clarification requests (CLs), corrective action requests (CARs) and forward action requests (FARs) raised

Areas of verification findings	No. of CL	No. of CAR	No. of FAR
Compliance of the monitoring report with the monitoring report form	0	1	0
Compliance of the project implementation and operation with the registered PDD	0	0	0
Post-registration changes	0	1	0
Compliance of the registered monitoring plan with the methodologies including applicable tools and standardized baselines	0	0	0
Compliance of monitoring activities with the registered monitoring plan	1	0	0
Compliance with the calibration frequency requirements for measuring instruments	0	0	0
Assessment of data and calculation of emission reductions or net removals	0	0	0
Assessment of reported sustainable development co-benefits	0	0	0
Global stakeholder consultation	0	0	0
Others (please specify)	0	0	0
Total	1	2	0

SECTION E. Verification findings

E.1. Compliance of the monitoring report with the monitoring report form

Means of verification	The verification team verified the applied monitoring form against the latest version of "CDM-MR-FORM".
Findings	The original MR was compiled based on "CDM-MR-FORM" version 05.1. The "CDM-MR-FORM" version 08.0 was applied for the final version of MR. The verification team has verified the format against the template and confirmed that the correct format of MR form is used.
Conclusion	The monitoring report is in line with the "CDM-MR-FORM" version 08.0 and instructions therein.

E.2. Remaining forward action requests from validation and/or previous verifications

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This is the 1st periodical verification. There are no remaining issues and FARs from the validation report.

E.3. Compliance of the project implementation and operation with the registered project design document

Means of verification	The verification team has, by means of an on-site inspection, assessed that all physical features (technology, project equipment, and monitoring and metering equipment) of the registered CDM project activity are in place and that the project participants have operated the project activity as per the registered PDD.
Findings	<p>The project was registered on 27/12/2012 with the reference number 7289 which is available on the UNFCCC website (http://cdm.unfccc.int/Projects/DB/TECO1347605315.72/view).</p> <p>This monitoring period falls into the 1st crediting period. The 1st crediting period is from 01/08/2013 to 31/07/2020.</p> <p>The project activity is implemented in accordance with the approved consolidated baseline and monitoring methodology ACM0002 version 12.2.0.</p> <ul style="list-style-type: none"> - The Project is grid connected renewable power generation project activity; - The Project is green-field electricity generation project; - The project activity does not involve in any non-renewable components, a capacity addition, co-generation and retrofit or modification to an existing

facility;

- The project activity does not involve in switching from fossil fuels to renewable energy sources at the site where no renewable power plant was operated prior to the implementation of the project activity;
- The geographic and system boundary includes the Central China Power Grid (CCPG) to which the project is supplying the electricity, the grid is clearly identifiable and the information on the characteristics of the grid is available.

The project covers the period 01/08/2013 - 31/12/2015 during the 1st crediting period. The project started construction on 08/10/2010 and started fully operation on 29/04/2015. The commissioning for the first generator set started on 13/09/2013, cover 840 days in the monitoring period; the second generator set started on 30/12/2013, cover 732 days in the monitoring period; the third generator set started on 12/04/2014, cover 629 days in the monitoring period; the fourth generator set started on 21/06/2014, cover 559 days in the monitoring period; the fifth generator set started on 01/10/2014, cover 457 days in the monitoring period; the sixth generator set started on 31/10/2014, cover 427 days in the monitoring period; the seventh generator set started on 31/12/2014, cover 366 days in the monitoring period; the eighth generator set started on 26/03/2015, cover 281 days in the monitoring period; the ninth generator set started on 29/04/2015, cover 247 days in the monitoring period. All these have been confirmed by site visit and Unit registration record.

The verification team has performed a site visit to verify the actual implementation of the project against the description in the registered PDD. In this monitoring period, the project involved implementation and operation of 9 sets of turbines and generators with a capacity of 40 MW each. The start date and end date of this monitoring period is within the 1st crediting period. The capacity of the installed capacity is the same as per the registered PDD. The total installed capacity of the project is 360 MW with 9 sets of 40 MW turbines and generators. However, through the site visit, the verification team found the model of turbine and generators is not the same as in the registered PDD. The verification team has verified the technical parameters of the main equipment. The turbines' model is GZD(982)-WP-770 and the generator's model is SFWG40-84/8700 which is in line with the actual situation and the technical parameters specified in the revised PDD. But the verification team consider this will not affect the nature of the project, as the total installed capacity of the project remain as 360 MW. Also, a PRC has been raised in line with the Appendix 1 of Project Standard which is specified in the E.4.6 of the report. Through the document review and site visit, the verification team confirmed that the actual implementation of the project is in accordance with the registered PDD except the model of turbines and generators used.

The generated electricity is properly delivered to the Central China Power Grid as confirmed by site visit and checking Power Purchase Agreement (PPA). Quantity of net electricity generation supplied by the project plant/unit to the CCPG in year y ($EG_{\text{facility},y}$) is continuously monitored and monthly recorded by 2 sets of bi-directional Meter (M1 and M2 as main meter, M1' and M2' as backup meter) installed at Xiazhong Line I and Xiazhong Line II respectively. The location of the monitoring meters has been visited by the verification team during site visit. The installation of the monitoring meters is in compliance with the description in the registered PDD. Area of the reservoir measured in the surface of the water, after the implementation of the project activity, when the reservoir is full (A_{PJ}) is monitored by the design institute on a yearly basis. Installed capacity of the proposed project after the implementation of the project activity (Cap_{PJ}) is determined by nameplate of the equipment used for the project.

