




**Validation report form for post-registration changes for
component project activities
(Version 02.0)**

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

BASIC INFORMATION

Title and UNFCCC reference number of the component project activity (CPA)	Title: CPA2_Nam Tha 4 Hydropower Project Reference Number: 6810-P1-0003-CP1
Version number of the validation report	1.0
Completion date of the validation report	12/01/2021
Version number of PoA-DD and CPA-DD applicable to this validation report	PoA-DD: v.09 CPA-DD: v.09
Title and UNFCCC ref. no. of the registered PoA into which the CPA is included	Title: Vietnam Renewable Energy Development Program (REDP) Reference Number: 6810
Type(s) of CPA PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents <input type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of monitoring plan <input checked="" type="checkbox"/> Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents <input type="checkbox"/> Changes to the project design <input type="checkbox"/> Changes specific to afforestation and reforestation activities
Coordinating/managing entity (CME)	Ministry of Industry and Trade of Viet Nam (MOIT)
Host Parties	Viet Nam
Applied methodologies and standardized baselines	Methodology: ACM0002 ver. 13.0.0: Consolidated baseline methodology for grid-connected electricity generation from renewable sources Standardised Baselines: N/A
Mandatory sectoral scopes	1
Conditional sectoral scopes, if applicable	-
Name and UNFCCC reference number of the DOE	Name: TÜV NORD CERT GmbH (TÜV NORD) Ref. No.: E-0022
Name, position and signature of the approver of the validation report	 Stefan Winter Final Approval

SECTION A Executive summary

The Ministry of Industry and Trade of Viet Nam (MOIT) has commissioned the TÜV NORD JI/CDM Certification Program (CP) to assess post registration changes of the CPA (UNFCCC Reference: 6810-P1-0003-CP1)

“CPA2_Nam Tha 4 Hydropower Project”

The appropriateness of the proposed post registration changes at CPA level is assessed in this report.

Essential data of the project is presented in the following Table 1.

Table 1: Project Characteristics

No. CPA # 2	Project Location	
UNFCCC number	6810-P1-0003-CP1	
Title	Nam Tha 4 Hydropower Project	
Host Country	Viet Nam	
Region:	Lao Cai Province	
Project location address:	Nam Tha commune, Van Ban district	
Latitude:	PH: 21.885 ⁰ N	Reservoir: 21.887 ⁰ N
Longitude:	PH: 104.341 ⁰ E	Reservoir: 104.331 ⁰ E

CPA2 is Nam Tha 4 HPP consists of 2 units of 8.5 MW for each generator with a total installed capacity of 17 MW. The expected annual electricity for export to the Vietnam national grid is 58,017MWh.

The key parameters of CPA2 are given in Table A-2.2 below:

Table A-2.2: Technical data of the component project activity

Parameter	Unit	Value
Turbine		
Manufacturer	-	Guglar Water Turbines GmbH Austria
Type	-	Francis turbine
Model	-	FSP735
Rated capacity	MW	8.734 each
No of Units		02
Generator		
Manufacturer	-	Gamesa Electric
Model	-	PO 1000-I1C6
Rated Capacity	MW	8.5 each (10,000kVA)
Rated Voltage	kV	6.3
Rated Power Factor	cosφ	0.85
No. of units	-	02

For a detailed project description please refer to the registered CPA-DD

SECTION B. Validation team, technical reviewer and approver

On the basis of a competence analysis and individual availabilities an assessment team, consistent of one team leader and team leader is also the team member, were appointed. Furthermore, also the personnel for the technical review and the final approval were determined.

The list of involved personnel, the tasks assigned and the qualification status are summarized in the following table below.

B.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Document review	On-site inspection	Interviews	Validation findings
1.	Team Leader/Technical Expert	EI	Cheong	Chun Yuen (Robert)	TUV NORD Malaysia	x	x	x	x

B.2. Technical reviewer and approver of the validation report on CPA 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	EI	Lubanga	David	-
2	Approver	IR	Winter	Stefan	TN CERT GmbH

SECTION C. Means of validation**C.1. Document review**

The assessment of post registration changes consisted of the following steps:

- Appointment of team members and technical reviewers
- A desk review of the registered and revised PoA-DD, which includes the generic CPA-DD, CPA2 CPA-DD submitted by the client and additional supporting documents
- Background investigation and follow-up interviews with personnel of the project developer
- Resolution of corrective actions (CARs / CLs) (if any)
- Final reporting
- Technical review
- Final approval.

