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Validation Report

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VALIDATION OF THE CDM-PROJECT:
SICHUAN KANGDING SANDAOQIAO HYDROPOWER
STATION

REPORT NO. 1053623

2008, July 31st

TÜV SÜD Industrie Service GmbH
Carbon Management Service
Westendstr. 199 - 80686 Munich – GERMANY

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Subject: Validation of a CDM Project	
Accredited TÜV SÜD Unit: TÜV SÜD Industrie Service GmbH Certification Body "climate and energy" Westendstr. 199 - 80686 Munich Federal Republic of Germany	TÜV SÜD Contract Partner: TÜV Italia Srl Via Carducci, 125 20099 Sesto San Giovanni (MI) Italy
Client: South Pole Carbon Asset Management Ltd. Technoparkstrasse 1 CH-8005 Zürich Switzerland	Project Site(s): Kangding Country, Ganzi Tibetan Autonomous Prefecture, Sichuan Province P.R. of China Geographical Coordinates: - Power House: Latitude: 30°21'07" N Longitude: 102°07'36" E - Dam: Latitude: 30°19'35" N Longitude: 102°05'58" E
Project Title: Sichuan Kangding Sandaoqiao Hydropower Station	
Applied Methodology / Version: ACM0002 version 6	Scope(s): 1
First PDD Version: Date of issuance: 2007-09-13 Version No.: 1.0 Starting Date of GSP 2007-09-27	Final PDD version: Date of issuance: 2008-06-20 Version No.: 2.0
Estimated Annual Emission Reduction: 118,553 tons CO _{2e}	
Assessment Team Leader: Dr. Sven Kolmetz	Further Assessment Team Members: Luciano Grugni Xiong Rencheng
Summary of the Validation Opinion: <input checked="" type="checkbox"/> The review of the project design documentation and the subsequent follow-up interviews have provided TÜV SÜD with sufficient evidence to determine the fulfilment of all stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM. Hence TÜV SÜD will recommend the project for registration by the CDM Executive Board in case letters of approval of all Parties involved will be available before the expiring date of the applied methodology(ies) or the applied methodology version respectively. <input type="checkbox"/> The review of the project design documentation and the subsequent follow-up interviews have not provided TÜV SÜD with sufficient evidence to determine the fulfilment of all stated criteria. Hence TÜV SÜD will not recommend the project for registration by the CDM Executive Board and will inform the project participants and the CDM Executive Board on this decision.	

Abbreviations

ACM	Approved Consolidated Methodology
AM	Approved Methodology
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CR	Clarification Request
DNA	Designated National Authority
DOE	Designated Operational Entity
EB	Executive Board
EIA / EA	Environmental Impact Assessment / Environmental Assessment
ER	Emission reduction
GHG	Greenhouse gas(es)
KP	Kyoto Protocol
MP	Monitoring Plan
NGO	Non Governmental Organisation
PDD	Project Design Document
PP	Project Participant
TÜV SÜD	TÜV SÜD Industrie Service GmbH
UNFCCC	United Nations Framework Convention on Climate Change
VVM	Validation and Verification Manual

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Annex 1: Validation Protocol

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1 INTRODUCTION

1.1 Objective

The validation objective is an independent assessment by a Third Party (Designated Operational Entity = DOE) of a proposed project activity against all defined criteria set for the registration under the Clean Development Mechanism (CDM). Validation is part of the CDM project cycle and will finally result in a conclusion by the executing DOE whether a project activity is valid and should be submitted for registration to the CDM-EB. The ultimate decision on the registration of a proposed project activity rests at the CDM Executive Board and the Parties involved.

The project activity discussed by this validation report has been submitted under the project title:
Sichuan Kangding Sandaoqiao Hydropower Station.

1.2 Scope

The scope of any assessment is defined by the underlying legislation, regulation and guidance given by relevant entities or authorities. In the case of CDM project activities the scope is set by:

- The Kyoto Protocol, in particular § 12
- Decision 2/CMP1 and Decision 3/CMP.1 (Marrakech Accords)
- Further COP/MOP decisions with reference to the CDM (e.g. decisions 4 – 8/CMP.1)
- Decisions by the EB published under <http://cdm.unfccc.int>
- Specific guidance by the EB published under <http://cdm.unfccc.int>
- Guidelines for Completing the Project Design Document (CDM-PDD), and the Proposed New Baseline and Monitoring Methodology (CDM-NM)
- The applied approved methodology
- The technical environment of the project (technical scope)
- Internal and national standards on monitoring and QA/QC
- Technical guideline and information on best practice

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

Once TÜV SÜD receives a first PDD version, it is made publicly available on the internet at TÜV SÜD's webpage as well as on the UNFCCC CDM-webpages for starting a 30 day global stakeholder consultation process (GSP). In case of any request a PDD might be revised (under certain conditions the GSP will be repeated) and the final PDD will form the basis for the final evaluation as presented by this report. Information on the first and on the final PDD version is presented at page 1.

The only purpose of a validation is its use during the registration process as part of the CDM project cycle. Hence, TÜV SÜD can not be held liable by any party for decisions made or not made based on the validation opinion, which will go beyond that purpose.

2 METHODOLOGY

The project assessment aims at being a risk based approach and is based on the methodology developed in the Validation and Verification Manual, an initiative of Designated and Applicant Entities, which aims to harmonize the approach and quality of all such assessments.

In order to ensure transparency, a validation protocol was customised for the project. TÜV SÜD developed a “cook-book” for methodology-specific checklists and protocol based on the templates presented by the Validation and Verification Manual. The protocol shows, in a transparent manner, criteria (requirements), the discussion of each criterion by the assessment team and the results from validating the identified criteria. The validation protocol serves the following purposes:

- It organises, details and clarifies the requirements a CDM project is expected to meet;
- It ensures a transparent validation process where the validator will document how a particular requirement has been validated and the result of the validation.

The validation protocol consists of three tables. The different columns in these tables are described in the figure below.

The completed validation protocol is enclosed in Annex 1 to this report.

Validation Protocol Table 1: Conformity of Project Activity and PDD				
Checklist Topic / Question	Reference	Comments	PDD in GSP	Final PDD
<i>The checklist is organised in sections following the arrangement of the applied PDD version. Each section is then further subdivided. The lowest level constitutes a checklist question / criterion.</i>	<i>Gives reference to documents where the answer to the checklist question or item is found in case the comment refers to documents other than the PDD.</i>	<i>The section is used to elaborate and discuss the checklist question and/or the conformance to the question. It is further used to explain the conclusions reached. In some cases sub-checklist are applied indicating yes/no decisions on the compliance with the stated criterion. Any Request has to be substantiated within this column</i>	<i>Conclusions are presented based on the assessment of the first PDD version. This is either acceptable based on evidence provided (✓), or a Corrective Action Request (CAR) due to non-compliance with the checklist question (See below). Clarification Request (CR) is used when the validation team has identified a need for further clarification.</i>	<i>Conclusions are presented in the same manner based on the assessment of the final PDD version.</i>

Validation Protocol Table 2: Resolution of Corrective Action and Clarification Requests			
Clarifications and corrective action requests	Ref. to table 1	Summary of project owner response	Validation team conclusion
<i>If the conclusions from table 1 are either a Corrective Action Request or a Clarification Request, these should be listed in this section.</i>	<i>Reference to the checklist question number in Table 1 where the Corrective Action Request or Clarification Request is explained.</i>	<i>The responses given by the client or other project participants during the communications with the validation team should be summarised in this section.</i>	<i>This section should summarise the validation team's responses and final conclusions. The conclusions should also be included in Table 1, under "Final PDD".</i>

In case of a denial of the project activity more detailed information on this decision will be presented in table 3.

Validation Protocol Table 3: Unresolved Corrective Action and Clarification Requests		
Clarifications and corrective action requests	Id. of CAR/CR 1	Explanation of the Conclusion for Denial
<i>If the final conclusions from table 2 results in a denial the referenced request should be listed in this section.</i>	<i>Identifier of the Request.</i>	<i>This section should present a detail explanation, why the project is finally considered not to be in compliance with a criterion.</i>

2.1 Appointment of the Assessment Team

According to the technical scopes and experiences in the sectoral or national business environment TÜV SÜD has composed a project team in accordance with the appointment rules of the TÜV SÜD certification body “climate and energy”. The composition of an assessment team has to be approved by the Certification Body ensuring that the required skills are covered by the team. The Certification Body TÜV SÜD operates four qualification levels for team members that are assigned by formal appointment rules:

- Assessment Team Leader (ATL)
- Greenhouse Gas Auditor (GHG-A)
- Greenhouse Gas Auditor Trainee (T)
- Experts (E)

It is required that the sectoral scope linked to the methodology has to be covered by the assessment team.

The validation team was consisting of the following experts (the responsible Assessment Team Leader is written in bold letters):

Name	Qualification	Coverage of technical scope	Coverage of sectoral expertise	Host country experience
Dr. Sven Kolmetz	ATL	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Luciano Grugni	GHG - A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Mr. Xiong Rencheng	GHG - A		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Dr. Sven Kolmetz is physicist and ATL at the department “TÜV Carbon Management Service” located in the head office of TÜV SÜD in Munich. Furthermore he is officially authorized expert in the verification of GHG emissions in the framework of the European Emission Trading Scheme. Before entering TÜV SÜD he worked as energy consultant for industrial companies and as consultant for the German Federal Government on instruments for the reduction of GHG emissions.

Mr. Luciano Grugni is an auditor for environmental management systems and JI/CDM at the department “Climate, Energy and Environment” of the Italian branch of TÜV SÜD Group. He has been involved in the topic of environmental auditing, monitoring and verification due to the requirements of the Kyoto Protocol. His main focus lies on emissions trading audits and renewable energies.

Mr. Xiong Rencheng is an auditor for environmental management systems and JI/CDM at TÜV SÜD China. He is based in Shenzhen. He has received training in the CDM validation process and participated already in several CDM project assessments

2.2 Review of Documents

The first PDD version submitted by the client and additional background documents related to the project design and baseline were reviewed as initial step of the validation process. A complete list of all documents and proofs reviewed is attached as annex 2 to this report.