The CDM management manual was verified by the verification team, and the monitoring and management system was found in place. The staffs of the project activity have received training on monitoring, management & CDM knowledge, the training records were also verified by the verification team.

The monitoring report contains a comparison of the actual emission reductions claimed in the monitoring period with the estimation in the registered PDD. The

	<p>actual emission reductions during this monitoring period are lower than the values estimated in the registered PDD for the monitoring period 01/08/2013 - 31/12/2015 which surely will not lead to the over-estimation of ERs.</p> <p>During the site visit, no changes have been observed or identified which may impact the additionality as there was no change in the effective output capacity, no addition of component nor extension of technology, no addition nor removal of project sites of the project activity, no change of values of the actual operational parameter relevant to determination of emission reductions which are within the control of the PP; no change has been observed or identified that may impact the scale of the project activity or applicability of baseline and monitoring methodology. It's confirmed that there are no special events in the monitoring period. As a result, the verification team confirms that none of the data affects the additionality, scale or applicability of the project.</p>
Conclusion	The verification team confirms that the implementation and operation of the registered CDM project activity has been conducted in accordance with the description contained in the registered PDD. There is no deviation or the proposed or actual changes in the implementation or operation of the registered CDM project activity during this monitoring period.

E.4. Post-registration changes

E.4.1. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents¹

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Not applicable.

E.4.2. Corrections

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Corrections have been made due to the template change of the PDD, following information are included in the revised PDD:

- a) A.6. History of project activity
- b) A.7. Debundling
- c) Section .F. Approval and authorization
- d) Appendix 3. Applicability of methodologies and standardized baselines
- e) Appendix 6. Summary report of comments received from local stakeholders
- f) Appendix 7. Summary of post-registration changes

Along with the MR and verification report, revised PDD version 05 to reflect the corrections will also be submitted to UNFCCC for PRC.

E.4.3. Changes to the start date of the crediting period

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Not applicable.

E.4.4. Inclusion of a monitoring plan

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Not applicable.

E.4.5. Permanent changes from registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines or other methodological regulatory documents

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¹ Other standards, methodologies, methodological tools and guidelines (to be) applied in accordance with the applied (selected) methodologies are collectively referred to as the other (applied) methodological regulatory documents).

Not applicable.

E.4.6. Changes to the project design

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Through site visit, the verification team found the real model of Turbine and Generator is not the same as in the registered PDD, then a PRC has been raised by the verification team.

Through site visit, the verification team is able to confirm although the model of the Turbine and Generator is different with the one indicated in the registered PDD, but the total installed capacity remains as 360 MW. So, the verification team confirms the change do not adversely impact any of the following:

- (a) The applicability and application of the applied methodology and, where applicable, the applied standardized baseline under which the project activity has been registered;
- (b) The additionality of the project activity;
- (c) The scale of the project activity.

Along with the MR and verification report, revised PDD version 05 to reflect changes to the project design will also be submitted to UNFCCC for PRC.

E.4.7. Changes specific to afforestation and reforestation project activities

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Not applicable.

E.5. Compliance of the registered monitoring plan with applied methodologies, applied standardized baselines, and other applied methodological regulatory documents

Means of verification	The verification team has verified the monitoring plan in the registered PDD with the approved methodology ACM0002, version 12.2.0 to confirm the compliance.
Findings	The monitoring plan in the registered PDD is in accordance with the approved methodology ACM0002, version 12.2.0, applied by the proposed CDM project activity. No correction or permanent change to the monitoring plan has been requested to the CDM Executive Board due to the compliance with methodology.
Conclusion	The monitoring plan in the registered PDD is in accordance with the approved methodology ACM0002, version 12.2.0.

E.6. Compliance of monitoring activities with the registered monitoring plan

E.6.1. Data and parameters fixed ex ante or at renewal of crediting period

Means of verification	The verification team has verified the defaulted figures which are not monitored in crediting period via comparing with the registered PDD.
Findings	Parameter "Combined margin CO ₂ emission factor for grid connected power generation in year y." ($EF_{grid,CM,y}$) and parameter "Installed capacity of the hydro power plant before the implementation of the project activity" (Cap_{BL}) are fixed at renewal of crediting period. The value of the parameter for $EF_{grid,CM,y}$ is 0.7244 tCO ₂ e which was calculated according to the procedure outlined in B.6 of the registered PDD for the 1 st crediting period. According to registered PDD, for new hydro power plants, for Cap_{BL} this value is zero. For the rest of parameter are used to determine Emission factor of CCPG.
Conclusion	The verification team confirmed that the figures are consistent with its sources.

