



Validation report form for post-registration changes for CDM project 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 project activities" at the end of this form.

VALIDATION REPORT ON POST-REGISTRATION CHANGES (PRCs)

Title and reference number of the project activity	Rio Amoyá Run-of-River Hydro Project
Process track	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
Version number of the validation report on PRCs	02
Completion date of the validation report on PRCs	05/05/2016
Type(s) of PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan to a registered project activity <input checked="" type="checkbox"/> Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline <input type="checkbox"/> Changes to the project design of a registered project activity <input type="checkbox"/> Types of changes specific to afforestation and reforestation project activities
Version number of PDD to which this report applies	06
Project participant(s)	ISAGEN S.A. E.S.P.
Host Party	Colombia
Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)	Sectoral Scope 1: Energy industries (renewable - / non-renewable sources). Selected methodologies: ACM0002-version 12.1.0 "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"
Name of DOE	Spanish Association for Standardisation and Certification (AENOR)

Name, position and signature of the approver of the validation report on PRCs	 M ^a Carmen González Galán CDM Quality Manager
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SECTION A. Executive summary

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The Spanish Association for Standardisation and Certification (AENOR) has performed the first verification of the emissions reductions of the project "Rio Amoyá Run-of-River Hydro Project" (Registration Ref No. 3461) from 01/07/2012 until 31/05/2015 and during the on-site visit, a post-registration change was identified by the audit team. In this sense, AENOR has performed the assessment opinion on the post registration change identified for the project "Rio Amoyá Run-of-River Hydro Project".

The Rio Amoyá Run-of-River Hydro Project ("Project"), consists of a greenfield run-of-river power plant with a nominal capacity of 80 MW and an estimated generation of approximately 513.6 GWh/year, based on the projected generation resulting from engineering studies contracted by ISAGEN S.A. E.S.P. ("ISAGEN") in 1998 and 2005. The power plant is connected to the national grid through an 18.6 km transmission line.

The Project activity is located in the middle section of the Amoyá River Basin in the municipality of Chaparral, province of Tolima, Colombia. Chaparral is 262 Km from Colombia's capital, city of Bogota. The Amoyá River receives waters from the Páramo ecosystem of Las Hermosas.

The Project started its civil works on 16/06/2008. It was expected to start operation on 01/07/2011 and was expected to result in the reduction of about 1.2 million tCO₂e by 2018. However, due to the Colombian armed conflict – which delayed the construction of the project, the plant started commercial operation on 30/05/2013.

Scope of the Validation

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

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

- PDD and monitoring plan registered /1/2/.
- PDD revised (version 06) /4/5/
- Methodology: ACM0002 version 12.1.0 /6/
- CDM Validation and Verification Standard, version 09.0. /7/
- Clean Development Mechanism Project Cycle Procedure, version 09.0. /8/
- Clean Development Mechanism Project Standard, version 09.0. /9/
- Associated documentation (manufacturer documentation, design documentation, etc.)

The validation scope is defined as an independent and objective review of the post registration changes included in the revised project design document, including the monitoring plan and other relevant documents. The information in these documents is reviewed against Kyoto Protocol requirements, UNFCCC rules and associated interpretations. AENOR, based on the PCP, the PS and the VVS, has used a risk-based approach in the validation, focusing on the identification of significant risks for the project implementation and the generation of CERs.

The validation is not meant to provide any consultancy services to the Client. However, stated requests for clarification and/or corrective actions may provide input for improvement of the revised PDD.

Validation Process

The validation was performed through means of a compliance review of the requirements of validation and verification standard, Version 09.0, the applied methodology, and relevant CDM rules. The process of the verification includes:

- I. A desk review of the revised PDD and all support documents.
- II. Follow-up interviews and site inspection.
- III. The resolution of outstanding issues and the issuance of the validation report and statement.

According to Appendix 1 of the CDM Project Standard version 09.0, the changes detected for the project do not require Prior Approval because do not affect the design of the project activity and the change in the monitoring plan comply with the requirements of the applicable methodology.

