



**Verified Carbon
Standard**

AKINCI HYDROELECTRIC POWER PLANT



Carbon
— C H E C K —

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Summary:

• A brief description of the verification and the project

Verification: Carbon Check (India) Private Ltd. has been contracted by, “Aydem Yenilenebilir Enerji A.Ş.” to undertake 2nd verification and certification for the greenhouse gas (GHG) emission reductions reported from ‘Akinci Hydroelectric Power Plant’ VCS ID 1380, for the monitoring period 01/10/2020 to 30/09/2021, under the crediting period 24/10/2018 to 23/10/2028 (both days included). The verification is based on the desk review of the Monitoring report /01/, VCS PD & the corresponding validation report, supporting emission reduction calculation spread sheets /02/ and other relevant supporting documents made available to the verification team by the project proponent accompanied by remote interviews. In line with the relevant requirements of VCS Standard Version 4.1.

Project: Akinci Hydroelectric Power Plant (HPP) is a run-off river based HPP with a total capacity of 99 MWe, utilizing the water of the Kelkit River in the Black Sea region, of Reşadiye-Tokat Province, Turkey. The hydroelectric power plant is designed to convert the potential energy of the Kelkit Stream into electricity by means of 3 turbines of 33 MWe capacity each. The electricity generated is sold to the Turkish National Electricity Grid. The project activity is a non-grouped project which employs VCS methodology; ACM0002 version 15.

The project activity has been operational since commissioning (24/10/2018) and during the 2nd monitoring period i.e., from 01/10/2020 to 30/09/2021, it has generated 2,38,875.96 MWh net electricity, thereby resulting in emission reduction of 1,22,782 tCO₂e. The monitoring period subject to this monitoring report is inclusive of first and last day of period.

• The purpose and scope of verification

Purpose: The purpose of the verification is to review the monitoring results and verify that monitoring methodology was implemented according to monitoring plan and monitoring data, used to confirm the reductions in anthropogenic emissions by sources is sufficient, definitive, and presented in a concise and transparent manner. In particular, monitoring plan, monitoring report and the project’s compliance with relevant VCS, UNFCCC and host party criteria are verified in order to confirm that the project has been implemented in accordance with previously registered design and conservative assumptions, as documented.

Scope: The scope of the verification is:

- To verify the project implementation and operation with respect to the registered VCS PD.
- To verify the implemented monitoring plan with the registered VCS PD and applied baseline and monitoring methodology.
- To verify that the actual monitoring systems and procedures follow the monitoring systems and procedures described in the monitoring plan.
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement.
- To verify that reported GHG emission data is sufficiently supported by evidence. The verification shall ensure that the reported emission reductions are complete and accurate to be certified.

• The method and criteria used for verification

(a) Desk review, involving:

(i) Review of the data and information presented to verify their completeness.

(ii) Review of the monitoring plan and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the quality assurance and quality control procedures.

(iii) Evaluation of data management and the quality assurance and quality control system in the context of their influence on the generation and reporting of emission reductions.

(b) Remote assessment involving:

(i) Assessment of the implementation and operation of the proposed VCS grouped project activity as per the registered VCS PD.

(ii) Review of information flows for generating, aggregating, and reporting the monitoring parameters.

(iii) Interview with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the monitoring plan in the VCS PD.

(iv) A cross-check between information provided in the monitoring report and data from other sources such as inventories, purchase records, or similar data sources.

(v) A check of the monitoring equipment including calibration performance and observations of monitoring practices against the requirements of the VCS PD and the selected methodology.

(vi) Review of calculations and assumptions made in determining the GHG data and emission reductions.

(vii) Identification of quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring parameters.

- **The number of findings raised during verification**

A risk-based approach has been followed to perform this verification. During the course of verification, total of 04 findings were raised, which includes:

02 Corrective Action Request (CAR); 02 Clarification Requests (CLs); 0 Forward Action requests (FARs).

All the raised findings are resolved by the PP.

- **Any uncertainties associated with the verification**

The VCS MR /01/, emissions reduction calculations /02/ along with the supporting documents provided are considered to be in line with all the VCS requirements /B01/. The verification team has detected no further uncertainties or quality restriction.

- **Summary of the verification conclusion**

In CCIPL's opinion, the emission reductions reported for the "AKINCI HYDROELECTRIC POWER PLANT" in the monitoring report are checked. CCIPL is therefore now able to certify that the emission reductions from the "AKINCI HYDROELECTRIC POWER PLANT" during the period from 01/10/2020 to 30/09/2021, is amount 1,22,782 tCO₂ equivalent.

CCIPL does not assume any responsibility towards the issuance and utilization of VCU's hereby verified and certified. Request for issuance of VCU's shall be made by the project proponent to an approved VCS Program Registry based on the requirements set out under the most recent version of the VCS Program Guidelines clause on VCS Registration. The verification of reported emission reductions is based on the information made available to CCIPL and the engagement conditions detailed in this report. Hence, CCIPL cannot be held liable by any party for decisions made or not made based on this report.

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1 INTRODUCTION

1.1 Objective

Carbon Check (India) Private Ltd. has been contracted by, “Aydem Yenilenebilir Enerji A.Ş.” to undertake 2nd verification and certification for the greenhouse gas (GHG) emission reductions reported from ‘Akinci Hydroelectric Power Plant’ VCS ID 1380 for the monitoring period 01/10/2020 to 30/09/2021 (including both days), under the crediting period 24/10/2018 to 23/10/2028 (including both days), in the initial monitoring report version 1 dated 20/10/2021 /1/, with regard to the relevant requirements of VCS Standard Version 4.1. The VCS projects must undergo an independent third-party verification and certification of emission reductions as the basis for issuance of Voluntary Emission Reductions (VERs). Through the verification activities, it is to be confirmed that:

- The project is implemented as described in the VCS Project Description document;
- The monitoring system is implemented and fully functional to generate emission reductions without any double counting, and
- The data reported are accurate, complete, consistent, transparent, and free of material error or omission by checking the monitoring records and the emissions reductions calculation.

The verification followed the requirements of the current version of the VCS Standard Version 4.1 and VCS program guide (version 4.0)/B01/ to ensure the quality and consistency of the verification work and the report.

1.2 Scope and Criteria

The verification of this project is based on the Monitoring Report of this monitoring period /01/, registered VCS PD /15/, the Emission reduction calculation spreadsheets /02/, supporting documents made available to the verifier and information collected through performing remote interviews. Furthermore, publicly available information was considered as far as available and required.

CCIPL has employed a risk-based approach in the verification, focusing on the identification of significant risks and reliability of project monitoring and generation of emission reductions.

The verification is carried out on basis of the following requirements, applicable for this project activity:

- VCS Standard (v4.1) /B01/
- VCS Program Guide (v4.0) /B01/
- VCS Methodology: ACM0002 “Large-scale Consolidated Methodology; Grid-connected electricity generation from renewable sources.” Version 15.0.0. /B02/.
- Other relevant rules, including the host country legislation

The scope of this verification, by independent checking of objective evidence, is as follows:

- To verify that the project is implemented as described in the registered VCS PD /B04/.
- To assess the project’s compliance with other relevant rules including the host country legislation.
- To confirm that the monitoring system is implemented and fully functional to generate voluntary emission reductions without any double counting.
- To establish that the data reported are accurate, complete, consistent, transparent, and free of material error or omission by checking the monitoring records and the emissions reduction calculation.
- To evaluate the GHG emission reduction data and express a conclusion with a reasonable level of assurance about whether the reported GHG emission reduction data is free from material misstatement.
- To verify that reported GHG emission data is sufficiently supported by evidence.
- The verification shall ensure that the reported emission reductions are complete and accurate in order to be certified.

The method and criteria used for verification consisted of the following phases:

1. Completeness check and desk review;
2. Remote interviews with stakeholders;
3. Resolution of outstanding issues and issuance of final verification report and applicable VCS Validation and Verification Deeds of Representation.

CCIPL conducts all its work under strict rules to safeguard impartiality and ensure the independence of the verification team. The verification team does not provide any consulting or recommendations for the client. However, stated requests for clarifications and/or corrective actions may provide input for improvement of the monitoring activities.

1.3 Level of Assurance

The verification report is based on the Monitoring report /01/, registered VCS PD /B04/, supporting documents made available to the CCIPL and information collected through performing interviews.

The verification has been planned and organised to achieve a:

- ☒ Reasonable level of assurance as per VCS Standard (v4.1)
- ☐ Limited level of assurance

1.4 Summary Description of the Project

Project activity is the operation of 99 MWe run-of-the-river hydroelectric power plant in the Black Sea region, of Reşadiye-Tokat Province, The project is located within the borders of Reşadiye district of Tokat province of Turkey. The project activity involves electricity generation using potential energy of the Kelkit Stream by means of 3 turbines of 33 MWe capacity each and supply of this the generated electricity to the Turkish National Electricity Grid. The project displaces the electricity produced by fossil fuel-based power plants, by using clean renewable source to generate electricity and thereby contributes to sustainable development through reduction in greenhouse gas (GHG) emissions. During site visit remote interview It's confirmed that the project has been implemented in accordance with the description provided in the PD and MR. It has not been any changed or modified on the project content and details. Approved License by EMRA /7/ also shared to CCIPL authority by PP. The Manager of the AKINCI Hydro Power Plant also showed the Units of the field and HPP via Video Calling during remote site visit.

