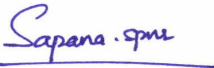



**Validation report form for post-registration changes for CDM project activities**
**(Version 01.0)**

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)**

<b>Title and reference number of the project activity</b>	Chao Phraya Hydropower Project
<b>Process track</b>	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
<b>Version number of the validation report on PRCs</b>	Version 02
<b>Completion date of the validation report on PRCs</b>	30/05/2016
<b>Type(s) of PRCs</b>	<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
<b>Version number of PDD to which this report applies</b>	Version 10.0
<b>Project participant(s)</b>	Electricity Generating Authority of Thailand
<b>Host Party</b>	Thailand
<b>Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)</b>	Sectoral Scope 1 : Energy Industries (renewable sources / non – renewable resources) Selected methodology: AMS-I.D. ver. 17
<b>Name of DOE</b>	Bureau Veritas Certification Holding SAS
<b>Name, position and signature of the approver of the validation report on PRCs</b>	 Sapana Pednekar Quality Manager-Operations

**SECTION A. Executive summary**

&gt;&gt;

Electricity Generating Authority of Thailand has commissioned Bureau Veritas Certification to validate the post-registration changes of CDM project Chao Phraya Hydropower Project (hereafter called "the Project") at 391 Moo 5, Tumbol Bangluang, Amphor Sapphaya, Chai Nat Province 17150, Thailand.

Chao Phraya hydropower project is a small-scale greenfield run-of-river hydroelectric power plant with an installed capacity of 12.4 MW. The proposed project developed by the Electricity Generating Authority of Thailand (EGAT) will utilize the water resource of the Chao Phraya river approximately 180 km North of Bangkok.

The proposed project includes installation of two generator of 6.2 MW installed capacity each and two turbines of 6.4 MW installed capacity each at 6.6 kV, which will be stepped up to 22kV and exported from the Chao Phraya Powerhouse to existing Provincial Electricity Authority (PEA) transmission line. All the net generated electricity will be exported to the PEA. The purpose of the project activity is to generate electricity by using renewable hydro resources. The development of the project activity would reduce GHG emissions produced by the grid which is currently dominated by fossil fuel based power plants. Emission reduction from hydroelectric power projects arise as they replace grid electricity with a zero-emission source of electricity generation.

This report summarizes the findings of the validation of the post-registration changes, performed on the basis of UNFCCC criteria, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The objective of a validation is to provide a thorough and independent third party assessment of the post-registration changes. In particular, the changes' compliance with relevant UNFCCC criteria are validated in order to confirm that the changes meet the applicable CDM requirements and the identified criteria.

The validation scope is defined as an independent consisted of the following three phases: i) objective review of the revised project design document and other relevant documents, ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final post-registration changes validation report and opinion. The overall validation was conducted using Bureau Veritas Certification internal procedures. The information in these documents is reviewed against the requirements of paragraph 37 of the CDM M&Ps, the applicability conditions of the selected methodology and guidance issued by the Board.

The validation is not meant to provide any consulting towards the project participants. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the project design.

The first output of the validation process is a list of Clarification Requests, Corrective Actions Requests, and Forward Actions Requests (CLs, CARs and FARs), presented in Appendix 4. Taking into account this output, the project proponent revised its project design document.

In summary, it is Bureau Veritas Certification's opinion that the project correctly applies the baseline and monitoring methodology AMS-I.D. ver. 17 and meets all relevant UNFCCC requirements for the CDM. Bureau Veritas Certification thus requests the registration of the project as a CDM project activity

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

&gt;&gt;

**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	Charnyapornpong	Natchawat	Bureau Veritas Certification Holding SAS	x	x	x	x

## 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	Sripraparkorn	Chumpol	Bureau Veritas Certification Holding SAS
2.	Approver	IR	Pednekar	Sapana	Bureau Veritas Certification Holding SAS

## SECTION C. Means of validation

### C.1. Desk review

>>

The Revised Project Design Document (PDD) /07/ submitted by Advance Energy Plus Co., Ltd. and additional background documents related to the project design and monitoring plan were reviewed using Bureau Veritas Certification internal procedures.

In order to ensure transparency, a validation protocol was customized for the project, according to the version 09 of the Clean Development Mechanism Validation and Verification Standard, issued by CDM Executive Board

The protocol shows, in a transparent manner, criteria (requirements), means of validation and the results from validation of the identified criteria. The validation protocol serves the following purposes:

- It organizes, details and clarifies the requirements the post-registration changes are expected to meet;
- It ensures a transparent validation process where the validator will document how a particular requirement has been verified and the result of the validation.

The completed Validation protocol is enclosed in Appendix 5 to this report

In addition to the documentation provided by the project participants, the DOE reviews:

- The registered PDD and the monitoring plan /01/
- The validation report requesting for registration /02/
- The applied monitoring methodology AMS-I.D. ver. 17 /03/

To address Bureau Veritas Certification corrective action and clarification requests, Advance Energy Plus Co., Ltd. revised the PDD and resubmitted it on 09/05/2016.

The validation conclusions presented in this report relate to the project as described in the revised PDD version 10.0.

## C.2. On-site inspection

The on-site inspection was held on 28/10/2015 at location of project site. This following table provides detail on activities performed onsite.

Duration of on-site inspection: 28/10/2015				
No.	Activity performed on-site	Site location	Date	Team member
1.	Inspection of Turbine at unit 1 & 2	Chai Nat	28/10/2015	Natchawat
2.	Inspection of Generator at unit 1 & 2	Chai Nat	28/10/2015	Natchawat
3.	Inspection of imported electricity meters at the entrance of the plant and in control room	Chai Nat	28/10/2015	Natchawat
4.	Inspection of exported electricity meters (main and backup meter) for unit 1 & 2 in control room	Chai Nat	28/10/2015	Natchawat

## C.3. Interviews

Following table provides list of interviewee and validation team member who conducted interview session through in-person interviews.