2.3 Follow-up Interviews

In the period of October 8, 2007 TÜV SÜD performed interviews on-site with project stakeholders to confirm selected information and to resolve issues identified in the first document review. The table below provides a list of all persons interviewed in the context of this on-site visit.

Name	Organisation
Mr. Hu Shunzhi	Kangding Jineng Hydropower Exploitation Co.,Ltd.
Mr. Ke Zhenghua	Kangding Jineng Hydropower Exploitation Co.,Ltd.
Ms. Wang Ting	Beijing Tiangqing Power International CDM Consulting Co.,Ltd.
Mr. Yang Aiming	Beijing Tiangqing Power International CDM Consulting Co.,Ltd.
Mr. Yang Jingqou	Beijing Tiangqing Power International CDM Consulting Co.,Ltd.
Mr. Pang Liangyi	Beijing Tiangqing Power International CDM Consulting Co.,Ltd.
Mr. Marco Hirsbrunner	South Pole Carbon Asset Management Ltd

2.4 Resolution of Clarification and Corrective Action Requests

The objective of this phase of the validation is to resolve the requests for corrective actions and clarifications and any other outstanding issues which needed to be clarified for TÜV SÜD's positive conclusion on the project design. The Corrective Action Requests and Clarification Requests raised by TÜV SÜD were resolved during communication between the client and TÜV SÜD. To guarantee the transparency of the validation process, the concerns raised and responses that have been given are summarised in chapter 3 below and documented in more detail in the validation protocol in annex 1.

2.5 Internal Quality Control

As final step of a validation the validation report and the protocol have to undergo an internal quality control procedure by the Certification Body "climate and energy", i.e. each report has to be approved either by the head of the certification body or his deputy. In case one of these two persons is part of the assessment team approval can only be given by the other one.

It rests at the decision of TÜV SÜD's Certification Body whether a project will be submitted for requesting registration by the EB or not.

3 SUMMARY OF FINDINGS

As informed above all findings are summarized in table 2 of the attached validation protocol.

History of the validation process

The audit team has been provided with a draft PDD in September 2007. Based on this documentation a document review and a fact finding mission in form of an on-site audit has taken place. Afterwards the client decided to revise the PDD according to the CARs and CRs indicated in the audit process. The final PDD version submitted in June 2008 serves as the basis for the assessment presented herewith. Changes are not considered to be significant with respect to the qualification of the project as a CDM project based on the two main objectives of the CDM to achieve a reduction of anthropogenic GHG emissions by sources and to contribute to sustainable development.

Project description

The construction and operation of a diversion type hydropower station in Xiasuozigou Drainage Area, Kangding City, Ganzi Tibetan Autonomous Prefecture, Sichuan Province in China is the main objective of the proposed project. The total installed capacity of 30MW is provided by two 15 MW turbines matched with two generators.

With an average annual operating hours of 5,246 hours, the power plant will generate an expected electricity of 157,380 MWh. A total amount of 125,526 MWh will be supplied to the Central China Grid: in particular, a 110kV line will transmit the electricity to the Sichuan Grid and finally to the Central China Power Grid.

As the Central China Grid is dominated by fossil-fired power plants, greenhouse gas (GHG) emission reduction could be achieved: the annual average emission reduction is estimated to be 118,553 tCO₂eq.

Findings

In total the assessment team expressed 3 Clarification Requests and 10 Corrective Action Requests. The required documents (English version of the IRR calculation excel sheet, benchmark) have been submitted to the DOE accordingly and other formal aspects of the proposed project (project location, emission reduction etc.) have been verified accordingly to the PDD. In particular with CAR 1 it has been requested to add a revision history of the PDD, with CAR 2 an inconsistency regarding the exact value of the estimated power supplied to the grid has been resolved and CAR 3 asked to provide the geographical GPS coordinates for both the dam and the power station of the proposed project.

The discussion of the alternative baseline scenarios with reference to the compliance to applicable laws and regulation (CAR 4) has been clarified and accordingly revised in final PDD. To have a complete overview of the results of sensitivity analysis was asked to PPs to perform it including the variation of revenue from electricity sale (CAR 5); according to CAR 6 it has been then requested to strengthen the common practice argumentation and to provide the relevant evidences.

The monitoring section diagram was revised in the final PDD (CAR 7) and an inconsistency clarified regarding date of commissioning (CAR 8). The environmental impact assessment was the object of CAR 9 and 10: the discussion has been revised in a more clear and transparent manner in PDD and the date of approval corrected. Furthermore, with CR1 the main evidences for the economic as-

assessment and the prove for early consideration of CDM, have been provided to DOE with relevant English translation; as consequence of CR 2 the PPs have decided to withdraw from the final PDD the barrier analysis. The use of the most conservative database for emission factor has been the object of CR 3 that has been resolved by the PPs with a revised calculation in final PDD.

Besides some minor corrections on baseline scenarios and monitoring procedures and some formal issues these were the main findings. After all the open questions has been closed, the PDD could have been considered in compliance with the CDM requirements.

Baseline calculation

According to methodology ACM0002, baseline emission are equal to the power supplied to grid, multiplied by baseline emission factor EF_y . The baseline emission factor is calculated as a combined margin (CM): a weighted average of the Operating Margin Emission Factor ($EF_{OM,y}$) and the Build Margin Emission Factor ($EF_{BM,y}$).

The OM Emission Factor has been calculated on the basis of the most recent data announced by China's DNA in the "*Notification on Determining the Regional Grid Emission Factors of China*", published on December 15th, 2006, deviating at some points by using the original data published in the China Energy Statistical Yearbook, China Electric Power Yearbook and IPCC 2006.

The Build Margin Emission Factor ($EF_{BM,y}$) adopts modified methods agreed by the EB for the approved methodologies AM0005 and AMS I.D. because plant specific data are not available in China. The Build Margin calculation is derived from the "*Notification on Determining the Regional Grid Emission Factors of China*", published by the Chinese DNA (Director Office of National Climate Change Coordination of NDRC) on December 15th, 2006, deviating at some points by using the original data published in the China Energy Statistical Yearbook, China Electric Power Yearbook and IPCC 2006.

It has been verified that the ex-ante baseline emission factor calculation, leads to a conservative estimation of the value: the Combined Baseline Emission Factor of the Central China Grid used by project participants corresponds to 0.94445 tCO₂e/MWh which is lower than the same indicated by the National Climate Change Coordination of NDRC which corresponds to 0.97455 tCO₂e/MWh.

As greenhouse gases emission from the project can be considered to be zero and no leakage calculation is required according to ACM0002 methodology, the emission reductions are equal to baseline emissions.

Additionality

The assessment team has reviewed all the documents provided by the project participants to prove the additionality. The proofs for the early consideration of applying for CDM to support project activities have been verified: the project participant have demonstrated that the decision was taken in an early stage. Based on the outcome from the Feasibility Study Report for 24MW capacity, completed in August 2005, the PPs decided to apply for the CDM in October 2005; the conclusion of the FSR was in fact that, even though the IRR of 8.88% allowed to overcome the bank loan interest, the gap from the relevant sectoral benchmark (10%) led the PPs to look for a way to increase the financial feasibility of the project. Based on the outcome of the FSR, the project owner decided also to increase the capacity up to 30MW and the financial analysis was consequently updated and revised. The Capacity Optimization Report (December 2005) indicated that the initial calculation led to an overestimated IRR, as the final IRR figure was 7.88%. According to this result, the PPs confirmed the need for CDM to implement the project and signed a contract with the CDM developers on March 2006. The main construction started on June 2006, one month after the project owner got approval from the local government to apply for the CDM and on July 2007 the LoA from the Chinese DNA was received.

In step one of applying the tool for the demonstration and assessment of additionality (hereafter: additionality tool) it is concluded that there exist alternatives to the proposed project activity and the additionality criteria is fulfilled. Step two of the additionality tool, investment analysis through benchmark analysis, describes in detail that the proposed project is not financially attractive without CER revenues. The assessment team has checked all sources of the IRR calculation, as presented in Sub-step 2c. in the PDD.

Furthermore the calculation spreadsheet and the source of the benchmark (10%) was checked: the "Economic Evaluation Code for Small Hydropower Projects" issued by the Ministry of Water Resources in 1995 has been in fact considered as the relevant source for this kind of project; furthermore the same source has been used as reference in the first and second economical assessment. The values from the Capacity Optimization Report (30 MW) dated December 2005 and approved by the Local Authority on December 2006 have been the basis of the decision to proceed with the investment in the project. Based on the same grid price of 0.207 Yuan RMB/kWh as in the first FSR, and according to updated data, the Capacity Optimization Report has been the basis for the conclusion that the CDM revenue was necessary to implement the project.

The period of time between the finalization of the Capacity Optimization Report (December 2005) and the investment decision (contract for equipment purchase, dated June 2006) is sufficiently short for the DOE to confirm that it is unlikely in the context of the underlying project activity that the input values would have materially changed.

It has been verified that the values used in the PDD and associated annexes are fully consistent with the Capacity Optimization Report. In particular the total investment cost and the operating cost have been considered acceptable because within the range of other similar plants. The grid price of 0.207 Yuan RMB/ kWh (with VAT) has been verified as the most reasonable and conservative to be used.

A sensitivity analysis is performed, by taking into account 10% variations in electricity sale, total investment costs and O&M costs and on the amount of electricity supplied to the grid. It deems reasonable to use the applied variables, they present well realistic variations of these key parameters. To conclude the sensitivity analysis it can be stated that under none of the assumed variation of variables the benchmark of 10% is met. Furthermore, DOE confirms that the choice to perform 10% variations is reasonable; in fact, the investment costs are supposed to increase lowering the IRR, a decrease in the annual operating costs have a little impact on the increase of IRR and an increase in the electricity supplied is highly improbable due to the fact that the power plant operation has been optimized with respect to actual water availability and rainfall patterns; definitely, an increase in the electricity revenue during the operation period is unlikely to occur because the grid price that have been estimated in the Capacity Optimization Report was based on a local regulation from the Kangding Pricing Bureau.

We thus conclude the project is financially unattractive without CER revenues.

The common practice analysis has been performed considering the Sichuan Province as the relevant geographical extension. To verify the appropriateness of this choice, has been requested to project participants to demonstrate why, as written in the PDD, the projects located in different provinces cannot be included in the analysis; with this perspective, the differences of Sichuan Province in terms of investment conditions and water resources availability have been demonstrated considering the amounts of the total investment in water resources projects among the different provinces in Central China Grid.

