

ANNEX 3

ASSESSMENT

REGARDING POST REGISTRATION CHANGES
INDUSTRIAL DE OLEAGINOSAS AMERICANAS
S.A. (INOLASA)

SWITCHING OF FUEL FROM COAL TO PALM OIL
MILL BIOMASS WASTE RESIDUES AT INDUSTRIAL
DE OLEAGINOSAS AMERICANAS S.A. (INOLASA)

Report No: 10041-13/158

Date: 2014-01-29

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Assessment Report on post registration changes	Report No.	Rev. No.	Date of 1st issue:	Date of this rev.
	10041-13/158	1	2013-12-18	2014-01-29
Project:	Title:		Registr. date:	UNFCCC-No.:
	Switching of fuel from coal to palm oil mill biomass waste residues at Industrial de Oleaginosas Americanas S.A. (INOLASA)		2007-11-30	1314
Project Participant(s):	Name:		Party:	
	Industrial de Oleaginosas Americanas S.A. (INOLASA)		Costa Rica	
	Vattenfall Energy Trading Netherlands N.V.		Netherlands	
Applied methodology/ies:	Title:		No.:	Scope:
	Thermal energy for the user with or without electricity		AMS-I.C. ver.10	1 / 1.1
Post Registration Changes:	Type of requested changes		Number of changes	Prior Approval required
	<input type="checkbox"/> Temporary deviations from the MP		-	<input type="checkbox"/>
	<input type="checkbox"/> Temporary deviations from the MM		-	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Corrections that do not affect the project		2	<input type="checkbox"/>
	<input type="checkbox"/> Change to the start date of the crediting p.		-	<input type="checkbox"/>
	<input type="checkbox"/> Permanent changes from the MP		-	<input type="checkbox"/>
	<input type="checkbox"/> Permanent changes from the MM		-	<input type="checkbox"/>
	<input checked="" type="checkbox"/> Design changes to the project activity/PoA		1	<input type="checkbox"/>
<input type="checkbox"/> Changes specific to A/R		-	<input type="checkbox"/>	
Revised PDD:	Title:		Attached in TC:	Attached clean:
	Industrial de Oleaginosas Americanas S.A. (INOLASA)		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Assessment team / Technical Review and Final Approval	Assessment Team:		Technical review:	Final approval:
	Raul G. Mitre (TL) Gilberto Andrade		Stefan Winter Alexandra Nebel	Alexandra Nebel
Assessment Opinion:	<input type="checkbox"/>	The post registration changes require prior Approval by the Board		
	<input checked="" type="checkbox"/>	The post registration changes do not require prior Approval by the Board		
Document information:	Filename:			No. of pages:
	2013_12_18_Annex_3_INOLASA_7.doc			27

Abbreviations

CA	Corrective Action / Clarification Action
CAR	Corrective Action Request
CDM	Clean Development Mechanism
CER	Certified Emission Reduction
CL	Clarification Request
CO₂	Carbon dioxide
CO_{2e}	Carbon dioxide equivalent
CP	Certification Program
DNA	Designated National Authority
EB	CDM Executive Board
GHG	Greenhouse gas(es)
PA	Project activity
PDD	Project Design Document
PoA	Programme of Activities
PRC	Post Registration Changes
QC/QA	Quality control/Quality assurance
UNFCCC	United Nations Framework Convention on Climate Change
VVS	Validation and Verification Standard

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1 OBJECTIVE / SCOPE

Industrial de Oleaginosas Americanas S.A. (INOLASA) has commissioned the TÜV NORD JI/CDM Certification Program (CP) to assess post registration changes of the project

“Switching of fuel from coal to palm oil mill biomass waste residues at Industrial de Oleaginosas Americanas S.A. (INOLASA)”

This report serves for all kind of post registration changes as defined in the PS.

In this case it serves as an annex to the verification report.

2 GENERAL CHARACTERISTICS

2.1 Project Characteristics

As this assessment was carried out as part of the 7th verification of the project activity please refer to chapter 2 of the verification report.

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

2.2 Overview of Post Registration Changes

Within this report post registration changes as listed in Table 2-2 are assessed.