E.6.2. Data and parameters monitored

Means of verification	<p>The verification team has verified the following via the site inspection and documents review:</p> <ul style="list-style-type: none"> - Whether the registered monitoring plan has been properly implemented and followed by the project participants; - Whether all parameters stated in the registered monitoring plan and relevant Board decisions have been monitored and updated as applicable, including:
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	<ul style="list-style-type: none"> i) Project emission parameters; ii) Baseline emission parameters; iii) Leakage parameters; iv) Management and operational system: the responsibilities and authorities for monitoring and reporting are in accordance with the responsibilities and authorities stated in the registered monitoring plan; <ul style="list-style-type: none"> - Whether the equipment used for monitoring is controlled and calibrated in accordance with the registered monitoring plan, the applied methodology, Board guidance, local/national standards, or as per the manufacturer's specification; - Whether the monitoring results are consistently recorded as per approved frequency; - Whether the quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan. 																																
Findings	<p>The monitoring has been carried out in accordance with the monitoring plan in registered PDD. All parameters were monitored and determined as per the monitoring plan listed in the table below:</p> <table border="1"> <thead> <tr> <th>Meth/tool</th><th>PDD</th><th>MR</th><th>Compliance?</th></tr> </thead> <tbody> <tr> <td>EG_{facility,y}</td><td>EG_{facility,y}</td><td>EG_{facility,y}</td><td>Yes.</td></tr> <tr> <td>Cap_{PJ}</td><td>Cap_{PJ}</td><td>Cap_{PJ}</td><td>Yes.</td></tr> <tr> <td>A_{PJ}</td><td>A_{PJ}</td><td>A_{PJ}</td><td>Yes.</td></tr> </tbody> </table> <table border="1"> <tr> <td>Data / Parameter:</td><td>EG_{facility,y}</td></tr> <tr> <td>Data unit:</td><td>MWh</td></tr> <tr> <td>Description:</td><td>Quantity of net electricity generation supplied by the project plant/unit to the CCPG in year y</td></tr> <tr> <td>Purpose of the data:</td><td>Calculation of baseline emissions</td></tr> <tr> <td>Parameter value:</td><td>1,126,175.800</td></tr> <tr> <td>Source of data used:</td><td>Monthly Reading Records (MRRs), issued by the project owner, Electricity Transaction Notes (ETNs) issued by power grid company covering monitoring period</td></tr> <tr> <td>Information flow:</td><td> <p>Quantity of net electricity generation supplied by the project plant/unit to the CCPG in year y is the difference between The quantity of electricity delivered to grid and The quantity of electricity imported from the grid.</p> <p>For both parameters:</p> <p>The parameter is continuously monitored and monthly recorded by Meter M1 (main) and M1' (backup), M2 (main) and M2' (backup, during this monitoring period, the data from M1' and M2' were not used for ER calculation) installed at Xiazhong Line I and Xiazhong Line II respectively. At 24:00 of the last day of every month, the raw data of meter reading of M1 and M2 are recorded by the power grid company and project owner, the project owner would form Monthly Reading Records (MRRs) based on the meter readings and then send to the power grid company, after the confirmation of power grid company, the power grid company will issue ETNs..</p> <p>The data for MRRs and ETNs have been sent to the CDM consulting company for reporting of GHG emission reduction. The conservative one would be used for ER calculation.</p> </td></tr> <tr> <td>Monitoring</td><td>The parameter was measured continuously and recorded</td></tr> </table>	Meth/tool	PDD	MR	Compliance?	EG _{facility,y}	EG _{facility,y}	EG _{facility,y}	Yes.	Cap _{PJ}	Cap _{PJ}	Cap _{PJ}	Yes.	A _{PJ}	A _{PJ}	A _{PJ}	Yes.	Data / Parameter:	EG _{facility,y}	Data unit:	MWh	Description:	Quantity of net electricity generation supplied by the project plant/unit to the CCPG in year y	Purpose of the data:	Calculation of baseline emissions	Parameter value:	1,126,175.800	Source of data used:	Monthly Reading Records (MRRs), issued by the project owner, Electricity Transaction Notes (ETNs) issued by power grid company covering monitoring period	Information flow:	<p>Quantity of net electricity generation supplied by the project plant/unit to the CCPG in year y is the difference between The quantity of electricity delivered to grid and The quantity of electricity imported from the grid.</p> <p>For both parameters:</p> <p>The parameter is continuously monitored and monthly recorded by Meter M1 (main) and M1' (backup), M2 (main) and M2' (backup, during this monitoring period, the data from M1' and M2' were not used for ER calculation) installed at Xiazhong Line I and Xiazhong Line II respectively. At 24:00 of the last day of every month, the raw data of meter reading of M1 and M2 are recorded by the power grid company and project owner, the project owner would form Monthly Reading Records (MRRs) based on the meter readings and then send to the power grid company, after the confirmation of power grid company, the power grid company will issue ETNs..</p> <p>The data for MRRs and ETNs have been sent to the CDM consulting company for reporting of GHG emission reduction. The conservative one would be used for ER calculation.</p>	Monitoring	The parameter was measured continuously and recorded
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	method, frequency and equipments:	<p>monthly by Meter M1 (main) and M1' (backup), M2 (main) and M2' (backup) installed at Xiazhong Line I and Xiazhong Line II respectively during the monitoring period verified by site visit. See below for the information of M1, M1', M2 and M2' verified by site visit and checking calibration certificates:</p> <table border="1"> <thead> <tr> <th>Meter</th> <th>Type</th> <th>Serial Number</th> <th>Accuracy</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>MK6E</td> <td>212037978</td> <td>0.2s</td> </tr> <tr> <td>M2</td> <td>MK6E</td> <td>212037980</td> <td>0.2s</td> </tr> <tr> <td>M1'</td> <td>MK6E</td> <td>212037979</td> <td>0.2s</td> </tr> <tr> <td>M2'</td> <td>MK6E</td> <td>212037981</td> <td>0.2s</td> </tr> </tbody> </table> <p>The type, serial number and accuracy have been confirmed by site visit.</p>	Meter	Type	Serial Number	Accuracy	M1	MK6E	212037978	0.2s	M2	MK6E	212037980	0.2s	M1'	MK6E	212037979	0.2s	M2'	MK6E	212037981	0.2s										
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	M1'	MK6E	212037979	0.2s																												
M2'	MK6E	212037981	0.2s																													
Calibration:	<p>The calibration information are below:</p> <table border="1"> <thead> <tr> <th>Meter</th> <th>Calibration date</th> <th>Valid until</th> </tr> </thead> <tbody> <tr> <td rowspan="3">M1</td> <td>01/07/2013</td> <td>30/06/2014</td> </tr> <tr> <td>01/06/2014</td> <td>31/05/2015</td> </tr> <tr> <td>07/05/2015</td> <td>06/05/2016</td> </tr> <tr> <td rowspan="3">M1'</td> <td>01/07/2013</td> <td>30/06/2014</td> </tr> <tr> <td>01/06/2014</td> <td>31/05/2015</td> </tr> <tr> <td>07/05/2015</td> <td>06/05/2016</td> </tr> <tr> <td rowspan="3">M2</td> <td>01/07/2013</td> <td>30/06/2014</td> </tr> <tr> <td>01/06/2014</td> <td>31/05/2015</td> </tr> <tr> <td>07/05/2015</td> <td>06/05/2016</td> </tr> <tr> <td rowspan="3">M2'</td> <td>01/07/2013</td> <td>30/06/2014</td> </tr> <tr> <td>01/06/2014</td> <td>31/05/2015</td> </tr> <tr> <td>07/05/2015</td> <td>06/05/2016</td> </tr> </tbody> </table> <p>The calibration for meters was conducted by an accredited third party which is State Grid Jiangxi Electric Power Research Institute was accredited valid from 01/04/2012 to 31/03/2015, from 01/04/2015 to 31/03/2018</p>	Meter	Calibration date	Valid until	M1	01/07/2013	30/06/2014	01/06/2014	31/05/2015	07/05/2015	06/05/2016	M1'	01/07/2013	30/06/2014	01/06/2014	31/05/2015	07/05/2015	06/05/2016	M2	01/07/2013	30/06/2014	01/06/2014	31/05/2015	07/05/2015	06/05/2016	M2'	01/07/2013	30/06/2014	01/06/2014	31/05/2015	07/05/2015	06/05/2016
Meter	Calibration date	Valid until																														
M1	01/07/2013	30/06/2014																														
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	07/05/2015	06/05/2016																														
M2	01/07/2013	30/06/2014																														
	01/06/2014	31/05/2015																														
	07/05/2015	06/05/2016																														
M2'	01/07/2013	30/06/2014																														
	01/06/2014	31/05/2015																														
	07/05/2015	06/05/2016																														
QA/QC procedure:	Data record will be archived for a period of 2 years after the crediting period to which the records pertain.																															
Means of verification:	<p>Data of the parameter was verified by checking MRRs. All data is in line with MRRs;</p> <p>Information flow was verified by checking MRRs and ETNs, and all information are consistent;</p> <p>Monitoring method was verified by site visit, checking calibration certificates, all monitoring method meets the description in the PDD;</p> <p>Calibration was verified by checking calibration certificate and Accreditation certificate, all calibration of monitoring equipment meets the requirement indicated in the PDD.</p>																															
	<table border="1"> <tr> <td>Data / Parameter:</td> <td>Cap_{PJ}</td> </tr> <tr> <td>Data unit:</td> <td>W</td> </tr> <tr> <td>Description:</td> <td>Installed capacity of the proposed project after the</td> </tr> </table>	Data / Parameter:	Cap _{PJ}	Data unit:	W	Description:	Installed capacity of the proposed project after the																									
Data / Parameter:	Cap _{PJ}																															
Data unit:	W																															
Description:	Installed capacity of the proposed project after the																															