Twenty-four projects located in the area of Sichuan Province, within a capacity range of 15MW to 50MW have been identified; the choice for the capacity range has been done by project participant according to the "small scale" projects range as defined in the Almanac of China's Water Power (2005). Out of these projects, 17 started operation before 2002 under different market environment and conditions as proved in PDD providing many links to webpages of public interest, whose source

has been verified by DOE (for references, please see Annex 2). Furthermore, has effectively verified that in 2002 the first Power System Reform Blue Print has been introduced, building a competitive and open market and creating a different investment environment not comparable with the previous one. The differences regarding the remaining seven projects have been explained in PDD and verified by the DOE: Tongkou Station, Wan'er Station and Fuliutan Station state owned companies and got favourable conditions in terms of grid price and investments availability leading to incomparable economical benchmarks; Niujaowan Third Level Station, Baishuihe Station and Shazui Station have higher utilization times and/or obtained higher grid prices; furthermore, Niujaowan Station had a unit investment sensibly lower than the proposed project, as well as Shazui Station, even though slightly lower. The remaining project, Zhongzui Hydropower Station, faces the similar barrier and is applying for CDM, as verifiable from the PDD of the project activity "Sichuan Lushan Dachuan River Cascade Hydropower Bundle Project" under validation at the time of writing.

The combination of these differences as resultant from these argumentations and the relative evidences provided by PPs lead DOE to confirm the conclusion of common practice analysis as stated in the PDD.

To conclude the additionality assessment we can state that, according to all the documents we have reviewed, the additionality of the project based on the available information is fulfilled.

4 COMMENTS BY PARTIES, STAKEHOLDERS AND NGOS

TÜV SÜD published the project documents on UNFCCC website by installing a link to TÜV SÜD's own website and invited comments by Parties, stakeholders and non-governmental organisations during a period of 30 days.

The following table presents all key information on this process:

webpage: http://www.netinform.de/KE/Wegweiser/Guide2_1.aspx?ID=3791&Ebene1_ID=26&Ebene2_ID=1150&mode=1	
Starting date of the global stakeholder consultation process: 2007-09-27	
Comment submitted by: -	Issues raised: -
Response by TÜV SÜD: -	

5 VALIDATION OPINION

TÜV SÜD has performed a validation of the following proposed CDM project activity:

Sichuan Kangding Sandaoqiao Hydropower Station.

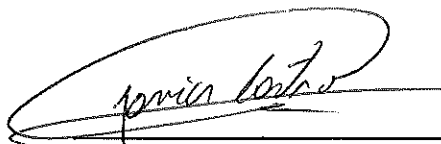
The review of the project design documentation and the subsequent follow-up interviews have provided TÜV SÜD with sufficient evidence to determine the fulfilment of stated criteria. In our opinion, the project meets all relevant UNFCCC requirements for the CDM. Hence TÜV SÜD will recommend the project for registration by the CDM Executive Board.

An analysis as provided by the applied methodology demonstrates that the proposed project activity is not a likely baseline scenario. Emission reductions attributable to the project are hence additional to any that would occur in the absence of the project activity. Given that the project is implemented as designed, the project is likely to achieve the estimated amount of emission reductions as specified within the final PDD version.

The validation is based on the information made available to us and the engagement conditions detailed in this report. The validation has been performed using a risk based approach as described above. The only purpose of this report is its use during the registration process as part of the CDM project cycle. Hence, TÜV SÜD can not be held liable by any party for decisions made or not made based on the validation opinion, which will go beyond that purpose.

Munich, 2008-07-31

Munich, 2008-07-31



Certification Body "climate and energy"
TÜV SÜD Industrie Service GmbH



Assessment Team Leader



Annex 1: Validation Protocol

Validation Protocol

Project Title: Sichuan Kangding Sandaoqiao Hydropower Station

Date of Completion: 2008-07-31

Number of Pages: 32



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Table 1 Conformity of Project Activity and PDD

CHECKLIST TOPIC / QUESTION		Ref.	COMMENTS	PDD in GSP	Final PDD
A. General description of project activity					
A.1. Title of the project activity					
A.1.1.	Does the used project title clearly enable to identify the unique CDM activity?	1, 2	The project is titled with the name of the project location, and the energy source of the project. Hence, it can be clearly identified.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.1.2.	Are there any indication concerning the revision number and the date of the revision?	1, 2	The available PDD is indicated as 1 st version dated Sep. 13, 2007. <u>Corrective Action Request No.1.</u> A revision history of the PDD should be included.	CAR 1	<input checked="" type="checkbox"/>
A.1.3.	Is this consistent with the time line of the project's history?	1, 2, 7, 8, 9, 10, 11, 12	The GSP has been started with this version. The project Environmental Impact Assessment (EIA) was approved on Oct.24, 2007 by Environmental Protection Bureau of Ganzi Tibetan Autonomous Prefecture. The project Feasibility Study Report (FSR) and Capacity Optimization Report was approved on Dec. 8, 2005 and Dec. 28, 2006 respectively by the Development and Reform Commission of Ganzi Tibetan Autonomous Prefecture. Project construction started in June 2006 and its completion is expected by July 2008. The expected starting date of electricity generation is August, 2008.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2. Description of the project activity					
A.2.1.	Is the description delivering a transparent overview of the project activities?	1, 2	The project is described transparently. It is a run-of-river hydro power project, located in Xiasuozigou Drainage Area, in Kangding County, Ganzi Tibetan Autonomous Prefecture, Sichuan Province, China. The total installed capacity is 30 MW. On the average, the project activity is expected to operate 5,246 hours per year, which corresponds to an average power generation of 157,380 MWh and a net electricity supply to the grid of 125,526 MWh. The power generated will be connected to the Central China Power Grid.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Validation Protocol