The registered as well as the revised PoA-DD and CPA-DD and supporting background documents related to the project design and the post registration changes were reviewed.

As far as required the assessment team used additional documentation by third parties like host party legislation, technical reports referring to the project design or to the basic conditions and technical data.

A list all documents reviewed or referenced during this validation is presented in Appendix 3

C.2. On-site inspection

Duration of on-site inspection:				
No.	Activity performed on-site	Site location	Date	Team member
1.	NA	NA		NA

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	NA					

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 CPA-DD form	0	0	0
Temporary deviations from the registered monitoring plan, applied methodologies or applied standardized baselines	0	0	0
Corrections	0	0	0
Changes to the start date of the crediting period	0	0	0
Inclusion of monitoring plan	0	0	0
Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other applied standards or tools	0	0	0
Changes to the project design	0	0	0
Changes specific to afforestation and reforestation project activities	0	0	0
Others (please specify)	0	0	0
Total	0	0	0

SECTION D. Validation findings**D.1. Compliance with CPA-DD form**

Means of validation	<p>The project participants used a later version of the CPA-DD form for the revised CPA-DD than the version of the CPA-DD form of the registered CPA-DD. By means of checking updated CPA-DD with the latest applicable and available CPA-DD PDD template form the validation team can confirm that the information transferred to the later version of the CPA-DD form is materially the same as that in the registered CPA-DD besides those changes in track change and assessed under this report.</p> <p>Further it has been checked whether the latest instructions for filling out the CPA-DD template have been followed. Every section has been checked against the respective guidance.</p> <p>The following sources of information have been used in this context:</p> <ul style="list-style-type: none"> • /CPADDT/ • /CPA-DD/ • /unfccc/
Findings	-
Conclusion	The updated CPA-DD both in tracked-change and clean version is in line with the latest applicable CPA-DD form. The validation team can conclude that the information transferred to the later valid version of the form is materially the same as that in the included CPA-DD.

D.2. Temporary deviations from the registered monitoring plan, applied methodologies, standardized baselines or other methodological regulatory documents

Means of validation	NA The section is left blank intentionally
Findings	
Conclusion	

D.3. Corrections

Means of validation	Description of post registration change			
	Start Date: Please provide the start date of the change	DD/MM/YYYY	End Date: Please provide the end date of the change, if applicable	DD/MM/YYYY
	Description: Please give a detailed description of the change(s)	n.a.		
	Assessment of post registration change – Corrections			
	Accuracy: Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.			
	Conservative-ness: Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.			
	Appendix 2 PS: Check if the changes fall under one of the scenarios of Appendix 2 of the PS for PoA.			
Findings				
Conclusion	Based on the above the corrections to the registered CPA-DD are in accordance with applicable validation requirements related to the corrections in the VVS for PoA.			
	Revised PoA DD and/or CPA DD			
	Rev. of PoA DD and/or CPA DD: Check whether the changes have been fully addressed in a revised PoA DD and/or CPA DD.	<input type="checkbox"/>	The changes have correctly been reflected in the revised CPA DD.	
		<input type="checkbox"/>	A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes).	
		<input type="checkbox"/>	The revised for CPA DD has been forwarded in (i) track-change and (ii) clean version.	
	Prior Approval			
	Prior approval: Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval	
		<input type="checkbox"/>	The post registration change does not require prior approval	

D.4. Changes to the start date of the crediting period The section is left blank intentionally

Means of validation	Description of post registration change			
	Start Date: Please provide the registered start date of the CP.	DD/MM/YYYY	Revised Start Date: Please provide the proposed revised start date of the CP	DD/MM/YYYY