During remote interview it has been confirmed from Chief Project Manager (Mr. Yasin) of the Hydro Power Plant (HPP), that the electricity produced by AKINCI HPP is transmitted to TEİAŞ Transmission lines. The Substation belongs to HPP and is located inside HPP Field. The length of transmission line is 700 m. The meters of the power plants are located in the Substation Center of HPP. The meters are read by TEİAŞ with the Remote Reading System OSOS and reported to the EPIAŞ institution. The SCADA system of AKINCI Power Plants can be controlled from the Monitoring Room. Transformer of 125 kVA capacity installed in AKINCI Hydro Power Plant field to step up Power Generation from 10.5 kV to 154 kV.

The project proponent for the project activity is Aydem Yenilenebilir Enerji A.Ş., owns the rights to VERs. The project activity start date is 24/10/2018 /7/. The same was confirmed through verification carried out by verifier during 1st monitoring period verification report also.

The project activity first 10-years crediting period, from 24/10/2018 to 23/10/2028. The second monitoring period (01/10/2020 to 30/09/2021) considered for verification falls under this first crediting period of the project activity, with its start date aligned with the start date of the crediting period.

During the remote audit inspection, location (as mentioned in Table, section 1.7 of MR) and all the technical aspects of the project activity (equipment, serial no., type, date of calibration etc.) mentioned in the PD have been verified. The same was also crosschecked during the desk review of technical specifications, Single line diagram and meter location, Provisional acceptance letter, review of data during remote audit and calibration certificates for meters.

It was also confirmed (through remote interviews) that the project activity has been operational since commissioning (24/10/2018) and during the second monitoring period i.e., from 01/10/2020 to 30/09/2021, it has generated 2,38,875.96 MWh net electricity, thereby resulting in emission reduction of 1,22,782 tCO₂e.

The project activity has been implemented as described in the registered VCS PD/B04/ in particular sections 1.1, 1.8, 1.13, 2.2, 4.1, 4.2 and 4.3 of the VCS PD.

2 VERIFICATION PROCESS

2.1 Method and Criteria

The method and criteria used for verification:

The verification consists of the following three phases:

1. Completeness check and desk review of the validation report, monitoring plan, monitoring report, monitoring methodology, VCS PD /B04/, applicable tools in particular attention to the frequency of measurements, quality of metering equipment including calibration requirements, QA/QC procedures and other relevant documents;

2. Remote interviews (including follow-up interviews with project stakeholders, when deemed necessary).

The remote interviews include the following:

- An assignment of implementation and operation of project activity with respect to validated VCS PD /B04/
- Review of information flows for generating, aggregating and reporting the monitoring parameters;
- Interview with relevant personals to determine whether the operational and data collection procedures are implemented and in accordance with the monitoring plan of the validated VCS PD,
- Cross check of information and data provided in the monitoring report with purchase records or similar data sources;
- Review of assumptions made in calculating the emission reductions (if any);
- Implementation of QA/QC procedure in-line with the VCS PD and methodology requirements.

3. Resolution of outstanding issues and the issuance of the final Verification report and as applicable the VCS Verification Deed of Representation.

CC IPL follows a risk-based verification approach, wherein a desk review of the project documentation is undertaken, which is followed by a remote audit by the members of verification team. The verification protocol is filled by the verification team that is based on standard auditing practices and VCS requirements. The verification protocol provides transparent means to record the observations by the verification team members and the non-conformities, if any. The verification protocol is an internal document, and available on request.

2.2 Document Review

During the document review, CCIPL has applied standard auditing techniques to assess the quality of information provided. The verification was performed primarily based on the review of the monitoring report /1/ and the supporting documentation /2/ to /28/. This process included:

- A review of data and information presented by the PP to verify their completeness
- A review of the MP and monitoring methodology, paying particular attention to the frequency of measurements, the quality of metering equipment including calibration requirements, and the QA/QC procedures, and
- An evaluation of data management and the QA/QC system in the context of their influence on the generation and reporting of VERs.

The monitoring report (version 1 dated 20/10/2021) /01/ was initially reviewed and CCIPL requested the PP to present the supporting information and documents. The documents were reviewed by CCIPL. Through the process of the verification, the revised monitoring report /01/ and the supporting documents were evaluated to confirm the actions taken by the PP to the CARs and CLs issued by the verification team.

The list of documents referred during this verification has been provided in Appendix-1.1.

2.3 Interviews

The table below describes the remote interview process and further identifies personnel, including their roles, who were interviewed and/or provided information additional to that provided in the project description, Monitoring report /01/ and any supporting documents.

SN	Date	Name	Organisation	Topic	Persons Interviewed
/1/	11/11/2021	Yasin Kundakci	Aydem Yenilenebilir Enerji A. Ş. –Chief Project Operation	• Project Design • Project Implementation status • Project start date and Project Location • Baseline Scenario	Dinesh Mane & Muhammet Ali Erduran

				• Baseline Identification and Additionality • Compliance with relevant laws • Roles and responsibility	
/2/	11/11/2021	Erkan Ozer	Aydem Yenilenebilir Enerji A. Ş. - Chief Electrical Technician	• Qualification and Training • Monitoring and reporting documentation • Quality Assurance - Management and operating system • Social and Environmental Impacts • Local Stakeholders meeting process • Compliance with relevant laws • Roles and responsibility	Dinesh Mane & Muhammet Ali Erduran
/3/	11/11/2021	Dursun	Local Villager-Tokat Village	• Social and Environmental Impacts • Local Stakeholders meeting process	Dinesh Mane & Muhammet Ali Erduran

/4/	11/11/2021	Merve Aygenc	Project Developer	• Emission reduction calculations • Monitoring report Queries	
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2.4 Site Inspections

As a result of the COVID-19 pandemic, taking into account the rules of relevant national and local authorities (local to the VVB offices as well as to locality of the site visits), World Health Organization (WHO) recommendations, policies of the VVB, email clarification for Verra guidance on site visits, notification of Covid-19 Travel Guidance for Projects <https://verra.org/covid-19-travel-guidance/> and other relevant travel restrictions and guidance (for example, a requirement to self-isolate upon return from specific countries), the VVB has skipped the on-site visit.

Therefore, where a VVB can achieve a reasonable level of assurance without conducting a site visit, or through a remote site visit, this is in conformance with the VCS rules, and no request for an exemption or pre-approval from Verra is required. However, where a validation/verification has been conducted without a site visit, or through a remote site visit, please ensure that the applicable section of the verification report includes a discussion of how a reasonable level of assurance was achieved without an in-person site visit”.

Accordingly, Carbon Check has not conducted an on-site inspection. A reasonable level of assurance has been maintained through the alternative means used for the purpose of verification as follows:

- 1) An assessment of the implementation and operation of the project activity as per the registered VCS PD /B04/
- 2) A review of information aggregating and reporting of the monitoring parameters
- 3) Interviews with relevant personnel to confirm that the operational and data collection procedures are implemented in accordance with the MP (section 2.3 above)
- 4) A cross-check between product sales information provided in the MR /01/ and data from other sources (section 2.3 above).
- 5) A check of the monitoring equipment including calibration performance, and observations of monitoring practices against the requirements of the VCS PD and the applied monitoring methodologies /B02/
- 6) A review of calculations and assumptions made in determining the GHG data and ERs /2/, and
- 7) An identification of QA/QC procedures in place to prevent, or identify and correct, any errors or omissions in the reported monitoring parameters

The verification team carried out remote interviews with representatives of PP 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 the VCS.

Hence, the VVB has used other standard auditing techniques for validation or verification as referred to in VCS Rules/requirements, VCS Validation and Verification Manual version 3.2.

- Verification team has performed google meet interview with PP to check implementation, project boundary, current situation, monitoring and metering equipment, monitoring procedures, calibration etc.
- Cross-check evaluation, for information received from interviews, under the scope of all information and references provided in MR /1/ and supporting documents.
- A check of the monitoring equipment including performance and observations of monitoring practices against the requirements of the registered VCS PD /B04/ and the selected methodology /B02/.

2.5 Resolution of Findings

CC IPL, during this verification, identified issues related to the monitoring, implementation or operation of the VCS project that could impair the capacity of the proposed VCS project to achieve project emission reductions or influence the reporting of emission reductions. CC IPL has identified, discussed these issues within the Verification report in Appendix 4.

- Clarification requests (CLs): Project reporting lacks transparency and further information is needed to determine if a material discrepancy is present.
- Corrective action requests (CARs): The VVB has identified a material discrepancy or non-conformance that the project proponent must address.

The verification team identified 02 CAR and 02 CLs. All CAR and CLs raised by Carbon Check during this verification are resolved by the PP.

2.5.1 Forward Action Requests

Forward Action Request (FAR) is to be raised when the monitoring and reporting require attention and/or adjustment for the next verification period. FARs does not relate to VCS requirements for issuance of ERs achieved during subject monitoring.

CC IPL has not raised any FAR during this verification.

2.6 Eligibility for Validation Activities

CC IPL is conducting the second verification activity, the validation was performed by another VVB. CC IPL has a valid UNFCCC accreditation in the sectoral scope from UNFCCC.

The project activity falls under sectoral scope 01 and the CCIPL is accredited for validation /verification of project activities under this scope.