Project Title: Sichuan Kangding Sandaoqiao Hydropower Station

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CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS	PDD in GSP	Final PDD
A.2.2. What proofs are available demonstrating that the project description is in compliance with the actual situation or planning?	1, 2, 6, 7, 8, 9, 10, 11, 15	The project activity is the displacement of electricity generated by coal fired power plants with electricity generated by hydro power. The following documents deliver evidences for the project activity: <ul style="list-style-type: none"> - Feasibility study and its approval - EIA and EIA approval - Pre-approval of land expropriation - Capacity Optimization Report and its approval These documents have been evidenced during the audit.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.3. Is the information provided by these proofs consistent with the information provided by the PDD?	1, 2,	Yes, it is. During the on site audit, the audit team reviewed these proofs provided by the project owner. They are consistent with the information provided by the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.2.4. Is all information presented consistent with details provided by further chapters of the PDD?	1, 2, 41	<u>Corrective Action Request No.2.</u> The power supplied to the grid is estimated to be 125,526.3MWh per year, but it is 125,526 MWh per year in Table B.2. Please resolve the inconsistency, and corresponding estimated emission reduction should be recalculated if necessary.	CAR 2	<input checked="" type="checkbox"/>
A.3. Project participants				
A.3.1. Is the form required for the indication of project participants correctly applied?	1, 2	The form is correctly applied. In Table A.1 and Annex 1 of the PDD the two parties involved in the project are mentioned.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.3.2. Is the participation of the listed entities or Parties confirmed by each one of them?	1, 2, 32, 78, 79	<u>Open Issue</u> The letter of approval from Austria and Switzerland is not yet emitted. They should be provided to the DOE before submitting for registration.	Open Issue	<input checked="" type="checkbox"/>
A.3.3. Is all information on participants / Parties provided in consistency with details provided by further chapters of the PDD (in	1, 2	Yes, it is.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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particular annex 1)?				
A.4. Technical description of the project activity				
<i>A.4.1. Location of the project activity</i>				
A.4.1.1. Does the information provided on the location of the project activity allow for a clear identification of the site(s)?	1, 2, 41	<p>The proposed project activity is located in the middle reaches of Xia-suozi River, which is a branch of Dadu River, within the boundary of Kangding County, Ganzi Tibetan Autonomous Prefecture, Sichuan Province, P.R. China.</p> <p><u>Corrective Action Request No.3.</u></p> <p>The information provided on the location of the project activity doesn't allow for a clear identification of the site, please submit the GPS of the dam and powerhouse with degree, minute and second format.</p>	CAR 3	<input checked="" type="checkbox"/>
A.4.1.2. How is it ensured and/or demonstrated, that the project proponents can implement the project at this site (ownership, licenses, contracts etc.)?	1,2, 8, 10, 12, 14	The project was approved by the local Development and Reform Commission and the EIA of the proposed project was approved by the local Environmental Protection Bureau.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>A.4.2. Category(ies) of project activity</i>				
A.4.2.1. To which category(ies) does the project activity belonging to? Is the category correctly identified and indicated?	1, 2	Yes, the project falls into scope 1, Energy industries (renewable/non-renewable sources) as it deals with energy generation.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
<i>A.4.3. Technology to be employed by the project activity</i>				
A.4.3.1. Does the technical design of the project activity reflect current good practices?	1, 2	Yes, the project design reflects the current good practices based on the description in the feasibility study report and the investigation on	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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		site. It is a state-of-the-art hydropower station.		
A.4.3.2. Does the description of the technology to be applied provide sufficient and transparent input/ information to evaluate its impact on the greenhouse gas balance?	1,2, 21	Yes, the project activity comprises the use of water power for the substitution of grid supplied electricity mainly from coal fired plants. Therefore two units of CJA475-L-150/4x11.5 turbines, and two units of SF15-10/3250 generators matched with turbines with the total installed capacity of 30MW are utilized. There is no doubt that this technology will reduce the GHG emissions significantly.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.3. Does the implementation of the project activity require any technology transfer from annex-I countries to the host country(ies)?	1,2, 21	No, it doesn't. There is no technology transfer from annex-I countries to China by the proposed project.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.4. Is the technology implemented by the project activity environmentally safe?	1,2, 21	Yes. As the project is a hydro power project. It's clear that the technology implemented by the project activity is environmentally safe.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.5. Is the information provided in compliance with actual situation or planning?	1,2, 21	Yes, it is.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.6. Does the project use state of the art technology and / or does the technology result in a significantly better performance than any commonly used technologies in the host country?	1,2, 21	Because the technology of installing a new hydropower plant has been fully developed and successfully implemented over China for decades, the technology applied in the proposed project is not different compared to that of other similar hydropower plants.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.7. Is the project technology likely to be substituted by other or more efficient technologies within the project period?	1,2, 21	We do not expect that there will be a substitution because the equipments have been installed and the expected starting date of electricity generation is August, 2008. The life time of the project is under normal circumstances longer than the crediting period.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.8. Does the project require extensive initial training and maintenance efforts in order to be carried out as scheduled during the project period?	1,2	With relevance to the CDM monitoring, a monitoring officer will receive training on the monitoring methodologies, procedures and archiving. Then, the monitoring officer will train the project staff in charge for CDM monitoring.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.3.9. Is information available on the demand and requirements for training and main-	1,2	The effort to train the employees initially and during the operation phase was described by the project owner during the audit and the	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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tenance?		demand and requirements were defined in written form.		
A.4.3.10. Is a schedule available for the implementation of the project and are there any risks for delays?	1,2	The planning schedule in the past and for the future was clearly described by the project owner during the audit, and is included in the Table B.2.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.4. Estimated amount of emission reductions over the chosen crediting period				
A.4.4.1. Is the form required for the indication of projected emission reductions correctly applied?	1,2	The project emission reductions are shown in chapter A.4.4 according to the guidelines.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.4.2. Are the figures provided consistent with other data presented in the PDD?	1,2	Yes, they are. The yearly emission reduction is estimated to amount 118, 553 tCO ₂ e. The same figure is quoted throughout the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.5. Public funding of the project activity				
A.4.5.1. Is the information provided on public funding provided in compliance with the actual situation or planning as available by the project participants?	1,2	According to the statement in A.4.5. of the PDD there is no public funding for the project activity. By reviewing the financial documents on-site this statement could be verified.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
A.4.5.2. Is all information provided consistent with the details given in remaining chapters of the PDD (in particular annex 2)?	1,2	Yes, it is consistent with the information provided in Annex 2.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B. Application of a baseline and monitoring methodology				
B.1. Title and reference of the approved baseline and monitoring methodology				
B.1.1. Are reference number, version number, and title of the baseline and monitoring methodology clearly indicated?	1,2	Yes, it is ACM0002/Version 06 along with the <i>Tool for the Demonstration and Assessment of Additionality (version 3.)</i>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.1.2. Is the applied version the most recent one and / or is this version still applicable?	1,2	Version 6 of ACM0002: "Consolidated baseline methodology for grid-connected electricity generation from renewable source" and version 3 of "the Tool for the Demonstration and Assessment of Additionality"	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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		are applied, and they are the most recent ones.												
B.2. Justification of the choice of the methodology and why it is applicable to the project activity														
B.2.1. Is the applied methodology considered the most appropriate one?	1,2	Yes, the baseline and monitoring methodology ACM0002 is applicable to the proposed project, because the project meets all the applicability criteria stated in the methodology: 1. The proposed Project activity involves an electricity capacity addition from a run-of-river hydro power project; 2. The proposed Project activity does not involve fuel switching from fossil fuels to renewable energy at the site of the project activity; 3. The geographic and system boundaries for the relevant electricity grid can be clearly identified and information on the characteristic of the grid is available.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										
B.2.2. Criterion 1: Type of capacity addition by renewable energy	1,2	<table><tr><th>Applicability checklist</th><th>Yes / No</th></tr><tr><td>Criterion discussed in the PDD?</td><td>Yes</td></tr><tr><td>Compliance provable?</td><td>Yes</td></tr><tr><td>Evidences provided in the PDD?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>	Applicability checklist	Yes / No	Criterion discussed in the PDD?	Yes	Compliance provable?	Yes	Evidences provided in the PDD?	Yes	Compliance verified?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No													
Criterion discussed in the PDD?	Yes													
Compliance provable?	Yes													
Evidences provided in the PDD?	Yes													
Compliance verified?	Yes													
B.2.3. Criterion 2: Exclusion of fuel switching activities	1,2	<table><tr><th>Applicability checklist</th><th>Yes / No</th></tr><tr><td>Criterion discussed in the PDD?</td><td>Yes</td></tr><tr><td>Compliance provable?</td><td>Yes</td></tr><tr><td>Evidences provided in the PDD?</td><td>Yes</td></tr><tr><td>Compliance verified?</td><td>Yes</td></tr></table>	Applicability checklist	Yes / No	Criterion discussed in the PDD?	Yes	Compliance provable?	Yes	Evidences provided in the PDD?	Yes	Compliance verified?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Applicability checklist	Yes / No													
Criterion discussed in the PDD?	Yes													
Compliance provable?	Yes													
Evidences provided in the PDD?	Yes													
Compliance verified?	Yes													
B.2.4. Criterion 3: Defined electricity grid boundaries	1,2	<table><tr><th>Applicability checklist</th><th>Yes / No</th></tr><tr><td>Criterion discussed in the PDD?</td><td>Yes</td></tr><tr><td>Compliance provable?</td><td>Yes</td></tr><tr><td>Evidences provided in the PDD?</td><td>Yes</td></tr></table>	Applicability checklist	Yes / No	Criterion discussed in the PDD?	Yes	Compliance provable?	Yes	Evidences provided in the PDD?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
Applicability checklist	Yes / No													
Criterion discussed in the PDD?	Yes													
Compliance provable?	Yes													
Evidences provided in the PDD?	Yes													

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		Compliance verified?	Yes													
B.2.5. Criterion 4: Approved inclusion in other methodologies (if applied only)	1,2	N.A														
B.3. Description of the sources and gases included in the project boundary																
B.3.1. Source: Fugitive Emissions from non-condensable gases (geothermal activities only) Gas(es): CO ₂ , CH ₄ Type: Project Emissions	1,2	<table><tr><th>Boundary checklist</th><th>Yes / No</th></tr><tr><td>Source and gas(es) discussed by the PDD?</td><td>N/A</td></tr><tr><td>Inclusion / exclusion justified?</td><td>N/A</td></tr><tr><td>Explanation / Justification sufficient?</td><td>N/A</td></tr><tr><td>Consistency with monitoring plan?</td><td>N/A</td></tr></table> <p>The project consists of a grid-connected electricity generation from a run-of-river hydropower station. As per methodology ACM0002, CO₂, CH₄ emissions are not to be considered.</p>			Boundary checklist	Yes / No	Source and gas(es) discussed by the PDD?	N/A	Inclusion / exclusion justified?	N/A	Explanation / Justification sufficient?	N/A	Consistency with monitoring plan?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No															
Source and gas(es) discussed by the PDD?	N/A															
Inclusion / exclusion justified?	N/A															
Explanation / Justification sufficient?	N/A															
Consistency with monitoring plan?	N/A															
B.3.2. Source: Emissions from combustion of fossil fuels (geothermal activities only) Gas(es): CO ₂ Type: Project Emissions	1,2	<table><tr><th>Boundary checklist</th><th>Yes / No</th></tr><tr><td>Source and gas(es) discussed by the PDD?</td><td>N/A</td></tr><tr><td>Inclusion / exclusion justified?</td><td>N/A</td></tr><tr><td>Explanation / Justification sufficient?</td><td>N/A</td></tr><tr><td>Consistency with monitoring plan?</td><td>N/A</td></tr></table>			Boundary checklist	Yes / No	Source and gas(es) discussed by the PDD?	N/A	Inclusion / exclusion justified?	N/A	Explanation / Justification sufficient?	N/A	Consistency with monitoring plan?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No															
Source and gas(es) discussed by the PDD?	N/A															
Inclusion / exclusion justified?	N/A															
Explanation / Justification sufficient?	N/A															
Consistency with monitoring plan?	N/A															
B.3.3. Source: Emissions from the reservoir (new hydroelectric activities only) Gas(es): CO ₂ , CH ₄ Type: Project Emissions	1,2	<table><tr><th>Boundary checklist</th><th>Yes / No</th></tr><tr><td>Source and gas(es) discussed by the PDD?</td><td>N/A</td></tr><tr><td>Inclusion / exclusion justified?</td><td>N/A</td></tr><tr><td>Explanation / Justification sufficient?</td><td>N/A</td></tr><tr><td>Consistency with monitoring plan?</td><td>N/A</td></tr></table>			Boundary checklist	Yes / No	Source and gas(es) discussed by the PDD?	N/A	Inclusion / exclusion justified?	N/A	Explanation / Justification sufficient?	N/A	Consistency with monitoring plan?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No															
Source and gas(es) discussed by the PDD?	N/A															
Inclusion / exclusion justified?	N/A															
Explanation / Justification sufficient?	N/A															
Consistency with monitoring plan?	N/A															