It is AENOR opinion that no prior approval by the Board is necessary for this post registration change and therefore, according to paragraph 158 of the CDM Project Cycle Procedure version 09.0 /8/ AENOR is submitting the post registration changes for acceptance by the Board as part of the present request for issuance of CERs for the period 01/07/2012 until 31/05/2015.

AENOR confirms that the transfer of information from the old form of the PDD registered (CDM-PDD version 05) to the new form under VVS track (CDM-PDD Version 06.0) is totally correct and materially the same as the information in the PDD revised on 20/04/2016.

SECTION B. Validation team, technical reviewer and approver

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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	IR	Garro Flores	Freddy Alejandro	AENOR PERÚ	Yes	Yes	Yes	Yes
2.	Verifier	IR	Arribas Alonso	Luis Javier	AENOR	Yes	Yes	Yes	Yes
2.	Verifier	IR	Robles Olmos	Luis	AENOR	Yes	Yes	Yes	No

B.2. Technical reviewer and approver of the validation report on 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	González Galán	M ^a Carmen	AENOR

SECTION C. Means of validation

C.1. Desk review

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The desk review involved the assessment of the following documents:

- Project documentation: PDD registered /1/ and Validation Report /10/
- CDM project standard version 09.0 /9/ and CDM project cycle procedure version 09.0 /8/.
- CDM PDD form and the instruction for filling out the PDD /17/
- 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 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 first on-site inspection: 23/11/2015 to 25/11/2015				
No.	Activity performed on-site	Site location	Date	Team member
1.	<ul style="list-style-type: none"> Internal QA/QC procedures Organizational structure Implementation schedule of project activity Technical description of the project activity Verification of different data of the PDD and monitoring report Review of the monitoring report and emission reduction calculations Verification of electricity sector regulation change Clarifications related to monitoring procedures Verification of electrical energy generation reports Check calibration frequency against calibration meters certificates Verification of the social and environment actions carried out during the monitoring period 	ISAGEN S.A. E.S.P. headquarters	23/11/2015	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
2.	<ul style="list-style-type: none"> Review of operating and measurement records. Generation data validation Estimates and assumptions for determining GHG data Controls established to detect and correct any error or omission in monitoring parameters Testing of monitoring equipment and observation of monitoring practices Calibration of official meters Interviews with data providers and process engineers Training records 	Río Amoyá Hydropower Plant	24 to 25/11/2015	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso

Duration of second on-site inspection: 09/03/2016 to 10/03/2016				
No.	Activity performed on-site	Site location	Date	Team member
1.	<ul style="list-style-type: none"> Internal QA/QC procedures Organizational structure Implementation schedule of project activity Technical description of the project activity Verification of different data of the PDD and monitoring report Review of the monitoring report and emission reduction calculations Estimates and assumptions for determining GHG data Controls established to detect and correct any error or omission in monitoring parameters Generation data validation Verification of electricity sector regulation change 	Río Amoyá Hydropower Plant	09 to 10/03/2016	Freddy Alejandro Garro Flores Luis Robles Olmos

	<ul style="list-style-type: none"> • Clarifications related to monitoring procedures • Verification of electrical energy generation reports • Check calibration frequency against calibration meters certificates • Review of operating and measurement records. • Interviews with data providers and process engineers • Training records • Observation of monitoring practices 			
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C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Montoya Londoño	Miguel Angel	Environmental Coordinator - ISAGEN	23 to 25/11/2015	Internal QA/QC procedures. Organizational structure. Verification of different data of the PDD and monitoring report. Review of the monitoring report and ER calculations. Verification of the social and environment actions.	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
2.	Cely	Hugo	Operations Coordinator – Amoyá hydropower plant	23 to 25/11/2015	Technical description. Check calibration frequency against calibration meters certificates. Testing of monitoring equipment and observation of monitoring practices.	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
3.	Cardona	Hugo Felipe	Hydrology - Amoyá hydropower plant	25/11/2015	Technical description.	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
4.	Echeverri	David	Operation and Maintenance Assistant - Amoyá hydropower plant	24/11/2015	Review of operating and measurement records. Controls established to detect and correct any error or omission in	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso

					monitoring parameters.	
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5.	Bolívar	Jorge	Operation and Maintenance Assistant - Amoyá hydropower plant	24/11/2015	Review of operating and measurement records. Controls established to detect and correct any error or omission in monitoring parameters.	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
6.	Posada Aristizábal	Luis Alberto	Research and Development Manager - ISAGEN	23/11/2015	Verification of electricity sector regulation change	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
7.	Roldán Vásquez	Paola Andrea	Research and Development - ISAGEN	23 to 25/11/2015	Internal QA/QC procedures. Review of the monitoring report and emission reduction calculations. Estimates and assumptions for determining GHG data. Training records.	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
8.	Gonzales	Jorge Orlando	Commercial Area - ISAGEN	23/11/2015	Internal QA/QC procedures. Generation data validation.	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
9.	Sánchez Lotero	Carlos Mario	Sustainability and Climate Change Consultant – PwC	23 to 25/11/2015	Internal QA/QC procedures. Review of the monitoring report and emission reduction calculations. Clarifications related to monitoring procedures. Estimates and assumptions for determining GHG data.	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
10.	Salas Pajón	Sergio	Climate Change Senior Manager - PwC	23/11/2015	Verification of different data of the PDD and monitoring report. Clarifications related to monitoring procedures.	Freddy Alejandro Garro Flores Luis Javier Arribas Alonso
11.	Cely	Hugo	Operations Coordinator – Amoyá hydropower plant	09 to 10/03/2016	Internal QA/QC procedures. Organizational structure. Technical description of the	Freddy Alejandro Garro Flores Luis Robles Olmos

					<p>project activity. Estimates and assumptions for determining GHG data. Controls established to detect and correct any error or omission in monitoring parameters. Verification of electrical energy generation reports. Check calibration frequency against calibration meters certificates. Interviews with data providers and process engineers. Observation of monitoring practices.</p>	
12.	Roldán Vásquez	Paola Andrea	Research and Development - ISAGEN	09 to 10/03/2016	<p>Internal QA/QC procedures. Verification of different data of the PDD and monitoring report. Review of the monitoring report and emission reduction calculations. Generation data validation. Verification of electricity sector regulation change. Clarifications related to monitoring procedures. Review of operating and measurement records. Training records.</p>	<p>Freddy Alejandro Garro Flores</p> <p>Luis Robles Olmos</p>

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 PDD form	-	-	-
Temporary deviations from the registered monitoring plan,	-	-	-

monitoring methodology or standardized baseline			
Corrections	-	CAR 1	-
Changes to the start date of the crediting period	-	-	-
Inclusion of a monitoring plan to a registered project activity		-	-
Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline	-	-	-
Changes to the project design of a registered project activity	-	-	-
Types of changes specific to afforestation and reforestation project activities	-	-	-
Others (please specify)	-	-	-
Total	-	1	-

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	The compliance of the revised PDD with the valid version of the applicable PDD form was verified through desk-review of last version of revised PDD (version 06) /4/5/, last version of applicable PDD form /17/, CDM rules and references and supported documents provided by the project participants.
Findings	No finding was raised regarding this issue.
Conclusion	In AENOR's opinion the revised PDD submitted for the request for approval of changes (in both track-change and clean version) was completed using the valid version of the applicable PDD form and has followed the instructions for filling attached at the end of the form. Finally, AENOR confirms that the transfer of information from the old form of the PDD registered (CDM-PDD version 05) to the new form under VVS track (CDM-PDD Version 06.0) is totally correct and materially the same as the information in the PDD revised dated on 20/04/2016. The changes that are the subjects of the request for approval have been highlighted (track-changes version).