3 VALIDATION FINDINGS

3.1 Participation under Other GHG Programs

It has been confirmed through the description in PD /B04/ and through interviews (section 2.3) that the project activity does not participate in any emission trading program or any other GHG program and has not sought or received any other form of environmental credit. The project has applied only under VCS for registration. This project is not participating under any other GHG programs.

3.2 Methodology Deviations

CC IPL verified all possible methodology deviations which do not negatively affect the conservativeness of the quantification of GHG emissions reductions or removals, except where the deviations result in greater accuracy.

CC IPL attempts to recognize whether any methodology deviation relates to the procedures relating to monitoring and measurement. Also, the interconnected nature of methodology, CC IPL also checked that such deviations will not have implications on other provisions of the methodology (e.g., equations for quantification) and must assess this possibility when evaluating a proposed deviation.

The verification team confirms that the registered project, under the current monitoring period (i.e., second monitoring period from 01/10/2020 to 30/09/2021, complies with the requirements of the applied monitoring methodology ACM0002 version 15 /B02/. Therefore, no methodology deviations are applied during the monitoring period.

However, during the validation of the project activity a deviation for monitoring parameter A_{PJ} was employed, as checked from section 2.6 of the registered VCS PD and section 3.2.2 & 3.2.7 of the validation reports /B04/. The deviation was applied as the power density of the project activity is very large, and the area flooded due to the project activity cannot exceed the given amount. Even though, the same parameter is monitored in current monitoring period and as per monitoring of the same, the area of reservoir at its full capacity comes to $314,579 \text{ m}^2$, accordingly, the Power Density of project activity comes to 314.71 W/m^2 , which is higher than 10 W/m^2 for 99 MWe i.e., installed capacity. Hence, the project activity does not result in greenhouse gas emissions as per monitoring methodology.

Although, the parameter related to the reservoir area i.e., " A_{PJ} " has not been monitored as per

approved registered PD deviation, and the parameter has not been added. The same was confirmed by the verification team during the remote audit and accepted.

3.3 Project Description Deviations

It was noticed that the project proponent ("Firat Elektrik Üretim ve Ticaret A.Ş.") as per registered PD, which was changed to "AYDEM YENİLENEBİLİR ENERJİ A.Ş." As confirmed during the remote interviews, Firat was a company set up for the purpose of license obtaining, by the management of Bereket Enerji Üretim A.Ş. (which was the major shareholder/mother company). The title of the mother company then changed from Bereket Enerji Üretim A.Ş. to AYDEM YENİLENEBİLİR ENERJİ ANONİM ŞİRKETİ as confirmed from the title change newspaper article of 'TÜRKİYE TİCARET SİCİLİ GAZETESİ'. The same was verified during 1st verification of project activity by appointed VVB.

This change in title of the mother company led to the dissolution of all the sister companies as per company policy. Therefore, the name of PP is now AYDEM YENİLENEBİLİR ENERJİ A.Ş.

The same was verified during first verification as per verification report.

Energy market operation company named PMUM-MRFC (Mentioned in registered PD) had changed to EPIAŞ. The change occurred on 01/09/2015 when EPIAŞ received Market Operation License. Market operations transferred from PMUM-MRFC to EPIAŞ. Hence name change from PMUM-MRFC to EPIAS has been adopted in this monitoring period.

Also, during document review of "Revised agreement between TEİAŞ & AYDEM i.e., Annex-3, Article 3.3 of "The Transmission System Usage Agreement dated 22.02.2021" /20/, it has been found that, the same is asserting 2 years of energy meters Calibration frequency requirements. Accordingly, PP will carry out calibration in 2 years of period instead of 10 years as mentioned in registered PD. In this monitoring period calibration of both (Main and Backup) meter has been carried out at 3 years of frequency i.e., 14/11/2017 (Previous calibration date of both energy meters as per previous verification report and calibration reports) and 19/11/2020 (Current monitoring period calibration date of both energy meters. Therefore, in line with above mentioned agreement, henceforth the calibration of both energy meters will be carried out as per 2 years of calibration frequency i.e. Since date of agreement (22.02.2021). Thus, next calibration date would be 18/11/2022. The same is accepted by Verification team.

The above deviations are appropriately described and justified in monitoring report and verification team, confirms that the project remains in compliance with the VCS Standard v4.1 requirements.

The above deviations do not impact the appropriateness of the baseline scenario, additionality, or applicability of the methodology. Hence the above deviations are valid.

3.4 Grouped Project

Not applicable, as the project activity is not a grouped project.

4 VERIFICATION FINDINGS

4.1 Project Implementation Status

The project activity is in operation stage as evidenced by the remote inspection (google meet video inspection) of the site. All the physical components and project boundary are in conformity with the description in registered VCS PD, and validation report /B04/. The capacity of project equipment's has been confirmed during the remote inspection (through review of installed capacity by SCADA System /17/), also through the technical specifications, electricity generation license /07/, commissioning certificate /08/ and found in-line with the registered VCS PD /B04/.

On the basis of the remote inspection and the review of technical specifications, Single line diagram and meter location /05/, Electricity production license /07/, Provisional acceptance letter, calibration certificates for meters project documentation /08/, invoices /13/, organization structure, and Electricity generation data /02/, the verification team confirms that the project was implemented and operated as described in the registered VCS PD /B04/. The construction of the project activity started in 29/07/2013, as confirmed from the evidence of construction start date. The project activity was commissioned on 24/10/2018 as verified from the commissioning certificate of the project activity /08/. As confirmed during the remote audit (google meet video inspection and interview), the project activity is in continuous operation since commissioning and there is no such incident reported during the current monitoring period which may impact the operation & capacity design of the project activity. The calibration of monitoring equipment i.e., bi-directional meters (main and backup) were checked, and it was confirmed that the meters are factory calibrated, tested at installation, and also tested periodically by the grid operator /09/ as per Part of Revised agreement between TEIAS & AYDEM. The calibration of both the energy meters were carried out at 3 years of frequency for this monitoring period, which is accepted as per 10 years of calibration frequency mentioned in registered PD and as per rules "Communiqué for Measurement Devices used in the Electricity Market /16/. However, as per this revised agreement between TEIAS and PP, the same would occur at 2 years of calibration frequency from upcoming monitoring period. The details of the same is provided in above section 3.3 of this report.

No replacement of the meters was undertaken during the current monitoring period. Therefore, no events have happened that may impact the GHG emission reductions or removals and monitoring in this monitoring Period. Same has been checked from the operational data during remote auditing

and from the EPIAS/MFRC website (using the project owner's access).

Ownership and other programs:

PP has declared that the project is not registered in other GHG programs, PP confirmed that the project will only be going forward with VCS registry, as declared in VCS-PD. Thus, emission reductions generated by project will be solely claimed by PP and PP has the right of use, which is acceptable. Net GHG emission reductions or removals generated by this project will not be used for compliance with an emissions trading program or to meet binding limits on GHG emissions as the host country i.e., Turkey is not an Annex-B country under Kyoto Protocol, neither has its set national emission reduction targets nor any related obligations.

PP will not claim the environmental/carbon credits under any other GHG emission reduction scheme for the crediting period under VCS and PP has declared the same during the validation. Hence, there is no possibility of double counting.

Sustainable Development Contributions:

As confirmed during the remote audit, the project displaces electricity produced in fossil fuel-based power plants, by using clean renewable source to generate electricity and thereby contributes to sustainable development through reduction in greenhouse gas (GHG) emissions. It has also been confirmed that the project contributes to the sustainable development goals (SDG 7, SDG 8, SDG 12, SDG 13, SDG 14, SDG 15 and SDG 17). Under SDG 7, the project supplies clean, affordable, and renewable energy (2,38,875.96 MWh net electricity under the monitoring period) without reliance on fossil fuels for generation of electricity to meet the growing demands in the region. For SDG 8, the implementation of project is providing trainings (occupational and health related) to locals with a decent and secure work environment by reducing emissions otherwise generated by the operation of fossil fuel-based power plants. The emissions (consisting of gases such as Sulphur dioxide) are generally responsible for damaging the quality of agricultural produce and therefore, result in economic harm. The electricity generated during the operation of project activity results in emission reductions i.e., sustainable production and consumption of this electricity, which corresponds to SDG 12. The emission reductions generated due to the project activity are accounted under SDG 13 (emission reduction of 1,22,782 tCO₂e achieved under the monitoring period). For SDG 15 (i.e., supporting life on land), the project has avoided destruction of environmental sensitive areas. Under SDG 17, the project activity strengthens the implementation and revitalizes the global partnership through sustainable development by the means of significant environmental and socio-economic benefits. The same has been verified during site visit interviews and AHPP SDG Contribution report for Current Monitoring period /21/.

Management and operational system:

Verification team was able to verify that authorities and responsibilities for monitoring and reporting of all data related to the emission reductions were clearly defined for the second monitoring period from 01/10/2020 to 30/09/2021.

The allocation of the responsibilities is documented in a written form and is followed as described in the registered VCS PD B04/. Routines for the archiving of data are defined and documented. The electricity generation records were verified during remote audit and from the EPIAS/MFRC website (using the project owner's access). It was observed that the data is consistent with the provided in the final MR and ER sheets. The status of the project activity was verified through the video observation during the remote audit and through the video evidence submitted by the PP, the EPIAS/MFRC website (using the project owner's access) /10/ checked by the verification team indicated the real-time generation data, which further confirmed that the project is fully operational.