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B.3.4. Source: Emissions from electricity generation in fossil fuel fired power plants of the project electricity system Gas(es): CO ₂ Type: Baseline Emissions	1,2	<table><tr><th>Boundary checklist</th><th>Yes / No</th></tr><tr><td>Source and gas(es) discussed by the PDD?</td><td>N/A</td></tr><tr><td>Inclusion / exclusion justified?</td><td>N/A</td></tr><tr><td>Explanation / Justification sufficient?</td><td>N/A</td></tr><tr><td>Consistency with monitoring plan?</td><td>N/A</td></tr></table>	Boundary checklist	Yes / No	Source and gas(es) discussed by the PDD?	N/A	Inclusion / exclusion justified?	N/A	Explanation / Justification sufficient?	N/A	Consistency with monitoring plan?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No													
Source and gas(es) discussed by the PDD?	N/A													
Inclusion / exclusion justified?	N/A													
Explanation / Justification sufficient?	N/A													
Consistency with monitoring plan?	N/A													
B.3.5. Source: Emissions from electricity generation in fossil fuel fired power plants of any connected electricity system Gas(es): CO ₂ Type: Baseline Emissions	1,2	<table><tr><th>Boundary checklist</th><th>Yes / No</th></tr><tr><td>Source and gas(es) discussed by the PDD?</td><td>Yes</td></tr><tr><td>Inclusion / exclusion justified?</td><td>Yes</td></tr><tr><td>Explanation / Justification sufficient?</td><td>Yes</td></tr><tr><td>Consistency with monitoring plan?</td><td>Yes</td></tr></table>	Boundary checklist	Yes / No	Source and gas(es) discussed by the PDD?	Yes	Inclusion / exclusion justified?	Yes	Explanation / Justification sufficient?	Yes	Consistency with monitoring plan?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No													
Source and gas(es) discussed by the PDD?	Yes													
Inclusion / exclusion justified?	Yes													
Explanation / Justification sufficient?	Yes													
Consistency with monitoring plan?	Yes													
B.3.6. Source: Emissions from electricity generation in fossil fuel fired power plants of imported electricity Gas(es): CO ₂ Type: Baseline Emissions	1,2	<table><tr><th>Boundary checklist</th><th>Yes / No</th></tr><tr><td>Source and gas(es) discussed by the PDD?</td><td>N/A</td></tr><tr><td>Inclusion / exclusion justified?</td><td>N/A</td></tr><tr><td>Explanation / Justification sufficient?</td><td>N/A</td></tr><tr><td>Consistency with monitoring plan?</td><td>N/A</td></tr></table> <p>As per methodology ACM0002, only CO₂ emissions from electricity generation in fossil fuel fired power that is displaced due to the project activity are accounted.</p>	Boundary checklist	Yes / No	Source and gas(es) discussed by the PDD?	N/A	Inclusion / exclusion justified?	N/A	Explanation / Justification sufficient?	N/A	Consistency with monitoring plan?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Boundary checklist	Yes / No													
Source and gas(es) discussed by the PDD?	N/A													
Inclusion / exclusion justified?	N/A													
Explanation / Justification sufficient?	N/A													
Consistency with monitoring plan?	N/A													
B.3.7. Do the spatial and technological boundaries as verified on-site comply with the discussion provided by the PDD?	1,2	Yes. The project boundary for the proposed project is represented by the Central China Power Grid. The Central China Grid is a larger regional grid, which consists of six sub-grids: Henan Province, Hubei	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>										

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			Province, Hunan Province, Jiangxi Province, Sichuan Province and Chongqing City. Furthermore the project boundary includes the project site.		
B.4. Description of how the baseline scenario is identified and description of the identified baseline scenario					
B.4.1.	Is it clearly described that the baseline is represented by the combined margin of the grid the activity will be connected to?	1,2	Yes, the baseline is represented by the combined margin of the grid the activity will be connected to. It is the equivalent annually generated electricity supplied by the Central China Power Grid.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4.2.	In case of any modification or retrofit of existing facilities: Is data available to determine the historic production level?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.4.3.	In case of any modification or retrofit of existing facilities: Have conservative assumptions been applied in order to estimate the point in time when the existing equipment needs to be replaced?	1,2	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5. Description of how the anthropogenic emissions of GHG by sources are reduced below those that would have occurred in the absence of the registered CDM project activity (assessment and demonstration of additionality):					
B.5.1.	Is evidence provided, that CDM has been considered seriously in the decision to proceed with the project activity?	1,2,3	Yes, two main evidences have been provided by PPs: <ul style="list-style-type: none"> - the Board Decision of the project owner, dated 8 October 2005; - the Contract with the CDM developer, dated 8 March 2006; It's therefore confirmed that the CDM has been seriously considered in the decision to proceed with the project activity (the project construction started on June 2007).	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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B.5.2. Have realistic and credible alternatives been identified providing comparable outputs or services? (step 1a)	1,2,3	Yes, the project sponsor is a hydro project developer, then the possible alternatives to the project includes: <ul style="list-style-type: none"> - The proposed hydropower activity, undertaken without being registered as a CDM project activity; - New thermal fossil fuel fired power plant with equivalent annual power generation; - Other new renewable energy power plants with equivalent annual power generation. - The equivalent annual electricity is supplied by the Central China Power Grid. 		
B.5.3. Is the project activity without CDM included in these alternatives? (step 1a)	1,2,3	Yes, it is included as first option.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.4. Is a discussion provided for all identified alternatives concerning the compliance with applicable laws and regulations? (step 1b)	1,2,3 41	The conclusion in Sub-step 1b is that only the alternative 1 and 4 are in compliance with Chinese relevant laws and regulation. <u>Corrective Action Request No.4.</u> Please provide the discussion for alternative 3 concerning the compliance with applicable laws and regulation.	CAR 4	<input checked="" type="checkbox"/>
B.5.5. In case the PDD argues that specific laws are not enforced in the country or region: Is evidence available concerning that statement? (step 1b)	1,2,3	All the laws quoted in the PDD are enforced in this project; hence, this section is not applicable.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.6. In case of applying step 2 / investment analysis of the additionality tool: Is the analysis method identified appropriately (step 2a)?	1,2,3	3 analysis methods are provided according to the additionality tool. Because the proposed project generates economic benefits through the sales of electricity other than CDM revenue, therefore, the Option I (simple cost analysis) can't be taken. Moreover, the Option II (investment comparison analysis) only applies to projects where alternatives should be similar investment projects, however, in this case, the baseline scenario is the Central China Grid; hence, Option II	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Table 1 is applicable to ACM0002, version 06 with ex-ante determination of CM

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the utilized data?				
B.5.12. In case of applying step 3 (barrier analysis) of the additionality tool: Is a complete list of barriers developed that prevent the different alternatives to occur?	1,2,3	See 5.12	See CR2	<input checked="" type="checkbox"/>
B.5.13. In case of applying step 3 (barrier analysis): Is transparent and documented evidence provided on the existence and significance of these barriers?	1,2,3 41	<u>Clarification Request No.2.</u> The argumentations to support these analysis are not project specific and they are valid for all projects; please provide the transparent and documented evidence on the barrier of uncertainty of electricity sale and more detailed information on the other barriers.	CR 2	<input checked="" type="checkbox"/>
B.5.14. In case of applying step 3 (barrier analysis): Is it transparently shown that the execution of at least one of the alternatives is not prevented by the identified barriers?	1,2,3	See 5.12	See CR2	<input checked="" type="checkbox"/>
B.5.15. Have other activities in the host country / region similar to the project activity been identified and are these activities appropriately analyzed by the PDD (step 4a)?	1,2,3 24, 27, 41, 42 to 76	Basic information about concerning existing hydropower stations similar to the proposed activity (recently constructed or under construction with installed capacity between 25 and 75 MW, are given in Table B.5, Chapter B.5. of the PDD. <u>Corrective Action Request No.6.</u> The common practice analysis is not sufficient and related proofs are not available. Reference documents and data sources must be delivered to the DOE .	CAR 6	<input checked="" type="checkbox"/>
B.5.16. If similar activities are occurring: Is it demonstrated that in spite of these similarities the project activity would not be implemented without the CDM component (step 4b)?	1,2,3 ,7,9, 26	The project faces financial barrier which would prevent the implementation of the proposed project activity without CDM. CDM helps to overcome these financial unfeasibility. If the project could not be implemented, the power will be supplied by the Central China Power Grid.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.5.17. Is it appropriately explained how the approval of the project activity will help to	1,2	Not applicable.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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overcome the economic and financial hurdles or other identified barriers?				
B.6. Emissions reductions				
<i>B.6.1. Explanation of methodological choices</i>				
B.6.1.1. Is it explained how the procedures provided in the methodology are applied by the proposed project activity?	1, 2	<p>The calculation of the emission reduction is applied according to the steps described in ACM0002:</p> <ul style="list-style-type: none"> - Calculation of the Operating Margin Emission Factor - Calculation of the Build Margin Emission Factor - Calculation of the Combined Margin Emission Factor <p>These steps are described in a transparent manner.</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.2. Is every selection of options offered by the methodology correctly justified and is this justification in line with the situation verified on-site?	1, 2	Yes, every selection of options offered by the methodology is correctly justified and this justification is in line with the situation verified on-site.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.3. Are the formulae required for the determination of project emissions correctly presented, enabling a complete identification of parameter to be used and / or monitored?	1,2	<p>Not applicable</p> <p>The project activity is a run-of-river hydropower project. Therefore, according to the ACM0002 methodology, greenhouse gas emissions from the project activity are zero, i.e. $PE_y = 0$.</p>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.4. Are the formulae required for the determination of baseline emissions correctly presented, enabling a complete identification of parameter to be used and / or monitored?	1,2, 33, 41	<p>Yes, see Equation in the PDD.</p> $BE_y = EG_y \times EF_y$ <p>Yes, the formulae are correctly presented.</p> <p><u>Clarification Request No.3.</u></p> <p>Please check if all data quoted by NDRC are correct against the data source, and provide the spreadsheet calculation to the assessment</p>	CR 3	<input checked="" type="checkbox"/>

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		team in order to allow reproduction of the emission factor calculation.		
B.6.1.5. Is the choice of options to determine the emissions factor (OM, BM) justified in a suitable and transparent manner?	1,2, 33	Yes, the choice of options to determine the Emission Factor is fully justified in the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.6. In case of alternative weighing factors for the Combined Margin: Is the quantification of the alternative weighing factor justified in a suitable and transparent manner?	1,2	Not applicable. The default weights for hydro power projects in the 6 th version of ACM0002 (OM 0.5 and BM 0.5 respectively) are used.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.7. In case of alternative weighing factors for the Combined Margin: Is the guidance for the PDD concerning the acceptability of alternative weights considered in the discussion?	1,2	See B.6.1.6.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.8. Are the formulae required for the determination of leakage emissions correctly presented, enabling a complete identification of parameter to be used and / or monitored?	1,2	No leakage is considered according to the methodology. Based on ACM0002, as discussed project participants do not need to consider leakage in applying ACM0002 methodology, i.e. $L_y=0$.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.1.9. Are formulae required for the determination of emission reductions correctly presented?	1,2	Yes, see Equation in the PDD. $ER_y = BE_y = EG_y \times EF_y$	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.2. Data and parameters that are available at validation				
B.6.2.1. Is the list of parameters presented in chapter B.6.2 considered to be complete with regard to the requirements of the applied methodology?	1,2	Yes. A list of parameters is presented according to ACM0002.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.2.2. Is the choice of ex-ante or ex-post vintage of OM and BM factors clearly specified in the PDD?	1,2	For the calculation of the emission reductions the ex-ante approach has been used.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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B.6.2.3. Parameter Title: Annual electricity supplied to the grid prior to retrofit (applicable only for retrofit and modification activities)	1, 2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Choice of data correctly justified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
Data unit correctly expressed?	N/A																					
Appropriate description of parameter?	N/A																					
Source clearly referenced?	N/A																					
Correct value provided?	N/A																					
Has this value been verified?	N/A																					
Choice of data correctly justified?	N/A																					
Measurement method correctly described?	N/A																					
B.6.2.4. Parameter Title: Emission factor of the grid (CM)	1, 2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Choice of data correctly justified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr></table> <p>Emission factor of the grid is calculated as a combined margin: the weighted average of the operating margin emission factor ($EF_{OM,y}$) and the build margin emission factor ($EF_{BM,y}$).</p>	Data Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided?	Yes	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	Measurement method correctly described?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	Yes																					
Data unit correctly expressed?	Yes																					
Appropriate description of parameter?	Yes																					
Source clearly referenced?	Yes																					
Correct value provided?	Yes																					
Has this value been verified?	Yes																					
Choice of data correctly justified?	Yes																					
Measurement method correctly described?	Yes																					
B.6.2.5. Parameter Title: Operating margin (OM) emission factor of the grid	1, 2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description?	Yes	Source clearly referenced?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>								
Data Checklist	Yes / No																					
Title in line with methodology?	Yes																					
Data unit correctly expressed?	Yes																					
Appropriate description?	Yes																					
Source clearly referenced?	Yes																					

