

Part B: Water-Resistive and Air Barriers (version 5.0)

April 24, 2026 | Sustainable Minds | Contact Kim Hammer (kim@sustainableminds.com)

EPD use case goal:

1

EPD use levels are cumulative. Transparency is the baseline. To create a 'Data source' conformant PCR, all criteria in all checklists must be documented.

1. Program Operator (PO) checklist Version 1.0, May 25, 2022 | ACLCA PCR Open Standard 2022

Categories	#	Criteria	ISO reference	Supporting documentation	EPD use	How criteria were met	Due
Ground rules						How criteria were met	Due
Organizational	1	Prior to using the ACLCA PCR Guidance 2022 to develop PCRs, the PO shall use this guidance to develop and publish conformant program instructions that describe the process of PCR development aligned with ISO/TS 14027.	This guidance	General program instructions (governance document): • ACLCA PCR Guidance 2022 conformant statement with version number	1 Transparency	Updated program instructions published to SM website http://www.sustainableminds.com/files/transparency/SM_Governance_and_program_rules.pdf	Complete
	2	PO shall use this checklist to guide the creation of a PCR, identify how criteria were met, and provide the completed Program Operator Checklist and PCR Review Panel Checklist to the PCR Review Panel.	This guidance	PCR supporting documentation: • Completed checklist	1 Transparency	Completed checklists saved with the PCR supporting documentation.	Complete
	3	PO shall be the secretariat of the PCR and manage an open and transparent process to develop or update a PCR. This process shall include public notices prior to PCR development and an open consultation process with interested parties while the PCR Committee remains active. PO shall publish the intention to develop (or update) a PCR on its website, in relevant industry and trade publications and/or news services, and through centralized notification mechanisms. The announcements shall include contact information that allows interested parties to request more information about participation in the PCR development or review process. Interested parties may include material suppliers, manufacturers, trade associations, purchasers (such as architects, designers, specifiers, contractors, and engineers), users, non-governmental organizations (NGOs), and public agencies.	14027 Clause 6.4.1	PCR supporting documentation: • Date(s) announcement(s) were posted and where	1 Transparency	Public notice on the Sustainable Minds website announcing the new version of water-resistive and air barriers Part B on November 20, 2025: http://www.sustainableminds.com/transparency-report-program/part-b Email blast on November 20, 2025 to mailing lists of LCA professionals, building and construction industry and trade associations, and participants listed in the previous version of the PCR.	Complete
	4	PO shall determine whether to create a new PCR or to adapt an existing PCR from other geographic regions. The PO shall justify the determination in the PCR.	14027 Clause 6.4.2, 6.4.3	PCR: • Identify existing PCRs considered, and provide justification for creating a new PCR. • If new, identify the supporting LCA. • Describe how existing PCRs will be adapted.	2 Procurement	N/A	N/A
	5	PO shall evaluate upstream and downstream PCRs in the value chain to be considered for alignment. PO shall list relevant PCRs in the PCR. <i>Note: Also see Criterion 15 for the process of determining when a PCR may be updated.</i>	14044 14027 Clause 6.4.3 This guidance	PCR supporting documentation: • Identify existing upstream PCRs for the major inputs to the product(s) considered in the PCR. • Describe differences in allocation rules or other potential conflicts and how they were resolved. • Identify existing downstream PCRs that use products/materials from the PCR and how inconsistencies were resolved.	3 Data source	N/A	N/A
	6	PO shall harmonize PCR activities with other EPD programs to avoid unnecessary duplication and proliferation of similar PCRs, and align on mutual recognition agreement (MRA) requirements. PO shall list relevant PCRs in the PCR. <i>Note: Refer to both the ACLCA's PCR library and the North American PCR Catalog: Building & Construction Materials https://www.transparencycatalog.com/na-pcr-catalog-building-products</i>	14027 Clause 6.5.5 14029 Clause 7, 9.2	PCR supporting documentation: • Identify whether this criteria is applicable. • Identify other POs engaged to harmonize PCR activities and opportunities explored (joint development of new, merging, application of existing, or adaptation of existing). • MRA between POs one exists.	1 Transparency	Addressed in Program operator responsibilities section of Part B.	Complete
	7	PO shall publish and implement procedures for an appeals mechanism to ensure prompt and impartial handling of procedural complaints regarding any action or inaction of the PCR Committee, PCR Review Panel, or Program Operator.	14027 Clause 6.4.4	General program instructions (governance document): • Explanation of appeals process	1 Transparency	Addressed in section 10.0 of the governance document.	Complete
	8	PO should include a method for addressing data quality in its general program instructions. <i>Note: Refer to the addendum "Assessing Data Quality of Background Life Cycle Inventory Datasets" for an example data quality assessment method.</i>		General program instructions (governance document): • Method for Data Quality Assessment	2 Procurement	N/A	N/A
	PCR committee formation						How criteria were met
9	PO shall actively reach out to interested parties (including parties outside the PO's country or region) to ensure that the PCR Committee is composed of independent members, making sure that the interests of one party do not dominate the PCR development process. No single interested party category (at individual, organizational, or sectoral levels) shall dominate the membership of a PCR Committee. Interested parties may include material suppliers, manufacturers, trade associations, purchasers (such as architects, designers, specifiers, contractors, and engineers), users, non-governmental organizations (NGOs), and public agencies.	14025 Clause 5.5, 6.5, & 9.3 14027 Clause 6.4.1 and 6.4.2	PCR: • List of PCR Committee members with employer and/or other entity on behalf of which they are participating. PCR supporting documentation: • Description of interested party outreach efforts and explanation of interested parties that did not participate.	1 Transparency	Working group members listed on page 1 of the Part B.	Complete	