Table 2-2: Overview Post Registration Changes

#	Applicable from – to / as of	MP	Type of post registration change ¹⁾	Description	Status ²⁾ / Date
1	2012-10-01	7	CrPDD	Parameter trucks _{i,y} included in B.6.1 was removed as it is a parameter to be monitored already included in section B.7.1	Accepted
2	2013-07-01	7	CrPDD	Update the project participants to coincide with the valid MoC.	Accepted
3	2013-01-02	7	CoPD	New biomasses not originally considered in the PDD were used during the current monitoring period. Furthermore additional sources of palm oil mill biomasses were also used.	Accepted

- ¹⁾
- TDfrMP : Temporary deviation from registered monitoring plan
 - TDfMM : Temporary deviation from the monitoring methodology
 - CrPDD : Corrections to the registered PDD
 - ChSD : Change to the start date of the crediting period
 - PCfrMP : Permanent changes from registered Monitoring Plan
 - PCfMM : Permanent changes from Monitoring Methodology
 - CoPD : Changes to the project design of a registered project activity / PoA
 - CstAR : Changes specific to afforestation or reforestation

2.3 Assessment team members and technical reviewers

As this assessment was carried out as part of the 7th verification of the project activity please refer to the main part of the verification report.

2.4 Assessment Steps

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 7th verification of this project activity.

2.5 Review of Documents

The registered 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.

2.6 Follow-up Interviews

The validation team has carried out interviews in order to assess the information included in the project documentation and to gain additional information regarding the compliance of the project with the relevant criteria applicable for CDM.

During validation the validation team has performed interviews to confirm selected information and to resolve issues identified in the document review. The main topics of the interviews are summarized in table 2-4.

Table 2-4: Interviewed persons and interview topics

Interviewed Persons / Entities	Interview topics
Project proponent representatives Project consultant	<ul style="list-style-type: none"> - Details of the project validation and earlier verifications - Project history - Technical details of plant - Intended / implemented changes from the previous project design - Impact of changes on the additionality justification - Impact on the monitoring of the project - Editorial issues of the revised PDD

A comprehensive list of all interviewed persons is part of section 7 'References'.

2.7 Resolution of Clarification and Corrective Action Requests

2.7.1 Definition

A **Corrective Action Request (CAR)** will be established where:

- mistakes have been made in assumptions, application of the methodology or the project documentation which will have a direct influence the project results,
- the requirements deemed relevant for validation of the intended / implemented changes,
- there is a risk that the changes cannot be approved by the UNFCCC or that emission reductions would not be able to be verified and certified after the implementation of the changes.

A **Clarification Request (CL)** will be issued where information is insufficient, unclear or not transparent enough to establish whether a requirement is met.

2.7.2 Assessment

After reviewing all relevant documents and taken all other relevant information into account, the assessment team issues all findings (in the course of a draft report, if applicable) and hands over the findings to the project proponent in order to respond on the issues raised and to revise the documentation accordingly.

The final reporting step starts after resolution of the raised CARs and CLs. In case the findings from CARs and CLs cannot be resolved by the project proponent or the

proposed action related to the FARs raised cannot be assessed as adequate, no positive assessment opinion can be issued by the validation team.

The CAR(s) / CL(s) / FAR(s) are documented in the context of the respective chapters.

2.8 Technical review

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

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

2.9 Final approval

After successful technical review of the final report an overall (esp. procedural) assessment of the requested post registration changes will be carried out by a senior assessor located in the accredited premises of TÜV NORD.

Only after this step the notification or the report can be forwarded to the UNFCCC (in case of a positive validation opinion).

3 CHANGES THAT DO NOT AFFECT THE PROJECT DESIGN

3.1 Assessment of Changes

Requested Deviations / Changes #1

- Type of change(s):
- ☐ Temporary Deviation from Monitoring Plan
 - ☐ Temporary Deviation from Monitoring Methodology
 - ☒ Corrections that do not affect the project design
 - ☐ Permanent Change from Monitoring Plan
 - ☐ Permanent Change from Monitoring Methodology
 - ☐ Changes specific to afforestation or reforestation

A. Description of post registration change

Start Date: Please provide the start date of the change	2012-10-01	End Date: Please provide the end date of the change, if applicable	“-“
Description: Please give a detailed description of the changes	Parameter trucks, y included in B.6.1 was removed as it is a parameter to be monitored already included in section B.7.1		