The monitoring plan described in section 4.3 of the MR confirmed to be correct. All the parameters of the monitoring plan are monitored using appropriate metering system, the details of which, as mentioned in the section 4.3 of the MR, have been confirmed through the snapshots /06/ and the technical document /03/ submitted by the PP.

The verification team has remotely interviewed the plant personnel involved in the monitoring of the parameters that are used to determine the emission reductions of the project. It is confirmed based on the interviews and review of roles and responsibilities as per organizational structure, that the plant's team is competent enough to monitor the parameters as described in the monitoring plan.

As discussed above, the verification team concludes that management and operational system of the project is implemented and operated well. Thus, it ensures the quality of data which is required in calculating the emission reductions.

Implementation status of the monitoring plan:

Verification team confirms through remote inspection (refer to section 2.4 for details) and from the document review of technical specifications /03/, Single line diagram /05/ and meter location /03/, Electricity production license /07/, Provisional acceptance letter, calibration certificates /09/ for meters, project documentation, invoices /13/, organization structure and Electricity generation data /10/ that the actual monitoring system complies with the monitoring plan mentioned in the registered VCS PD.

During the verification, all relevant monitoring parameters of the registered monitoring plan have been verified with regard to the appropriateness of the verification method; the correctness of the values applied for ER calculation, the accuracy and applied QA/QC measures. All monitoring parameters have been measured / determined without material misstatements and are in line with

all applicable standards and relevant requirements. It is confirmed that the monitoring mechanism is effective and reliable.

There are 2 energy meters which belong to AKINCI HPP in the Sub-Station Center. One of these is the main energy meter and the other one is the back-up energy meter. The energy meters belong to TEİAŞ. The energy meters of the power plants are located within the HPP Sub-Station Center. Meter reading is done by TEİAŞ Remote reading system and giving information to the power plant management by the system of TEİAŞ. Back-up meters for the control of energy production values are also located in the Substation. The TEİAŞ provides remote access to the meters and monitors produced energy amounts every 15 minutes from the Main meters. The amount of energy produced is controlled by comparing the values in the Back-up energy meters /15/.

The information of the energy meters is verified from the Chief Project Manager of HPP. The main energy meter and the back-up energy meter are installed and working according properly as per technical staff of the AKINCI HPP. The meters belong to TEİAŞ. It was confirmed that the calibration authority and responsibility for the meters goes to TEİAŞ. It was also asserted that meter maintenance and other responsibilities also belong to TEİAŞ. Therefore, it was acknowledged that the "first index determination protocol" /04/ regarding the meters was made between TEİAŞ and HPP.

In order to measure the electricity exported to the grid, the information of the installed meters was obtained from the power plant authority. Prior to the monitoring period (01/10/2020 30/09/2021), the meters were installed, in 2018. The Initial Index Detection Protocol includes installation information and Brand-Model information of the meters is verified during interview and document review related to meters /12/. During the monitoring period, the energy meters did not change. The first calibration document of the energy meters was verified during first monitoring period by VVB /B04/. Afterwards, it was stated that calibration was carried out at determined periods according to the legislation of TEİAŞ /20/ and Industry Ministry of Turkey /16/. TEİAŞ Calibration frequency is 2 years after the installation. Industry of Ministry of Turkey Calibration period is 10 years after the producing the energy meters date.

(<https://www.resmigazete.gov.tr/eskiler/2019/12/20191215.pdf>)(<https://www.mevzuat.gov.tr/mevzuat?MevzuatNo=6381&MevzuatTur=7&MevzuatTertip=5>) .

CCIPL cross check EPIAS recorded data in ER sheet /02/ with Metering records data /15/ of back up and main meter also. The invoice data unable to cross check with EPIAS records because invoice does not provide generated energy data in particular month , as it only consists of claimed charges for the month to sold electricity to grid /13/.

During interview with PP, it was confirmed that , the daily electricity generation logbook /26/ and common meter reading records / are being followed between Energy Markets Management Inc.

(EPIAŞ) and AKINCI HPP over the system. It was also evidenced as "hourly meter reading report form - OSF" /27/. In addition to it, within the framework of the agreement between AKINCI HPP and EPIAŞ /04/, it was indicated that instantaneous production values were monitored by using the remote reading system OSOS belonging to TEİAŞ. Also, the technical staff of the HPP keep the note via Excel format Daily Electricity generation logbook /26/. The operator fills up the data hourly basis through SCADA system and adding in Excel - Daily Electricity generation logbook /26/. Hereafter, they printout these documents and sign and record them.

It was confirmed that, the electricity generation records by the SCADA systems /26/ Monitors from OSOS Dashboard and EPIAŞ Dashboard.

The Power Plant is operated as per the production plan given to Power Plant Control Operator one day before. He records the amount of energy produced every hour in the "Daily Production Sheet" /28/ by providing remote access to the Control meter by the Central Control Operator. At the same time, these values are processed into the relevant excel table in the computer environment. At the end of the month, it is compared with the production values in the main meter of TEİAŞ and back up meter /15/. If there is an error or mistake, it will be reported to TEİAŞ.

Joint meter reading records (signed by the representative of the client and power transmission company TEİAŞ) /15/. The main meter of the power plant is read by TEİAŞ, and their monthly production values are officially reported to EPIAŞ. With this notification, monthly production values are reconciled between EPIAŞ and the Power Plant. The record images share by Manager of HPP, On the basis of these vales ER is calculated /02/.

The above-mentioned information flow for generating, aggregating, and reporting the electricity generation values were confirmed by the Chief Project Manager of HPP.

Electricity generation values in the SCADA system are controlled and recorded by the power plant authorities. In addition, the data that TEİAŞ receives via OSOS, which is the remote reading system, is reported to the EPIAŞ system and uploaded to the "Conciliation Page". In this way, official records are finalized. Also, this information is checked by SCADA Dashboards.

The Technical Chief of the AKINCI HEPP provided the information of the operational and data collection procedures. According to him, the accuracy of the set values is checked every hour by pressing the button on the main energy meter, which is located in the substation. These values are recorded in the "daily production sheet". At the end of the month, these data are verified by comparing the main meter values read by TEİAŞ /15/.

According to PP, the quality control and quality assurance procedures in place to prevent or identify and correct any errors or omissions in the reported monitoring period . The technical staff of the AKINCI HPP. Confirms that, the monthly meter values read by TEİAŞ with the remote reading system are notified to the plant operation manager via e-mail. The hourly values previously received by the

Control Operator of the Power Plant are compared with the counter values sent by TEİAŞ. The difference between the two values is checked for measurement accuracy. If there is any data error, TEİAŞ officers and HPP Officers meet together on the site, try to figure out the crisis. When they find the troubles, TEİAŞ officers and HPP Officers correct the errors. After the correction process, they send this information to the EPIAŞ to correct the data of the previous production values. According to the Power Plant Chief Manager, there has been no error process so far. If an error occurs, TEİAŞ notifies EPIAŞ of the erroneous data received from the Power Plant Directorate within a reasonable time and ensures that the values are corrected and verified.

Therefore, from the document review and remote inspection, it is confirmed that all the parameters were monitored in accordance with the registered monitoring plan during the monitoring period. Following are the details of monitoring in accordance with the monitoring plan of the registered VCS PD /B04/:

Data - Parameter	EGPP-Gross Generation, y
Data unit	MWh
Description	Quantity of electricity exported by the power plant to the Grid in year y
Source of data	The Primary source of data is the TEİAŞ meter readings recorded remotely and accessible via the EPIAŞ web site /10/ /15/. The same has been checked for each month by the Verification team during remote video inspection and complete checking of data has also been carried out through the screenshots of the same provided by the PP /10/.
Description of measurement methods and procedures to be applied	Verification team confirms that the data has been measured directly from meters. The meter readings accessible via an Automatic Meter Reading Software, were checked remotely by the verification team during the video inspection. Monthly screen outputs obtained from automatically recorded data at EPIAŞ /10/ were also checked by the verification team, for the entire monitoring period. As confirmed from the meter snapshots and its technical specifications, back up meter has been installed in case there is main meter failure. However, only the main meter readings are used for ER calculations /02/.
Frequency of monitoring-recording	Recorded continuously, read remotely by TEİAŞ, and accessible monthly via the EPIAŞ web site /10/, Reported annually on the VCS Monitoring Report as verified by the verification team through remote assessment.