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<input checked="" type="checkbox"/> 10	<p>PO shall address potential conflicts of interest developing the PCR and fully disclose funding sources for the management to interested parties. If significant external funding was made by one or more parties to support the development, the PO should put in place procedures to ensure that no conflict of interest occurs in the PCR process. 'Significant funding' is defined as more than \$10,000 or its in-kind equivalent, or 20% or more of the anticipated funding needs.</p>	<p>US EPA Environmentally Preferable Purchasing Program Framework for the Assessment of Environmental Performance Standards and Ecolabels for Federal Purchasing. https://www.epa.gov/system/files/documents/2022-02/updated-framework_020222.pdf</p>	<p>PCR supporting documentation: - The policy or procedure in use when the PCR was developed covering conflicts of interest, separation of organizational functions necessary to address any potential conflict of interest. - Attestation that this policy or procedure was followed during the development.</p> <p>The evidence must also include one of the following: - Documentation that original sources of funding were disclosed to interested parties, such as a disclosure statement, or in meeting minutes for relevant working groups.</p>	<p>1 Transparency</p>	<p>Conflict statement included in the Part B development information table of the Part B.</p>	<p>Complete</p> <input checked="" type="checkbox"/>
Content of PCR				How criteria were met	Due	
<input checked="" type="checkbox"/> 11	<p>The PCR shall report on the following items: • Name and registration number of the PCR • General information about the program: name of the program, contact information, logo, and website if applicable • PCR Committee members and affiliations • Publication date • Expiration date and renewal schedule • Types of product claims covered by the PCR, with references to standards • Product category • Geographical representativeness of the PCR • Original language and translations (if existing) • How to make comments to the PCR</p>	<p>14027 Clause 6.5</p>	<p>PCR: • Draft PCR that includes all items reported</p>	<p>1 Transparency</p>	<p>Part A section 1.1 addresses the use of SM PCRs to create ISO 14025 Type III environmental declarations, and also language availability. http://www.sustainableminds.com/files/transparency/SM_Part_A_LCA_calculation_rules_and_report_requirements_2023.pdf</p> <p>All other items are addressed in the Part B.</p>	<p>Complete</p> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 12	<p>The PCR shall report the following information about the review process and background of the PCR: • Review panel member information • Open consultation period and participants • Other existing PCRs for the product category and reasons for developing a new one • Reference to underlying LCAs • Confirmation statement that the PCR was created in conformance with this ACLCA PCR Guidance (including version number)</p>	<p>14025 Clause 5.5, 8.2 14027 Clause 5.2, 6.4.4 14025 Clause 6.7.1, 6.7.2 14027 Clause 6.1, 6.4.3, 6.5.3, 7.1d</p>	<p>PCR: • Draft PCR that includes all items except 'open consultation period'</p> <p>PCR supporting documentation: • Open consultation period and participants</p>	<p>1 Transparency</p>	<p>All items except open consultation participants addressed in Part B.</p> <p>Aggregated technical and public comments spreadsheet, including commenter names and committee responses, to be created and made available in the Detailed Review Report.</p>	<p>Complete</p> <input checked="" type="checkbox"/>
PCR review process				How criteria were met	Due	
<input checked="" type="checkbox"/> 13	<p>PO shall set up an independent third-party review panel composed of a minimum of three members (a chair and two members). The combined competencies of the panel shall include, at a minimum, expertise in LCA and in the relevant product sector. <i>Note: Refer to the PCR Review Panel Checklist for review panel expectations.</i></p>	<p>14027 Clause 7.1, 7.2, 7.3, 14025 Clause 8.2.3</p>	<p>PCR: • List of review panel members</p>	<p>1 Transparency</p>	<p>Working group members listed on page 1 of each Part B.</p>	<p>Complete</p> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 14	<p>PO shall also set up an open consultation review.</p>	<p>14027 Clause 6.4.4, 7.3</p>	<p>PCR supporting documentation: • Date(s) open consultation period(s) announced, where/how; aggregated comments spreadsheet</p>	<p>1 Transparency</p>	<p>Aggregated technical and public comments spreadsheet, including commenter names and committee responses, to be created and made available in the Detailed Review Report.</p>	<p>Complete</p> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 15	<p>PO shall ensure the PCR Review Panel provides comments within a 90-day period.</p>	<p>This guidance</p>	<p>PCR supporting documentation: • Date(s) PCR review period</p>	<p>1 Transparency</p>	<p>Due date less than 90 days provided to PCR reviewer (Feb 20 - Mar 13).</p>	<p>Complete</p> <input checked="" type="checkbox"/>
Publication, new and updated PCRs				How criteria were met	Due	
<input checked="" type="checkbox"/> 16	<p>PO shall be responsible for publishing and maintaining the PCR. The published PCR shall be publicly available on the PO's website, free for any other PO to use.</p> <p>PO shall write out the publication date (e.g., June 25, 2022) and expiration date (e.g., June 24, 2027). PCRs shall have a validity period of no more than five years from the publication date. PCRs are invalid beyond the expiration date. PO shall provide the schedule for renewal, if applicable.</p> <p>PO should include a statement adjacent to the PCR Review Panel attribution to indicate conformance with this guidance (including version number) and the EPD use case level.</p> <p>PO should not act as a barrier to translating the PCR and should act as a facilitator for the translation.</p>	<p>14025 Clause 6.4, 6.7.1 14027 Clause 8.1.1</p> <p>This guidance</p>	<p>PCR supporting documentation: • URL of PO's published PCRs page • URL PCR will be available at when published</p> <p>PCR: • Validity period of PCR • Conformance statement and EPD use case level</p>	<p>1 Transparency</p>	<p>A link to the SM Part B page is included in each Part B. Completed Part Bs will be uploaded to that page when published. The URL of the Part B when published will be as follows: http://www.sustainableminds.com/files/transparency/pgds/Part_B_Product_Group_Definition_Water-Resistive_and_Air_Barriers_v5-0.pdf</p> <p>Part B contains validity period, conformance statement, and EPD use case level.</p>	<p>Complete</p> <input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 17	<p>To manage the expectations of PCR users, the PO shall post update information on its website at least four months in advance of the expiration date. The update options include: extending the current PCR, updating the PCR, or letting the PCR expire with no update.</p> <p>If information is not provided within this timeframe, other POs may proceed with the update and post PCR update information on their website.</p>	<p>This guidance</p>	<p>• URL of PO's PCRs undergoing updates</p>	<p>1 Transparency</p>	<p>Public notice on the Sustainable Minds website announcing the new version of water-resistive and air barriers Part B on November 20, 2025: http://www.sustainableminds.com/transparency-report-program/part-b</p> <p>Email blast on November 20, 2025 to mailing lists of LCA professionals, building and construction industry and trade associations, and participants listed in the previous version of the PCR.</p>	<p>Complete</p> <p>Planned</p>

