


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

Complete this form in accordance with the "Attachment: Instructions for filling out the validation report form for post-registration changes for CDM project activities" at the end of this form.

VALIDATION REPORT ON POST-REGISTRATION CHANGES (PRCs)

Title and reference number of the project activity	Jincheng Sihe Coal Mine CMM Generation Project UNFCCC reference number: 1896
Process track	<input type="checkbox"/> Prior approval <input checked="" type="checkbox"/> Issuance <input type="checkbox"/> Renewal of crediting period
Version number of the validation report on PRCs	Version 01
Completion date of the validation report on PRCs	13/01/2016
Type(s) of PRCs	<input type="checkbox"/> Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline <input checked="" type="checkbox"/> Corrections <input type="checkbox"/> Changes to the start date of the crediting period <input type="checkbox"/> Inclusion of a monitoring plan to a registered project activity <input type="checkbox"/> Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline <input type="checkbox"/> Changes to the project design of a registered project activity <input type="checkbox"/> Types of changes specific to afforestation and reforestation project activities
Version number of PDD to which this report applies	Version 9.1
Project participant(s)	Shanxi Jincheng Anthracite Mining Group Co.,Ltd.; International Bank for Reconstruction and Development as the Trustee of the Prototype Carbon Fund (PCF) and the Trustee of the IBRD-Netherlands Clean Development Mechanism Facility (NCDMF); Netherlands' Ministry of Infrastructure and the Environment (IenM) ; Electrabel S.A; Netherlands' Ministry of Economic Affairs, Agriculture and Innovation (EL&I); Japan Carbon Finance, Ltd.; Kyushu Electric Power Co., Inc. ; Japan International Cooperation Agency (JICA) ; The Chugoku Electric Power Co., Inc. ; Chubu Electric Power Co., Inc. ; Mitsubishi Corporation ; MIT Carbon Fund Co., Ltd. (withdrawn) ; Shikoku Electric Power Company, Incorporated ; Tohoku Electric Power Co., Inc. ; The Tokyo Electric Power Co.,

	Inc; Mitsui & Co., Ltd.; BP Alternative Energy International Ltd. ; Deutsche Bank AG ; ICECAP Carbon Trading Ltd.; Government of Sweden - Swedish Energy Agency; Norsk Hydro ASA ; Government of Norway - Ministry of Foreign Affairs ; Statoil ASA; Fortum Corporation ; Government of Finland - Ministry of Foreign Affairs; GDF SUEZ; Government of Canada - Ministry of Foreign Affairs and International Trade; RWE Power AG			
Host Party	China			
Sectoral scope(s), selected methodology(ies), and where applicable, selected standardized baseline(s)	Project Scope <i>(according to UNFCCC sectoral scope numbers for CDM)</i>	<input type="checkbox"/>	1	Energy Industries (renewable- /non-renewable sources)
		<input type="checkbox"/>	2	Energy distribution
		<input type="checkbox"/>	3	Energy demand
		<input type="checkbox"/>	4	Manufacturing industries
		<input type="checkbox"/>	5	Chemical industry
		<input type="checkbox"/>	6	Construction
		<input type="checkbox"/>	7	Transport
		<input checked="" type="checkbox"/>	8	Mining/Mineral production ¹
		<input type="checkbox"/>	9	Metal production
		<input type="checkbox"/>	10	Fugitive emissions from fuels (solid, oil and gas)
		<input type="checkbox"/>	11	Fugitive emissions from production and consumption of halocarbons and hexafluoride
		<input type="checkbox"/>	12	Solvents use
		<input type="checkbox"/>	13	Waste handling and disposal
		<input type="checkbox"/>	14	Afforestation and Reforestation
		<input type="checkbox"/>	15	Agriculture
		<input type="checkbox"/>	16	Carbon capture and storage
		Applied Methodology(ies) and/or standardized baseline	CDM Methodology: ACM0008 "Consolidated methodology for coal bed methane, coal mine methane and ventilation air methane capture and use for power (electrical or motive) and heat and/or destruction through flaring or flameless oxidation" (version 03)	
Name of DOE	TÜV NORD CERT GmbH			
Name, position and signature of the approver of the validation report on PRCs	Rainer Winter  TÜV NORD JI/CDM Certification Program Final Approval			

¹ As per CDM accreditation standard 06.0

SECTION A. Executive summary

As this assessment was carried out as part of the 12th verification of the project activity please refer to section A of the verification report.