B. Assessment of post registration change – Corrections

Requested Deviations / Changes #1	
Correctness: Please assess whether the corrected information (incl. ex-ante values) is an accurate reflection of actual project information.	<p>The elimination of parameter trucks_{i,y} from section B.6.3 is considered as correct as it was included twice in the registered PDD (Section B.6.3 & B.7.1). The corrected information is an accurate reflection of actual project information considering:</p> <ul style="list-style-type: none"> - When the changes occurred: the correction occurred during the update of the PDD due to a change in the project design. - Reasons for those changes taking place: to improve the accuracy of the PDD. - Whether the changes would have been known prior to registration of the project activity: yes as it was a mistake during validation. - How the changes would impact the overall operation/ability of the project activity to deliver emission reductions: The elimination of parameter trucks_{i,y} from section B.6.3 does not lead to a reduction in the accuracy of the ER calculation. Actually it leads to an increase in the accuracy of the ER calculation. Concluding the change impacts positively the operation/ability of the project activity to deliver emission reductions.
MP/MM Compliance : Please check whether the corrected parameters are in accordance with the MM and/or MP	<p>The changes are in compliance with the monitoring methodology as parameter trucks_{i,y} is required to be monitored. The AMS-I.C. version 10 was checked against the revised PDD. No discrepancies were identified.</p>
Appendix 1 PS: Check whether the affect the design of the PA.	<p>Elimination of Parameter trucks_{i,y} is considered correct as it is required by the applied methodology to be monitored and not fixed. This parameter was already included in section B.7.1 at the validation stage. Therefore no need to be in section B.6.1 is identified.</p> <p>The change does not affect the design of the project activity. It was evidenced that no relevant impact has been identified due to the elimination of the parameter. The change is a correction under appendix 1 (Paragraph 1) of the CDM Project Standard, version 5.</p>
C. Revised PDD	
Rev. of PDD: Check whether the changes have been fully addressed in a revised PDD.	<p><input checked="" type="checkbox"/> The changes have correctly been reflected in the revised PDD.</p> <p><input type="checkbox"/> A revision of the PDD is not required (in case of temp. changes).</p> <p><input checked="" type="checkbox"/> The revised PDD has been forwarded in (i) track-change and (ii) clean version.</p>
D. Prior Approval	
Prior approval: Assess whether the	<p><input type="checkbox"/> The post registration change requires prior approval</p>

Requested Deviations / Changes #1

change requires prior approval of the board	<input checked="" type="checkbox"/> <i>The post registration change does not require prior approval</i>
---------------------------------------------	---------------------------------------------------------------------------------------------------------

Requested Deviations / Changes #2

Type of change(s):	<input type="checkbox"/> <i>Temporary Deviation from Monitoring Plan</i>
	<input type="checkbox"/> <i>Temporary Deviation from Monitoring Methodology</i>
	<input checked="" type="checkbox"/> <i>Corrections that do not affect the project design</i>
	<input type="checkbox"/> <i>Permanent Change from Monitoring Plan</i>
	<input type="checkbox"/> <i>Permanent Change from Monitoring Methodology</i>
	<input type="checkbox"/> <i>Changes specific to afforestation or reforestation</i>

A. Description of post registration change

Start Date: Please provide the start date of the change	2013-07-01	End Date: Please provide the end date of the change, if applicable	-
Description: Please give a detailed description of the changes	Update the project participants to coincide with the valid MoC.		

B. Assessment of post registration change – Corrections

Correctness: Please assess whether the corrected information (incl. ex-ante values) is an accurate reflection of actual project information.	<p>The following information was corrected:</p> <ul style="list-style-type: none"> a) Section A.4: The project participant table was updated; b) Appendix 1: The project participant contact information was updated; <p>The PP's included in the new version of the PDD are exactly the same as the MoC valid as of 2013-07-01. The valid MoC was checked directly at the UNFCCC web site. Concluding the corrected information is an accurate reflection of actual project information.</p>
MP/MM Compliance : Please check whether the corrected parameters are in accordance with the MM and/or MP	Not applicable as the correction is independent of the monitoring methodology.
Appendix 1 PS: Check whether the affect the design of the PA.	Not applicable as the change does not affect the design of the Project Activity.

Requested Deviations / Changes #2

C. Revised PDD

Rev. of PDD:

Check whether the changes have been fully addressed in a revised PDD.

- ☒ The changes have correctly been reflected in the revised PDD.
- ☐ A revision of the PDD is not required (in case of temp. changes).
- ☒ The revised PDD has been forwarded in (i) track-change and (ii) clean version.