	Description: Please give a detailed description /reasoning of the requested revision of CP starting date:		N/A The section is left blank intentionally	
	LDC: Please check if the host country is an LDC. In case of LDCs the timeframes of the below defined categories are to be doubled.	<input type="checkbox"/>	The host country is a LDC	
		<input type="checkbox"/>	The host country is not a LDC	
	Categories: Please check under which category - as defined below – the requested changes fall. In case of LDCs the timeframes are to be doubled.	<input type="checkbox"/>	Category A: $> \pm 2$ a	
		<input type="checkbox"/>	Category B: $< \pm 1$ a; not before registration date	
		<input type="checkbox"/>	Category C: $(SD_{old} \pm 1 \text{ a}) \leq SD_{new} \leq (SD_{old} \pm 2 \text{ a})$	
	Assessment of post registration change			
	Cat. A: $> \pm 2$ a Changes of start date of more than 2 years (4 years for LDCs) are not allowed as per the PS.	<input type="checkbox"/>	The change is a cat. A case. The change of the CP start date as requested by the PP is not allowed as per the PS. Thus a corresponding CAR has been raised.	
	Cat. B: $< \pm 1$ a Prior notification is not required if changes of less than 1 year are requested. The CP start date shall not be earlier than the date of the project registration.	<input type="checkbox"/>	The change is a cat. B case. The proposed new CP start date differs less than ± 1 year (2 years in case of LDCs) from the registered CP start date. Furthermore it is confirmed that the proposed new CP start date is not before the registration date of the PA. Thus a prior approval is not required.	
	Cat. B: $\pm 1 \text{ a} < SD < \pm 2 \text{ a}$ Check whether the project falls under this category. If yes prior approval is required. The assessment team shall assess on the basis of a demonstration by the PPs whether the conservativeness of the baseline is not affected by changes that have occurred in-between. Further it has to be assessed, whether substantive progress has been made by the PPs to start the project activity.	<input type="checkbox"/>	The change is a cat. C case.	
<input type="checkbox"/>		The PPs have provided the assessment team with a sufficient demonstration regarding (i) potential effects on the baseline and (ii) progress made to start the project.		
<input type="checkbox"/>		On the basis of a detailed analysis of the PP's demonstration as well as background investigation (incl. on-site inspection) the assessment team confirms that no changes have occurred to the PA which would result in a less conservative baseline. This assessment is based on the following considerations:		
	<input type="checkbox"/>	On the basis of a detailed analysis of the PP's demonstration as well as background investigation (incl. on-site inspection) the assessment team confirms that substantive progress has been made by the PPs to start the PA. This assessment is based on the following considerations:		
Findings	N/A			
Conclusion	Based on the assessment above the changes to the start date of the crediting period are in accordance with applicable validation requirements related to the changes to the start date of the crediting period in the VVS for PoA.			
	Revised PoA DD and/or CPA DD			
	Rev. of PoA DD and/or CPA DD: Check whether the changes have been	<input type="checkbox"/>	The changes have correctly been reflected in the revised PoA DD and/or CPA DD.	
	<input type="checkbox"/>	A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes).		

	fully addressed in a revised PoA DD and/or CPA DD.	<input type="checkbox"/>	The revised PoA DD and/or CPA DD has been forwarded in (i) track-change and (ii) clean version.
	Prior Approval		
	Prior approval:	<input type="checkbox"/>	The post registration change requires prior approval
	Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change does not require prior approval

D.5. Inclusion of monitoring plan The section is left blank intentionally

Means of validation	Description of post registration change			
	Start Date: Please provide the start date of the change	DD/MM/YYYY	End Date: Please provide the end date of the change, if applicable	DD/MM/YYYY
	Description: Please give a detailed description of the change(s)	N/A The section is left blank intentionally		
	Assessment of post registration change – Inclusion of a MP			
	MM compliance: Please check in case of changes to the registered MP, whether they are in compliance with the MM.			
	Later version of MM: Please check in cases where compliance with a later version of the MM is demonstrated that the conservativeness of the monitoring and verification is not affected.			
	Accuracy: Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.			
	Conservative-ness: Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.			
	Appendix 2 PS: Check if the changes fall under one of the scenarios of Appendix 2 of the PS for PoA.			
Findings				
Conclusion				
Based on the above stated the inclusion of a monitoring plan to the registered project activity is in accordance with applicable validation requirements related to the inclusion of a monitoring plan to a registered project activity in the VVS for PoA.				
Revised PoA DD and/or CPA DD				

	Rev. of PoA DD and/or CPA DD: Check whether the changes have been fully addressed in a revised PoA DD and/or CPA DD.	<input type="checkbox"/>	The changes have correctly been reflected in the revised PoA DD and/or CPA DD.
		<input type="checkbox"/>	A revision of the PoA DD and/or CPA DD is not required (in case of temp. changes).
		<input type="checkbox"/>	The revised PoA DD and/or CPA DD has been forwarded in (i) track-change and (ii) clean version.
	Prior Approval		
	Prior approval: Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval
		<input type="checkbox"/>	The post registration change does not require prior approval