Value monitored	2,39,043.14MWh The verification team cross checked the data from Monthly screen outputs of automatically recorded data at EPIAS /10/ and was able to verify the same.																										
Monitoring equipment	During the remote inspection and through review of generation data from TEİAŞ – EPIAS web site /10/, it has been confirmed that the data has been monitored continuously by bi-directional metering devices, which provides the data for the monthly invoicing to TEİAŞ. All meters were found to follow the communiqué for Metering Devices /16/ to be used in the Electricity Market. The meters are factory calibrated and tested at installation and tested periodically by the grid operator /09/. The calibrations are valid for 10 years as per TEİAŞ requirements and as per registered PD and the same has been confirmed through the registered VCS-PD /B04/ and the validation report. The validity of calibration for 10 years is also as per the host country requirements /16/. However, calibration is done as per 3 years of frequency and for next calibration will be carried out at frequency of 2 years as per revised agreement between TEİAŞ and PP /20/. The details of the same is mentioned in section 3.3 above in this report. The current calibration date is 19/11/2020 for both the energy meters. Hence next calibration due date for main and back up meter will be 18/11/2022. The same will be verified in next monitoring period. The Calibration dates of the meters and their validity is as follows: <table border="1"> <thead> <tr> <th>Meter</th><th>Serial No.</th><th>Manufacturer class</th><th>Accuracy</th><th>Date of previous calibration</th><th>Date of current Calibration</th><th>Due Date of Calibration</th></tr> </thead> <tbody> <tr> <td>Main</td><td>7019918</td><td>EMH</td><td>0.2s</td><td>14.11.2017</td><td>19.11.2020</td><td>18.11.2022</td></tr> <tr> <td>Back up</td><td>7019919</td><td>EMH</td><td>0.2s</td><td>14.11.2017</td><td>19.11.2020</td><td>18.11.2022</td></tr> </tbody> </table> Hence both the meters follow the host country calibration regulations and had valid calibrations during the entire monitoring period.						Meter	Serial No.	Manufacturer class	Accuracy	Date of previous calibration	Date of current Calibration	Due Date of Calibration	Main	7019918	EMH	0.2s	14.11.2017	19.11.2020	18.11.2022	Back up	7019919	EMH	0.2s	14.11.2017	19.11.2020	18.11.2022
Meter	Serial No.	Manufacturer class	Accuracy	Date of previous calibration	Date of current Calibration	Due Date of Calibration																					
Main	7019918	EMH	0.2s	14.11.2017	19.11.2020	18.11.2022																					
Back up	7019919	EMH	0.2s	14.11.2017	19.11.2020	18.11.2022																					
QA-QC procedure to be applied	There are two bi-directional meters, 1 main and 1 check meter, and the monthly reported meter reading by the main meter, is cross-checked against the Main back up meter by a technician as confirmed during remote																										

	inspection /15/ and through snapshot /10/. Imported electricity was also monitored by the operator using software for internal monitoring, which was again confirmed during the remote inspection.
Purpose of the data	Data is used to calculate net electricity supplied to the grid.
Calculation method	Direct Continuous Measurement
Comments	As confirmed during the remote inspection, the collected data will be kept by AYDEM YENİLENEBİLİR ENERJİ A.Ş. during the crediting period and until two years after the last issuance of VERs for the “Akinci Hydroelectric Power Plant” project activity for that crediting period.

Data - Parameter	EG _{PP-self consumption, y}
Data unit	MWh
Description	Quantity of electricity imported by the power plant from the Grid for self-consumption, in year y
Source of data	The Primary source of data is the TEIAS meter readings recorded remotely and accessible via the EPIAS web site. The same has been checked for random months by the Verification team during remote video inspection and complete checking of data has also been carried out through the screenshots of the same provided by the PP.
Description of measurement methods and procedures to be applied	Verification team confirms that the data has been measured directly from meters. The meter readings accessible via an Automatic Meter Reading Software, were checked remotely by the verification team during the video inspection. Monthly screen outputs obtained from automatically recorded data at EPIAS were also checked by the verification team, for the entire monitoring period. As confirmed from the meter snapshots and its technical specifications , back up meter has been installed in case there is main meter failure. However, only the main meter readings are accessible.
Frequency of monitoring-recording	Recorded continuously, read remotely by TEIAS, and accessible monthly via the EPIAS web site, Reported annually on the VCS Monitoring Report as verified by the verification team through remote assessment.
Value monitored	167.18 MWh The verification team cross checked the data from Monthly screen outputs of automatically recorded data at EPIAS and was able to verify the same.
Monitoring equipment	During the remote inspection and through review of generation data from TEIAS – EPIAS web site , it has been confirmed that the data has been monitored continuously by bi-directional metering devices, which provides the data for the monthly invoicing to TEIAS. All meters were found to follow the communiqué for Metering Devices to be used in the Electricity Market.

	The meters are factory calibrated and tested at installation and tested periodically by the grid operator. The calibrations are valid for 10 years for this monitoring period, and the same has been confirmed through the registered VCS-PD and the validation report /B04/. The validity of calibration for 10 years is also as per the host country requirements. However, frequency of calibration would be 2 years since next monitoring period, as per details provided in section 3.3. above in this report. Both the meters follow the host country calibration regulations and had valid calibrations during the entire monitoring period.
QA-QC procedures to be applied	There are two bi-directional meters, 1 main and 1 check meter, and the monthly reported meter reading by the main meter, is cross-checked against the Main back up meter by a technician as confirmed during remote inspection and through snapshot. Imported electricity was also monitored by the operator using software for internal monitoring, which was again confirmed during the remote inspection .
Purpose of the data	Data is used to calculate net electricity supplied to the grid.
Calculation method	Direct Continuous Measurement
Comments	As confirmed during the remote inspection, the collected data will be kept by AYDEM YENİLENEBİLİR ENERJİ A.Ş. during the crediting period and until two years after the last issuance of VERs for the “Akinci Hydroelectric Power Plant” project activity for that crediting period.

Data - Parameter	Cap _{PI}
Data unit	W
Description	Installed capacity of the hydropower plant after the implementation of the project activity
Source of data	Project site computers with SCADA system /17/ and the turbine name plates /03/
Description of measurement methods and procedures to	Observed via SCADA system during remote audit inspection . Also, technical specifications of the turbines have been checked during the video inspection and through the name plate capacity /03/ of turbine provided by the PP.

be applied	
Frequency of monitoring-recording	once for each monitoring period The same has been confirmed during the remote audit inspection.
Value monitored	99,000,000 The value has been checked through the name plate capacity of turbine , and also, through the technical details mentioned on the Provisional Acceptance letter (commissioning certificate) /08/ .
Monitoring equipment	SCADA System of the Project activity. The same has been evidenced during the remote audit inspection .
QA-QC procedures to be applied	Turbine labels checked with SCADA System reading. Verification team has evidenced the capacity via SCADA system during remote audit inspection and cross checked the same through the name plate capacity of turbine provided by the PP.
Purpose of the data	To monitor capacity of the project
Calculation method	Not applicable.
Comments	Not applicable.

Remaining Issues from Validation or Previous Verification:

This is the second verification of the registered project activity and from the review of the previous verification reports, verification team confirms that No FARs raised during the verification of the project activity.

4.2 Safeguards

4.2.1. No Net Harm

The project activity is the generation of electricity from a clean renewable energy source i.e., hydro and does not involve any negative environmental and socio-economic impact. However, in accordance with “Environmental Law” No. 2872 (Issued in 1983), Annex 2 of Environmental Impact Assessment (EIA) Regulation (issued in 1993 and revised in 2001), run-of-river type HPPs with an installed capacity of more than 50 MW are subject to a full EIA investigation or report preparation. Since, the installed capacity of the project is 99MWe, the project has undergone Environmental impact assessment in compliance with the laws and regulations of Turkey and has achieved EIA affirmative certification on 18 March 2008, as confirmed from the registered validation report. However, due to the change in Project owner, re-application of license was carried out and the same was received on 09 July 2012 as confirmed during the remote audit.

The local stakeholders, Mr. Dursun, who lives in the village of Tokat, 2 km distance from the power plant, participated in the remote on site interviews. Mr. Dursun confirmed, about the positive benefits of the project. He mentioned the project creates job opportunities and builds for the people of the region in a good way. He expressed that village satisfaction for the project is located in this region. He mentioned that, it provides positive contribution to the regional economy. Also he mentioned that the people who lives in this region are delighted for this HPP which is located in their location.

As confirmed through the remote interviews, PP has adopted mitigation measures to minimise the impact of construction and operation as per the Project Presentation Report submitted to the authorities. Necessary precautions have been taken for the minimization of dust, discharge of wastewater in accordance with Water Pollution Control regulations, collection of waste oil Hazardous Waste Control Regulations and Waste Oil Control Regulations, and disposal of waste-to-waste treatment facilities. During the remote investigation, PP confirmed that no such accident had occurred during the current monitoring period, which could be responsible for negative environmental and socio-economic impact. The same is confirmed through the SDG Contribution report for Current Monitoring period /21/.

4.2.2. Local Stakeholder Consultation

The local stakeholder consultation meeting for the project activity was conducted on project site on 21/11/2007 and the process was validated during the registration of project activity in VCS /B04/. VCS validation report was verified to confirm the same. The PP had invited identified stakeholders well in advance through announcement in newspapers to citizens of nearby settlements, NGO's, relevant governmental institutions with details of venue and time of meeting.

During this monitoring period PP has provided one logbook at Village Tokat's office /06/ to register input's or grievance's given by local stakeholders during the operation phase of the project, as an ongoing mechanism of communications by local stakeholder with PP. The same is also known to all local stakeholders. This is verified by verification team during remote audit interview with local stakeholder.

During the monitoring period there were no negative complaints or demands from the local stakeholders received.

4.3 AFOLU-Specific Safeguards

This is not an AFOLU project, as can be confirmed from the registered VCS PD.

4.4 Accuracy of GHG Emission Reduction and Removal Calculations

The verification team has reviewed the emission reduction (ER) spread sheet and checked all the formulae and verified them to be correct and in line with the monitoring plan of the registered VCS PD and the applied monitoring methodology .