D. Prior Approval

Prior approval:

Assess whether the change requires prior approval of the board

- ☒ *The post registration change requires prior approval*
- ☐ *The post registration change does not require prior approval*

3.2 Related Findings

No findings have been identified in this context.

4 CHANGE TO THE START DATE OF THE CREDITING PERIOD

The post registration changes do not fall under this category.

5 CHANGES TO THE PROJECT / PROGRAMME DESIGN

5.1 Assessment of Changes

Requested Changes to the project design #1

Type : ☒ *Changes to the project design*

☐ *Changes to the PoA design*

A. Description of post registration change

Start Date:

Please provide the start date of the change

2013-01-02

End Date:

Please provide the end date of the change, if applicable

“-“

Requested Changes to the project design #1

Description:

Please give a detailed description of the changes esp. with regards to the effect on the project design.

New biomasses not originally considered in the PDD were used during the current monitoring period. The new biomasses are:

1. Sugar cane bagasse and
2. Wood chips

Furthermore additional sources of palm oil mill biomasses were also used. The PP used a surplus of biomass (palm kernel shells – PKS) from Rio Escondido Industrial S.A. (Cukra Palm Mill) located in Nicaragua (840 km from the project activity facility) which is also a company from Grupo Agroindustrial CB S.A. (Palo Seco, Naranjo y Coto mills are also from the same group). Trucks used to transport the surplus from Cukra mill to the project activity would have returned empty after delivering fertilizer from INOLASA plant. Sending trucks exclusively to pick up such surplus is not economically feasible (840 km one way).

The information is an accurate reflection of actual project information considering:

- **When the changes occurred:** the PP started to use the new biomasses on 2013-01-02.
- **Reasons for those changes taking place:** lack of biomass availability in some periods (low season of production of palm oil mills) and to restrict the use of fuel oil (bunker) to a minimum.
- **Whether the changes would have been known prior to registration of the project activity:** not probably as situations not predicted during validation might appear when operating biomass projects (e.g. Boiler operation difficulties, lack of biomass, etc.)
- **How the changes would impact the overall operation/ability of the project activity to deliver emission reductions:** The change will lead to a positive impact in the ability of the project to deliver emission reduction. The project activity will achieve the amount of energy foreseen in the PDD as the availability of biomass will increase. Concluding the change impacts positively the operation/ability of the project activity to deliver emission reductions.

B. Applicability and application of the Approved Baseline Methodology

Requested Changes to the project design #1

Description:

Please give a detailed description on how the changes affect the applicability and application of the approved Baseline Methodology. Check if the actual changes would adversely affect the conclusions during validation.

As the changes only refer to use new biomasses and the methodology does not restrict the type of biomasses to be used the changes do not affect the applicability and the application of the approved baseline methodology. Furthermore evidence of final destination of biomass in the absence of the project activity was provided. Letters^{/PRC/} of biomass supplier as evidence that the new biomasses would be left to decay in the absence of the project activity were checked. Furthermore public evidence^{/PRC/} of the use of wood in Costa Rica was provided to demonstrate that wood residues are not commonly used and there is urgency to promote the use of wood residues. Concluding the project activity is not taking biomass from other users.

C. Additionality assesement

Requested Changes to the project design #1

Description:

Please give a detailed description re-assessment of additionality. Check whether the actual changes would adversely affect the conclusions during validation. If required please make use of the assessment tables in the annex.

Methodology:

In the original project documentation the additionality was justified through barrier analysis in line with the requirements of AMS-I.C. ver. 10 and the additionality tool.

Decisive Route of Additionality Justification

During the original validation of the project the additionality was justified on the basis of a barrier analysis. The identified barriers that could prevent the implementation of the project are listed in Appendix 2, table A-2.

Re-Assessment of Additionality

During this validation regarding changes a revised version of the original validated PDD was provided by the PP and considered by the validation team. The modifications mainly reflect the design changes done.

Result of Additionality Re-Assessment

The review of the revised project design documentation and additional documents related to changes to the project design; the subsequent background investigation and follow-up interviews have provided TÜV NORD JI/CDM CP with sufficient evidences for assessment.

All barriers described in the PDD are feasible and they are still valid. The verification team does not identify that the barriers used for additionality justification can be affected with the use of new biomasses.

Thus the validation team has arrived at the conclusion that the additionality of the project is not affected by the changes carried out as a deviation from the project design originally validated and registered. For further details please refer to table A-2 located in appendix 2.