For a detailed project description please refer to the latest approved PDD and/or the latest verification report (to which this report is attached).

SECTION B. Validation team, technical reviewer and approver

On the basis of a competence analysis and individual availabilities an assessment team, consistent of one team leader and 1 additional team members, were appointed. Furthermore also the personnel for the technical review and the final approval were determined.

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

B.1. Validation team member

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)	Involvement in			
						Desk review	On-site inspection	Interview(s)	Validation findings
1.	Team Leader (also verifier)	EI	ZHAO	Xuejiao	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
2	Team Member (Technical Expert)	OR	LI	Meng	-	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

B.2. Technical reviewer and approver of the validation report on PRCs

No.	Role	Type of resource	Last name	First name	Affiliation (e.g. name of central or other office of DOE or outsourced entity)
1.	Technical reviewer	EI	LI	Yongjun	
2	Technical reviewer / Approver	IR	Winter	Rainer	TÜV NORD CERT

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

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

- Appointment of team members and technical reviewers
- A desk review of the registered and revised PDD^{/PDD/} submitted by the client and additional supporting documents
- On-Site assessment (if required)
- Background investigation and follow-up interviews with personnel of the project developer and its contractors,
- Resolution of corrective actions (CARs / CLs) (if any)
- Final reporting
- Technical review
- Final approval.

In this case all activities were carried out as part of the 12th verification of this project activity.

The latest approved as well as the revised PDD and supporting background documents related to the project design and the post registration changes were reviewed.

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

A list all documents reviewed or referenced during this validation is presented in Appendix 3 of the enclosed verification report.

C.2. On-site inspection

Duration of on-site inspection: 04/11/2015-05/11/2015				
No.	Activity performed on-site	Site location	Date	Team member
1.	Opening meeting	Sihe Coal Mine, Jiafeng Town, Qinshui County, Jincheng City, Shanxi Province, P.R. China	04/11/2015	Zhao Xuejiao Li Meng
2	On-site inspection Interview with PP Representative and Operation Staff	Sihe Coal Mine, Jiafeng Town, Qinshui County, Jincheng City, Shanxi Province, P.R. China	04/11/2015	Zhao Xuejiao Li Meng
3	Documents check	Sihe Coal Mine, Jiafeng Town, Qinshui County, Jincheng City, Shanxi Province, P.R. China	05/11/2015	Zhao Xuejiao Li Meng
4	Finding Summary	Sihe Coal Mine, Jiafeng Town, Qinshui County, Jincheng City, Shanxi Province, P.R. China	05/11/2015	Zhao Xuejiao Li Meng
5	Close Meeting	Sihe Coal Mine, Jiafeng Town, Qinshui County, Jincheng City, Shanxi Province, P.R. China	05/11/2015	Zhao Xuejiao Li Meng