All the monitored parameters are described above in section 4.1. All the ex-ante parameters which are used in the calculation of emission reduction are presented in section 4.1 of the MR transparently. It is confirmed that all the ex-ante parameters have been correctly used in the emission reduction calculation.

Baseline emissions:

The baseline emissions (BE_y) are calculated based on the following formula:

$$BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$$

Where:

BE_y = Baseline emissions in year y (tCO₂/yr)

$EG_{PJ,y}$ = Quantity of net electricity generation that is produced and fed into the grid as a result of the implementation of the project activity in year y (MWh/yr)

$EF_{grid,CM,y}$ = Combined margin CO₂ emissions factor in year y (tCO₂/MWh)

And

$$EG_{PJ,y} = EG_{Facility,y}$$

$EG_{Facility,y}$ = Quantity of net electricity generation supplied by the project plant to the grid in year y (MWh/y)

The Combined margin CO₂ emissions factor in year y (tCO₂/MWh), $EF_{grid,CM,y}$, is fixed ex-ante for the

duration of the crediting period and is 0.514 tCO₂e/MWh.

Therefore,

$$BE_y = EG_{PJ,y} \times EF_{grid,CM,y}$$

$$BE_y = (2,38,875.96) \times 0.514$$

$$BE_y = 1,22,782 \text{ tCO}_2 \text{ (rounded down)}$$

It is noted that the formula and calculation used for baseline emission calculation in the monitoring report and ER sheet follows the registered VCS PD. The default values and data used in the monitoring report is in-line with the registered PD /3. Hence, acceptable to the verification team.

Project Emissions:

The Project emissions (PE_y) are calculated based on the following formula:

$$PE_y = PE_{FF} + PE_{GP,y} + PE_{HP,y}$$

Where:

PE_y = Project emissions in year y (tCO₂e/yr)

PE_{FF,y} = Project emissions from fossil fuel consumption in year y (tCO₂e/yr)

PE_{GP,y} = Project emissions from the operation of geothermal power plants due to the release of non-condensable gases in year y (tCO₂e/yr)

PE_{HP,y} = Project emissions from water reservoirs of hydro power plants in year y (tCO₂e/yr)

There has been diesel consumption during the monitoring period, as confirmed by PP while interview. However, as per the paragraph 31 of the applied methodology, *“or all renewable energy power generation project activities, emissions due to the use of fossil fuels for the backup generator can be neglected.”*

Therefore, PE_{FF} = 0, which is acceptable to the verification team.

PE_{GP,y} is not applicable to the project activity, as the registered project is a hydro power plant

As per the methodology the PE_y in case of a hydro power project is Emissions from water reservoirs of hydro power plants (PE_{HP,y})

“For hydro power project activities that result in new reservoirs and hydro power project activities that result in the increase of existing reservoirs, project proponents shall account for CH₄ and CO₂ emissions from the reservoir, estimated as follows:”

The project has a power density of 314.71 W/m^2 (as the calculations which can be checked from ER spread sheet /02/), which is higher than 10 W/m^2 for 99 MWe installed capacity and $314,579 \text{ m}^2$ area of reservoir, which is confirmed from the area of reservoir measured at its full capacity during monitoring period /14/. The parameter “ A_P ” has not been monitored due to the deviation accepted during registration of the project activity (explained in detail in section 3.2 of this report).

As per paragraph 39 of the applied methodology , if the power density of the project activity is greater than 10 W/m^2

Then, $PE_{HP,y} = 0$

Hence, as per the calculation checked by the verification team,

$PE_y = 0$

Leakage:

As per the methodology ACM0002, version 15.0.0 /10/ and as defined in the registered VCS PD /3.1/ no leakage is considered in the project activity and the same is followed in this monitoring period also. Thus, it follows the registered VCS PD.

The following are the ex-ante parameters used in the ER calculation which follow registered VCS PD:

Parameter	Description	Justification
$FC_{i,y}$ cubic meter	Amount of fuel i consumed by relevant power plants in Turkey in years, 2010, 2011, 2012.	The value is used in the calculation of the Emission factor ($0.514 \text{ tCO}_2\text{e/MWh}$). The emission factor has already been calculated ex-ante as $0.514 \text{ tCO}_2\text{e/MWh}$. The value data on the parameter is available in the Annex- 2- Table-1 at validated PDD version 2.0, which has been checked. Hence it is confirmed that the ex-ante details presented on the ex-ante parameter is found appropriate.
$NCV_{i,y}$	Net Calorific Values	The value is used in the calculation of the Emission factor

GJ/Mass	for fossil fuel type <i>i</i> in year, for the years 2010, 2011 and 2012	(0.514 tCO₂e/MWh). The emission factor has already been calculated ex-ante as 0.514 tCO₂e/MWh. The value data on the parameter is available in the Annex- 2-Table-5 at validated PDD version 2.0 /3.1/, which has been checked. Hence it is confirmed that the ex-ante details presented on the ex-ante parameter is found appropriate.
EF _{CO₂,i,y} tCO ₂ /GJ	CO ₂ emission factor of fossil fuel type <i>i</i> in year <i>y</i>	The ex-ante value (0.514 tCO₂e/MWh) has been determined in the registered VCS-PD and the validation report has been checked and the emission factor is found to be correct. The value data on the parameter is available in the Annex- 2-Table-2 at validated PDD version 2.0, which has been checked. Hence it is confirmed that the ex-ante details presented on the ex-ante parameter is found appropriate.
EG _y MWh	Net electricity generated in the project electricity system in other words, net electricity generated and delivered to the grid by all power sources serving the system, not including low-cost / must-run power plants / units, in year <i>y</i>	The value is used in the calculation of the Emission factor (0.514 tCO₂e/MWh). The emission factor has already been calculated ex-ante as 0.514 tCO₂e/MWh. The value data on the parameter is available in the Annex- 2-Table-3 and Table 4 at validated PDD version 2.0/3.1/, which has been checked. Hence it is confirmed that the ex-ante details presented on the ex-ante parameter is found appropriate.

$EG_{m,y}$ MWh	Net electricity generated and delivered to the grid by power unit m in year y	The value is used in the calculation of the Emission factor (0.514 tCO₂e/MWh). The emission factor has already been calculated ex-ante as 0.514 tCO₂e/MWh. The value data on the parameter is available in the Annex- 2-Table-8 at validated PDD version 2.0, which has been checked. Hence it is confirmed that the ex-ante details presented on the ex-ante parameter is found appropriate.
$\eta_{m,y}$	Average net energy conversion efficiency of power unit m in year y	The value is used in the calculation of the Emission factor (0.514 tCO₂e/MWh). The emission factor has already been calculated ex-ante as 0.514 tCO₂e/MWh. The value data on the parameter is available in the Annex- 1 of the “Tool to calculate emission factor for an electricity system”, which has been checked. Hence it is confirmed that the ex-ante details presented on the ex-ante parameter is found appropriate.

According to the applied methodology , the conservativeness of the achieved emission reduction was checked, and the detailed emission reduction calculation has been transparently provided in the ER sheet . All the formulae and the calculation procedure were checked by the verification team. In the opinion of verification team, the assumptions, emission factors and default values that were applied in the calculations have been justified. Also, the verification team confirms that there were no manual transposition errors between the data sets in the ER Sheet during the current monitoring period. It is confirmed that the data has been measured directly from meters and it was cross checked from the TEİAŞ – EPIAS web site /10/ .

All relevant documents were checked to assess the correctness and quality of data submitted by the project participants, which are used to determine emission reductions.

All records needed for monitoring are archived in line with the requirements of the registered monitoring plan /B04/. No significant lack of evidence and missing data were detected during remote audit interview and video inspection . Hence, the verification team confirms that the monitoring system ensures required quality of the monitoring system to ensure the quality of the monitored data. All internal data are subjected to QA/QC measures. The monitoring parameters have been measured / determined without material misstatements and is in line with all applicable standards and relevant requirements. The information inflow (from data generation, aggregation, to recording, calculation and reporting) is included in section 4.1 under each parameter and confirms to the requirement of the PD /B04/. The export and import data are measured by the electricity meters, recorded continuously on the TEİAŞ – EPIAS web site and the invoices are generated monthly. The data is then reported annually on the VCS Monitoring Report /01/ as verified by the verification team through remote assessment.

It was also verified through remote audit interview of responsible personnel, that the plant's team involved in the monitoring of project activity is well experienced. Hence, the verification team concludes that competent staff, as mentioned in the organizational structure is employed by the project proponent to carry out the relevant tasks with sufficient accuracy. Furthermore, it was confirmed during remote audit discussion that internal training program for the monitoring staff are conducted on regular basis.

4.5 Quality of Evidence to Determine GHG Emission Reductions and Removals

When verifying the report emission reduction, CCIPL ensured that there was a clear audit trail that contained the evidence and records that validate the stated figures. All source documents that form the basis for assumptions and other information underlying the GHG data are shown above.

When assessing the audit trails, CCIPL also examined:

1. whether sufficient evidence was available, both in terms of frequency and in covering the full monitoring period
2. the source and nature of the evidence
3. if comparable information was available from sources other than that used in the monitoring report, CCIPL cross-checked the monitoring report against the other sources to confirm that the stated figures were correct. The sources and the data referenced are shown in Appendix 1 below.