D. Scale of the Project activity

Description:

Please give a detailed description regarding the effect of the changes on the scale of the PA (i.e. LSC or SSC).

No new equipment was installed. The steam generation boiler remains unchanged. The steam generation capacity does not change due to the inclusion of new biomasses.

E. Revised PDD

Requested Changes to the project design #1

Rev. of PDD:

Check whether the changes have been fully addressed in a revised PDD. In this context pl. refer to

- Changes in the effective output capacity.
- Addition of components or extension of technology
- In case of multiple site projects: Removal or addition of sites
- Operational parameters under the control of PPs differing from expected parameters
- Changes to the baseline Meth (e.g. addition of a new Meth or change of the BL scenario.
- Effects with regards to B, C and D above incl. compliance with the MP and level of accuracy and completeness of monitoring.

The post registration change has correctly been reflected in the revised PDD. This assessment is based on the following considerations:

- The effective output capacity of the steam boiler remains unchanged.
- No changes to the baseline methodology and the baseline scenario have been observed.
- ☐ - There are no effects with regard to the applicability and application of the approved baseline methodology.
- No effects with regard to the additionality of the project activity and the scale of the project activity have been identified.
- The changes to the project design are in compliance with the Monitoring Plan.
- The level of accuracy and completeness of monitoring is considered as plausible.

Traceability:

Check if the PPs have provided a revised PDD in both clean and track-change version.

- ☒ The revised PDD has been forwarded in (i) track-change and (ii) clean version.

F. Prior Approval

Prior approval:

Assess whether the change requires prior approval of the board.

The changes do not raise concerns with respect to aspects outlined in the PS:

- ☒
 - a. applicability and application of the Approved Baseline Methodology under which the project activity has been registered.
 - b. additionality of the project
 - c. scale of the CDM project activity and

Prior Approval by the Board is not required.

- ☐ The post registration change requires prior approval.

5.2 Related Findings

No findings have been identified in this context.

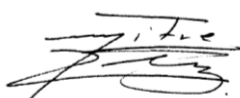
6 SUMMARY OF ASSESSMENT OPINIONS

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

Type of Change occurred	Total No. of changes	No. of changes which require prior approval
<input type="checkbox"/> Temporary deviations from the MP		
<input type="checkbox"/> Temporary deviations from the MM		
<input checked="" type="checkbox"/> Corrections that do not affect the project	2	0
<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 checked="" type="checkbox"/> Design changes to the project activity / PoA	1	0
<input type="checkbox"/> Changes specific to AR projects		

Non of the changes requires prior approval of the Board.

Sao Paulo, 2014-01-29



Raul González Mitre

TÜV NORD JI/CDM Certification Program

Verification Team Leader

Essen, 2014-01-29



Alexandra Nebel

TÜV NORD JI/CDM Certification Program

Final Approval

7 REFERENCES

All references are listed in the Verification Report to which this assessment is attached.

APPENDIX

- A1:** Assessment of Financial Parameters
- A2:** Assessment of Barrier analysis
- A3:** Competence statements of involved personnel

APPENDIX 1: ASSESSMENT OF FINANCIAL PARAMETERS

Table A-1: Assessment of Financial Parameters (VVS, v. 2.0, §§ 120, 121 / in case financial parameters stem from FSR §122)

<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 2: ASSESSMENT OF BARRIER ANALYSIS

Table A-2: Assessment of Barrier Analysis (VVS, v. 2.0, §§ 124-127)

<input type="checkbox"/>		No barrier parameters are used for additionality justification		
<input checked="" 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