		implementation of the project activity
	Purpose of the data:	Calculation of project emissions
	Parameter value:	360,000,000
	Source of data used:	Nameplate of equipment used for the project
	Information flow:	By checking nameplate of the equipment used for the project, and such information would be sent to CDM consulting company.
	Monitoring method, frequency and equipments:	Not applicable as the project owner just record information on the nameplate
	Calibration:	Not applicable as the project owner just record information on the nameplate
	QA/QC procedure:	Data record will be archived for a period of 2 years after the crediting period to which the records pertain.
	Means of verification:	Data of the parameter was verified by checking nameplate of the equipment. All data is in line with information on the nameplate; Information flow was verified by interview with project owner, and all information are consistent.
	Data / Parameter:	A _{PJ}
	Data unit:	m ²
	Description:	Area of the reservoir measured in the surface of the water, after the implementation of the project activity, when the reservoir is full
	Purpose of the data:	Calculation of project emissions
	Parameter value:	2013: 31,547,000 2014: 31,547,000 2015: 31,547,000
	Source of data used:	Statement issued by Jiangxi Provincial Water Resources and Hydropower Planning Survey and Design Institute
	Information flow:	Statement issued by Jiangxi Provincial Water Resources and Hydropower Planning Survey and Design Institute was checked yearly. As Jiangxi Provincial Water Resources and Hydropower Planning Survey and Design Institute is the design institution for the project (which is also an accredited third party), the statement issued by the institution is reliable. The data for surface area have been sent to the CDM consulting company for reporting of GHG emission reduction.
	Monitoring method, frequency and equipments:	Not applicable
	Calibration:	Not applicable
	QA/QC	Data record will be archived for a period of 2 years after the

