

**U.S. Low-Carbon Cement Protocol**

**Project Data Report**

The Project Data Report (PDR) Template must be completed for each of the project’s reporting period. This template is only intended as a guide and provides the minimum required information to be reported. This template is designed for use with the Low-Carbon Cement Protocol V1.0 (LCCP). The project developer has the option to include additional information at their discretion.

*Please note that this document will be made publicly available once the project has registered credits for the reporting period. If there is proprietary information, please provide a redacted and non-redacted version for review.*

|  |  |
| --- | --- |
| **Account Holder** |  |
| **Project ID and Name** |  |
| **Protocol Version** | U.S. Low-Carbon Cement V. |
| **Current Reporting Period Dates** |  |
| **Claimed CRTs by Vintage** |  |
| **Date Submitted** |  |

Table of Contents

[1 Introduction 3](#_Toc158366491)

[2 Project Definition 3](#_Toc158366492)

[a Project Definition 3](#_Toc158366493)

[b Project Developer 3](#_Toc158366494)

[3 Project Eligibility 3](#_Toc158366495)

[a Project Location 3](#_Toc158366496)

[b Project Start Date 3](#_Toc158366497)

[c Project Crediting Period 4](#_Toc158366498)

[d Additionality 4](#_Toc158366499)

[i Performance Standard Test 4](#_Toc158366500)

[ii Legal Requirement Test 4](#_Toc158366501)

[e Regulatory Compliance 4](#_Toc158366502)

[f ASTM International Standards 4](#_Toc158366503)

[g Project Stacking 4](#_Toc158366504)

[h Social and Environmental Safeguards 4](#_Toc158366505)

[i Social Safeguards 4](#_Toc158366506)

[ii Environmental Safeguards 5](#_Toc158366507)

[4 GHG Assessment Boundary 5](#_Toc158366508)

[a GHG Assessment Boundary 5](#_Toc158366509)

[5 Quantifying GHG Emission Reductions 6](#_Toc158366510)

[a Quantifying Baseline Emissions 6](#_Toc158366511)

[i CO2 Emission Factor 6](#_Toc158366512)

[ii Total Baseline GHG Emissions 7](#_Toc158366514)

[b Quantifying Project Emissions 7](#_Toc158366515)

[c Final CRT Summary 7](#_Toc158366516)

[6 Variance Request 8](#_Toc158366517)

[7 Project Documentation 8](#_Toc158366518)

# Introduction

*Provide a general description of the project.*

# Project Definition

## Project Definition

*List the SCMs and/or ACMs used to replace PC and provide the applicable ASTM standard(s). Describe the evidence provided that gives reasonable assurances that the SCM/ACM product displaced PC.*

## Project Developer

*List the entities which have any amount of legal control over the project boundary, identify the mechanism through which the Account Holder has legal authority to implement the project. The Protocol establishes the SCM/ACM supplier or manufacturer as the project developer by default; however, if the project developer is not the supplier or manufacturer (e.g., technology supplier or specialized project developers), disclose their role in the process. In addition, please state which entity will be designated as the project developer and will sign the Attestation of Title. If there are no technical consultants or other parties with material interest, state “N/A.”*

Technical Consultant(s):

Other Parties with Material Interest (entity name and role):

Entity Signing Attestation of Title:

Additional Information:

# Project Eligibility

## Project Location

*Provide the project location (i.e., city and state). Additionally, provide the location of the mine for SCM/ACM inputs (if it differs from the above location), location of the PC facility (if Approach 1 is used for baseline emission quantification), and the location(s) where the SCM/ACM materials is being sold.*

## Project Start Date

*Provide the date at which production first commenced of eligible SCM/ACM (i.e., project start date). If the start date is not associated with when production of the SCM/ACM first commenced, describe what constitutes the project start date (increases production, installment of new equipment, etc.). Provide the length of the initial start-up testing period, if applicable, as well as what documentation will be provided to the verification body to demonstrate the period is no more than 9 months.*