CCIPL also assessed that the data collection system met the requirements of the monitoring plan as per the applied methodology.

Proper data management inclusive of data acquisition and aggregation, data management system is being followed for the project activity.

The monitoring personnel at site are well trained and follow reproducible routines. Thus, they are competent to carry out the relevant tasks with sufficient accuracy.

4.6 Non-Permanence Risk Analysis

The project activity was operational during the complete monitoring period. Hence there is no further requirement for the non-performance analysis rating during the monitoring period of the project activity.

5 VERIFICATION CONCLUSION

CCIPL has been contracted by, “Aydem Yenilenebilir Enerji A.Ş.” to undertake 2nd verification and certification for the greenhouse gas (GHG) emission reductions reported from ‘Akinci Hydroelectric Power Plant’ VCS ID 1380 for the monitoring period 01/10/2020 to 30/09/2021, under the crediting period 24/10/2018 to 23/10/2028, in the initial monitoring report version 1 dated 20/10/2021, with regard to the relevant requirements of VCS Standard Version 4.1.

The verification is based on the validated and registered VCS PD/ and the monitoring report for this project. Our verification approach was based on the requirements as defined under the Kyoto Protocol, Marrakech accord, as well as those defined by the CDM Executive Board and the VCS Standard Version 4.1.

The management of the ‘GTE KARBON SÜRDÜRÜLEBİLİR ENERJİ EĞİTİM DANIŞMANLIK VE TİC. AŞ.’ is responsible for the preparation of the GHG emissions data and the reported GHG emissions reductions on the basis set out within the project final Monitoring Report Version 7 and dated 28/01/2022. The calculation and determination of GHG emission reductions from the project is the responsibility of the management of the ‘GTE KARBON SÜRDÜRÜLEBİLİR ENERJİ EĞİTİM

DANIŞMANLIK VE TİC. AŞ.’ The development and maintenance of records and reporting procedures are in accordance with the Monitoring Report Version 7 and dated 28/01/2022.

It is CCIPL responsibility to express an independent GHG verification opinion on the GHG emissions and on the calculation of GHG emission reductions from the project for the period 01/10/2020 to 30/09/2021 based on the reported emission reductions in the Final Monitoring Report Version 7 dated 28/01/2022 for the same period.

As a result of the verification, the verification team confirms that:

- All operations of the project are implemented and installed as planned and described in the project description.
 - The monitoring system is in place and functional.
 - The installed equipment essential for generating emission reductions runs reliably.
 - The GHG emission reductions are calculated without material misstatements in a conservative and appropriate manner.
- Based on an understanding of the risks associated with reporting GHG emissions data and the controls in place to mitigate these, CCIPL planned and performed our work to obtain the information and explanations that we considered necessary to provide sufficient evidence for us to give reasonable assurance that this reported amount of GHG emission reductions for the period is fairly stated.

Verification period: From 01/10/2020 to 30/09/2021

Verified GHG emission reductions and removals in the above verification period:

Year	Baseline emissions or removals (tCO ₂ e)	Project emissions or removals (tCO ₂ e)	Leakage emissions (tCO ₂ e)	Net GHG emission reductions or removals (tCO ₂ e)
01/10/2020 to 31/12/2020	37,884	0	0	37,884
01/01/2021 to 30/09/2021	84,899	0	0	84,899
TOTAL	1,22,782	0	0	1,22,782

The verification team is of the opinion that the project has been implemented in accordance with the registered project description and the MP which complies with the approved monitoring methodology, the monitoring complies with the MP and the monitored data and calculation of ERs are assessed and confirmed as correct.

Therefore, CCIPL certifies, and requests the issuance of, the reported ERs during the monitoring period of 01/10/2020 to 30/09/2021 amounting to 1,22,782 tCO₂e to the VCS Registry.

APPENDIX 1: REFERENCES

S. No.	Document
/01/	a) Monitoring Report Ver 01 dated 20/10/2021 b) Monitoring Report Ver 07 dated 28/01/2022
/02/	a) Emission reduction calculation spread sheet Ver 01 dated 20/10/2021 b) Emission reduction calculation spread sheet Ver 05 dated 28/01/2022
/03/	Technical specifications/photographs of turbines, generators, electricity meters etc. as provided in registered PD
/04/	Power purchase Agreement with TEİAŞ
/05/	Single line diagram for the flow of electricity from generation point to feed in grid including meter locations
/06/	Project site photographs and copy of LSC commination logbook maintained at Village Tokat's office
/07/	Electricity production license dated 24/10/2019 (Valid for 36 years 5 months 19 days)
/08/	Commissioning document (Provisional Acceptance Letter) of Unit 1,2 dated 24/10/2018 and Commissioning document (Provisional Acceptance Letter) of Unit 3 dated 24/01/2019
/09/	Calibration Certificates and meter test report for main meter and check/backup meter dated 19/11/2020
/10/	2 nd Monitoring Period Electricity generation data from TEİAŞ – EPIAS web site
/11/	Proof of location of the weirs, powerhouse, turbines
/12/	Proof of Meters information (Manufacture, Calibration date, Validation, Accuracy class)
/13/	Invoices raised by PP to TEİAŞ
/14/	Proof of Area of the reservoir measured i.e., Surface area determined using the lake surface area map
/15/	Proof of monthly reported meter readings of the main meter cross-checked against the back up meter for the mont. period
/16/	Communiqué for Measurement Devices used in the Electricity Market
/17/	Proof of installed capacity of the Project Activity i.e., showing in SCADA system
/18/	Valid Meters “Type and System Approval” certificate from the Ministry of Trade and Industry in compliance with TS-620 EN 60044-1 and TS718 IEC60044
/19/	The ICE/TSE 62053-22: Electricity metering equipment (a.c) – Particular requirements - Part 22: Static meters for active energy (Classes 0.2 S and 0.5 S)
/20/	Part of Revised agreement between TEİAŞ & AYDEM i.e., Annex-3, Article 3.3 of “The Transmission System Usage Agreement dated 22.0.2021” stating 2 years of Calibration frequency
/21/	AHPP SDG Contribution report for Current Monitoring period
/22/	Proof of occupational trainings and occupational health trainings provided in Current Monitoring period
/23/	Drained excess fuels and oils sewage truck invoices dated 02/10/2020 and 17.06.2021
/24/	Non-hazardous package separation and recycling service invoices dated 21.01.2021, 03.03.2021, 27.04.2021, 15.06.2021, and 06.09.2021
/25/	Hazardous solid waste service invoice dated 14.06.2021
/26/	Electricity generation logbook of PP
/27/	Hourly meter reading report form – OSF of PP
/28/	Daily Production Sheet by PP

Background documents

Ref	Document
/B01/	VCS Requirements a. VCS Standard (v4.1, dated 22/04/2021) b. VCS Program Guide (v4.0, dated 19/09/2019) c. VCS Validation and Verification Manual version (v3.2, dated 19/10/2016) d. Registration & Issuance Process (v4.0, dated 19/09/2019) e. VCS Program Definitions version (v4.1, dated 22/04/2021) f. VCS MR template version 4.0
/B02/	Applied baseline and monitoring methodology: a. ACM0002 "Large-scale Consolidated Methodology; Grid-connected electricity generation from renewable sources." Version 15
/B03/	The Approved Methodology refers to the following tools: • "Tool for the demonstration and assessment of additionality" (Version 07.0.0; EB 70 - Annex 8) • "Tool to calculate the emission factor for an electricity system". (Version 04.0.0;EB 75- Annex 15) • "Guidelines on the assessment of investment analysis" (Version 5; EB62-Annex 5)
/B04/	• Registered VCS PD • Registered Validation Report • Verified 1st Monitoring Report • Verified 1st Verification Report
/B05/	Website and links: 1. IPCC (http://www.ipcc-nggip.iges.or.jp) 2. http://cdm.unfccc.int 3. https://verra.org/project/vcs-program/rules-and-requirements/

APPENDIX 2: Abbreviations

CDM	Clean Development Mechanism
BE	Baseline Emission
CAR	Corrective Action Request
CCIPL	Carbon Check (India) Private Ltd.
CDM	Clean Development Mechanism
CL	Clarification Request
CO ₂	Carbon Dioxide
CO _{2e}	Carbon Dioxide Equivalent
DOE	Designated Operational Entity
DPR	Detailed project report
DVR	Draft Validation Report
EB	CDM Executive Board
EF	Emission Factor
ER	Emission Reduction
FAR	Forward Action Request
FVR	Final validation Report
GHG	Greenhouse gas(es)
GWh	Giga Watt Hour
IPCC	Intergovernmental Panel on Climate Change
MW	Mega Watt
MWh	Mega Watt Hour
NA	Not Applicable
OSV	On Site Visit
PD	Project Description
PP	Project Proponent
QC/QA	Quality control/Quality assurance
TR	Technical Review
UNFCCC	United Nations Framework Convention on Climate Change
VCS	Verified Carbon Standard
VCSA	Verified Carbon Standard Association
VCU	Verified Carbon Unit
VVB	Validation Verification Body
VVM	Validation and Verification Manual
VVS	Validation and Verification Standard

APPENDIX 3: CERTIFICATES OF COMPETENCE



Carbon
CHECK

Carbon Check (India) Private Ltd.