	procedure:	crediting period to which the records pertain.
	Means of verification:	Data of the parameter was verified by checking Statement issued by Jiangxi Provincial Water Resources and Hydropower Planning Survey and Design Institute. All data is in line with checking Statement issued by Jiangxi Provincial Water Resources and Hydropower Planning Survey and Design Institute; Information flow was verified by checking Statement issued by Jiangxi Provincial Water Resources and Hydropower Planning Survey and Design Institute, and all information are consistent.
Conclusion	<p>The verification team confirmed that:</p> <ul style="list-style-type: none"> - The registered monitoring plan has been properly implemented and followed by the project participants; - All parameters stated in the registered monitoring plan and relevant Board decisions have been monitored; - The equipment used for monitoring is controlled and calibrated in accordance with the registered monitoring plan and the applicable national standard; - The monitoring results are consistently recorded as per approved frequency; - The quality assurance and quality control procedures have been applied in accordance with the registered monitoring plan. 	

E.6.3. Implementation of sampling plan

Means of verification	Not applicable.
Findings	Not applicable.
Conclusion	Not applicable.

E.7. Compliance with the calibration frequency requirements for measuring instruments

Means of verification	The verification team verified the calibration records of the monitoring equipment and the qualification of the calibrator to confirm the compliance of the calibration.
Findings	<p>4 monitoring meters are used in the monitoring period,</p> <p>The calibration information of the 4 meters has been presented in the E.6.2.</p> <p>As required by the registered PDD, the meters are examined, tested, debugged and calibrated at least once a year by State Grid Jiangxi Electric Power Research Institute. During this monitoring period, the meters are calibrated at least once a year and the validity period of each calibration is 1 year, which is in line with monitoring plan. The verification team confirmed that the 1st calibration is before this monitoring period and the latest calibration validity period covers the last day of this monitoring period. Thereby, it is confirmed that the calibration interval is consistent with the monitoring plan. The validity period for the calibrations covered the whole monitoring period.</p> <p>Electric measurement centre of State Grid Jiangxi Electric Power Research Institute was accredited valid from 01/04/2012 to 31/03/2015, from 01/04/2015 to 31/03/2018. Accreditations of institutions are valid when performed the calibration.</p>
Conclusion	The verification team confirmed that the calibration is conducted at the frequency as specified by the registered monitoring plan. The calibration is confirmed to the effective via verifying the calibration record and qualification of the calibrator.

E.8. Assessment of data and calculation of emission reductions or net removals

E.8.1. Calculation of baseline GHG emissions or baseline net GHG removals by sinks

Means of verification	The data recorded in the Monthly Reading Reports (MRRs) have been verified by the verification team. The recorded data have also been crosschecked with Electricity Transaction Notes (ETNs). Defaulted value used for baseline GHG emissions calculation has been verified against the data source. The calculation process as well as all assumptions used in the calculation of the baseline GHG
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	emissions has been verified against the methodology and the registered PDD. The verification team also re-produced the calculation to confirm the correctness of the baseline GHG emissions calculation.
Findings	<p>The calculation tool, i.e. the ER Calculation spreadsheet clearly and transparently describes the calculation of baseline GHG emissions.</p> <p>As a result of verification of the baseline GHG emissions calculation process, the verification team confirmed that all the parameters required for the determination of the emission reductions have been included in the Monitoring Report and ER calculation spreadsheet and are consistent with the applied methodology ACM0002 version 12.2.0 and the monitoring plan contained in the registered PDD. The parameters are complete in this monitoring period.</p> <p>After verifying the reported figures with the raw data sources, it's confirmed that the values of the parameters from the raw data sources are consistent with those quoted in the ER calculation spreadsheet and the Monitoring Report. The verification process for the same has been clearly described in section E.6.2 of the report. The reported data of the monitored parameters have been crosschecked against other evidences than from the raw data records to confirm the appropriateness of the values.</p> <p>The verification team re-produced the calculation process in the ER calculation spreadsheet and confirmed that the methods and formulae used to obtain the baseline emissions are appropriate. The calculation has been done in accordance with the methods and formulae described in the registered monitoring plan and applicable methodology. Total emission reductions during the monitoring period have been rounded down to an integer.</p> <p>The verification team confirms that the assumptions, emission factors and default values (ex-ante values) from PDD used in the emission reductions calculation during the monitoring period have been correctly justified. All the emission factors and default values are explicitly mentioned in the final MR.</p>
Conclusion	<p>The verification team concluded that:</p> <ul style="list-style-type: none"> - A complete set of data for calculating the baseline GHG emissions are available during this monitoring period; - Reported electricity data for calculating baseline GHG emissions have been cross-checked against electricity sales invoices; - Appropriate methods and formulae for calculating baseline GHG emissions have been followed; - Assumptions, emission factors and default values that were applied in the calculations have been justified;