D.6. Permanent changes to the registered monitoring plan, or permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents

Means of validation	Type of change(s):	<input checked="" type="checkbox"/>	<i>Permanent Change(s) to the registered Monitoring Plan</i>	
		<input type="checkbox"/>	<i>Permanent deviation of monitoring from the applied methodologies, standardized baselines, or other methodological regulatory documents</i>	
	Description of post registration change			
	Start Date: Please provide the start date of the change	01/01/2019	End Date: Please provide the end date of the change, if applicable	n.a.
	Description: Please give a detailed description of the change(s)	<p>The calibration frequency for the main and back-up meters is changed from 1 year to 2 years from 2016 until 31/12/2019 and from 01/01/2020, the calibration frequency will be changed to 3 years.</p> <p>The change of the calibration frequency from 1 year to 2 years due to the change required by the grid company is described in Appendix C of the revised power purchase agreement signed between the CPA implementer and the grid company in 2016.</p> <p>The revised power purchase agreement has been reviewed in detail to verify the change in the calibration frequency. /PPA/</p> <p>The calibration frequency for further change from 2 years to 3 years as from 01/01/2020 is described in Circular No. 07/2019/TT-BKHCN dated 26/07/2019 issued by the Ministry of Science and Technology, Electricity of Vietnam – Northern Power Corporation letter No. 2791/EVNNPC-KD dated 05/06/2020 requesting all IPPs having signed PPAs with Northern Power Corporation to sign an additional appendix to PPAs for change of frequency of meter calibration; /PPA/C072019/</p> <p>Nam Tha 4 CPA implementer has signed the additional Appendix No. 6 to PPA on 05/08/2020 with the grid company for the change of the calibration frequency to 3 years.</p> <p>The circular has been reviewed and verified to crosscheck the change of calibration frequency to 3 years with effect from 01/01/2020. /C072019/</p> <p>The change of the calibration frequency is beyond the control of the CPA implementer due to host country national regulations requirements.</p> <p>Therefore, the CPA implementer has to comply with the revised national regulations requirements.</p>		

		In addition, there are some editorial changes that do not impact the CPA.
	Assessment of post registration change – Permanent changes to the registered MP or permanent deviation of monitoring from the MM	
	MM compliance: Please check in case of changes to the registered MP, whether they are in compliance with the MM.	The change of the calibration frequency has no impact and does not effect on the monitoring parameter. Therefore, still in accordance to the applied MM.
	Later version of MM: Please check in cases where compliance with a later version of the MM is demonstrated that the conservativeness of the monitoring and verification is not affected.	The change does not refer to a later version of the MM.
	Accuracy: Please give a detailed assessment whether the deviation is likely to lead to a reduction in the accuracy of the ER calculation.	The change in calibration frequency is the host country national regulations requirements that the CPA implementer has to comply. The change in frequency calibration does not impact ER calculations for the monitoring period since there is no power generated. The calibration report was reviewed and result did not show a deviation beyond the meter accuracy. Similarly it is expected that there will be no impact to future ERs.
	Conservative-ness: Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.	The change of the calibration frequency is beyond the CPA implementer since it is the host country requirements. In the event there is any delay in calibration or error found during calibration, the meter accuracy or the error found during calibration will be applied as MPE to the electricity generated as conservative approach for the period of the delay in calibration. In this aspect the ER will not be overestimated.
	Appendix 2 PoA-PS: Check if the changes fall under one of the scenarios of appendix 2 of the PoA-PS.	As per PoA-PS §227 post-registration changes to an included CPA do not require approval by the Board, but such changes shall be notified to the secretariat as referred to in paragraph 250.
Findings	-	
Conclusion	Based on the above the temporary deviation(s) from the registered monitoring plan, applied monitoring methodology and/or applied standardized baseline are in accordance with applicable validation requirements related to the temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline in the VVS.	
	Revised CPA-DD	
	Rev. of CPA-DD: Check whether the changes have been fully addressed in a revised CPA-DD.	<input checked="" type="checkbox"/> The changes have correctly been reflected in the revised CPA-DD. <input type="checkbox"/> A revision of the CPA-DD is not required (in case of temp. changes). <input checked="" type="checkbox"/> The revised CPA-DD has been forwarded in (i) track-change and (ii) clean version.
	Prior Approval	

	Prior approval: Assess whether the change requires prior approval of the board	<input checked="" type="checkbox"/>	In accordance with PoA-PS §227 post-registration changes to an included CPA do not require approval by the Board, but such changes shall be notified to the secretariat as referred to in paragraph 250.