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Kunawanakit	Waraporn	EGAT	28/10/2015	Project implementation	Natchawat
2.	Kaewgabil	Maleewan	EGAT	28/10/2015	Operation & Management	Natchawat
3.	Yimpong	Rupop	EGAT	28/10/2015	Operation & Management	Natchawat
4.	Sritammaratch	Sarun	AEP (consultant)	28/10/2015	Project implementation	Natchawat
5.	Aroontherawong	Chayaphol	AEP (consultant)	28/10/2015	Project implementation	Natchawat

## 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	1	5	-
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline	-	-	-
Corrections	-	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	1	2	-
Changes to the project design of a registered project activity	-	-	-
Types of changes specific to afforestation and reforestation project activities	-	-	-
Others (please specify)	-	-	-
<b>Total</b>	<b>2</b>	<b>8</b>	<b>-</b>

## SECTION D. Validation findings

### D.1. Compliance with PDD form

<b>Means of validation</b>	Validation team conducted document review on these following document to verify whether revised PDD /07/ is compliance with PDD form <ul style="list-style-type: none"> <li>UNFCCC website for latest form for the PDD</li> <li>CDM-SSC-PDD-FORM version 06.0 and Attachment: Instructions for filling out the project design document form for small-scale CDM project activities /06/</li> </ul>
<b>Findings</b>	It's found that revised PDD used the CDM-SSC-PDD-FORM version 06.0 which is the latest available of SSC-PDD form published on UNFCCC website.

	<p>However, it's found that there are the detail provided in revised PDD version 06 are missing compared to the instruction including;</p> <ul style="list-style-type: none"> <li>• Format using according to the form</li> <li>• Description of "Purpose and general description of project activity (section A.1)</li> <li>• Documentation reference used (section B.2)</li> <li>• Description for section B.7.2 and B.7.3</li> <li>• Detail of expected operational lifetime of the project activity in years and months (section C.1.2)</li> <li>• Type of crediting period (section C.2.1)</li> <li>• Detail of contact person (section F)</li> <li>• Reference link of methodology and standardized baseline (Section B.1)</li> <li>• no information on summary of the changes provided in Appendix 6 of revised PDD</li> <li>• Justification of applicable criteria under section B.2 was deviated from registered PDD</li> <li>• Generator's specification provided under section B.2 was deviated from registered PDD</li> </ul> <p>Hence, CAR01, CAR02, CAR03, CAR04, and CAR05 were raised. Lastly, PP had corrected PDD and provided evidence as appropriate, leading to closure of CAR01 to CAR05 at the end (see detail in Table 2 under appendix 4).</p> <p>Furthermore, CL01 was raised because there are inconsistency of specification on actual turbines and generator installed for project activity between each section in revised PDD /07/. In response to this, PP had corrected the specification of the turbine and generators in the revised PDD to be consistent with the information in registered PDD /01/. Validation team reviewed the revised version of PDD and cross check with the actual machine installed at the project activity. Hence, CL01 was closed.</p>
<b>Conclusion</b>	<p>With reference to closure of CAR01 to CAR05, it is confirmation from validation team that revised PDD is compliance with relevant form and instruction therein. Furthermore, it is confirm that information transferred to the later version of the PDD form is materially the same as that in the registered PDD.</p>

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

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

## D.3. Corrections

Means of validation	Validation team conducted document review on these following documents combined with onsite inspection to validate the compliance of revised PDD (and its later revision) as per following detail. <ul style="list-style-type: none"><li>Registered PDD /01/</li><li>Revised PDD /07/ (and its later revision)</li><li>Appendix 1 of PS version 09.0 /05/</li></ul>		
Findings	With reference to findings during onsite inspection on 28/10/2015, validation team observed that the rate capacity of both Generators for Unit I and II are 7294 KVA not 6.2 MW as mentioned in the revised PDD as follows.		
	Generator	Specification in registered PDD	Name Plate
	Rated Capacity	6.2 MW	7,294 kVA
	Rated Power	Not indicated	6.2 MW
	Rated Voltage	6,600V	6,600V
	Rated Frequency	50Hz	50Hz
	Rated Speed	125 rpm	125 rpm

	Rated power factor	0.85	0.85
	Number of phases	3	3
	Units	2	2
	<p>Therefore, CAR07 was raised. In response to CAR07, PP had corrected this information in the revised PP and submitted the specification of generator &amp; Turbine at validation stage shown in 'General Arrange for turbine in power house' /09/. Validation team reviewed the evidence and confirmed that the correction in specification of generators are now consistent with the documentation evidence received and the actual name plate of the generators installed at the project activity. Hence, this is accepted and CAR07 was closed.</p>		
<b>Conclusion</b>	<p>Corresponding to the paragraph 304 of VVS version 09.0, Bureau Veritas Certification can confirm that the corrected information is an accurate reflection of actual project or programme information.</p> <p>With reference to findings above, it is confirmed that this information correction do not affect the design of the project activity and do not require prior approval by the CDM Executive Board (the Board) as per Appendix 1 of PS version 09.0.</p>		

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

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

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

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

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

Means of validation	Validation team conducted document review on these following documents combined with onsite inspection to validate the compliance of revised PDD as per following detail. <ul style="list-style-type: none"><li>Registered PDD /01/</li><li>Revised PDD /07/ (and its later revision)</li><li>Appendix 1 of PS version 09.0 /05/</li><li>VVS version 09.0 /04/</li><li>AMS-I.D. ver. 17 /03/</li></ul>		
Findings	EG <sub>export,y</sub> (B.7.1)		
	Data	Registered monitoring plan	Permanent changed from registered monitoring plan
	Source of data	Energy meter reading from plant records	Measured data from electricity meter
	Measurement methods and procedures	There are two meters for two generators (Type code: ZMD 402 CT44 - LANDIS + GYR) with Automated meter reading installed inside EGAT's control room. These meters are two-way meter through which export and import data will be continuously monitored. These data will be printed and recorded on a monthly basis. Additionally, two back up meters will also be	Measured continuously by using electricity meter (class 0.2S). There are two main electricity meters for two generators installed inside EGAT's control room. Consolidated readings will be recorded in monthly basis.

		installed for each generator.  Moreover, a logbook will be maintained on site to record hourly readings from the energy meter. The readings will be taken by the shift supervisor. This hourly data will be signed off at the end of every shift by the engineer in charge of the shift and again at the end of each day by the power plant manager.	
	QA/QC procedures	Data measured by meters and recorded in logbook will be cross checked by electricity sales receipt. This will act as a check against the electricity export-import meter readings. The energy meter will be calibrated at least once in two year subject to national standards.	The reading data from the electricity meters are recorded in the reading export meter report by EGAT officer. Then these data shall be verified by off-taker party (PEA officer). The verified data shall be countersigned by PEA and EGAT officer. In case of main meter failure, the data from back up meter will be applied in such period. The energy meter will be calibrated at least once in two year subject to national standards.