E.8.2. Calculation of project GHG emissions or actual net anthropogenic GHG removals by sinks

Means of verification	The calculation process of the project GHG emissions has been verified against the methodology and the registered PDD.
Findings	<p>According to Statement issued by Jiangxi Provincial Water Resources and Hydropower Planning Survey and Design Institute, the Area of the reservoir measured in the surface of the water, after the implementation of the project activity, when the reservoir is full during the monitoring period is determined as 31,547,000 m²; also by checking the nameplate of the equipment used for the project, Installed capacity of the proposed project after the implementation of the project activity is determined as 360,000,000 W.</p> <p>By calculation the power density of the project, it is confirmed that power density is greater than 10 W/m² which is 11.41 W/m², therefore the project emission should be considered as zero according to ACM0002.</p>
Conclusion	The project GHG emissions during this monitoring period are confirmed as 0 tCO _{2e} .

E.8.3. Calculation of leakage GHG emissions

Means of verification	The calculation process of the leakage GHG emissions has been verified against the methodology and the registered PDD.
Findings	According to the Methodology ACM0002, there will be no leakage caused by the Project activity. Thus, leakage is 0.
Conclusion	The leakage GHG emissions during this monitoring period are 0.

E.8.4. Summary calculation of GHG emission reductions or net anthropogenic GHG removals by sinks

Means of verification	The calculation process of the GHG emission reductions has been verified against the methodology and the registered PDD.
Findings	The GHG emission reductions equal to the baseline GHG emissions minus the project GHG emissions and the leakage GHG emissions.
Conclusion	The verification team confirmed that the GHG emission reductions during this monitoring period have been correctly calculated and reported.

E.8.5. Comparison of actual GHG emission reductions or net anthropogenic GHG removals by sinks with estimates in registered PDD

Means of verification	The verification team verified the comparison process of actual GHG emission reductions with the estimates in registered PDD.
Findings	<p>The estimated emission reduction in the 1st crediting period is 769,117 tCO₂e per year. The commissioning for the first generator set started on 13/09/2013, cover 840 days in the monitoring period; the second generator set started on 30/12/2013, cover 732 days in the monitoring period; the third generator set started on 12/04/2014, cover 629 days in the monitoring period; the forth generator set started on 21/06/2014, cover 559 days in the monitoring period; the fifth generator set started on 01/10/2014, cover 457 days in the monitoring period; the sixth generator set started on 31/10/2014, cover 427 days in the monitoring period; the seventh generator set started on 31/12/2014, cover 366 days in the monitoring period; the eighth generator set started on 26/03/2015, cover 281 days in the monitoring period; the ninth generator set started on 29/04/2015, cover 247 days in the monitoring period.</p> <p>So, the according emission reduction in this period is $=769,117/9 \times 840/365 + 769,117/9 \times 732/365 + 769,117/9 \times 629/365 + 769,117/9 \times 559/365 + 769,117/9 \times 457/365 + 769,117/9 \times 427/365 + 769,117/9 \times 366/365 + 769,117/9 \times 281/365 + 769,117/9 \times 247/365 = 1,062,481$ tCO₂e.</p>
Conclusion	The verification team confirmed that the calculation of the estimated value during this monitoring period in the registered PDD is correct. The actual values achieved during this monitoring period are lower than the estimated value in the registered PDD which is conservative.

E.8.6. Remarks on difference from estimated value in registered PDD

Means of verification	The verification team verified the explanation in the MR of the difference from the estimated value in the registered PDD.
Findings	The actual values achieved during this monitoring period are lower than the estimated value in the registered PDD which is acceptable as conservative reason.
Conclusion	The actual values achieved during this monitoring period are lower than the estimated value in the registered PDD which surely will not lead to over-estimation. The verification team confirmed this is appropriate.

E.8.7. Actual GHG emission reductions or net anthropogenic GHG removals by sinks during the first commitment period and the period from 1 January 2013 onwards

Means of verification	The verification team confirmed the calculation of actual GHG emission reductions in the MR during the second commitment period and the period from 01/08/2013 onwards.
Findings	Whole GHG emission reductions of this monitoring period are from 01/08/2013 onwards.
Conclusion	Whole GHG emission reductions of this monitoring period are from 01/08/2013 onwards. Therefore, in the MR the presentation of GHG emission reductions from

01/08/2013 onwards are correct.

E.9. Assessment of reported sustainable development co-benefits

Means of verification	Not applicable.
Findings	Not applicable.
Conclusion	Not applicable.

E.10. Global stakeholder consultation

Means of verification	The verification team checked the comments from UNFCCC and verified if such comments are authentic and relevant to CDM matters.
Findings	There were no comments received for the project during this monitoring period.
Conclusion	There were no comments received for the project during this monitoring period.

SECTION F. Internal quality control

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As a final step for verification, the final documentation, including the verification report, has to undergo an internal quality control by the Technical Reviewer(s) to be approved.

Details of the Technical Reviewer(s) are provided within the verification report in Section B.2. and Appendix 2 for further references of knowledge and capability to conduct the quality checking.