D.7. Changes to the project design: Not applicable The section is left blank intentionally

Means of validation	Type of change(s):	<input type="checkbox"/>	<i>Changes to the programme design</i>	
	N/A	<input type="checkbox"/>	<i>Changes to the project design</i>	
	Description of post registration change			
	Start Date: Please provide the start date of the change	DD/MM/YYYY	End Date: Please provide the end date of the change, if applicable	DD/MM/YYYY
	Description: Please give a detailed description of the change(s)	N/A the section is left blank intentionally		
	Applicability and application of the Approved Baseline Methodology			
	Description: Please give a detailed description on how the changes affect the applicability and application of the approved Baseline Methodology. Check if the actual changes would adversely affect the conclusions during validation.			
	Additionality assessment			
	Description: Please give a detailed description re-assessment of additionality, Check whether the actual changes would adversely affect the conclusions during validation. If required please make use of the assessment tables in the annex.			
	Scale of the Project activity			
	Description: Please give a detailed regarding the effect of the changes on the scale of the PoA (i.e. LSC or SSC).			
	Revised Specific CPA-DDs			
Rev. of Specific CPA DDs: Check whether the changes have been fully addressed in a revised PoA DD. In	<input type="checkbox"/>	The change has been addressed in relevant sections of the revised CPA-DD. The proposed change has no impact to the baseline scenario and remains the same during validation.		

	this context pl. refer to - Changes to the project boundary and GHG Sources - Changes to the baseline scenario. - Changes to the estimation of emission reductions of a generic CPA - Effects with regards to compliance with the MP and level of accuracy and completeness of monitoring.	The proposed change has no impact to the monitoring plan, level of accuracy and completeness of monitoring for emission reduction calculations. Therefore para 1 (d) of Appendix 2 of PoA PS 02.0 does not apply, prior approval is required.									
Findings											
Conclusion	<table border="1"> <tr> <td> Traceability: Check if the PPs have provided a revised PoA DD and/or CPA DD in both clean and track-change version. </td><td><input type="checkbox"/></td><td>The revised CPA DD has been forwarded in (i) track-change and (ii) clean version.</td></tr> <tr> <td> Prior approval: Assess whether the change requires prior approval of the board </td><td><input type="checkbox"/></td><td>The post registration change requires prior approval.</td></tr> <tr> <td></td><td><input type="checkbox"/></td><td>The post registration change does not require prior approval</td></tr> </table>		Traceability: Check if the PPs have provided a revised PoA DD and/or CPA DD in both clean and track-change version.	<input type="checkbox"/>	The revised CPA DD has been forwarded in (i) track-change and (ii) clean version.	Prior approval: Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval.		<input type="checkbox"/>	The post registration change does not require prior approval
Traceability: Check if the PPs have provided a revised PoA DD and/or CPA DD in both clean and track-change version.	<input type="checkbox"/>	The revised CPA DD has been forwarded in (i) track-change and (ii) clean version.									
Prior approval: Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval.									
	<input type="checkbox"/>	The post registration change does not require prior approval									

D.8. Changes specific to afforestation and reforestation activities

Means of validation	N/A
Findings	
Conclusion	

SECTION E. Internal quality control

Before submission of the final assessment report a technical review is carried out. The technical reviewer is a competent GHG auditor being appointed for the scope this project falls under. The technical reviewer is not considered to be part of the verification team and thus not involved in the decision making process up to the technical review.

As a result of the technical review process the assessment opinion as prepared by the validation team leader may be confirmed or revised. Furthermore, reporting improvements might be achieved

SECTION F. Validation opinion

The below listed changes have occurred after the registration of the CPA.

Type of Change occurred	Total No. of changes	No. of changes which require prior approval
<input type="checkbox"/> Temporary deviations from the MP		
<input type="checkbox"/> Temporary deviations from the MM	-	-
<input type="checkbox"/> Corrections that do not affect the project		
<input type="checkbox"/> Change to the start date of the crediting p.	-	-
<input checked="" type="checkbox"/> Permanent changes from the MP	1	1
<input type="checkbox"/> Permanent changes from the MM	-	-

<input type="checkbox"/>	Design changes to the programmed or project	-	-
<input type="checkbox"/>	Change of coordinating/managing entity	-	-
<input type="checkbox"/>	Inclusion of monitoring plan	-	-
<input type="checkbox"/>	Changes specific to afforestation and reforestation activities	-	-

None of the changes requires prior approval of the Board as in accordance with PoA-PS §227 post-registration changes to an included CPA do not require approval by the Board, but such changes shall be notified to the secretariat as referred to in paragraph 250.