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

Means of validation	N/A
Findings	N/A
Conclusion	N/A

D.3. Corrections

Means of validation	<p>A visual inspection of the facilities of the project activity and documental review were carried out during the on-site visits, the audit team identified that there were some typographical errors in the project description, data updates regarding name of project participants and Colombian dispatch center, and other changes due to the postponing the start date by up to one year.</p> <p>For this reasons, it is considered that the project description is not in compliance with the registered PDD.</p> <p>According to the revised PDD the PP has made the following corrections:</p> <ul style="list-style-type: none"> • Correction in the length of the transmission line of 18 km to 18.6 km. • Correction in the number of the apparent power of the synchronous generator of 43.33 MVA to 45.7 MVA. • Correction regarding withdrawal of the International Bank for Reconstruction and Development (IBRD) as Trustee of the Netherlands CDM Facility (NCDMF) • Correction of the official web site and the name of the National Dispatch Center (CND) by XM (Experts Company Market) • Correction of the ex-ante emission reduction calculation and start date of crediting period. <p>During the verification process, AENOR team requested project participants to provide information in order to explain the corrections. The following evidence was provided:</p>
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	<ul style="list-style-type: none"> • Design line diagram of the project activity /11/ • Environmental licence for the transmission line /12/ • Efficiency report of the hydropower plant /13/ • MoC requesting the withdrawal of an initial PP /14/ • Confirmation of the postponing of the start date of the crediting period /15/ • Web page of Colombian dispatch center (http://www.xm.com.co/Pages/default.aspx) <p>According to the evidence provided by the PP all the corrections are clearly stated in the revised PDD and the relevant issues were clarified. The AENOR team assessed the revised PDD and clarifications as below.</p> <p>Therefore, the revised PDD includes the corrections mentioned above to clearly describe the correct information of the project activity.</p>
Findings	<p>A corrective action request (CAR 1) was raised regarding some inconsistencies in the project description as per the registered PDD:</p> <p><i>The audit team verified that there has been a deviation of the monitoring plan and minor corrections of the project information as described in the registered PDD.</i></p> <p><i>A delay in the date of implementation of the project has been identified in comparison with the start date of the crediting period of the registered PDD.</i></p>
Conclusion	<p>The audit team has revised the corrections made to project information as per the evidence provided and determined that the corrected information is an accurate reflection of actual project due to the following reasons:</p> <ul style="list-style-type: none"> • The length of the transmission line is a typographical error since the actual value is also stated in other sections of the registered PDD and was known before the publication of the PDD for global stakeholder consultation. The value of the length of the transmission line has been verified after the implementation of the project activity by the efficiency report. • The number of the apparent power of the synchronous generator is a typographical error since the actual number was determined in the design phase of the project activity before the issue of the validation report. The number of the apparent power of the synchronous generator has been verified after the implementation of the project activity by the efficiency report. Based on sectoral expertise of audit team and review of engineering studies of power generation potential of the project activity used for validation /18/, the apparent power of synchronous generator was not a parameter used in the estimation of power generation potential; therefore, the estimated annual power generation of 513.6 GWh/year is not affected by this correction. • The withdrawal of one project participant is considered an update of the names stated in the registered PDD in order to be consistent with the MoC information. The withdrawal of this project participant has been confirmed in the UNFCCC web page. • The official web site and the name of CND are considered an update of the data and names stated in the registered PDD in order to be consistent with the same name stated in other sections of the registered PDD and the actual information. The official web site and the actual name of CND have been confirmed in the XM web page. • The ex-ante emission reduction calculation and start date of crediting period are considered an update of the data stated in the registered PDD in order to be consistent with the actual information due to the postponing the start date by up to one year. The postponing of this date has been confirmed in the UNFCCC web page /15/. <p>Therefore, the corrections that do not affect the design of the project activity and therefore they do not require prior approval by the Board in accordance with the Appendix 1 of the PS, therefore, the request for issuance of CERs for the period 01/07/2012 until 31/05/2015 is submitted jointly in this assessment opinion.</p>