After the Technical Review process, the final documentation may undergo a final quality checking process called Administrative Review, done by the Applus+ Certification's Project Manager and/or Technical Support.

For final approval, the final set of documents are prepared by the DOE's Technical Manager or its deputy and signed by the authorized signatory of the DOE.

In case any of the persons performing this final internal quality control approval process has acted as a part of the Assessment Team or Technical Review team, the approval can only be given by DOE's authorized personnel who are not part of those teams.

If the final set of documents has been satisfactorily approved, a Request for Issuance is submitted to the UNFCCC CDM EB along with the relevant documents.

SECTION G. Verification opinion

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Applus+ Certification has been engaged by Jiangxi CPI Xiajiang Power Generation Co., Ltd. to perform the first periodical verification of the Jiangxi Xiajiang Hydropower Project (UNFCCC Ref. No. 7289).

The management of Jiangxi CPI Xiajiang Power Generation Co., Ltd. is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project's Monitoring Plan in the revised PDD version 05 completed on 26/09/2021 and the applied methodology ACM0002 version 12.2.0.

Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakesh accord, as well as those defined by the CDM Executive Board. Our approach is risk-based, drawing on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these. The verification can confirm that:

- the project is operated as planned and described in the project design document approved by the EB;*
- the monitoring plan is as per the applied methodology;*
- the monitoring in Monitoring Report is as per the PDD and the monitoring plan approved by the EB;*
- the development and maintenance of records and reporting procedures are in accordance with the registered monitoring plan;*

- *the installed equipment being essential for generating emission reduction runs reliably and is calibrated appropriately;*
- *the monitoring system is in place and generates GHG emission reductions data;*
- *the GHG emission reductions are calculated without material misstatements.*

In our opinion, the GHG emission reductions for Jiangxi Xiajiang Hydropower Project for the monitoring period 01/08/2013 to 31/12/2015 as reported in Monitoring Report, prepared on the basis of the project's Monitoring Plan are fairly stated.

SECTION H. Certification statement

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Based on the information we have seen and evaluated, we confirm the following statement:

Reporting period:	From 01/08/2013-31/12/2015
Verified emissions in the above reporting period:	
Leakage emissions	0 tCO ₂ equivalents
Project emissions	0 tCO ₂ equivalents
Baseline emissions	815,801 tCO ₂ equivalents
Emission reductions	815,801 tCO ₂ equivalents
Actual values achieved up to 31 December 2012	0 tCO ₂ equivalents
Actual values achieved from 1 January 2013 onwards	815,801 tCO ₂ equivalents

Appendix 1. Abbreviations

Abbreviations	Full texts
ACM	Approved Consolidated Methodology
AM	Approved Methodology
AMS	Approved Methodology Small Scale
Applus+ Certification	LGAI Technological Center, S.A. (Applus)
BM	Build Margin
CAR	Corrective Action Request
CCPG	Central China Power Grid
CDM	Clean Development Mechanism
CDM EB	CDM Executive Board
CER	Certified Emission Reduction
CM	Combined Margin
CMP	Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol
DNA	Designated National Authority
DOE	Designated Operational Entity
EF	Emission Factor
EIA	Environmental Impact Assessment
ER	Emission Reduction
FAR	Forward Action Request
FSR	Feasibility Study Report
GHG	Greenhouse Gas(es)
IPCC	Intergovernmental Panel on Climate Change
IRL	Information Reference List
IRR	Internal Rate of Return
KP	Kyoto Protocol
MP	Monitoring Plan
MR	Monitoring Report
NGO	Non-Governmental Organization
OM	Operational Margin
PDD	Project Design Document
PP	Project Participant
UNFCCC	United Nations Framework Convention for Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers

According to the applicable sectoral scope / technical area and experience in the sectoral or national business environment, Applus+ Certification has composed an assessment team in compliance with the Contract Review and Assessment Team appointment rules in the internal Quality Management System of Applus+ Certification as well as in compliance with the applicable requirements in the Accreditation Standard.

The composition of the Assessment Team (Applus+ Certification's verification team) has been approved by Applus+ Certification during the Contract Review process ensuring that the required skills and capabilities are covered.

The qualification levels for Assessment Team members that are assigned by aforementioned appointment rules are as presented below:

- Lead Auditor (LA).
- Auditor (A).
- Technical Expert (TE).
- Technical Reviewer (TR).
- Any of the above mentioned roles in training (iT, e.g. AiT for auditor in training).

The Sectoral Scope / Technical Area required knowledge linked to the applied methodology(ies) is covered by the Assessment Team as shown below:

Name	Role	SS/TA Knowledge	Financial Expertise	Attendance to on-site visit
Mr. Denny Xue	LA/ TE	YES (1.2)	n/a	YES
Mr. Simon Shen	TR /TE	YES (1.2)	n/a	n/a

A brief Curriculum Vitae (CV) of the Assessment Team members is provided below:

Denny Xue (Master Degree in Environmental Engineering, Bachelor Degree in Thermal Engineering) is a lead auditor appointed by Applus+ Certification for the GHG project assessment. He is based on Shanghai. He has 1.5 years of work experiences in CDM project development. Before he joined Applus+ Certification, he has been worked for Shanghai Chuanji Investment and Management which is a CDM consultancy company as a project manager for CDM project development.