	<p>To update a PCR during the validity period, the PO shall:</p> <ol style="list-style-type: none"> 1. Notify the original PCR Committee members and original Review Panel. 2. Consult ISO 14027 to confirm the reason to update is valid. 3. Create or update the ACLCA PCR Guidance Checklists for the PCR. 4. Open consultation to interested parties. 5. Update the PCR. 6. Obtain sign-off by PCR Review Panel. 7. Republish an updated version and include a change log at the start of the document. 8. Announce the updated version. 9. Update the ACLCA PCR Repository. <p>In the case that an existing PCR does not meet the requirements for creating EPDs for public or private procurement purposes, the PO shall make an effort to first engage the commissioner of the PCR to reconvene the PCR Committee in order to make the required updates. If the PCR commissioner does not reconvene the PCR Committee within 30 days of the PO's request, then the PO may proceed to develop a new PCR using the existing PCR as an informative input document.</p>	14027 Clause 9	<p>PCR:</p> <ul style="list-style-type: none"> • Valid update reason <p>PCR supporting documentation:</p> <ul style="list-style-type: none"> • Checklists 	1 Transparency	<p>The Part B development information table in Part B lists an update justification where relevant. For this Part B, updates were initiated after the validity period at the request of a manufacturer looking to use the PCR to publish EPDs.</p> <p>The process for updating a PCR during the validity period is included in section 9.0 of the governance document. http://www.sustainableminds.com/files/transparency/SM_Governance_and_program_rules.pdf</p>	Complete	☑
	<p>For substantial PCR updates (e.g., updates that impact the results of an EPD), the PO shall contact manufacturers in their program with valid EPDs and other POs to bring attention to the PCR changes and encourage that they update accordingly.</p>	14027 Clause 9	<p>PCR supporting documentation:</p> <ul style="list-style-type: none"> • Description of notification and dates of outreach 	1 Transparency	<p>The scope, declared unit, and system boundary are consistent with the previous version of the PCR. While additional best practices were defined for the life cycle stage scenarios in A1-A3, it can be assumed that the updates will not significantly impact the results of existing valid EPDs.</p>	Complete	☑
EPD template					How criteria were met	Due	
	<p>PO shall create a standard EPD template to be used for all EPDs that can be customized per PCR to identify requirements unique to each. Consider both digital and print (PDF) publishing. <i>Note: Refer to the 'EPD Comparability and Digital EPDs / Open EPD addendum.</i></p> <p>PO shall include a statement adjacent to the PCR name to indicate conformance with this guidance and the EPD use case level.</p>	This guidance	<p>PCR:</p> <ul style="list-style-type: none"> • EPD template document prepared for this PCR • Statement text included in EPD template 	1 Transparency	<p>A standard EPD template is included in Appendix C of Part A.</p> <p>Under the name of each Part B is a statement indicating conformance to this guidance and the EPD use case level.</p>	Complete	☑
	<p>PO shall ensure that the type of EPD developed is clearly noted on the EPD. <i>Note: Refer the 'EPD Types' addendum.</i></p>	This guidance	<p>PCR:</p> <ul style="list-style-type: none"> • Statement text included in EPD template 	1 Transparency	<p>Requirement listed in the Verification statement section in Appendix C of Part A (EPD template).</p>	Complete	☑
Goal and scope	<p>Product categories shall be primarily defined and sufficiently described by product functionality, technical performance, and use. The PCR shall clearly define the product groups for which the rules apply, both by using descriptive language and by using the relevant codes for any of the existing classification systems relevant to the product category and region. Products NOT covered by the PCR shall be clearly listed (as a clarification when products are similar).</p> <p>PO should ensure that the product classification systems are not to be the single determining factor for defining the product category. The PCR is encouraged to provide sufficient information to clearly describe the scope of products and services for which the rules apply.</p>	14027 Clause 8.1.1	<p>PCR:</p> <ul style="list-style-type: none"> • Draft PCR which includes all the items 	2 Procurement	N/A	N/A	☑