Investment	Investment alternatives compared on the basis of NPV and IRR resulting in a better alternative to be implemented	/PDD_Reg/	<input checked="" type="checkbox"/>	<p>The registered PDD compares three investment alternatives on the basis of NPV and IRR. The alternatives are:</p> <ol style="list-style-type: none"> 1. Continue with current operation using bunker as fuel for heat generation. 2. Implementation of coal-fired boilers for heat generation. 3. Develop the project activity without CDM revenue <p>As a result of the assessment the most likely scenario would be that INOLASA would continue to implement coal-fired boilers.</p> <p>Using new biomasses do not affect the amount of any of the investment alternatives as the implementation of coal-fired boilers remain as the most attractive investment option.</p> <p>No new equipment was installed to process the new biomasses. Therefore no change in the investments is required.</p> <p>An impact on the changes in using new biomasses to all barriers cannot be identified.</p> <p>Therefore barriers related to investment remain the same.</p> <p>The barriers presented in the PDD remain unchanged because they are independent from the change in the PDD.</p> <p><u>The barrier is still valid.</u></p>
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Technology	Feeding biomass into the biomass boiler involves more complicated technology. Furthermore timely and adequate implementation of new technology at biomass suppliers represents a risk to INOLASA	/PDD_Reg/	<input checked="" type="checkbox"/>	<p>Technology barriers due to the implementation of the project activity used to demonstrate additionality remains the same. The use of new biomasses not previously used represents a new challenge for the PP in terms of complexity in boiler operation.</p> <p>An impact on the changes in using new biomasses to all barriers cannot be identified.</p> <p>Therefore barriers related to technology remain the same.</p> <p><u>The barrier is still valid.</u></p>
Prevailing practice	First of its kind in the food processing sector	/PDD_Reg/	<input checked="" type="checkbox"/>	<p>No impact in this barrier has been identified by the audit team. The barriers presented in the PDD remain unchanged because they are independent from the change in the PDD.</p> <p><u>The barrier is still valid.</u></p>
Other	Logistical barriers and security of supply	/PDD_Reg/	<input checked="" type="checkbox"/>	<p>Logistical barriers and security of supply barriers remain the same as the new biomasses represent the same difficulties than the already used biomasses.</p> <p>These barriers due to the implementation of the project activity used to demonstrate additionality are related to conditions beyond the project participant's control. The use of new biomasses not previously used represents a new challenge for the PP in terms of complexity in biomasses transportation and availability.</p> <p>An impact on the changes in using new biomasses to all barriers cannot be identified.</p> <p><u>The barrier is still valid.</u></p>



APPENDIX 3: STATEMENTS OF COMPETENCE OF INVOLVED PERSONNEL

Statement of Competence

Appointment and authorization according to the procedures of the TÜV NORD JI/CDM Certification Program

Mr. Raul Gonzalez Mitre

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2015-06-27
VCS / ISO 14064-2	Senior Assessor	2015-06-27

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.2	Renewable Energies
13.1	Waste handling and disposal

082 - Rev. 4, Date: 2012-08-16

082_001-P003_2012-08-16_mit

001-P003-mit / 2012-08-16

Statement of Competence

Appointment and authorization according to the procedures of the TÜV NORD JI/CDM Certification Program

Mr. Gilberto Gomes Andrade

SCHEME	STATUS	VALID UNTIL
CDM	Assessor (Validation, Verification)	2016-01-25
VCS / ISO 14064-2	Assessor	2016-01-25

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
1.1	Thermal Energy Generation
1.2	Renewable Energies
2.1	Electricity Distribution
5.1	Chemical Process Industries
11.1	Chemical Process Industries
12.1	Chemical Process Industries

016 - Rev. 1, Date: 2013-01-26

016_001-00000-P003_2013-01-26_andr

001-00000-P003-mat / 2013-01-26

Statement of Competence

Appointment and authorization according to the procedures of the TÜV NORD JI/CDM Certification Program

Mr. Stefan Winter

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2014-06-30
	Technical Reviewer	
VCS	Senior Assessor (Validation, Verification)	2014-06-30
	Technical Reviewer	

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA	TR SUBCATEGORIES
1.1	Thermal energy generation	1.2.1 Hydro 1.2.2 Wind 1.2.3 Geothermal 1.2.4 Solar 1.2.5 Total
1.2	Renewable Energy	
2.2	Heat distribution	
3.1	Energy demand	
13.1	Waste handling and disposal	13.1.1 Waste management 13.1.2 Waste water management
13.2	Animal waste management	
15.2	Animal waste management	

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Statement of Competence

Appointment and authorization according to the procedures of the TÜV NORD JI/CDM Certification Program

Ms. Alexandra Nebel

SCHEME	STATUS	VALID UNTIL
CDM	Senior Assessor (Validation, Verification)	2014-08-24
J	Senior Assessor	2014-08-24
VCS	Senior Assessor	2014-08-24
	Technical Reviewer	

Authorization status for technical areas within sectoral scopes:

CODE	TECHNICAL AREA
14.1	Forestry

095 - Rev. 3, Date: 2011-08-25

095_001-P003_2011-08-25_neb

001-P003-mat / 2011-08-16