Puchong, 12/01/2021




Cheong, Chun Yuen (Robert)
TÜV NORD JV/CDM CP
Assessment Team Leader

Appendix 1. Abbreviations

Abbreviations	Full texts
CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CO ₂	Carbon dioxide
CO ₂ e	Carbon dioxide equivalent
CP	Certification Program
CPA	Component Project Activities
DNA	Designated National Authority
EB	CDM Executive Board
ER	Emission Reduction
FAR	Forward Action Request
FSR	Feasibility Study Report
GHG	Greenhouse gas(es)
MP	Monitoring Plan
MR	Monitoring Report
PA	Project activity
PCP	Project Cycle Procedure
PDD	Project Design Document
PoA	Programme of Activities
PP	Project Participant
PRC	Post Registration Changes
PS	Project Standard
QC/QA	Quality control/Quality assurance
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VT	Validation Team/Verification Team
VVS	Validation and Verification Standard
XLS	Emission Reduction Calculation Spread Sheet

Appendix 2. Competence of team members and technical reviewers



Statement of Competence
Appointment and authorization according to the procedures of the TÜV NORD JICDM Certification Program

Mr. Robert Cheong


SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2021-04-01
VCS	Senior Assessor	2021-04-01

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
3.1	Energy demand
13.1	Solid waste and wastewater
13.2	Manure

128 - Rev. 9, Date: 2018-03-19

128_001-VAB00-F20_2018-03-19_rev9.doc



Statement of Competence
Appointment and authorization according to the procedures of the TÜV NORD JICDM Certification Program

Mr. David Lubanga

SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification) Technical Reviewer	2018-10-20
VCS / ISO 14064-2	Lead Assessor Technical Reviewer	2018-10-20

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables
3.1	Energy demand

251 - Rev. 5, Date: 2017-12-01

251_001-VAB00-F20_2017-12-01_rev5.doc

Appendix 3. Documents reviewed or referenced

No.	Author	Reference	Title	References to the document	Provider
1	UNFCCC	/ACM2/	Applied large scale methodology ACM0002 ver. 13.0.0, "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"	https://cdm.unfccc.int/UserManagement/FileStorage/DYPFI935XBG274NWH6O8CM1KEZR0VU	Other
2	DOE	/CPM/	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)		Other
3	UNFCCC	/GT/	Glossary "CDM terms" (version 10.0)	https://cdm.unfccc.int/filestorage/e/x/t/extfile-20150226124447549-glos_CDM.pdf/glos_CDM.pdf?t=UmZ8bnFjODI3fD	Other

No.	Author	Reference	Title	References to the document	Provider
				CW9A3wJwR03k QQh4sbLiYu	
4	IPCC	/IPCC/	<ul style="list-style-type: none"> 1996 IPCC Guidelines for National Greenhouse Gas Inventories: work book 2006 IPCC Guidelines for National Greenhouse Gas Inventories: work book 	www.ipcc-nggip.iges.or.jp	Other
5	UNFCCC	/KP/	Kyoto Protocol (1997)	http://unfccc.int/kyoto_protocol/items/2830.php	Other
6	UNFCCC	/MA/	Decision 3/CMP. 1 (Marrakesh – Accords)	http://cdm.unfccc.int/Reference/CO2PMOP/index.html	Other
7	UNFCCC	/CPADDT/	Component project activity design document form (Version 09.0)	http://cdm.unfccc.int/Reference/PDs_Forms/index.html#reg	Other
8	UNFCCC	/PS/	CDM project standard for programmes of activities (Version 02.0)	http://cdm.unfccc.int/Reference/Standards/index.html	Other
9		/TL/	<ul style="list-style-type: none"> Tool to calculate project or leakage CO₂ emissions from fossil fuel combustion Version 2 Tool to calculate the emission factor for an electricity system Version 4.0 	http://cdm.unfccc.int/Reference/tools/index.html	Other
10	UNFCCC	/VVS/	CDM Validation and Verification Standard for programme of activities (Version 02.0)	http://cdm.unfccc.int/Reference/Standards/index.html	Other
11	UNFCCC	/PoA-DD/	<ul style="list-style-type: none"> Registered Programme design document form for CDM programmes of activities: “Vietnam Renewable Energy Development Program (REDP)” version 07, dated 08/05/2013 Revised Programme design document form for CDM programmes of activities: “Vietnam Renewable Energy Development Program (REDP)” version 09, dated 02/07/2015 	https://cdm.unfccc.int/ProgrammeOfActivities/poadb/06901LAWYS37INVEB5RZHM CU4KJFPD/view	Other
12	UNFCCC	/CPA-DD/	<ul style="list-style-type: none"> Registered CPA-DD for CPA2_Nam Tha 4 Hydropower Project version 03, dated 18/09/2014 Revised CPA-DD for CPA2_Nam Tha 4 Hydropower Project version 04 dated 22/07/2015 	https://cdm.unfccc.int/ProgrammeOfActivities/poadb/06901LAWYS37INVEB5RZHM CU4KJFPD/view	Other