**Validation opinion:**

- *Source of data:*  
There is no significant change and this is similarly the same. Hence, this is accepted.

- *Measurement methods and procedures:*  
Even though, the type of meters was removed, the accuracy class is still maintained at class 0.2s. Validation team reviewed the specification of meter mentioned in registered PDD (Type code: ZMD 402 CT44 - LANDIS + GYR) /11/, it is confirmed that the accuracy level is not changed. Furthermore, this is in line with the minimum requirement of accuracy level stated in Power Purchase Agreement (PPA) /10/ at  $\pm 0.2\%$ . Hence, this is accepted.  
With reference to recording frequency, it was changed from hourly to monthly. Validation team found that this is still within applied methodology AMS-I.D. ver.17 which required recording on monthly basis. Hence, this change fell under section 5(g) of appendix 1 of Project Standard version 09.0 which do not require prior approval by the Executive Board.

- *QA/QC procedures:*  
CAR06 was raised because the description provided in QA/QC procedures did not relevant to QA/QC but was about the procedure when the meter failure. In response to this, PP had revised the description as mentioned above. It is found that there is no significant change and this is similarly the same from registered PDD. Hence, this is accepted.

**EG<sub>import,y</sub> (B.7.1)**

Data	Registered monitoring plan	Permanent changed from registered monitoring plan
Source of data	Energy meter reading from plant records	Measured data from electricity meter

	Measurement methods and procedures	<p>There are two meters for two generators (Type code: ZMD 402 CT44 - LANDIS + GYR) with Automated meter reading installed inside EGAT's control room. These meters are two-way meter through which export and import data will be continuously monitored. These data will be printed and recorded on a monthly basis. Additionally, two back up meters will also be installed for each generator.</p> <p>Moreover, a logbook will be maintained on site to record hourly readings from the energy meter. The readings will be taken by the shift supervisor. This hourly data will be signed off at the end of every shift by the engineer in charge of the shift and again at the end of each day by the power plant manager.</p>	<p>Measured continuously by using electricity meter (class 0.2S). There are two electricity meters for two generators installed inside EGAT's control room. Consolidated readings are recorded in monthly basis.</p>
	QA/QC procedures	<p>Data measured by meters and recorded in logbook will be cross checked against electricity invoice sent by PEA for electricity import.</p> <p>The energy meter will be calibrated at least once in two years subject to national standards.</p>	<p>Data measured by meters and recorded in the monthly report will be cross checked against electricity invoice sent by PEA for electricity import.</p> <p>In case of main meter failure, the data from back up meter will be applied in such period.</p> <p>The energy meter will be calibrated at least once in two years subject to national standards.</p>
<p><b><u>Validation opinion:</u></b></p> <p>- <i>Source of data:</i></p> <p>There is no significant change and this is similarly the same. Hence, this is accepted.</p> <p>- <i>Measurement methods and procedures:</i></p> <p>Based on revised PDD /07/, CL02 was raised because the meter referred was found to be deviated from the meter mentioned in registered PDD. With reference to CL02's response, PP had changed the referring meter back to the meter in the control room which is the same with registered PDD. Hence, this is accepted. Furthermore, the type of meters was removed; the accuracy class is still maintained at class 0.2s. Validation team reviewed the specification of meter mentioned in registered PDD (Type code: ZMD 402 CT44 - LANDIS + GYR) /11/, it is confirmed that the accuracy level is not changed. Furthermore, this is in line with the minimum requirement of accuracy level stated in Power Purchase Agreement (PPA) /10/ at <math>\pm 0.2\%</math>. Hence, this is accepted.</p> <p>With reference to recording frequency, it was changed from hourly to monthly. Validation team found that this is still within applied methodology AMS-I.D. ver.17 which required recording on monthly basis. Hence, this change fell under section 5(g) of appendix 1 of Project Standard version 09.0 which do not require prior approval by the Executive Board.</p> <p>- <i>QA/QC procedures:</i></p> <p>Same with EG<sub>export,y</sub> above.</p>			



**EG<sub>BL,y</sub> (B.7.1)**

<b>Data</b>	<b>Registered monitoring plan</b>	<b>Permanent changed from registered monitoring plan</b>
QA/QC procedures to be applied	This can be cross checked against the electricity invoices. The energy meter will be calibrated at least once in two years subject to national standards	The meters will be calibrated as described in parameter EG <sub>export,y</sub> and EG <sub>import,y</sub>

**Validation opinion:**

With reference to methodology AMS-I.D. ver.17, EG<sub>BL,y</sub> is calculated parameter between EG<sub>import,y</sub> and EG<sub>export,y</sub>. Furthermore, the detail of cross-checking and meter calibration had already been provided in parameter EG<sub>import,y</sub> and EG<sub>export,y</sub>. Hence, this is accepted.