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

Means of validation	N/A
Findings	N/A
Conclusion	N/A

D.5. Inclusion of a monitoring plan to a registered project activity

Means of validation	N/A
Findings	N/A
Conclusion	N/A

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

Means of validation	<p>In addition to the corrections mentioned above, the audit team identified that the crosscheck procedure stated in the registered PDD is not in accordance with the monitoring requirement of the applied methodology. The registered PDD indicates that to cross check the metering, the electricity generated will be measured at the plant substation at 13.8 kV and the measure will be corrected by taking into account the transmission losses based on the technical specifications of the transmission line. For this reason, it is considered that the monitoring plan is not in compliance with the applied methodology which clearly states that cross check measurement shall be applied against records for sold electricity.</p> <p>According to the revised PDD the PP has made the following change of the cross check description in the monitoring plan:</p> <ul style="list-style-type: none"> To cross-check the electricity delivered by the Amoyá Hydroelectric Power Plant to the grid, the hourly energy measured per day in the commercial frontier in Tuluní Substation, must be compared with the last XM report published. <p>During the verification process, AENOR team requested project participants to provide information in order to explain the actual cross check procedure and the reports of sold electricity from the XM /16/ were provided. According to the evidence provided, the DOE has verified that the change to the registered monitoring plan described in the revised PDD, is in compliance with the applied methodology and do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan. Also, the change of the cross check procedure is not likely to lead to a reduction in the accuracy of the calculation of emission reductions</p>
Findings	<p>A corrective action request (CAR 1) was raised regarding a change in the monitoring plan as per the registered PDD:</p> <p><i>The audit team verified that there has been a deviation of the monitoring plan and minor corrections of the project information as described in the registered PDD.</i></p> <p><i>A delay in the date of implementation of the project has been identified in comparison with the start date of the crediting period of the registered PDD.</i></p>
Conclusion	<p>In AENOR's opinion the change is considered as a more accurate practice for monitoring equipment due to it takes into consideration official information from electricity regulator instead of calculations made by the PP.</p> <p>Therefore, the proposed change comply with the relevant requirements related to the permanent changes from the registered monitoring plan (Appendix 1 of the PS) and therefore they do not require prior approval by the Board in accordance with the Appendix 1 of the PS, therefore, the request for issuance of CERs for the period 01/07/2012 until 31/05/2015 is submitted jointly in this assessment opinion.</p>

D.7. Changes to the project design of a registered project activity

Means of validation	N/A
Findings	N/A
Conclusion	N/A

D.8. Types of changes specific to afforestation and reforestation project activities

Means of validation	N/A
Findings	N/A
Conclusion	N/A

SECTION E. Internal quality control

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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 project activity. The technical reviewer or the team appointed for the technical review is qualified in the technical area(s) and sectoral scope(s) of the project activity.

SECTION F. Validation opinion

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AENOR was contracted to perform the first verification of the emission reduction of the project "Rio Amoyá Run-of-River Hydro Project" (Registration Ref. N° 3461) for the monitoring period from 01/07/2012 to 31/05/2015 and during the on-site visits, some post-registration changes were identified by the audit team.

AENOR has performed the validation opinion on the post registration changes identified for the project "Rio Amoyá Run-of-River Hydro Project" according to the methodology "ACM0002" Version 12.1.0: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources", VVS (Version 09.0), PS (version 09.0) and PCP (Version 09.0).

AENOR planned and performed its work to obtain the information and explanations considered necessary to provide sufficient evidence to give reasonable assurance to the level of accuracy of GHG emission reductions. This assessment opinion is prepared on the basis of the monitoring plan included in the revised PDD and compared with monitoring plan of the project activity which is not adversely affected. This assessment included:

- Collection of evidence supporting the reported data
- Checking whether the provisions of the monitoring plan in the revised PDD, were consistently and appropriately applied.

This revision improves the accuracy of information provided and consistency in the revised PDD and the monitoring plan.

Furthermore, AENOR confirms that:

The proposed revision issues have been described, and an assessment has been provided to substantiate the reason for the proposed revision issues of the revised PDD and monitoring plan, using objective evidence.


The proposed post-registration changes ensure that the level of accuracy or completeness in the monitoring and verification process is not reduced as a result of the revisions.

The proposed post-registration changes are in accordance with the approved monitoring methodology applicable to the project activity and ensuring the conservativeness of the emission reductions calculation.

Madrid, 05 May 2016



Mª Carmen González Galán
CDM Quality Manager

A handwritten signature in purple ink, reading "Freddy Garro". The signature is stylized with a large initial 'F' and a long horizontal stroke at the end.