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		<table><tr><td>Correct value provided?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Choice of data correctly justified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr></table>	Correct value provided?	Yes	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	Measurement method correctly described?	Yes													
Correct value provided?	Yes																						
Has this value been verified?	Yes																						
Choice of data correctly justified?	Yes																						
Measurement method correctly described?	Yes																						
		The simple OM method was chosen to calculate the OM, $EF_{OM, simple, y}$ (see Equation B.1).																					
B.6.2.6. Parameter Title: Build margin (BM) emission factor of the grid	1, 2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Choice of data correctly justified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided?	Yes	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	Measurement method correctly described?	Yes		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																						
Title in line with methodology?	Yes																						
Data unit correctly expressed?	Yes																						
Appropriate description of parameter?	Yes																						
Source clearly referenced?	Yes																						
Correct value provided?	Yes																						
Has this value been verified?	Yes																						
Choice of data correctly justified?	Yes																						
Measurement method correctly described?	Yes																						
		$EF_{BM, y}$ is calculated as the generation weighted average emission factor (measured in tCO ₂ e/MWh) of a sample of m power plants (see Equation B.3).																					
B.6.2.7. Parameter Title: fuel consumption of each power source	1, 2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Choice of data correctly justified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided?	Yes	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	Measurement method correctly described?	Yes		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																						
Title in line with methodology?	Yes																						
Data unit correctly expressed?	Yes																						
Appropriate description of parameter?	Yes																						
Source clearly referenced?	Yes																						
Correct value provided?	Yes																						
Has this value been verified?	Yes																						
Choice of data correctly justified?	Yes																						
Measurement method correctly described?	Yes																						

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		Fuel consumption of thermal power plants: <i>China Energy Statistical Yearbook</i> (2004-2006).																				
B.6.2.8. Parameter Title: emission coefficient of each fuel	1, 2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Choice of data correctly justified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
Data unit correctly expressed?	N/A																					
Appropriate description of parameter?	N/A																					
Source clearly referenced?	N/A																					
Correct value provided?	N/A																					
Has this value been verified?	N/A																					
Choice of data correctly justified?	N/A																					
Measurement method correctly described?	N/A																					
B.6.2.9. Parameter Title: electricity generation of each power source	1, 2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Choice of data correctly justified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr></table> <p>A coal-fired power plant with a total installed capacity of 600MW is assumed to be the commercially available best practice technology in terms of efficiency. The estimated coal consumption of such a National Sub-critical Power Station with a capacity of 600MW is 336.66gce/kWh, which corresponds to an efficiency of 36.53% for electricity generation.</p>	Data Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided?	Yes	Has this value been verified?	Yes	Choice of data correctly justified?	Yes	Measurement method correctly described?	Yes	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	Yes																					
Data unit correctly expressed?	Yes																					
Appropriate description of parameter?	Yes																					
Source clearly referenced?	Yes																					
Correct value provided?	Yes																					
Has this value been verified?	Yes																					
Choice of data correctly justified?	Yes																					
Measurement method correctly described?	Yes																					

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B.6.2.10. Parameter Title: surface area of full reservoir level (for new hydroelectric activities only)	1, 2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Choice of data correctly justified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
Data unit correctly expressed?	N/A																					
Appropriate description of parameter?	N/A																					
Source clearly referenced?	N/A																					
Correct value provided?	N/A																					
Has this value been verified?	N/A																					
Choice of data correctly justified?	N/A																					
Measurement method correctly described?	N/A																					
B.6.2.11. Parameter Title: fraction of time with low costs /must run plant at the margin (for simple adjusted OM only)	1, 2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Choice of data correctly justified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	Has this value been verified?	N/A	Choice of data correctly justified?	N/A	Measurement method correctly described?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
Data unit correctly expressed?	N/A																					
Appropriate description of parameter?	N/A																					
Source clearly referenced?	N/A																					
Correct value provided?	N/A																					
Has this value been verified?	N/A																					
Choice of data correctly justified?	N/A																					
Measurement method correctly described?	N/A																					
B.6.2.12. Parameter Title: electricity imports	1,2	<table><tr><th>Data Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided?</td><td>N/A</td></tr></table>	Data Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>						
Data Checklist	Yes / No																					
Title in line with methodology?	N/A																					
Data unit correctly expressed?	N/A																					
Appropriate description of parameter?	N/A																					
Source clearly referenced?	N/A																					
Correct value provided?	N/A																					

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		Has this value been verified?	N/A		
		Choice of data correctly justified?	N/A		
		Measurement method correctly described?	N/A		
B.6.2.13. Parameter Title: CO ₂ emission coefficient of fuels used in connected grids	1,2	Data Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	Yes		
		Data unit correctly expressed?	Yes		
		Appropriate description of parameter?	Yes		
		Source clearly referenced?	Yes		
		Correct value provided?	Yes		
		Has this value been verified?	Yes		
		Choice of data correctly justified?	Yes		
		Measurement method correctly described?	Yes		
B.6.3. Ex-ante calculation of emission reductions					
B.6.3.1. Is the projection based on the same procedures as used for future monitoring?	1,2	Yes, it is.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.3.2. Are the GHG calculations documented in a complete and transparent manner?	1,2	Yes, they are		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.3.3. Is the data provided in this section consistent with data as presented in other chapters of the PDD?	1,2	Yes, it is.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.4. Summary of the ex-ante estimation of emission reductions					
B.6.4.1. Will the project result in fewer GHG emissions than the baseline scenario?	1,2	Yes, depending on the project nature there are no project emissions.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.6.4.2. Is the form/table required for the indication of projected emission reductions correctly applied?	1,2	Yes, the form is correctly applied.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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B.6.4.3. Is the projection in line with the envisioned time schedule for the project's implementation and the indicated crediting period?	1,2	The life time of the project is expected to be 30 years and the renewable crediting period of max 7 years with potential for 2 renewals is chosen. The yearly emission reduction and total emission reductions indicated in B.6.4. of the PDD.	☑	☑																								
B.6.4.4. Is the data provided in this section in consistency with data as presented in other chapters of the PDD?	1,2	Yes, it is	☑	☑																								
B.7. Application of the monitoring methodology and description of the monitoring plan																												
B.7.1. Data and parameters monitored																												
B.7.1.1. Is the list of parameters presented by chapter B.7.1 considered to be complete with regard to the requirements of the applied methodology?	1,2	Because the ex-ante approach is adopted, the net electricity fed to the grid is required to be monitored. This parameter has been included in table B.7.1 in the PDD.	☑	☑																								
B.7.1.2. Parameter Title: Electricity supplied to the grid	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>Yes</td></tr><tr><td>Data unit correctly expressed?</td><td>Yes</td></tr><tr><td>Appropriate description of parameter?</td><td>Yes</td></tr><tr><td>Source clearly referenced?</td><td>Yes</td></tr><tr><td>Correct value provided for estimation?</td><td>Yes</td></tr><tr><td>Has this value been verified?</td><td>Yes</td></tr><tr><td>Measurement method correctly described?</td><td>Yes</td></tr><tr><td>Correct reference to standards?</td><td>Yes</td></tr><tr><td>Indication of accuracy provided?</td><td>Yes</td></tr><tr><td>QA/QC procedures described?</td><td>Yes</td></tr><tr><td>QA/QC procedures appropriate?</td><td>Yes</td></tr></table>	Monitoring Checklist	Yes / No	Title in line with methodology?	Yes	Data unit correctly expressed?	Yes	Appropriate description of parameter?	Yes	Source clearly referenced?	Yes	Correct value provided for estimation?	Yes	Has this value been verified?	Yes	Measurement method correctly described?	Yes	Correct reference to standards?	Yes	Indication of accuracy provided?	Yes	QA/QC procedures described?	Yes	QA/QC procedures appropriate?	Yes	☑	☑
Monitoring Checklist	Yes / No																											
Title in line with methodology?	Yes																											
Data unit correctly expressed?	Yes																											
Appropriate description of parameter?	Yes																											
Source clearly referenced?	Yes																											
Correct value provided for estimation?	Yes																											
Has this value been verified?	Yes																											
Measurement method correctly described?	Yes																											
Correct reference to standards?	Yes																											
Indication of accuracy provided?	Yes																											
QA/QC procedures described?	Yes																											
QA/QC procedures appropriate?	Yes																											