**Monitoring Procedure (B.7.2)**

<b>Data</b>	<b>Registered monitoring plan</b>	<b>Permanent changed from registered monitoring plan</b>
<b>Monitoring Procedure (B.7.2)</b>	<p>There will be three 8 hour shifts and the readings from energy meters will be taken on an hourly basis by the shift supervisor and recorded in logbooks. This hourly data will be signed off at the end of every shift by the engineer in charge of the shift and again at the end of each day by the power plant manager. The power plant manager will analyze the data every month and report to the head office. The data will be archived electronically every month and invoices of electricity sales will be maintained.</p> <p><i>and</i></p> <p>The monitored data will be reported through EGAT to its head office on a monthly basis for the calculation and estimation of emission reductions. This data will be checked against initial estimates and a summary report will be provided quarterly. If the project is not performing as expected or if there are any negative impacts on the volume of emission reductions obtained, on the basis of the monthly data being monitored, a report will be sent to the project activity outlining where the project</p>	<p>EGAT is well aware of the importance of having a good operational and management team in order to execute a well-defined monitoring plan for the project activity. So, it has an operational and management structure created exclusively for monitoring data. The responsibilities of data monitoring, archiving and analyzing will fall on different members of the monitoring team. This team will be composed of head office, power plant manager and shift supervisor. The shift supervisor will record the monitoring data. The power plant manager will cross-check the monitoring data and system to be properly functional and the head office will analyze the power plant performance through the monitoring data.</p> <p><i>and</i></p> <p>The monitored data will be reported through EGAT to its head office on a monthly basis for the calculation and estimation of emission reductions. If the project is not</p>

	<p>is deviating in its generation of emission reductions and the immediate measures which need to be undertaken to maintain the expected generation of emission reductions from the operation of this project.</p> <p>performing as expected or if there are any negative impacts on the volume of emission reductions obtained, on the basis of the monthly data being monitored, a report will be sent to the project activity outlining where the project is deviating in its generation of emission reductions and the immediate measures which need to be undertaken to maintain the expected generation of emission reductions from the operation of this project.</p> <p><b>Validation opinion:</b> It is observed that there are changes in recording frequency. Based on interview session with operational staff, it is found that the data was recorded on a monthly basis. With reference to PP justification and monthly meter reading report received, it is confirmed that the recording frequency which was changed from daily to monthly. Validation team found that this is still within applied methodology AMS-I.D. ver.17 which required recording on a monthly basis. Hence, this change fell under section 5(g) of appendix 1 of Project Standard version 09.0 which do not require prior approval by the Executive Board. Furthermore, it is observed that reporting on a quarterly basis which was mentioned in registered PDD was missing from revised PDD. Hence, CAR08 was raised. Later, PP response that the report was done on a monthly basis. This is in line with the evidence monthly report received and confirmed with interview session with operational staff. This means that the actual operation is more frequently compared to the registered PDD. Hence, this is accepted.</p>
<b>Conclusion</b>	<p>Validation team confirmed that</p> <ul style="list-style-type: none"> <li>- The proposed permanent changes do not reduce the level of accuracy of the monitoring compared with the requirements contained in the registered monitoring plan. The monitoring equipment actually installed has the same accuracy level with the one stipulated in registered PDD and are in compliance with AMS-I.D. ver.17.</li> <li>- The same version of the applied methodology had been considered by the project activity.</li> <li>- The permanent changes are not likely to lead to a reduction in the accuracy of the calculation of emission reductions</li> <li>- The permanent changes complied with the relevant requirements related to the permanent changes from the registered monitoring plan, the applied methodology and/or the applied standardized baseline in the Project standard.</li> </ul> <p>With reference to findings above, this change fell under section 5(g) of appendix 1 of Project Standard version 09.0 which do not require prior approval by the Executive Board.</p>

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

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

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

<b>Means of validation</b>	N/A
<b>Findings</b>	N/A
<b>Conclusion</b>	N/A

**SECTION E. Internal quality control**

>> The validation opinion underwent an Internal Technical Review (ITR) before requesting approval of the post-registration changes.

The ITR is an independent process performed to examine thoroughly that the process of validation has been carried out in conformance with the requirements of the validation scheme as well as internal Bureau Veritas Certification procedures.

The Team Leader provides a copy of the validation opinion to the reviewer, including any necessary validation documentation. The reviewer reviews the submitted documentation for conformance with the validation scheme. This will be a comprehensive review of all documentation generated during the validation process.

When performing an Internal Technical Review, the reviewer ensures that:

- The validation activity has been performed by the team by exercising utmost diligence and complete adherence to the CDM rules and requirements.
- The review encompasses all aspects related to the project which includes project design, baseline, additionality, monitoring plans and emission reduction calculations, internal quality assurance systems of the project participant as well as the project activity, closure of CARs and CLs during the validation exercise, review of sample documents.

The reviewer may raise Clarification Requests to the validation team and will discuss these matters with the Team Leader.

After the agreement of the responses to the Clarification Requests from the validation team as well as the PP(s), the finalized validation opinion is accepted for further processing such as uploading via the UNFCCC interface.

**SECTION F. Validation opinion**

>> Bureau Veritas Certification has performed a validation of post-registration changes of Chao Phraya Hydropower Project, which is located in 391 Moo 5, Tumbol Bangluang, Amphor Sapphaya, Chai Nat Province 17150, Thailand. The validation was performed on the basis of UNFCCC criteria for the CDM, as well as criteria given to provide for consistent project operations, monitoring and reporting.

The validation consisted of the following three phases: i) desk review of the project design document and additional background documents; ii) follow-up interviews with project stakeholders; iii) resolution of outstanding issues and the issuance of the final validation report and opinion.

The review of the revised project design document, relevant additional information and the subsequent follow-up interviews have provided Bureau Veritas Certification with sufficient evidence to determine the fulfilment of stated criteria. In our opinion, the post-registration changes meet all relevant UNFCCC requirements for the CDM criteria. Bureau Veritas Certification thus requests the approval of post-registration changes of the project activity.