## Project Crediting Period

*State the project’s crediting period as defined in Section 3.3 of the Protocol.*

      to

## Additionality

### Performance Standard Test

*List the eligible SCMs and/or ACMs utilized by the project.*

### Legal Requirement Test

*Confirm below that the project activities are not legally required. Identify any federal, state, or local regulations or legally binding mandates that are relevant to the project boundary, including labor (e.g., OSHA) and air and water quality, or state-required (e.g., CalTrans). If at any point the project activity becomes legally required, disclose the date on which the policy goes into effect and the project is no longer eligible for crediting.*

## Regulatory Compliance

*Provide the federal, state, and/or local regulatory agencies with jurisdiction over the project location. Disclose any instances of non-compliance during the verification period, including Notice of Violations deemed administrative, not project related, and “acts of nature.” Describe how the project intends to monitor for compliance during future reporting periods.*

## ASTM International Standards

*The Protocol requires all SCM/ACMs meet ASTM international standards. Summarize the ASTM report for the project’s SCM/ACMs and provide a copy to the Reserve. Describe how the project meets end-use requirements to displace PC.*

## Project Stacking

*Disclose below if the project location participates in other carbon project types, including a brief description of the project activity, the Registry in which the project is listed, and how the two projects do not result in double counting. Confirm that the Reserve and the other registry are aware of and provided approval for project stacking.*

## Social and Environmental Safeguards

### Social Safeguards

*Confirm below that the project is in material compliance with all labor and safety laws for the verification period. Provide the dates when the project was available for public comment. If public comments were received during this time and were deemed necessary to establish a dispute resolution plan, summarize the concern and the details of the satisfactory dispute resolution plan.*

### Environmental Safeguards

*Confirm below that the project is in material compliance with all environmental regulations in the verification period, and how the project is designed and implemented in such a way to mitigate potential releases of pollutants that may cause degradation of the quality of soil, air, and surface and groundwater.*

# GHG Assessment Boundary

## GHG Assessment Boundary

*The table below only includes the SSRs included in the GHG assessment boundary. For details of all SSRs relevant to the project activity, including the justification for exclusion/inclusion, refer to Table 4.1 of the LCCP.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **SSR** | **Source Description** | **Gas** | **Baseline (B) or Project (P)** | **Confirm each SSR is Included** |
| 1 | Emissions from mining and packaging of raw material | CO2 | B, P |  |
| 2 | Emissions from transportation and storage of raw materials | CO2 | B, P |  |
| 3 | Emissions from PC production | CO2 | B |  |
| 4 | Emissions from ACM/SCM manufacturing | CO2 | P |  |
| 5 | Emissions from production of additives for SCM | CO2 | P |  |
| 6 | Emissions from transportation of additives for SCM manufacturing | CO2 | P |  |
| 7 | Emissions from transportation of waste | CO2 | B, P |  |
| 8 | Emissions from end-of-life waste | CO2 | B, P |  |
| 9 | Emissions from packaging and storing cementitious material | CO2 | B, P |  |
| 10 | Emissions from transportation of cementitious material to cement and/or concrete plant | CO2 | B, P |  |

# Quantifying GHG Emission Reductions

## Quantifying Baseline Emissions

### CO2 Emission Factor

*State whether plant-specific data or regional PC emission factors were utilized to determine the project’s CO2 emission factor for PC production during the verification period. Provide the mining, production, transport, and end-of-life waste emissions and the quantity of PC produced during the 3-year lookback period. Provide the project region, eGRID subregion(s) for the baseline and disclose if the project is utilizing alternative emission factors. If utilizing Approach #2, briefly describe how the region(s) were selected. If verifying two reporting periods in one verification cycle, report data by vintage.*