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B.7.1.3. Parameter Title: Quantity of steam produced (for geothermal projects only)	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided for estimation?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr><tr><td>Correct reference to standards?</td><td>N/A</td></tr><tr><td>Indication of accuracy provided?</td><td>N/A</td></tr><tr><td>QA/QC procedures described?</td><td>N/A</td></tr><tr><td>QA/QC procedures appropriate?</td><td>N/A</td></tr></table>	Monitoring Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																											
Title in line with methodology?	N/A																											
Data unit correctly expressed?	N/A																											
Appropriate description of parameter?	N/A																											
Source clearly referenced?	N/A																											
Correct value provided for estimation?	N/A																											
Has this value been verified?	N/A																											
Measurement method correctly described?	N/A																											
Correct reference to standards?	N/A																											
Indication of accuracy provided?	N/A																											
QA/QC procedures described?	N/A																											
QA/QC procedures appropriate?	N/A																											
B.7.1.4. Parameter Title: Fraction of CO ₂ in steam produced (for geothermal projects only)	1,2	<table><tr><th>Monitoring Checklist</th><th>Yes / No</th></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided for estimation?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr><tr><td>Correct reference to standards?</td><td>N/A</td></tr><tr><td>Indication of accuracy provided?</td><td>N/A</td></tr><tr><td>QA/QC procedures described?</td><td>N/A</td></tr><tr><td>QA/QC procedures appropriate?</td><td>N/A</td></tr></table>	Monitoring Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Monitoring Checklist	Yes / No																											
Title in line with methodology?	N/A																											
Data unit correctly expressed?	N/A																											
Appropriate description of parameter?	N/A																											
Source clearly referenced?	N/A																											
Correct value provided for estimation?	N/A																											
Has this value been verified?	N/A																											
Measurement method correctly described?	N/A																											
Correct reference to standards?	N/A																											
Indication of accuracy provided?	N/A																											
QA/QC procedures described?	N/A																											
QA/QC procedures appropriate?	N/A																											
B.7.1.5. Parameter Title:	1,2		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>																								

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Fraction of CH ₄ in steam produced (for geothermal projects only)		Monitoring Checklist	Yes / No		
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.6. Parameter Title: Quantity of steam generated during well testing (for geothermal projects only)	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
		Title in line with methodology?	N/A		
		Data unit correctly expressed?	N/A		
		Appropriate description of parameter?	N/A		
		Source clearly referenced?	N/A		
		Correct value provided for estimation?	N/A		
		Has this value been verified?	N/A		
		Measurement method correctly described?	N/A		
		Correct reference to standards?	N/A		
		Indication of accuracy provided?	N/A		
		QA/QC procedures described?	N/A		
		QA/QC procedures appropriate?	N/A		
B.7.1.7. Parameter Title: Fraction of CO ₂ in steam during well	1,2	Monitoring Checklist	Yes / No	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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CHECKLIST TOPIC / QUESTION	Ref.	COMMENTS		PDD in GSP	Final PDD																								
testing (for geothermal projects only)		<table><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided for estimation?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr><tr><td>Correct reference to standards?</td><td>N/A</td></tr><tr><td>Indication of accuracy provided?</td><td>N/A</td></tr><tr><td>QA/QC procedures described?</td><td>N/A</td></tr><tr><td>QA/QC procedures appropriate?</td><td>N/A</td></tr></table>		Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A				
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Indication of accuracy provided?	N/A																												
QA/QC procedures described?	N/A																												
QA/QC procedures appropriate?	N/A																												
B.7.1.8. Parameter Title: Fraction of CH ₄ in steam during well testing (for geothermal projects only)	1,2	<table><tr><td>Monitoring Checklist</td><td>Yes / No</td></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided for estimation?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr><tr><td>Correct reference to standards?</td><td>N/A</td></tr><tr><td>Indication of accuracy provided?</td><td>N/A</td></tr><tr><td>QA/QC procedures described?</td><td>N/A</td></tr><tr><td>QA/QC procedures appropriate?</td><td>N/A</td></tr></table>		Monitoring Checklist	Yes / No	Title in line with methodology?	N/A	Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A	☑	☑
Monitoring Checklist	Yes / No																												
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Correct reference to standards?	N/A																												
Indication of accuracy provided?	N/A																												
QA/QC procedures described?	N/A																												
QA/QC procedures appropriate?	N/A																												
B.7.1.9. Parameter Title: CO ₂ emission coefficient of fuel used by the geothermal plant	1,2	<table><tr><td>Monitoring Checklist</td><td>Yes / No</td></tr><tr><td>Title in line with methodology?</td><td>N/A</td></tr></table>		Monitoring Checklist	Yes / No	Title in line with methodology?	N/A	☑	☑																				
Monitoring Checklist	Yes / No																												
Title in line with methodology?	N/A																												

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(for geothermal projects only)		<table><tr><td>Data unit correctly expressed?</td><td>N/A</td></tr><tr><td>Appropriate description of parameter?</td><td>N/A</td></tr><tr><td>Source clearly referenced?</td><td>N/A</td></tr><tr><td>Correct value provided for estimation?</td><td>N/A</td></tr><tr><td>Has this value been verified?</td><td>N/A</td></tr><tr><td>Measurement method correctly described?</td><td>N/A</td></tr><tr><td>Correct reference to standards?</td><td>N/A</td></tr><tr><td>Indication of accuracy provided?</td><td>N/A</td></tr><tr><td>QA/QC procedures described?</td><td>N/A</td></tr><tr><td>QA/QC procedures appropriate?</td><td>N/A</td></tr></table>		Data unit correctly expressed?	N/A	Appropriate description of parameter?	N/A	Source clearly referenced?	N/A	Correct value provided for estimation?	N/A	Has this value been verified?	N/A	Measurement method correctly described?	N/A	Correct reference to standards?	N/A	Indication of accuracy provided?	N/A	QA/QC procedures described?	N/A	QA/QC procedures appropriate?	N/A		
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Correct reference to standards?	N/A																								
Indication of accuracy provided?	N/A																								
QA/QC procedures described?	N/A																								
QA/QC procedures appropriate?	N/A																								
B.7.2. Description of the monitoring plan																									
B.7.2.1. Is the operational and management structure clearly described and in compliance with the envisioned situation?	1,2	Yes, it is. See B.7.2 (Monitoring Objective, Monitoring Organization, Monitoring Equipment and Program, Data Collection, Calibration, Data Management) of the PDD.		☑	☑																				
B.7.2.2. Are responsibilities and institutional arrangements for data collection and archiving clearly provided?	1,2	Yes. The project owner is responsible for recording this set of data. Electricity sales invoices will also be obtained as an additional check. Data records will be archived for 2 years following the end of the crediting period. A chief monitoring officer will be appointed by the project owner. He/She supervises and verifies metering and recording, collects data (meter's data reading, sales/billing receipts), calculates emission reductions and prepares a monitoring report. See B.7.2 and Annex 4 of the PDD.		☑	☑																				
B.7.2.3. Does the monitoring plan provide current good monitoring practice?	1,2	Yes, see B.7.2. and Annex 4 of the PDD..		☑	☑																				
B.7.2.4. If applicable: Does annex 4 provide useful information enabling a better understanding of the envisioned monitoring provisions?	1,2, 41	<u>Corrective Action Request No.7.</u> The diagram of the location of the power meters presented in the PDD is not in compliance with actual situation, please correct it.		CAR 7	☑																				

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B.8. Date of completion of the application of the baseline study and monitoring methodology an the name of the responsible person(s)/entity(ies)					
B.8.1.	Is there any indication of a date when the baseline was determined?	1,2	Yes, the baseline determination is dated 2008-5-14.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8.2.	Is this consistent with the time line of the PDD history?	1,2	Yes, it is. See also A.1.3.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8.3.	Is the information on the person(s) / entity(ies) responsible for the application of the baseline and monitoring methodology provided consistent with the actual situation?	1,2	Beijing Tianqing Power International CDM Consulting Co., Ltd determined the monitoring methodology.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B.8.4.	Is information provided whether this person / entity is also considered a project participant?	1,2	The above mentioned body is no project participants.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
C. Duration of the project activity / crediting period					
C.1. Duration of the project activity					
C.1.1.	Are the project's starting date and operational lifetime clearly defined and reasonable?	1,2, 41	The commissioning date given in C.1.1 is not consistent with the one in Table.B.2 of section B.5 <u>Corrective Action Request No.8.</u> Please resolve the inconsistency.	CAR 8	<input checked="" type="checkbox"/>
C.2. Choice of the crediting period and related information					
C.2.1.	Is the assumed crediting time clearly defined and reasonable (renewable crediting period of max 7 years with potential for 2	1,2,7 9	7 years with potential for 2 renewals is chosen as the crediting period, because the expected operational lifetime of the project activity is 30 years.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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renewals or fixed crediting period of max. 10 years)?				
D. Environmental impacts				
D.1. Documentation on the analysis of the environmental impacts, including transboundary impacts				
D.1.1. Has the analysis of the environmental impacts of the project activity been sufficiently described?	1,2, 11, 12	Yes, the environmental impacts of the project activity such as dust, interference with communication, radiation, and water usage have been clearly described. <u>Corrective Action Request No.9.</u> The environmental flow should be presented in the PDD in a clear and transparent manner.	CAR 9	<input checked="" type="checkbox"/>
D.1.2. Are there any Host Party requirements for an Environmental Impact Assessment (EIA), and if yes, has an EIA been approved?	1,2, 11, 12	Yes, EIA is a must in the P. R. China for new hydro power projects. The EIA of the proposed project was approved by the local Environment Protection Bureau on April 9, 2007. <u>Corrective Action Request No.10.</u> The date of approval of EIA stated in the PDD is not compliant with actual situation, please correct it.	CAR 10	<input checked="" type="checkbox"/>
D.1.3. Will the project create any adverse environmental effects?	1,2, 11, 12	Referred to the EIA and the approval of EIA, the project will create limited negative environmental impacts.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.1.4. Were transboundary environmental impacts identified in the analysis?	1,2, 11, 12	There is no trans-boundary impact described in EIA report or approval of EIA.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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D.2. If environmental impacts are considered significant by the project participants or the host Party, please provide conclusions and all references to support documentation of an environmental impact assessment undertaken in accordance with the procedures as required by the host Party					
D.2.1.	Have the identified environmental impacts been addressed in the project design sufficiently?	1,2, 11, 12	Refer to the EIA and the approval of EIA, there is no adverse environmental impact from the project activity.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
D.2.2.	Does the project comply with environmental legislation in the host country?	1,2, 11, 12	Yes, the project is in conformity with the environmental legislation of the P. R. China and the EIA has been approved by authorized organization.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E. Stakeholders' comments					
E.1. Brief description how comments by local stakeholders have been invited and compiled					
E.1.1.	Have relevant stakeholders been consulted?	1,2, 23	A stakeholder consultation meeting for the parties interested in the project was organized from 9:00-12:00 Nov. 9, 2006 in Kangding County, Sichuan Province to collect opinions of all the potential stakeholders. Potential stakeholders have been informed about the stakeholder meeting through bulletins in the <i>newspaper Ganzi Daily</i> on November 9, 2006, and via the website of www.tqcdmchina.com .	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.1.2.	Have appropriate media been used to invite comments by local stakeholders?	1,2, 23	Questionnaires have been used to invite comments by local stakeholders.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.1.3.	If a stakeholder consultation process is required by regulations/laws in the host country, has the stakeholder consultation process been carried out in accordance with such regulations/laws?	1,2, 23	There are no regulations/laws in China for carrying out the stakeholder consultation process for this project activity.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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E.1.4.	Is the undertaken stakeholder process that was carried out described in a complete and transparent manner?	1,2, 23	Yes. The process is described in a complete and transparent manner (stakeholder meeting).	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.2. Summary of the comments received					
E.2.1.	Is a summary of the stakeholder comments received provided?	1,2, 23	Yes, a summary of the stakeholder comments received was provided.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
E.3. Report on how due account was taken of any comments received					
E.3.1.	Has due account been taken of any stakeholder comments received?	1,2, 23	Referring to the PDD and filled questionnaires which were gathered from participants and reviewed by the auditor on site, almost all stakeholder comments are positive.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F. Annexes 1 - 4					
Annex 1: Contact Information					
F.1.1.	Is the information provided consistent with the one given under section A.3?	1,2	Yes, it is.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.2.	Is the information on all private participants and directly involved Parties presented?	1,2	Yes, it is.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Annex 2: Information regarding public funding					
F.1.3.	Is the information provided on the inclusion of public funding (if any) in consistency with the actual situation presented by the project participants?	1,2	No public funding is involved in this project activity.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.4.	If necessary: Is an affirmation available that any such funding from Annex-I-	1,2	N.A., see F.1.3.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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countries does not result in a diversion of ODA?					
Annex 3: Baseline information					
F.1.5.	If additional background information on baseline data is provided: Is this information consistent with data presented by other sections of the PDD?	1,2	Yes, the information is consistent with data presented by other section of the PDD.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.6.	Is the data provided verifiable? Has sufficient evidence been provided to the validation team?	1,2	See B.6.1.4.	See B.6.1.4.	<input checked="" type="checkbox"/>
F.1.7.	Does the additional information substantiate / support statements given in other sections of the PDD?	1,2	Yes, it does.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Annex 4: Monitoring information					
F.1.8.	If additional background information on monitoring is provided: Is this information consistent with data presented in other sections of the PDD?	1,2	Not additional background information is provided.	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.9.	Is the information provided verifiable? Has sufficient evidence been provided to the validation team?	1,2	See F.1.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
F.1.10.	Do the additional information and / or documented procedures substantiate / support statements given in other sections of the PDD?	1,2	See F.1.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