Dr Chumpol SRIPRAPARKORN  
Internal Technical Reviewer  
30/05/2016



Mr Natchawat CHARNYAPORN PONG  
Team Leader  
30/05/2016

## Appendix 1. Abbreviations

Abbreviations	Full texts
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reductions
CL	Clarification Request
CO2	Carbon Dioxide
CO2e	Carbon Dioxide Equivalent
DOE	Designated Operational Entity
FAR	Forward Action Request
GHG	Green House Gas(es)
MP	Monitoring Plan
PDD	Project Design Document
PLF	Plant Load Factor
PP	Project Participant
PPA	Power Purchase Agreement
PRC	Post-Registration Changes
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

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

Mr. Natchawat Charnyapornpong	Bureau Veritas  Certification, Thailand	<p><u>Current Position:</u> Team Leader, Climate Change Verifier.</p> <p><u>CDM Technical Area#:</u></p> <ul style="list-style-type: none"> <li>- T.A. 1.2 (Energy generation from renewable energy)</li> <li>- T.A. 13.1 (Solid Waste and waste water)</li> <li>- T.A. 13.2 (Manure)</li> <li>- T.A. 15.2 (Agriculture)</li> </ul> <p><u>Education</u></p> <p>He was graduated from M.Sc. Environmental Management, Chulalongkorn University and Bachelor degree in Micro-biology from Chulalongkorn University.</p> <p><u>Related Work Experiences</u></p> <p>He has 5 years experiences in Carbon Business area while he was employed as CDM consultant prior to join Bureau Veritas Thailand. In this present time, he is responsible to CDM business and non-CDM business (i.e., VCS, GS, and Carbon Footprint).</p> <p><u>Remark #</u> Obtained by technical training, education and related work experiences</p>
Dr. Chumpol Sripraparkorn	Bureau Veritas  Certification, Thailand	<p><u>Current Position:</u> Technical Reviewer, Climate Change Lead Verifier.</p> <p><u>CDM Technical Area#:</u></p> <ul style="list-style-type: none"> <li>- T.A. 1.2 (Energy generation from renewable energy)</li> <li>- T.A. 13.1 (Solid Waste and waste water)</li> </ul> <p><u>Education</u></p> <p>He has PhD education background in Environmental Management (Hazardous Waste Management) Chulalongkorn University, 2009 with core research: Transportation policy, traffic mode, vehicle emission, air quality. His thesis title is Application of The Air Pollution Model (TAPM) for Bangkok air quality management policy with focus on bus route management, traffic management, mass rapid transportation impact, vehicle profile, vehicle emission and its impact on air quality. His master degree in Environmental Science – Chulalongkorn University, 2002 with core research on Urban transportation system, traffic mode, vehicle emission. His thesis title is Application of CALINE4 air</p>

		<p>quality model for prediction of roadside air quality.</p> <p><u>Related Work Experiences</u> He has more than 12-year experiences in environmental business and research area. His work experiences prior to join Bureau Veritas Certification (Thailand) was at Agency for Science, Research and Technology (A*STAR), Singapore also with Environmental Consulting firm (conducting Environmental Impact Study) and CDM Consulting firm. He is now working for Bureau Veritas (Thailand) for 5 years and in charge of CDM service.</p> <p><b>Remark #</b> Obtained by technical training, education and related work experiences</p>
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### Appendix 3. Documents reviewed or referenced

No.	Author	Title	References to the document	Provider
1	Agrinergy Pte Ltd.	Registered PDD version 06 dated 30/11/2012	<a href="http://cdm.unfccc.int/Projects/DB/RWTUV1355821731.47/view">http://cdm.unfccc.int/Projects/DB/RWTUV1355821731.47/view</a>	Others
2	Tuv Nord Certification	Validation report	<a href="http://cdm.unfccc.int/Projects/DB/RWTUV1355821731.47/view">http://cdm.unfccc.int/Projects/DB/RWTUV1355821731.47/view</a>	Others
3	UNFCCC CDM	AMS-I.D. ver. 17	<a href="http://cdm.unfccc.int/methodologies/SSCmethodologies/approved">http://cdm.unfccc.int/methodologies/SSCmethodologies/approved</a>	Others
4	UNFCCC CDM	VVS version 09.0	<a href="http://cdm.unfccc.int/Reference/Standards/index.html">http://cdm.unfccc.int/Reference/Standards/index.html</a>	Others
5	UNFCCC CDM	PS version 09.0	<a href="http://cdm.unfccc.int/Reference/Standards/index.html">http://cdm.unfccc.int/Reference/Standards/index.html</a>	Others
6	UNFCCC CDM	CDM-SSC-PDD-FORM version 06.0	<a href="https://cdm.unfccc.int/Reference/PDDs_Forms/index.html">https://cdm.unfccc.int/Reference/PDDs_Forms/index.html</a>	Others
7	Advance Energy Plus Co., Ltd.	Revised PDD version 07 dated 03/07/2015	N/A	PP
8	Advance Energy Plus Co., Ltd.	Revised PDD version 10.0 dated 09/05/2016	N/A	PP
9	Italian – Thai Development PCL. and Sinohydor Company Limited Consortium	General Arrange for turbine in power house – As built	N/A	PP
10	EGAT and PEA	Power Purchase Agreement Dated 30/07/2013	N/A	PP
11	Landis +Gyr Ltd.	Specification of electricity meter model ZMD 402 CT44 - LANDIS + GYR	N/A	PP

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

Table 1. CL from this validation

CL ID	01	Section no.	D.1	Date: 21/08/2015
<b>Description of CL</b>				
<i>With reference to deviation found on justification provided for applicable criteria no.5, please clarify with evidence whether the actual turbines and generator installed for project activity were deviated from registered PDD or not.</i>				
<b>Project participant response</b>				Date: 12/10/2015
<i>The typo error in the description of justification for criteria no.5 which is already corrected in the revised PDD. It is confirmed that the actual turbines and generator were installed for the project activity according to the registered PDD, therefore they are not deviated from the registered PDD</i>				
<b>Documentation provided by project participant</b>				
<i>Revised PDD version 8 dated on 12/10/2015</i>				
<b>DOE assessment</b>				Date: 11/05/2015
With reference to onsite inspection on 28/10/2015, Validation team confirmed that the two turbines of 6.4 MW each and two generators of 6.2 MW each installed at project activity are not deviated from registered PDD. And the justification provided for applicable criteria no.5 of Table 2 is now corrected in revised PDD version 08 dated on 12/10/2015.				
CL01 is closed.				