Freddy Alejandro Garro Flores
Team leader

Appendix 1. Abbreviations

Abbreviations	Full texts
ACM0002	Consolidated baseline methodology for grid-connected electricity generation from renewable sources version 12.1.0
AENOR	Spanish Association for Standardisation and Certification
CAR	Corrective action request
CDM	Clean Development Mechanism
CER	Certified Emission Reductions
CL	Clarification Request
CMP	Conference of the Parties serving as the Meeting of the Parties to the Kyoto Protocol
CND	National Dispatch Center
CO ₂	Carbon Dioxide
CO ₂ e	Carbon dioxide equivalent
DOE	Designated Operational Entity
EB	Executive Board of the CDM of the Kyoto Protocol
ER	Emission Reductions
FAR	Forwarded Action Requested
GHG	Greenhouse Gases
GWh	Gigawatt per hour
km	kilometres
kV	Kilovolts
MoC	Modalities of communication
MP	Monitoring Plan
MR	Monitoring Report
MVA	Megavolt ampere
MW	Megawatt
N/A	Not Applicable
PA	Project Activity
PCP	Clean Development Mechanism Project Cycle Procedure(version 09.0)
PDD	Project Design Document
PP	Project Participants
PS	Clean Development Mechanism Project Standard (version 09.0)
QC/QA	Quality Control/Quality Assurance
tCO ₂ e	Carbon dioxide equivalent tonnes
UNFCCC	United Nations Framework Convention on Climate Change
VVS	CDM Validation and Verification Standard (version 09.0)
XM	Experts Company Market

Appendix 2. Competence of team members and technical reviewers

Necessary skills and competences to undertake the validation are confirmed by the qualification certificate of all team involved in the process.

CERTIFICATE OF QUALIFICATION

Subject: Validation and Technical Review Team for "Rio Amoyá Run-of-River Hydro Project"

Madrid, 05/05/2016

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 validation process of the above mentioned project activity:

Name: Freddy Alejandro GARRO FLORES

CDM Team Leader: Yes

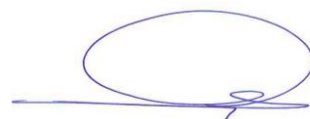
CDM Validator: Yes

CDM Technical Reviewer: N/A

External Technical Expert: N/A

Technical areas related with the project activity:

TA1.2: Renewables



Luis Robles Olmos
Authorised person

CERTIFICATE OF QUALIFICATION

Subject: Validation and Technical Review Team for "Rio Amoyá Run-of-River Hydro Project"

Madrid, 05/05/2016

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 validation process of the above mentioned project activity:

Name: Luis Javier ARRIBAS ALONSO

CDM Team Leader: N/A

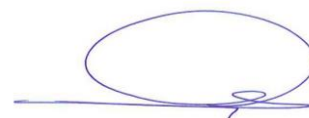
CDM Validator: Yes

CDM Technical Reviewer: N/A

External Technical Expert: N/A

Technical areas related with the project activity:

TA1.2: Renewables



Luis Robles Olmos
Authorised person

CERTIFICATE OF QUALIFICATION

Subject: Validation and Technical Review Team for "Rio Amoyá Run-of-River Hydro Project"

Madrid, 05/05/2016

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 validation process of the above mentioned project activity:

Name: Luis ROBLES OLMOS

CDM Team Leader: N/A

CDM Validator: Yes

CDM Technical Reviewer: N/A

External Technical Expert: N/A

Technical areas related with the project activity:

TA1.2: Renewables



M^a Carmen González Galán
CDM Quality Manager

CERTIFICATE OF QUALIFICATION

Subject: Validation and Technical Review Team for "Rio Amoyá Run-of-River Hydro Project"

Madrid, 05/05/2016

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 validation process of the above mentioned project activity:

Name: Elena LLORENTE PEREZ

CDM Team Leader: N/A

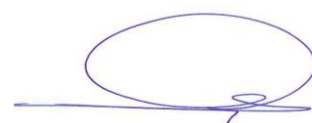
CDM Validator: N/A

CDM Technical Reviewer: Yes

External Technical Expert: N/A

Technical areas related with the project activity:

TA1.2: Renewables



Luis Robles Olmos
Authorised person

Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	PP	PDD registered, version 05, dated 20/01/2011	/1/	UNFCCC Website
2	PP	Registered monitoring plan, dated 20/01/2011	/2/	UNFCCC Website
3	AENOR	Validation, Verification and Certification of Clean Development Mechanism (CDM) Project	/3/	AENOR

		Activities (IE/DTC/039)		
4	PP	PDD revised (clean version), version 06, dated 20/04/2016	/4/	PP
5	PP	PDD revised (tracked change), version 06, dated 20/04/2016	/5/	PP
6	CDM-EB	ACM0002 version 12.1.0: "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"	/6/	UNFCCC Website
7	CDM-EB	CDM Validation and Verification Standard, version 09.0	/7/	UNFCCC Website
8	CDM-EB	CDM Project Cycle Procedure, Version 09.0	/8/	UNFCCC Website
9	CDM-EB	CDM Project Standard, version 09.0	/9/	UNFCCC Website
10	ICONTEC	Validation report, revision 6, dated 02/02/2011	/10/	UNFCCC Website
11	PP	Design line diagram of the project activity, dated 11/03/2009	/11/	PP
12	CORTOLIMA	Resolution 2145 "Environmental licence for the transmission line", dated 31/08/2009	/12/	PP
13	VOITH	Efficiency report of Río Amoyá hydroelectric project, dated 19/12/2013	/13/	PP
14	PP	MoC requesting the withdrawal of the International Bank for Reconstruction and Development (IBRD) as Trustee of the Netherlands CDM Facility (NCDMF), dated 13/08/2014	/14/	PP
15	UNFCCC	Confirmation of the postponing of the start date of the crediting period, dated 18/01/2016	/15/	PP
16	XM	Reports of sold electricity	/16/	XM website
17	CDM-EB	Project design document form for CDM project activities, version 07, dated 15/04/2015	/17/	UNFCCC Website
18	INGETEC / SEDIC	Engineering studies to measure the hydraulic potential of Amoyá. INGETEC 1998 and SEDIC 2005	/18/	PP

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

Table 1. CL from this validation

CL ID	N/A	Section no.	N/A	Date: DD/MM/YYYY
Description of CL				
N/A				
Project participant response				Date: DD/MM/YYYY
N/A				
Documentation provided by project participant				
N/A				
DOE assessment				Date: DD/MM/YYYY

N/A

Table 2. CAR from this validation

CAR ID	01	Section no.	D.3 and D.6	Date:	01/12/2015
Description of CAR					
<p><i>The audit team verified that there has been a deviation of the monitoring plan and minor corrections of the project information as described in the registered PDD.</i></p> <p><i>A delay in the date of implementation of the project has been identified in comparison with the start date of the crediting period of the registered PDD.</i></p>					
Project participant response					Date: 22/12/2015
A revised PDD and updated monitoring report have been provided with the respective evidence.					
Documentation provided by project participant					
<p>“Acta Liquidacion Final - Contrato 46_3415_Linea de Conexión”-.</p> <p>“AMOY-TIV00-0000-TR_Index test_report Informe eficiencia turbina”.</p> <p>UNFCCC Website (https://cdm.unfccc.int/Projects/DB/ICONTEC1267618553.66/view)</p> <p>Rio Amoyá Run-of-River Hydro Project_PDD_ Clean version</p> <p>Rio Amoyá Run-of-River Hydro Project_PDD_ with changes</p> <p>Rio Amoyá Run-of-River Hydro Project_Clean_Monitoring Report</p>					
DOE assessment					Date: 01/02/2016
<p>Since the postponing of the crediting period was finally for up to one year, paragraph 280 of PS does not apply. The PP decided to notify the Secretariat of the change in the starting date of the crediting period according to paragraph 279 (b) of PS version 09. Therefore, it is not required prior approval from the Board and this change is not included in the validation report for post-registration changes according to paragraph 149 of PCP version 09.</p> <p>Corrections in documents provided are correct. CAR 1 is closed.</p>					

Table 3. FAR from this validation

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