

Verification Checklist

This document is to be used during the verification.

The first section of this document contains the project details and details any key changes since the last verification

The second section of the document details the parameters of the project to be checked. Each parameter should be identified during the Strategic Review & Risk Assessment



Section 1: General information

Project title: Ceran's Monte Claro Run-of-River Hydro-	Project No: CDM.Ver0277			
power Plant CDM Project Activity				
Date of site visit: 30 th – 31 st July 2007.				
Please describe any key changes to the project structur quisitions, disposals, product changes, process change First periodic verification.				

Section 2: Parameters to be checked

1.1 Parameter:		Electricity generation of the project delivered to grid			
Significance score =	High	Level of verifi- cation effort=	High	Risk Score =	High
Departed value					

Reported value: 512,615.78 MWh

Verified value: 512,615.78 MWh

Key assumptions: the value reported is the total of electricity delivered to the grid.

What to check	How to check it	Findings	Conclusion
Amount of electricity delivered to the grid	Verify the monthly report: CCEE and internal monthly CERAN report – En- ergia produzida no mês" which presents the amount of en- ergy exported to the grid. Check all re- ports/year and com- pare the total re- ported with the re- port from CPFL	All data is generated automatically. The me- ters generate the data continuously and send online to SDCE (Energy Data Collection Sys- tem). In the first day of the month an operator technician collects the energy data from the system and archive in a file: G:\operaçao\OPERAÇ	Ok



	Identify consistency and any abnormal data and verify what may be happened. Check information in the control room and internal system of the plant.	ÃO\Registros SE- Medição Energia. The operation department consolidates the data and generates an inter- nal report (Acompan- hamento mensal de operação). The energy data for the monitoring period (2005-2006) were veri- fied and cross checked	
Amount of electricity invoiced	Verify the CPFL re- port in the monitoring period. Check amount of energy and date or period. Compare the infor- mation in the CPFL report and the data listed in the monitor- ing report.	against CCEE and CPFL report. Data is consistent with monitor- ing report. The CPFL report was verified and the energy data complies with monitoring report.	Ok
Calibration and maintenance of the meters	Verify calibration cer- tificate for the report- ing period. Check if they are updated, if the calibration follow the required stan- dards and what was the error verified dur- ing calibration. Ask copy of the calibra- tion certificate. Verify meter mainte- nance records, if ap- plicable. Verify if the meter is working dur- ing the site visit (by meter reading and internal system).	There are two meters installed on site. During site visit was presented the calibra- tion certificates "PS1058806/04 (serial numbers 490006 and 490177)" issued on 21/12/2004. According to the calibration pro- cedure issued by ONS (Manutenção do sis- tema de medição para faturamento, Sub- módulo 12.3 Anexo 1, 31/01/2007), the cali- bration of the meters should be carried out each 2 years; therefore, the calibration certifi- cate is valid until 20/12/2006.	Ok



Please, provide evi- dence that the meters were calibrated on the period 21/12/2006 until 31/12/2006. CAR 3 was raised.
The Ceran's company provided a declaration from LACTEC that evi- dences the meters (5CTE-E5A-2F6402UC model, serial numbers 490006 and 490177) complies with standard of the National System Operator (ONS). CAR 3 was close out. The error verified in the calibration certificate < 1%.
The error is in accor- dance with national standard INMETRO and RBC (Rede Bra- sileira de Calibração).
Copy the calibration certificate was pro- vided. Ref. 6 a and b.

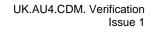
1.2 Parameter: CO2 emission factor of the grid

Significance	low	Level of verifi-	low	Risk Score =	low
score =		cation effort=			

Reported value: 0.2647 tonnes CO2/MWh

Verified value: 0.2647 tonnes CO2/MWh

Key assumptions: The emission factor is fixed ex-ante. The emission factor presented in the monitoring report is the same of the registered PDD. No monitoring will be necessary during this crediting period.





What to check	How to check it	Findings	Conclusion
Emission Factor	Verify the data fixed ex-ante in the regis- tered PDD.	For this crediting pe- riod the value reported is that informed in the registered PDD.	Ok

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Section 3: Summary	
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The site visit was carried out by the local assessor. Emissions reduction from electricity generation is calculated from total electricity generated * baseline emission factor (0.2647 tCO2e).

Total electricity generated in the period 1^{st} March 2005 to 31^{st} December 2006 = 512,615.78 MWh.

Total emission reduction = 135,689 tCO2e.