CL ID	02	Section no.	D.6	Date: 21/08/2015
<b>Description of CL</b>				
<i>Please clarify with evidences how the two electricity meters installed at entrance of the plant referred in Measurement methods and procedures of parameter <math>EG_{import,y}</math> complied with para 313 of VVS version 09.0 and/or appendix 1 of Project Standard version 09.0.</i>				
<b>Project participant response</b>				Date: 12/10/2015
<i>In the revised PDD, the monitoring equipment for <math>EG_{import,y}</math> is now referred to the two electricity meters installed inside EGAT's control room as per the registered PDD. Therefore the two electricity meters in stalled at entrance of the plant are no longer referred.</i>				
<b>Documentation provided by project participant</b>				
<i>Revised PDD version 8 dated on 12/10/2015</i>				
<b>DOE assessment</b>				Date: 11/05/2015
<ul style="list-style-type: none"> <li>- Please provide the specification of monitoring equipment as stated in registered PDD and revised PDD</li> <li>- Please provide the evidence for the justification that two meters for two generators (Type code: ZMD 402 CT44 - LANDIS + GYR) with Automated meter reading installed inside EGAT's control room as stated in registered PDD were in control by Provincial Electricity Authority.</li> </ul>				
CL02 is still pending.				
<b>Project participant response</b>				Date: 29/02/2016
<ul style="list-style-type: none"> <li>- <i>Due to the monitoring equipment for <math>EG_{import,y}</math> is now referred to the two electricity meters installed inside EGAT's control room as per the registered PDD. Therefore the adjust value due to the level of accuracy class is reduced does not have to be applied.</i> <i>The specification of monitoring equipment (class 0.2S) as per the registered PDD has been provided as file name "Meter spec ZMD 402CT.PDF" and "Meter Spec ZMQ 202.PDF"</i></li> <li>- <i>There are two main electricity meters and two back up electricity meters for parameter <math>EG_{export,y}</math> and <math>EG_{import,y}</math> (two-way reading meter) which are installed in the control room of the project and controlled by EGAT. Therefore all monitoring meters for <math>EG_{export,y}</math> and <math>EG_{import,y}</math> are in control of EGAT</i></li> </ul>				
<b>Documentation provided by project participant</b>				
<i>Meter spec ZMD 402CT.PDF</i>				
<i>Meter Spec ZMQ 202.PDF</i>				
<b>DOE assessment</b>				Date: 28/03/2016

- With reference to the evidence of meter's specification received, it is confirmed that the two main meters and two backup meters for two generators with Automated meter reading actual installed inside EGAT's control room have the same specification with registered PDD with accuracy class 0.2S and other minimum requirement. Hence, this is accepted.
- Validation team accepted the justification from PP that the installed meters in the control room of the project and controlled by EGAT. This is consistent with the actual operation and document evidence observed during onsite inspection which confirmed that EGAT had controlled all mentioned meters which covered maintenance and calibration activity.

CL02 is closed.

**Table 2. CAR from this validation**

CAR ID	01	Section no.	D.1	Date: 21/08/2015
<b>Description of CAR</b>				
<p><i>With reference to CDM-SSC-PDD-FORM version 6.0, revised PDD did not fulfill the requirements under Attachment - 'Instructions for filling out the project design document form for small-scale CDM project activities' on the following</i></p> <ul style="list-style-type: none"> <li>- Requirement 7 under section 1 (for the table in section B.6.4)</li> <li>- Requirement 2, 5, 7, and 8 under section A.1</li> <li>- Requirement 4 under section B.2</li> <li>- Requirement 1 under section B.7.2</li> <li>- Requirement 1 under section B.7.3</li> <li>- Requirement 1 under section C.1.2</li> <li>- Requirement 2 under section C.2.1</li> <li>- Requirement 1 under section F</li> </ul>				
<b>Project participant response</b>				<b>Date: 12/10/2015</b>
<p><u>1<sup>st</sup> response</u></p> <p>The revised PDD (version 08, date 02/09/2015) has been updated as per the requirements below;</p> <ul style="list-style-type: none"> <li>- Requirement 7 under section 1 (for the table in section B.6.4)</li> </ul> <p>The bold text has not applied to the figures of total emission reductions.</p> <ul style="list-style-type: none"> <li>- Requirement 2, 5, 7, and 8 under section A.1</li> </ul> <p>The below explanation has been added in such section.</p> <p>Requirement 2(a)</p> <p>"Chao Phraya hydropower project is a small-scale greenfield run-of-river hydroelectric power plant with an installed capacity of 12.4 MW at Chao Phraya river. Prior to implementation of the project activity, there are two existing water ways for Chao Phraya river; 1) Main water way (pass through the Chao Phraya irrigation dam) and 2) By-pass water way (left bank of the Chao Phraya irrigation dam). There are no any hydro power projects for both water ways. The project is implemented on the left bank of the existing Chao Phraya irrigation dam by using the by-pass water flow to generate the electricity".</p> <p>Requirement 2(b)</p> <p>"The electricity generated from the project activity would reduce GHG emissions produced by the grid which is currently dominated by fossil fuel based power plants. Emission reduction from hydroelectric power projects arise as they replace grid electricity with a zero-emission source of electricity generation"</p> <p>Requirement 5</p> <p>"Project activity will reduce greenhouse gas of about 34,967 tCO<sub>2</sub>e annually throughout crediting period of 7 years"</p> <p>Requirement 7</p> <p>"Since the project activity generates electricity by using renewable hydro resources with the total capacity of 12.4 MW, the project activity is fall into type I (Renewable energy project) and small scale project (the installed capacity &lt;15 MW). "</p> <p>Requirement 8</p> <p>"The project activity is not applied as a part or a CPA in any CDM PoAs"</p> <ul style="list-style-type: none"> <li>- Requirement 4 under section B.2</li> </ul> <p>The documentation that has been used and support for project activity eligibility has been added in Appendix 3</p> <p>"List of support documents for project activity eligibility;</p> <p>Energy control generation license issued by the Energy Regulatory Commission</p> <p>This document is used to confirm as listed below;</p> <ul style="list-style-type: none"> <li>- The project activity can generate and export electricity to the grid (Applicability criteria 1)</li> </ul>				