C.3. Interviews

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
1.	Sun ^{/11/}	Biao	Shanxi Jincheng Anthracite Mining Group Co., Ltd. /CDM Office Vice Director	04/11/2015-05/11/2015	<ul style="list-style-type: none"> - General aspects of the project - Changes since validation / previous verifications - Calibration procedures - Power generation situation - Quality management system - Involved personnel and responsibilities - Training and practice of the operational personnel - Implementation of the monitoring plan - Monitoring data management - Data uncertainty and residual risks - Procedural aspects of the verification - Maintenance - Environmental aspects 	Zhao Xuejiao Li Meng
2	Song ^{/11/}	Jianguang	Shanxi Jincheng Anthracite Mining Group Co., Ltd. /CDM Office Section Chief	04/11/2015-05/11/2015	<ul style="list-style-type: none"> - General aspects of the project - Changes since validation / previous verifications - Calibration procedures - Power generation situation - Quality management system - Involved personnel and responsibilities - Training and practice of the operational personnel - Implementation of the monitoring plan - Monitoring data management - Data uncertainty and residual risks - Procedural aspects of the verification - Maintenance - Environmental aspects 	Zhao Xuejiao Li Meng
3	Zhang ^{/11/}	Shuhui	Shanxi Jincheng Anthracite Mining Group Co., Ltd. /CDM Office Section Member	04/11/2015-05/11/2015	<ul style="list-style-type: none"> - General aspects of the project - Changes since validation / previous verifications - Calibration procedures - Power generation situation - Quality management system - Involved personnel and responsibilities - Training and practice of the operational personnel - Implementation of the monitoring plan - Monitoring data management - Data uncertainty and residual 	Zhao Xuejiao Li Meng

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
					<ul style="list-style-type: none"> risks - Procedural aspects of the verification - Maintenance - Environmental aspects 	
4	Chen ^{/11/}	Dongfeng	Shanxi Jincheng Anthracite Mining Group Co., Ltd. / Sihe CMM Plant Vice General Manager	04/11/2015-05/11/2015	<ul style="list-style-type: none"> - General aspects of the project - Changes since validation / previous verifications - Calibration procedures - Technical equipment and operation - Monitoring and measurement equipment - Power generation situation - Quality management system - Implementation of the monitoring plan - Calibration procedures - Monitoring data management - Maintenance - Environmental aspects - Involved personnel and responsibilities - Training and practice of the operational personnel - Data uncertainty and residual risks 	Zhao Xuejiao Li Meng
5	Liu ^{/11/}	Fengqin	Shanxi Jincheng Anthracite Mining Group Co., Ltd. / Sihe CMM Plant Technologist	04/11/2015-05/11/2015	<ul style="list-style-type: none"> - Technical equipment and operation - Monitoring and measurement equipment - Power generation situation - Quality management system - Implementation of the monitoring plan - Calibration procedures - Monitoring data management - Maintenance - Environmental aspects - Involved personnel and responsibilities - Training and practice of the operational personnel - Data uncertainty and residual risks 	Zhao Xuejiao Li Meng
6	Huang ^{/11/}	Qiaojin	Shanxi Jincheng Anthracite Mining Group Co., Ltd. / Sihe CMM Plant Technologist	04/11/2015	<ul style="list-style-type: none"> - Technical equipment and operation - Monitoring and measurement equipment - Power generation situation - Quality management system - Implementation of the monitoring plan - Calibration procedures - Monitoring data management 	Zhao Xuejiao Li Meng

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
					<ul style="list-style-type: none"> - Maintenance - Environmental aspects - Involved personnel and responsibilities - Training and practice of the operational personnel - Data uncertainty and residual risks 	
7	Chen ^{/11/}	Jianbing	Shanxi Jincheng Anthracite Mining Group Co., Ltd. / Sihe CMM Plant Duty Chief	04/11/2015	<ul style="list-style-type: none"> - Technical equipment and operation - Monitoring and measurement equipment - Power generation situation - Quality management system - Implementation of the monitoring plan - Calibration procedures - Monitoring data management - Maintenance - Environmental aspects - Involved personnel and responsibilities - Training and practice of the operational personnel - Data uncertainty and residual risks 	Zhao Xuejiao Li Meng
8	Guan ^{/11/}	Wenxing	Shanxi Jincheng Anthracite Mining Group Co., Ltd. / Sihe CMM Plant Operation Staff	04/11/2015	<ul style="list-style-type: none"> - Technical equipment and operation - Monitoring and measurement equipment - Power generation situation - Quality management system - Implementation of the monitoring plan - Calibration procedures - Monitoring data management - Maintenance - Environmental aspects - Involved personnel and responsibilities - Training and practice of the operational personnel - Data uncertainty and residual risks 	Zhao Xuejiao Li Meng
9	Tian ^{/11/}	Caofeng	Shanxi Jincheng Anthracite Mining Group Co., Ltd. / Sihe CMM Plant Operation Staff	04/11/2015	<ul style="list-style-type: none"> - Technical equipment and operation - Monitoring and measurement equipment - Power generation situation - Quality management system - Implementation of the monitoring plan - Calibration procedures - Monitoring data management - Maintenance - Environmental aspects 	Zhao Xuejiao Li Meng