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Table 2 Resolution of Corrective Action and Clarification Requests

Clarifications and corrective action requests by validation team	Ref. to table 1	Summary of project owner response	Validation team conclusion
<p>The available PDD is indicated as 1st version dated Sep. 13, 2007.</p> <p><u>Corrective Action Request No.1.</u></p> <p>A revision history of the PDD should be included.</p>	A.1.2	A revision history of the PDD has been included in section A of the PDD.	<p><input checked="" type="checkbox"/></p> <p>This issue is considered to be resolved.</p>
<p><u>Corrective Action Request No.2.</u></p> <p>The power supplied to the grid is estimated to be 125,526.3MWh per year, but it is 125, 526MWh per year in Table B.2. Please resolve the inconsistency, and corresponding estimated emission reduction should be recalculated if necessary.</p>	A.2.4	The power supplied to the grid is estimated to be 125,526 MWh. The data has been corrected.	<p><input checked="" type="checkbox"/></p> <p>This issue is considered to be resolved.</p>
<p><u>Corrective Action Request No.3.</u></p> <p>The information provided on the location of the project activity doesn't allow for a clear identification of the site, please submit the GPS of the dam and powerhouse with degree, minute and second format.</p>	A.4.1.1	The exact location of the power plant is 30°21'07"N 102°07'36"E. The exact location of the dam is 30°19'35"N 102°05'58"E. The PDD has been revised accordingly.	<p><input checked="" type="checkbox"/></p> <p>This issue is considered to be resolved.</p>
<p>The conclusion in Sub-step 1b is that only the alternative 1 and 4 are in compliance with Chinese relevant laws and regulation.</p> <p><u>Corrective Action Request No.4.</u></p> <p>Please provide the discussion for alternative 3 concerning the compliance with applicable laws and regulation.</p>	B.5.4	The first, third and fourth alternatives are in compliance with Chinese relevant laws and regulations. The PDD has been corrected accordingly.	<p><input checked="" type="checkbox"/></p> <p>This issue is considered to be resolved.</p>

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<u>Corrective Action Request No.5.</u> Include the variations of revenue of electricity sale instead of electricity tariff as parameter into sensitivity analysis.	B.5.10	The sensitivity analysis has been changed so it includes variations of revenue of electricity sale instead of variations of electricity tariff.	<input checked="" type="checkbox"/> This issue is considered to be resolved.
The common practice analysis is not sufficient and related proofs are not available. <u>Corrective Action Request No.6.</u> Reference documents and data sources must be delivered to the DOE.	B.5.15	The common practice analysis has been completed and related proofs have been provided to DOE.	<input checked="" type="checkbox"/> All information have been provided and evidences delivered were checked by local auditor.
<u>Corrective Action Request No.7.</u> The diagram of the location of the power meters presented in the PDD is not in compliance with actual situation, please correct it.	B.7.2.4	The diagram in PDD B.7.2 has been replaced by one that complies with the actual situation.	<input checked="" type="checkbox"/> This issue is considered to be resolved.
The commissioning date given in C.1.1 is not consistent with the one in Table.B.2 of section B.5 <u>Corrective Action Request No.8.</u> Please resolve the inconsistency.	C.1.1	The dates have been corrected as follows: Commissioning date: 30/07/2008 Starting date of the first crediting period: 01/10/2008	<input checked="" type="checkbox"/> This issue is considered to be resolved.
<u>Corrective Action Request No.9.</u> The environmental flow should be presented in the PDD in a clear and transparent manner.	D.1.1	In the approval for the EIA for a capacity of 30 MW it is stated that a minimal environmental flow of 0.544 m3/s must be ensured. This has been added to the section "Impact on Aquatic Environment" of section D.1. in the PDD.	<input checked="" type="checkbox"/> This issue is considered to be resolved.
<u>Corrective Action Request No.10.</u> The date of approval of EIA stated in the PDD is not compliance with actual situation, please correct it.	D.1.2	The EIA was approved for a capacity of 30 MW on 24/10/2007. The date in PDD has been corrected.	<input checked="" type="checkbox"/> This issue is considered to be resolved.

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<p><u>Clarification Request No.1.</u></p> <p>1) The economic assessment presented in the feasibility study report should be provided in English and delivered to the DOE.</p> <p>2) Please include the evidence of consideration of CDM before the starting date of the project activity into chapter B.5. as requested by the CDM PDD guidelines.</p>	B.5.10	<p>1) The economic assessment has been translated to English and provided to DOE.</p> <p>2) The evidence of consideration has been included in PDD chapter B.5. and relevant proof has been provided to DOE.</p>	<p><input checked="" type="checkbox"/></p> <p>Both the Feasibility Study Report and the Capacity Optimization Report have been verified by the assessment team; the conclusion of the reports are in compliance with the argumentation in PDD.</p>
<p><u>Clarification Request No.2.</u></p> <p>Please provide the transparent and documented evidence on the barrier of uncertainty of electricity sale.</p>	B.5.13	<p>The argumentations to support these analysis are not project specific and they are valid for all projects; please provide the transparent and documented evidence on the barrier of uncertainty of electricity sale and more detailed information on the other barriers.</p>	<p><input checked="" type="checkbox"/></p> <p>The PPs decided to withdraw the barrier analysis in final PDD as the investment analysis fully demonstrate the additionality requirements.</p>
<p><u>Clarification Request No.3.</u></p> <p>Please check if all data quoted by NDRC are correct against the data source, and provide the spreadsheet calculation to the assessment team in order to allow reproduction of the emission factor calculation.</p>	B.6.1.4 F.1.6	<p>The calculation has been reverted to use the data for the lower emission factor of the year 2006, which represents a more conservative approach with an established data base.</p>	<p><input checked="" type="checkbox"/></p> <p>The CCPG emission factor of the year 2006 and 2007 is 0.94445 tCO₂/MWh and 0.97455 tCO₂/MWh respectively; the emission factor of the year 2006 is more conservative.</p>




Annex 2: Information Reference List

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Reference No.	Document or Type of Information
1	Project Design Document for CDM project “Sichuan Kangding Sandaoqiao Hydropower Station”, version 1.0, dated 13 September 2007.
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3	Tool for the demonstration and assessment of additionality, version 03.
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5	<p>Validation team:</p> <p>Mr. Xiong Rencheng CDM Auditor, TÜV SÜD Shenzhen</p> <p>Mr. Luciano Grugni CDM Auditor, TÜV Italia - TÜV SÜD Group</p> <p>On-site interviews and inspection conducted on October 8th, 2007 by the auditing team of TÜV SÜD.</p> <p>Interviewed persons:</p> <p>Mr. Hu Shunzhi Kangding Jineng Hydropower Exploitation Co.,Ltd.</p> <p>Mr. Ke Zhenghua Kangding Jineng Hydropower Exploitation Co.,Ltd.</p> <p>Ms. Wang Ting Beijing Tiangqing Power International CDM Consulting Co.,Ltd.</p> <p>Mr. Yang Aiming Beijing Tiangqing Power International CDM Consulting Co.,Ltd.</p> <p>Mr. Yang Jingqou Beijing Tiangqing Power International CDM Consulting Co.,Ltd.</p> <p>Mr. Pang Liangyi Beijing Tiangqing Power International CDM Consulting Co.,Ltd.</p> <p>Mr. Marco Hirsbrunner South Pole Carbon Asset Management Ltd</p>
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