Mr. Dinesh M Mane

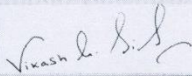
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

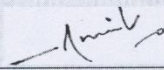
Validator	☒	Team Leader	☒	Technical reviewer	☐
Verifier	☒	Technical Expert	☒	Local Assessor ¹	☒

In the following Technical Areas:

TA 1.1	☐	TA 4.1	☐	TA 9.1	☐	TA 13.1	☐
TA 1.2	☒	TA 5.1	☐	TA 9.2	☐	TA 13.2	☐
TA 3.1	☐	TA 5.2	☐	TA 10.1	☐	TA 14.1	☐



Mr. Vikash Kumar Singh
Compliance Officer



Mr. Amit Anand
CEO

Date of Approval
24/12/2021

Valid Till
23/12/2022

Revision History of the Document

01/03/2020 ²	Interim Revision for office address change
01/09/2020	Interim Revision for CCIPL logo change
24/12/2020	Annual Revision
24/12/2021	Annual Revision

¹ India

² Please refer to previous version of competency certificates for the revision history.

CARBON CHECK (INDIA) PRIVATE LIMITED
CIN: U74930DL2012PTC232495
Regd. Off: 2071/38, 2nd Floor, Naiwala, Karol Bagh, New Delhi - 110005
Corporate off: Unit No. 1701, Logix City Centre Office Tower, Plot No. BW-58, Sector-32 Noida, Uttar Pradesh
Tel: +91 120 4373114 | URL: www.carboncheck.co.in | e-mail: info@carboncheck.co.in



Carbon Check (India) Private Ltd.

Ms. Indumathi. C

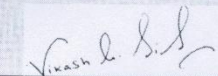
has been qualified as per CCIPL's internal qualification procedures, in accordance with requirements of Accreditation Standard (version 07.0):

For following functions:

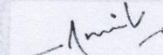
Validator	☐	Team Leader	☒	Technical reviewer	☒
Verifier	☐	Technical Expert	☒	Local Assessor ¹	☒

In the following Technical Areas:

TA 1.1	☒	TA 4.1	☐	TA 9.1	☐	TA 13.1	☒
TA 1.2	☒	TA 5.1	☐	TA 9.2	☐	TA 13.2	☒
TA 3.1	☒	TA 5.2	☐	TA 10.1	☐	TA 14.1	☐



Mr. Vikash Kumar Singh
Compliance Officer



Mr. Amit Anand
CEO

Date of Approval
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Corporate off: Unit No. 1701, Logix City Centre Office Tower, Plot No. BW-58, Sector-32 Noida, Uttar Pradesh
Tel: +91 120 4373114 | URL: www.carboncheck.co.in | e-mail: info@carboncheck.co.in

APPENDIX 4: FINDINGS LOG

Table 1. CLs from this verification

Finding	CL 01
Classification	☐ CAR ☒ CL ☐ FAR
Description of finding (VVB)	While reviewing the ER calculation sheet provided to CCIPL with MR ver. 1, it found that, the value of Total Energy Provided to the Grid as per "Metering Records" is 2,38,893.98 MWh. However, as per "EPIAS Records" and provided MR, this value is stated as 2,42,940.32 MWh. Accordingly, the other two monitored parameters i.e., "EG_{PP-Gross} Generation, y" and "EG_{PP-self} consumption, y" area also showing the related difference in ER calculation sheet and MR. PP need to clarify the difference between these values.
Corrective Action or clarification #1 (PP shall write a detailed and clear corrective action or further information for clarification as per finding)	As per registered VCS PD, the primary source for ER calculations is indicated as screenshot records by EPIAS portal (formerly named as EPIAS). Therefore, EPIAS records has been taken as the primary source in the ER calculations and related MR reflects the same. The mentioned difference between the joint meter records and EPIAS records are due to transmission loss, etc.
VVB Assessment #1 The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.	Kindly refer below assessment statement of VVB for CAR-02, which also affirms that the difference in both records, is due to incorrect energy values of export and import of energy, provided in ER sheet. The same is also reconfirmed through review of both records by VVB.
Corrective Action or clarification #2	The revised difference in Metering records and EPIAS screenshot records in revised ER sheet is due to transmission loss. The MR and ER sheet are now revised to include corrected values of ER and energy generated covering the monitoring period.
VVB Assessment #2	The explanation provided in above 2nd response is found to be appropriate. Also , the revised MR and ER sheet is also found to corrected properly. Hence this CL is closed.
Conclusion Tick the appropriate checkbox	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed

Finding	CL 02
Classification	☐ CAR ☒ CL ☐ FAR
Description of finding (VVB)	While carrying out document review of previous monitoring period, it is observed that the previous verification report verified contributed UN

Finding	CL 02
	SDG nos. 12, 14, 15 & 17 in addition to goals achieved in current monitoring period i.e., 7, 8 & 13. PP needs to clarify that why UN SDG nos.12, 14,15 & 17 contribution are not provided for current monitoring period in MR. Also PP is requested to provide SDG Contribution report covering this monitoring report.
Corrective Action or clarification #1 (PP shall write a detailed and clear corrective action or further information for clarification as per finding)	In line with response to above said raised CL, Other mentioned SDGs are added in SDG report and revised MR accordingly. The SDG contribution report is also provided to VVB.
VVB Assessment #1 The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.	Revised MR dated 15/11/2021 is reviewed by Verification team and found that, added SDGs are properly mentioned in MR. The submitted SDG contribution report covering current monitoring period is found to be appropriate as per template guidelines provided by VCS.
Conclusion Tick the appropriate checkbox	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed

Table 2. CARs from this verification

Finding	CAR 01
Classification	☒ CAR ☐ CL ☐ FAR
Description of finding (VVB)	CAR being raised for the following corrections related to MR template ver4 /B01-f/ and other VCS rules: - As per MR template, document prepared and contact info to be provided on title page of MR in place of "2nd Monitoring Report". - Report ID of MR mentioned is not matching with previous monitoring period ID mentioned in verified MR version (AkıncıVCSMR-1). "Date of Issue" of MR is not after date of monitoring period. - Date format throughout the MR should be same, i.e., DD/MM/YYYY - In Table 1 of section 1.1. of the MR, reference of PDD to be changed to PD as per VCS rules /B01/. - In Section 2.3 of the MR, it should be clearly stated that "It is Not AFLOU Project" for clarity purpose.

Finding	CAR 01
	7. Methodology Deviation taken monitored parameter “A_{PJ}” to be revealed in section 2.3.1 of MR for clarity purpose as per registered VCS PD and previous MR. 8. Section 2.3.1 should mention “Project Description” instead of “Project Design Document” as per VCS rules /B01/. 9. Certain parameters such as “EG_{PP-Gross Generation, y}”, “EG_{PP-net, y}”, “EG_{PP-self consumption, y}” and “EG_{PP-gross, y}” need to make subscript as per registered PD. 10. Section 3.2 of MR mentions proposed monitoring plans for all parameters as mentioned in registered PD. However, it needs to be corrected to actual implemented and monitored information in this section. 11. Section 4.4 of MR should mention “Emission Factor (tCO₂/MWh)” is an ex ante parameter as per registered PD for clarity purpose.
Corrective Action or clarification #1 (PP shall write a detailed and clear corrective action or further information for clarification as per finding)	All requested corrections has been done.
VVB Assessment #1 The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.	Following changes yet to be done in revised MR: 1) Revision no. of MR to be changed on title page of revised MR. 2) Point no. 7 of this CAR is not yet closed.
Corrective Action or clarification #2	1) Version no has been revised on the cover page. 2) Section 2.3.1 has been revised accordingly.
VVB Assessment #2	<i>The changes made in MR are found to be appropriate as per response provided. Hence, this CAR is closed.</i>
Conclusion Tick the appropriate checkbox	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed

Finding	CAR 02		
Classification	☒ CAR	☐ CL	☐ FAR
Description of finding (VVB)	While carrying out document review of EPIAS record values with the ER sheet values, it is found that the EPIAS record value for the month August 2021 was 26,033.21 MWh, whereas in ER sheet it is mentioned 30,097.33 MWh. Accordingly, Emission reduction calculation and other related calculations needs to be corrected in revised MR and ER sheet in this respect.		
Corrective Action or clarification #1 (PP shall write a detailed and clear corrective action or further information for clarification as per finding)	There was a mistake in the previous EPIAS screenshot. Please find correct EPIAS record attached. The value for August 2021 has been revised. The excel and MR has been revised, too.		
VVB Assessment #1 The assessment shall encompass all open issues in the finding. In case of non-closure, additional corrective action and VVB assessments (#2, #3, etc.) shall be added.	The revised EPIAS record, for the month of August 2021 is verified by Verification team. However, still the record showing energy reading for electricity export and import as 26,033.21 MWh and 1.62 MWh respectively. Accordingly, ER sheet and MR to be revised to provide correct emission reductions occurred in given monitoring period.		
Corrective Action or clarification #2	As per August 2021 EPIAS records energy value have been modified in updated ER spread sheet. Accordingly, MR also revised in line with.		
VVB Assessment #2	Revised MR and ER sheet found to be corrected properly. Hence this CAR is closed.		
Conclusion Tick the appropriate checkbox	☐ To be checked during the next periodic verification ☐ Outstanding finding (not closed) ☒ The finding is closed		