No.	Interviewee			Date	Subject	Team member
	Last name	First name	Affiliation			
					<ul style="list-style-type: none"> - Involved personnel and responsibilities - Training and practice of the operational personnel - Data uncertainty and residual risks 	

C.4. Clarification requests, corrective action requests and forward action requests raised

Areas of validation findings	No. of CL	No. of CAR	No. of FAR
Compliance with PDD form	-	-	-
Temporary deviations from the registered monitoring plan, monitoring methodology or standardized baseline	-	-	-
Corrections	-	-	-
Changes to the start date of the crediting period	-	-	-
Inclusion of a monitoring plan to a registered project activity	-	-	-
Permanent changes from registered monitoring plan, monitoring methodology or standardized baseline	-	-	-
Changes to the project design of a registered project activity	-	-	-
Types of changes specific to afforestation and reforestation project activities	-	-	-
Others (please specify)	-	-	-
Total	-	-	-

SECTION D. Validation findings

D.1. Compliance with PDD form

Means of validation	The project participants used a later version of the PDD form for the revised PDD than the version of the PDD form of the registered PDD. By means of checking updated PDD with the latest applicable and available PDD template form the DOE can confirm that the information transferred to the later version of the PDD form is materially the same as that in the registered PDD besides those changes highlighted and assessed under this report.
Findings	N/A
Conclusion	The updated PDD is in line with the latest applicable PDD from (Version 06.0).

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

Means of validation	N/A
Findings	
Conclusion	

D.3. Corrections

Means of validation	Description of post registration change			
	Start Date: Please provide the start date of the change	01/01/2014	End Date: Please provide the end date of the change, if applicable	21/04/2019
	Description: Please give a detailed description of the change(s)	The value of EF _{ELEC} used in the 12 th periodic MR is 0.98255 tCO ₂ e/MWh, which not in line with the Annex 3 of the latest approved PDD ^{/PDD-LA/} of 0.9810 tCO ₂ e/MWh (version 9.0). During the 11 th periodic verification of the project ^{/VER/} , a FAR		