Simon Shen (Master Degree in Thermal Energy Engineering, Bachelor Degree in Environmental Engineering) has been appointed as a Technical Reviewer by Applus+ Certification for the GHG project assessment. He is based in Shanghai. He has several years of work experience in environmental protection field. Before he joined Applus+ Certification, he had been worked for TÜV SÜD as a GHG Validator/Verifier and ISO 9001/14001 Lead Auditor for 3.5 years.

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Project owner	Monitoring Report, version 01	08/11/2016	Project participants
2	Project owner	Monitoring Report, version 03	26/09/2021	Project participants
3	Project owner	ER calculation spreadsheet	/	Project participants
4	Project owner	Registered PDD Version 03	31/07/2009	Project participants
5	Project owner	Revised PDD Version 05	26/09/2021	Project participants
6	Deloitte-TECO	Validation Report Version 3.0	27/12/2012	Others
7	Project owner	Nameplate of equipment and monitoring equipment	/	Project participants
8	UNFCCC	Information on UNFCCC:	http://cdm.unfccc.int/Projects/D/B/TECO1347605315.72/view	Others
9	Project owner	CDM management manual	/	Project participants
10	UNFCCC	CDM validation and verification standard for project activities version 02.0	/	Others
11	UNFCCC	ACM0002 version 12.2.0	/	Others
12	State Grid Jiangxi Electric Power Research Institute	Calibration certificate for M1, M1', M2 and M'	Covering the whole monitoring period	Others
13	Power Grid Company	Electricity Transaction Note (ETNs)	Covering the whole monitoring period	Others
14	Project owner	Monthly Reading Records	Covering the whole monitoring period	Project participants
15	National Energy Administration	Unit registration record	/	Others
16	Power Grid Company	Power Purchase Agreement (PPA)	/	Others
17	Project owner	Operational Log	Covering the whole monitoring period	Project participants
18	Jiangxi Quality and Technology Supervision Bureau	Accreditation Certificate for State Grid Jiangxi Electric Power Research Institute	From 01/04/2012 to 31/03/2015, from 01/04/2015 to 31/03/2018	Others
19	Jiangxi Provincial Water Resources and Hydropower Planning Survey and Design Institute	Statement issued by Jiangxi Provincial Water Resources and Hydropower Planning Survey and Design Institute	Covering the monitoring period	Others

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

Table 1. Remaining FAR from validation and/or previous verifications

FAR ID	xx	Section no.	E.2	Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

Table 2. CL from this verification

CL ID	01	Section no.	E.6.2	Date: 09/12/2016
Description of CL				
Please provide more clarification about how EG _{facility,y} is monitored, especially for the information flow of the data.				
Project participant response				Date: 09/12/2016
Electricity delivered to/imported from the CCPG by the project (EG _{facility,y}) will be measured continuously at the project site. In addition, the representatives of the grid company and the project will jointly read the main meters at 24:00 of the last day of each month. The recorded data will be confirmed by both parties with signatures, which is used for monthly electricity settlement.				
Documentation provided by project participant				
Updated MR				
DOE assessment				Date: 09/12/2016
After checking updated MR and site visit, it is confirmed in the updated MR, correct information regarding to information flow of monitored data has been included and confirmed to be in line with the real situation. CL01 is closed out.				

Table 3. CAR from this verification

CAR ID	01	Section no.	E.1	Date: 23/09/2021
Description of CAR				
The latest version template should be used for MR compiling.				
Project participant response				Date: 26/09/2021
The MR has been updated by using the latest version template.				
Documentation provided by project participant				
Updated MR				
DOE assessment				Date: 26/09/2021
By checking updated MR, it is confirmed MR has been updated by using the latest version template. CAR01 is closed out.				

CAR ID	01	Section no.	E.4	Date: 23/09/2021
Description of CAR				
The corrections due to the change of PDD template should be reflected in the PRC part.				
Project participant response				Date: 26/09/2021
The PDD has been updated based on latest version of PDD template and the corrections due to the change of template has been reflected in the updated MR.				
Documentation provided by project participant				
Updated MR				
DOE assessment				Date: 26/09/2021

By checking updated MR, it is confirmed the corrections due to the change of template has been reflected in the updated MR.
CAR02 is closed out.

Table 4. FAR from this verification

FAR ID	xx	Section No.		Date: DD/MM/YYYY
Description of FAR				
Project participant response				Date: DD/MM/YYYY
Documentation provided by project participant				
DOE assessment				Date: DD/MM/YYYY

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
04.0	6 April 2021	Revision to: <ul style="list-style-type: none">• Reflect the “Clarification: Regulatory requirements under temporary measures for post-2020 cases” (CDM-EB109-A01-CLAR).
03.0	31 May 2019	Revision to: <ul style="list-style-type: none">• Ensure consistency with version 02.0 of the “CDM validation and verification standard for project activities” (CDM-EB93-A05-STAN);• Make structural and editorial improvements.
02.1	11 January 2018	Editorial revision to correct the numbering of appendices in the instructions.
02.0	31 October 2017	Revision to align with the requirements of the “CDM validation and verification standard for project activities” (version 01.0).
01.0	23 March 2015	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Issuance Keywords: project activities, verifying and certifying		