No.	Author	Reference	Title	References to the document	Provider
			<ul style="list-style-type: none"> Revised CPA-DD for CPA2_Nam Tha 4 Hydropower Project version 05 dated 09/05/2016 Revised CPA-DD for CPA2_Nam Tha 4 Hydropower Project version 06 dated 06/12/2019 Revised CPA-DD for CPA2_Nam Tha 4 Hydropower Project version 07 dated 07/01/2020 Revised CPA-DD for CPA2_Nam Tha 4 Hydropower Project version 08 dated 03/02/2020 Revised CPA-DD for CPA2_Nam Tha 4 Hydropower Project version 09 dated 14/12/2020 		
13	UNFCCC	/PRC/	<ul style="list-style-type: none"> Post registration changes for CDM PoA project: "Vietnam Renewable Energy Development Program (REDP)" version 1.0 dated 20/09/2014 	https://cdm.unfccc.int/PoAIssuance/iss_db/poais761634785/view	Other
14	PP	/VAL/	<ul style="list-style-type: none"> Validation Report for CDM PoA project "Vietnam Renewable Energy Development Program (REDP)" version 04, dated 08/05/2013 Validation Report for CPA2_Nam Tha 4 Hydropower Project version 02 dated 24/10/2014 	https://cdm.unfccc.int/ProgrammeOfActivities/poa_db/069O1LAWYS37INVEB5RZHM CU4KJFPD/view	Other
15	PP	/FA/	VN REDP Nam Tha 4 Financial Analysis, version 04 dated 06/12/2019 version 05 dated 07/01/2020 version 06 dated 03/02/2020		PP
17	Northern Power	/PPA/	Appendix C of the power purchase agreement signed on 01/09/2016 with Northern Power Corporation Appendix No. 6 to PPA dated 05/08/2020 with Northern Power Corporation		Other
18	MOST	/C072019/	Circular No. 07/2019/TT-BKHCN dated 26/07/2019 by the Ministry of Science and Technology, Electricity of Vietnam – Northern Power Corporation issued Letter No. 2791/EVNNPC-KD dated 05/06/2020		Other
19	MOST	/DLVN/	Standard DLVN 39:2012 and DLVN 39 : 2019 on the methods and means of verifying alternating current static watt-hour meters by the Ministry of Science and Technology		Other

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

Table 1. CLs from this validation

CL ID	xx	Section no.		Date	DD/MM/YYYY
Description of CL					
CME response (1st round)				Date	DD/MM/YYYY
Documentation provided by CME					
<input type="checkbox"/> Changes in CPA-DD		Section(s):		New version No.:	
<input type="checkbox"/> Changes in XLS		Worksheet(s):		New version No:	
<input type="checkbox"/> Other:					
DOE assessment (1st round)				Date	DD/MM/YYYY
Conclusion <i>Tick the appropriate checkbox</i>		<input type="checkbox"/> Additional action should be taken (finding remains open) <input type="checkbox"/> The finding is closed			

Table 2. CARs from this validation

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

Table 3. FARs from this validation

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

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Document information

<i>Version</i>	<i>Date</i>	<i>Description</i>
02.0	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 programmes of activities” (CDM-EB93-A08-STAN);• Make editorial improvements.
01.0	29 December 2017	Initial publication.
Decision Class: Regulatory Document Type: Form Business Function: Registration Keywords: post-registration change, component project activity, validation report		