	<p>was raised due to this inconsistency. Via checking the explanation in the 11th periodic verification report and the GSC PDD, it is confirmed that the value of 0.98255 tCO₂e/MWh is the correct value which should be used for ER calculation, hence, the PDD was revised to version 9.1^{/PDD/}. During the 12th periodic verification, the PRC regarding the correction was submitted with this verification without prior approval.</p> <p>The latest approved PDD^{/PDD-LA/} (version 9.0) was approved by EB on 2014-07-07 due to the Post Registration Change (Ref No. PRC-1896-001) was issued. The Post Registration Change (Ref No. PRC-1896-001) was valid after 2014-01-01. Refer to the website below for PRC detail: https://cdm.unfccc.int/PRCContainer/DB/prcp230867221/view.</p> <p>To check the value of 0.98255 tCO₂e/MWh is correct, the GSC PDD^{/PDD-GSC/} (version 05) is checked, it is confirmed that when the PDD was published for GSC, the calculation value of EF_{ELEC} is 0.9826 tCO₂e/MWh (the roundup value of 0.98255 tCO₂e/MWh). This value is checked as in line with the DNA issued value dated 2006-12-15^{/GEF/} which was the most recent data available at the time of submission of the CDM-PDD to the DOE for validation (2007-03-10).</p> <p>Furthermore, via checking the ex-ante ER calculation sheet^{/XLS/} submitted for registration the project, it is confirmed that the value of 0.98255 tCO₂e/MWh is used in the ex-ante ER calculation sheet.</p> <p>In the section B.6.3 and Annex 3 of the GSC PDD (version 05)^{/PDD-GSC/}, it is confirmed that EF_{OM,y} is 1.0585 tCO₂e/MWh and EF_{BM,y} is 0.9066 tCO₂e/MWh, then the EF_{ELEC} is calculated as (1.0585+0.9066)/2 which is equal to 0.98255 tCO₂e/MWh.</p> <p>Via checking the latest approved PDD (version 9.0) which approved by EB on 2014-07-07 and the registered PDD (version 8.0)^{/PDD-R/}, it is confirmed that the EF calculation in these two version of the PDDs (8.0&9.0) were revised comparing with the GSC PDD(version 05). However, via checking the Validation Report of the project^{/VAL/}, it is confirmed that no CAR or CL involved in the EF calculation. Comparing all the PDDs, it can be concluded that there was some typo mistakes for EF_{ELEC} calculation in the registered PDD(version 8.0) and latest approved PDD(version 9.0).</p> <p>In the latest approved PDD (version 9.0), via checking the page 33 of section B.6.3, it is confirmed that EF_{OM,y} is 1.0585 tCO₂e/MWh and EF_{BM,y} is 0.9066 tCO₂e/MWh, this was demonstrated correctly in line 3 of BE_y calculation. However, in line 4 of BE_y calculation in section B.6.3 and in the Annex 3 of the PDD, the EF_{BM,y} is stated as 0.9035 tCO₂e/MWh which resulted the EF_{ELEC} to 0.9810 tCO₂e/MWh. But via checking the GSC PDD and DNA issued value dated 2006-12-15^{/GEF/}, there is no demonstration that EF_{BM,y} is 0.9035 tCO₂e/MWh and EF_{ELEC} is 0.9810 tCO₂e/MWh. Hence, it can be concluded that the EF_{ELEC} of 0.9810 tCO₂e/MWh is a typo mistake in the latest approved PDD (version 9.0). The value of 0.98255 tCO₂e/MWh should be used for EF_{ELEC}.</p> <p>In order to be consistent, the post registration change – Corrections was used by the PP to revise the value in the latest approved PDD (version 9.0).</p> <p>The PDD was revised to version 9.1. In this version, the EF_{ELEC} is 0.98255 tCO₂e/MWh in all the parts of the PDD. Furthermore, the calculation process to the value of EF_{ELEC} in Annex 3 of the PDD was adjusted, which is totally in line with the official data sources for Grid Emission Factor (North China Grid) published by the Chinese DNA dated 2006-12-15^{/GEF/}.</p>
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		Some tiny faults were revised to be more accurate.	
Assessment of post registration change – Corrections			
	Accuracy: Please give a detailed assessment whether the correction is likely to lead to a reduction in the accuracy of the ER calculation.	Via checking the GSC PDD ^{/PDD-GSC/} and DNA issued value dated 2006-12-15 ^{/GEF/} , there is no demonstration that EF _{BM,y} is 0.9035 tCO ₂ e/MWh and EF _{ELEC} is 0.9810 tCO ₂ e/MWh. Hence, it can be concluded that the EF _{ELEC} of 0.9810 tCO ₂ e/MWh is a typo mistake in the latest approved PDD (version 9.0). The value of 0.98255 tCO ₂ e/MWh should be used for EF _{ELEC} . Hence, it is confirmed that this correction is changed the incorrect value(0.9810 tCO ₂ e/MWh) to be correct(0.98255 tCO ₂ e/MWh). Furthermore, via checking the estimated BE and PE calculation in the Section B.6.3 of the latest approved PDD, it is confirmed that the estimated BE and PE calculation was calculated using the EF _{ELEC} value of 0.98255 tCO ₂ e/MWh. There is no change to the estimated BE and PE calculation in the PDD. Therefore, TÜV NORD assesses that there has been no negative impact on the emission reduction calculation or on the accurate determination of emission reductions. In addition, the actual equation for emission reduction and corresponding procedures are sufficient.	
	Conservative-ness: Please give a detailed assessment whether conservative assumptions or discount factors have been applied to ensure that ER will not be overestimated.	By checking the GSC PDD (version 05), latest approved PDD (version 9.0) and the revised PDD (version 9.1), TÜV NORD confirms that the change of the typo mistake of EF _{ELEC} value is in line with the EB requirement, i.e. the most recent data available at the time of submission of the CDM-PDD to the DOE for validation (2007-03-10) was used (0.98255 tCO ₂ e/MWh). This value is checked as in line with the DNA issued value dated 2006-12-15 ^{/GEF/} . Hence, it is confirmed that the emission reduction determined method is in line with the actual situation of the project, thus it is confirmed that the reasonable assumptions have been applied to ensure that ER will not be overestimated.	
	Appendix 1 PS: Check if the changes fall under one of the scenarios of appendix 1 of the PS.	According to the "Appendix 1: Changes that do not require prior approval by the Executive Board of the clean development mechanism" of the CDM project standard (Version 09.0, CDM-EB65-A05-STAN), it is confirmed that the permanent correction from the latest approved PDD belongs to "Any corrections to project information of a registered clean development mechanism (CDM) project activity or programme of activities (PoA) that do not affect the design of the project activity or the PoA do not require prior approval by the CDM Executive Board (the Board)", which is in line with the term 1 of Appendix 1 of CDM project standard (Version 09.0, CDM-EB65-A05-STAN).	
Findings		N/A	
Conclusion		Based on the above stated the corrections to the registered PDD are in accordance with applicable validation requirements related to the corrections in the VVS.	
Revised PDD			
	Rev. of PDD: Check whether the changes have been fully addressed in a revised PDD.	<input checked="" type="checkbox"/>	The changes have correctly been reflected in the revised PDD.
		<input type="checkbox"/>	A revision of the PDD is not required (in case of temp. changes).
		<input checked="" type="checkbox"/>	The revised PDD has been forwarded in (i) track-change and (ii) clean version.
Prior Approval			
	Prior approval: Assess whether the change requires prior approval of the board	<input type="checkbox"/>	The post registration change requires prior approval
		<input checked="" type="checkbox"/>	The post registration change does not require prior approval