- The project activity generates the electricity from hydro power (Applicability criteria 1, 4 and 6)
- The project activity is a Greenfield project (Applicability criteria 2, 7 and 8)
- The project activity is not involved to the volume of the reservoir (Applicability criteria 3)
- The project activity has two units of turbine & generator at capacity of 7,294 KVA (or 6,200 kW) which is less than 15 MW (Applicability criteria 5)"

- Requirement 1 under section B.7.2

The clarification of sampling plan has been added "All values of data and parameters to be monitored are not determined by sampling approach"

- Requirement 1 under section B.7.3

Description of operational and management structure has been added in section B.7.3

- Requirement 1 under section C.1.2

"30 years and 0 month" has been added

- Requirement 2 under section C.2.1

"This is the first crediting period" has been added

- Requirement 1 under section F

"The letter of approval from Thailand (Host country) for the project activity is available at the time of submitting the PDD to the validating DOE" has been added

**Documentation provided by project participant**

Revised PDD version 8 dated on 12/10/2015

**DOE assessment**

**Date:** 11/05/2015

**1<sup>st</sup> response**

Validation team reviewed the correction on revised PDD version 08 dated on 12/10/2015 as followed;

- Requirement 7 under section 1 (for the table in section B.6.4)

Validation team reviewed the revision in revised PDD version 08 dated on 12/10/2015. It is confirmed that the format is now corrected as per template.

- Requirement 2, 5, 7, and 8 under section A.1

With reference to requirement 2, 5, and 8 under section A.1, validation team accepted the new description provided as the information is materially the same as that in the registered PDD.

With reference to requirement 7 under section A.1, the estimate of annual average emission was provided; however, there is no total GHG emission reductions for the chosen crediting period provided.

- Requirement 4 under section B.2

Validation team reviewed the revision in Appendix 3 of revised PDD version 08 dated on 12/10/2015. It is confirmed the documentation that has been used for explanation of project activity eligibility is indicated in Appendix 3.

- Requirement 1 under section B.7.2

Validation team accepted the revision in revised PDD version 08 dated on 12/10/2015 and confirmed that the information is materially the same as that in the registered PDD.

- Requirement 1 under section B.7.3

Validation team confirmed that other elements of monitoring plan is now provided in section B.7.3 of revised PDD version 08 dated on 12/10/2015.

- Requirement 1 under section C.1.2

Validation team reviewed the revision in section C.1.2 of revised PDD version 08 dated on 12/10/2015. It is confirmed that the expected operational lifetime of the project activity in years and months and the information is materially the same as that in the registered PDD.

- Requirement 2 under section C.2.1

Validation team reviewed the revision in section C.2.1 of revised PDD version 08 dated on 12/10/2015. It is accepted that this is the first crediting period.

- Requirement 1 under section F

Validation team reviewed the revision in section F of revised PDD version 08 dated on 12/10/2015. It is confirmed that the information on the letter(s) of approval from Party(ies) for the project activity is now indicated.



With reference to findings above, CAR01 is still pending.	
<b>Project participant response</b>	<b>Date:</b> 29/02/2016
<u>2<sup>nd</sup> response</u> "Total emission reductions is 244,769 tCO <sub>2</sub> e for the entire of 7-year crediting period" has been added in section A.1.	
<b>Documentation provided by project participant</b>	
Revised PDD version 9 dated on 29/10/2015	
<b>DOE assessment</b>	<b>Date:</b> 28/03/2016
Validation team reviewed the correction on revised PDD version 09 dated on 29/10/2015, it is confirmed that the total GHG emission reductions for the chosen crediting period provided.	
CAR01 is now closed	

<b>CAR ID</b>	02	<b>Section no.</b>	D.1	<b>Date:</b> 21/08/2015
<b>Description of CAR</b>				
<i>The reference web link provided for 'Tool to calculate the emission factor for an electricity system version 02.2.1' is referring to version 02.2.0 not version 02.2.1.</i>				
<b>Project participant response</b>				<b>Date:</b> 12/10/2015
The reference web link for "Tool to calculate the emission factor for an electricity system version 02.2.1" has been updates				
<b>Documentation provided by project participant</b>				
Revised PDD version 8 dated on 12/10/2015				
<b>DOE assessment</b>				<b>Date:</b> 11/05/2015
Validation team reviewed the revised reference web link provided ( <a href="http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-07-v2.2.1.pdf">http://cdm.unfccc.int/methodologies/PAMethodologies/tools/am-tool-07-v2.2.1.pdf</a> ) in revised PDD version 08 dated on 12/10/2015. It is confirmed that the reference web link is now corrected.				
The revision is satisfied and CAR02 is closed.				

<b>CAR ID</b>	03	<b>Section no.</b>	D.1	<b>Date:</b> 21/08/2015
<b>Description of CAR</b>				
<i>With reference to Appendix 6 of revised PDD version 07 dated on 03/07/2015, there is no information on summary of the changes, including the reasons for the changes and any additional information relating to the changes to the PDD.</i>				
<b>Project participant response</b>				<b>Date:</b> 12/10/2015
The summary of the project changes including reasons for the changes and additional information to the changes have been added in Appendix 6 of PDD				
<b>Documentation provided by project participant</b>				
Revised PDD version 8 dated on 12/10/2015				
<b>DOE assessment</b>				<b>Date:</b> 11/05/2015
Validation team reviewed the revision of Appendix 6 on revised PDD version 08 dated on 12/10/2015. It is confirmed that the summary of changes including the reasons for the changes and any additional information relating to the changes to the PDD are now provided.				
CAR03 is now closed				

<b>CAR ID</b>	04	<b>Section no.</b>	D.1	<b>Date:</b> 21/08/2015
<b>Description of CAR</b>				
<i>With reference to Table 2 under section B.2 of revised PDD, the justification provided for applicable criteria no.3 was deviated from registered PDD and this deviation was not addressed in submitted MR.</i>				
<b>Project participant response</b>				<b>Date:</b> 12/10/2015
The justification no.3 has been revised to be the same as the registered PDD "The project activity has no reservoir and it is implemented on a run-of-river. Thus, this criterion is not applicable for the project activity"				
<b>Documentation provided by project participant</b>				
Revised PDD version 8 dated on 12/10/2015				
<b>DOE assessment</b>				<b>Date:</b> 11/05/2015

Validation team reviewed the revision on justification no.3 under Table 2 of revised PDD version 08 dated on 12/10/2015. It is confirmed that the description provided is now consistent with registered PDD dated on 30/11/2012 and there is no deviation on this issue.
The revision is satisfied and CAR04 is closed.