|  |  |
| --- | --- |
| **Vintage:** | **Vintage:** |
| Region(s) the project is located: | Region(s) the project is located: |
| How region(s) were determined: | How region(s) were determined: |
| eGRID Subregions and alternative emission factors (if applicable): | eGRID Subregions and alternative emission factors (if applicable): |
| Mining Emissions:       tCO2e | Mining Emissions:       tCO2e |
| Production Emissions:       tCO2e | Production Emissions:       tCO2e |
| Transport Emissions:       tCO2e | Transport Emissions:       tCO2e |
| End-of-Life Waste Emissions:       tCO2e | End-of-Life Waste Emissions:       tCO2e |
| Quantity of PC Produced:       tonnes | Quantity of PC Produced:       tonnes |
| CO2 Emission Factor:       tCO2e/t of PC | CO2 Emission Factor:       tCO2e/t of PC |

### Total Baseline GHG Emissions

*Provide the total quantity of PC that would have been produced during the verification period, PC to SCM/ACM weight adjustment factor, and the total baseline emissions for the verification period. If verifying two reporting periods in one verification cycle, report data by vintage.*

|  |  |
| --- | --- |
| **Vintage:** | **Vintage:** |
| Total Quantity of PC Produced:       tCO2e | Total Quantity of PC Produced:       tCO2e |
| PC to SCM/ACM Weight Adjustment Factor:       percent, as fraction | PC to SCM/ACM Weight Adjustment Factor:       percent, as fraction |
| Total Baseline Emissions:       tCO2e | Total Baseline Emissions:       tCO2e |

## Quantifying Project Emissions

*Provide the mining, production, transport, end-of-life waste, and additive production emissions associated with the SCM/ACM manufacturing during the verification period. If verifying two reporting periods in one verification cycle, report data by vintage.*

|  |  |
| --- | --- |
| **Vintage:** | **Vintage:** |
| eGRID Subregions and alternative emission factors (if applicable): | eGRID Subregions and alternative emission factors (if applicable): |
| Mining Emissions:       tCO2e | Mining Emissions:       tCO2e |
| Production Emissions:       tCO2e | Production Emissions:       tCO2e |
| Transport Emissions:       tCO2e | Transport Emissions:       tCO2e |
| End-of-Life Waste Emissions:       tCO2e | End-of-Life Waste Emissions:       tCO2e |
| Additive Production:       tCO2e | Additive Production:       tCO2e |
| Project Emissions:       tCO2 | Project Emissions:       tCO2 |

## Final CRT Summary

*Summarize the final result for determining the net GHG Reductions.*

|  |  |
| --- | --- |
| **Vintage:** | **Vintage:** |
| Baseline Emissions:       tCO2e | Baseline Emissions:       tCO2e |
| Project Emissions:       tCO2e | Project Emissions:       tCO2e |
| Total Emission Reductions:       tCO2e | Total Emission Reductions:       tCO2e |

# Variance Request

*If a variance was requested during the reporting period, provide a brief description of the rule/requirement in the protocol in question, the conditions of the determination, and the date of the variance request and determination.*

Date of Variance Request:

Protocol Section and Rule/Requirement:

Date Reserve Issued Determination:

Variance Conditions:

# Project Documentation

*The following documents are required to be submitted for project registration. In cases where there is proprietary information, please provide unredacted and redacted versions. If additional documents were submitted, please include the document title and its associated file name.*

|  |  |
| --- | --- |
| **Document** | **File Name** |
| LCC QuanTool |  |
| Project Diagram |  |
| Attestation of Title |  |
| Attestation of Voluntary Implementation |  |
| Attestation of Regulatory Compliance |  |
| Attestation of SCM/ACM Use |  |
| Monitoring Plan |  |
| Environmental and Social Safeguards Assessment Form |  |
| Project Contributions to the U.N. Sustainable Development Goals Report Tool |  |
| Project Data Report (this document) |  |
| Variance Request |  |
|  |  |
|  |  |
|  |  |
|  |  |