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

Means of validation	N/A
Findings	
Conclusion	

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

Means of validation	N/A
Findings	
Conclusion	

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

Means of validation	N/A
Findings	
Conclusion	

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

Means of validation	N/A
Findings	
Conclusion	

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

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

SECTION E. Internal quality control

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

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

SECTION F. Validation opinion

The below listed changes have occurred after the registration of the project / PoA.

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

The above listed post registration changes which require prior approval of the Board have been approved by EB.

During this PRC, Non of the changes requires prior approval of the Board.

Beijing, 13/01/2016




Zhao Xuejiao
TÜV NORD JI/CDM CP
Assessment Team Leader

Appendix 1. Abbreviations

Abbreviations	Full texts
CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CO ₂	Carbon dioxide
CO _{2e}	Carbon dioxide equivalent
CP	Certification Program
DNA	Designated National Authority
EB	CDM Executive Board
EF	Emission Factor
GHG	Greenhouse gas(es)
PA	Project activity
PDD	Project Design Document
PoA	Programme of Activities
PRC	Post Registration Changes
PS	Project Standard
QC/QA	Quality control/Quality assurance
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

Appendix 2. Competence of team members and technical reviewers



Statement of Competence
Appointment and authorization according to the procedures
of the TUV NORD J/CDM Certification Program