<b>CAR ID</b>	05	<b>Section no.</b>	D.1	<b>Date:</b> 21/08/2015
<b>Description of CAR</b>				
<i>With reference to Table 2 under section B.2 of revised PDD, the specification of turbines and generators provided in justification of applicable criteria no.5 was deviated from registered PDD and other part of revised PDD.</i>				
<b>Project participant response</b>				<b>Date:</b> 12/10/2015
<i>The justification no.1, 5 and 6 have been revised to be the same as the registered PDD "The project does not incorporate a mix of renewable and non-renewable components. The project involves the installation of two turbines of 6.4 MW each and two generators of 6.2 MW each thus remaining under the 15 MW limit required by the methodology"</i>				
<b>Documentation provided by project participant</b>				
<i>Revised PDD version 8 dated on 12/10/2015</i>				
<b>DOE assessment</b>				<b>Date:</b> 11/05/2015
Validation team reviewed the revision on justification no.1, 5, and 6 under Table 2 of revised PDD version 08 dated on 12/10/2015. This is also in line with findings during onsite inspection. It is confirmed that the description provided is now consistent with registered PDD dated on 30/11/2012 and there is no deviation on this issue.				
Hence, CAR05 is now closed.				

<b>CAR ID</b>	06	<b>Section no.</b>	D.6	<b>Date:</b> 21/08/2015
<b>Description of CAR</b>				
<i>The revised description provided under QA/QC procedures of section B.7.1 for parameter <math>EG_{export,y}</math> and <math>EG_{import,y}</math> are the emergency procedures for the case of meter failure not QA/QC procedure.</i>				
<b>Project participant response</b>				<b>Date:</b> 12/10/2015
<i>QA/QC procedure for parameter <math>EG_{export,y}</math> and <math>EG_{import,y}</math> have been added as below;</i>				
<i>QA/QC procedure for <math>EG_{export,y}</math></i> <i>"The reading data from the electricity meters are recorded in the reading export meter report by EGAT officer. Then these data shall be verified by off-taker party (PEA officer). The verified data shall be countersigned by PEA and EGAT officer."</i>				
<i>QA/QC procedure for <math>EG_{import,y}</math></i> <i>"Data measured by meters and recorded in the monthly report will be cross checked against electricity invoice sent by PEA for electricity import. In case of main meter failure, the data from back up meter will be applied in such period.</i> <i>The energy meter will be calibrated at least once in two years subject to national standards."</i>				
<b>Documentation provided by project participant</b>				
<i>Revised PDD version 8 dated on 12/10/2015</i>				
<b>DOE assessment</b>				<b>Date:</b> 11/05/2015
Validation team accepted the description provided in revised PDD version 8 dated on 12/10/2015 and had no further issue on this.				
CAR06 is closed.				

<b>CAR ID</b>	07	<b>Section no.</b>	D.3	<b>Date:</b> 11/05/2015
<b>Description of CAR</b>				
<i>With reference to findings during onsite inspection on 28/10/2015, it is observed that rated capacity on name plate for both generator is 7294 KVA not 6.2 MW as mentioned in registered PDD and revised PDD.</i>				
<b>Project participant response</b>				<b>Date:</b> 29/02/2016

*It is a typo error or missed place figure.  
The unit of rated capacity should be "KVA" not "MW", therefore the revised PDD has been updated as follows:  
Rated capacity = 7,294 KVA  
Rated power = 6.2 MW  
Please refer to the specification during validation "Specification of generator & turbine at validation stage.pdf" or table 2-4 technical data of the project activity in the public Validation Report*

<b>Documentation provided by project participant</b>	
<i>Specification of generator &amp; turbine at validation stage.pdf</i>	
<b>DOE assessment</b>	<b>Date:</b> 28/03/2016
Validation team reviewed the evidence 'Specification of generator & turbine at validation stage.pdf'. The justification is accepted. The evidence is consistent with the actual name plate.	
CAR07 is closed.	

<b>CAR ID</b>	08	<b>Section no.</b>	D.6	<b>Date:</b> 11/05/2015
<b>Description of CAR</b>				
<i>With reference to interviewed session on 28/10/2015, there is no summary report provided quarterly as described in registered PDD and revised PDD.</i>				
<b>Project participant response</b>				<b>Date:</b> 29/02/2016
<i>The report is done by monthly basis, therefore the quarterly report has been removed</i>				
<b>Documentation provided by project participant</b>				
<i>Revised PDD version 8 dated on 12/10/2015</i>				
<b>DOE assessment</b>				<b>Date:</b> 28/03/2016
Validation team accepted the justification provided by PP. This is consistent with the monthly summary report observed during onsite inspection. Furthermore, this is more frequently compared to the registered PDD. Hence, this is accepted.				
CAR08 is closed.				

Table 3. FAR from this validation

<b>FAR ID</b>	N/A	<b>Section no.</b>	N/A	<b>Date:</b> N/A
<b>Description of FAR</b>				
N/A				
<b>Project participant response</b>				<b>Date:</b> N/A
N/A				
<b>Documentation provided by project participant</b>				
N/A				
<b>DOE assessment</b>				<b>Date:</b> N/A
N/A				