Ms. Fancy Zhao

SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification)	2016-03-07
VCS / ISO 14064-2	Lead Assessor	2016-03-07


Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables

230 - Rev. 4, Date: 2015-12-07

230_001-VA050-F20_2015-12-07_rev4.doc

001-VA050-F20 rev3 / 2012-10-25



Statement of Competence
Appointment and authorization according to the procedures
of the TUV NORD J/CDM Certification Program

Ms. Li Meng


Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
8.1	Mining/mineral production -including verification-
10.1	Fugitive emissions from oil and gas -including verification-

278 - Rev. 1, Date: 2015-01-15

278_001-VA050-F20_2015-01-15_rev1.doc

001-VA050-F20 rev3 / 2012-10-25



Statement of Competence
Appointment and authorization according to the procedures
of the TUV NORD J/CDM Certification Program

Mr. Yongjun Li

SCHEME	STATUS	VALID UNTIL
CDM	Lead Assessor (Validation, Verification) Technical Reviewer	2016-06-26
VCS / ISO 14064-2	Lead Assessor (Validation, Verification) Technical Reviewer	2016-06-26


Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewables

039 - Rev. 3, Date: 2015-01-06

039_001-VA050-F20_2015-01-06_rev3.doc

001-VA050-F20 rev3 / 2012-10-25



Statement of Competence
Appointment and authorization according to the procedures
of the TUV NORD J/CDM Certification Program

Mr. Rainer Winter

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification) Technical Reviewer	2016-07-01
J1	Senior Assessor Technical Reviewer	2016-07-01
VCS / ISO 14064-2	Senior Assessor Technical Reviewer	2016-07-01

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA	TR SUBCATEGORIES
1.1	Thermal Energy Generation	
1.2	Renewables	
4.1	Cement and lime production	
4.2	Paper	
5.1	Chemical Industry	
5.2	Caprolactam, nitric and adipic acid	
8.1	Mining/mineral production	
9.1	Aluminium and magnesium production	
9.2	Iron, steel and Ferro-alloy production	
11.2	Refrigerant gas production	
12.1	Chemical industry	
13.1	Solid waste and wastewater	

003 - Rev. 9, Date: 2015-05-18

003_001-VA050-F20_2015_05_18_rev9.doc

001-VA050-F20 rev3 / 2012-10-25

Appendix 3. Documents reviewed or referenced

No.	Reference	Author	Title	References to the document	Provider
1	/ACM0008 /	UNFCCC	Approved methodology ACM0008: "Consolidated methodology for coal bed methane, coal mine methane and ventilation air methane capture and use for power (electrical or motive) by flaring" (Version 03)	https://cdm.unfccc.int/methodologies/DB/YSD3FQ5W/R3VPC9Q64CDTLXHLFV/KKKU	Others
2	/ACM0002 /	UNFCCC	Approved CDM Methodology ACM0002, version 06, "Consolidated baseline methodology for grid-connected electricity generation from renewable sources"	https://cdm.unfccc.int/methodologies/DB/EY2CL7RTE/HRC9V6YQHLAR6MJ6VE/U83	Others
3	/PDD-T/	UNFCCC	Project Design Document Form (F-CDM_PDD) (Version 6.0)	https://cdm.unfccc.int/Reference/PDDs_Forms/index.html	Others
4	/VVS/	UNFCCC	CDM Validation and Verification Standard (Version 9)	http://cdm.unfccc.int/Reference/Standards/index.html	Others
5	/PS/	UNFCCC	CDM project standard (Version 9)	http://cdm.unfccc.int/Reference/Standards/index.html	Others
6	/CPM/	DOE	TÜV NORD JI / CDM CP Manual (incl. CP procedures and forms)		Others
7	/IPCC/	IPCC	1. 1996 IPCC Guidelines for National Greenhouse Gas Inventories: work book 2. 2006 IPCC Guidelines for National Greenhouse Gas Inventories: work book	http://www.ipcc-nggip.iges.or.jp/public/gl/invs1.html http://www.ipcc-nggip.iges.or.jp/public/2006gl/index.html	Others
8	/KP/		Kyoto Protocol (1997)		Others
9	/MA/		Decision 3/CMP. 1 (Marrakesh – Accords)		Others
10	/PDD/	PP	Project Design Document for CDM project: "Jincheng Sihe Coal Mine CMM Generation Project" version 9.1, dated 2015-11-10 (track change version and clean version)	Revised PDD due to the PRC	
11	/PDD-GSC/	PP	GSC PDD published for CDM project: "Jincheng Sihe Coal Mine CMM Generation Project" version 05, dated 2007-03-10.	https://cdm.unfccc.int/Projects/Validation/DB/6O7LHC/T2CKOPZ0R1E5SIXC787/9PVVX/view.html	UNFCCC website
12	/PDD-LA/	PP	Latest Approved Project Design Document for CDM project: "Jincheng Sihe Coal Mine CMM Generation Project" version 9.0, dated 2014-02-24	https://cdm.unfccc.int/UserManagement/FileStorage/6DRFW7TH5N4Z9VYOJ13/XCSUBM8L2PA	UNFCCC website
13	/PDD-R/	PP	Registered Project Design Document for CDM project: "Jincheng Sihe Coal Mine CMM Generation Project" version 8.0, dated 2009-04-15	https://cdm.unfccc.int/filestorage/0/I/E/0IEQZOPNGW/76X4CY3KSD52FVRA9HLU/1896%20PDD%20clean.pdf?t=cHZ8bnkNm0zfDCdbZ9DRKGoLQXkDEcX1exZ	UNFCCC website
14	/GEF/	China DNA	Official data sources for Grid Emission Factor (North China Grid) published by the Chinese DNA dated 2006-12-15	http://cdm.ccchina.gov.cn/Detail.aspx?newsId=3524&TId=3	China DNA Website
15	/XLS/	PP	Emission reduction calculation spreadsheet	https://cdm.unfccc.int/Projects/DB/DNV-CUK1214826895.32/history	UNFCCC website

16	/VAL/	DNV	Validation Report for CDM project "Jincheng Sihe Coal Mine CMM Generation Project" version 2, dated 2009-04-15	https://cdm.unfccc.int/filestore/P/G/O/PGOI97JH4C/VXREZQ0B65F2MADTN3L1/1896%20VR%20clean.pdf?t=UIV8bnlkZ2kxDBE4ly16Bddjndk771Q3_rx	UNFCCC website
17	/VER/	DOEs	Documents of previous verifications (Monitoring report, verification report, ER calculation sheet)	https://cdm.unfccc.int/Projects/DB/DNV-CUK1214826895.32/view	UNFCCC website

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

Table 1. CL from this validation

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

Table 2. CAR from this validation

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

Table 3. FAR from this validation

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

Appendix 5. Assessment of Financial Parameters

Assessment of Financial Parameters (VVS, §§ 129, 130 / in case financial parameters from FSR §131 and §132)

<input checked="" type="checkbox"/>	No financial parameters are used for additionality justification					
<input type="checkbox"/>	Assessment of all financial parameters see below					
Parameter	Value applied	Unit	Source of Information (please indicate document and page)	Reference	DOE ASSESSMENT	
					Correctness of value applied	Comment
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	
				//	<input type="checkbox"/>	

Appendix 6. Assessment of Barrier Analysis

Assessment of Barrier Analysis (VVS, §§ 133-136)

<input checked="" type="checkbox"/>	No barrier parameters are used for additionality justification			
<input type="checkbox"/>	Assessment of barriers see below			
Kind of Barrier (invest, tech, other)	Description of Barrier	Evidence used	Assessment of validation team	
			Appropriateness of information source	Explanation of final result
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	
			<input checked="" type="checkbox"/>	