Part B: Water-Resistive and Air Barriers (version 5.0)

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EPD use case goal:

1, 2 or 3

EPD use levels are cumulative. Transparency is the baseline. To create a 'Data source' conformant PCR, all criteria in all checklists must be documented.

2. PCR Committee checklist Version 1.0, May 25, 2022 | ACLCA PCR Open Standard 2022

Categories	#	Criteria	ISO reference	Supporting documentation	EPD use	How criteria were met	Due	TKB	
Documentation	Ground rules								
	<input checked="" type="checkbox"/>	1	PCR Committee shall use this checklist to guide the creation of a PCR, identify how criteria were met, and provide the completed checklist to the Program Operator to provide to the PCR Review Panel.	This guidance	PCR supporting documentation: • Completed checklist	1 Transparency	Completed checklists saved with the PCR supporting documentation.	Complete	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	2	PCR Committee shall thoroughly document the use of an existing PCR as an informative document in any adaptation to create a new PCR. Include the PO name, existing PCR name, product category classification, link to the existing PCR, and provide justification for adapting the existing PCR.	14027 Clause 6.4.3 and this guidance	PCR: • Link to PCR Committee's documentation of adaptation	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	3	PCR Committee shall respond to each comment from the PCR Review Panel and public consultation. Responses should address any conflicting comments provided by the PCR Review Panel.	This guidance	PCR supporting documentation: • Link to PCR Committee's documented public response to comments and consultation on PO's website (aggregated comments spreadsheet).	1 Transparency	Aggregated public comments and review panel comments, including committee responses, created and published on the SM website with the PCR supporting documentation.	Complete	<input checked="" type="checkbox"/>
Compliance	<input checked="" type="checkbox"/>	4	PCR Committee shall provide a limited description of the involvement of interested parties for open consultation. Specifically, the PCR should provide: • The name and/or affiliation of the stakeholders who participated in the open consultation. • The dates of the open consultation period. Public consultation should be utilized during the PCR review process. The public consultation of the completed draft PCR should include at a minimum a 30-calendar-day time period for comments to be submitted.	14025 Clause 5.5 14027 Clause 5.2, 6.4.4	PCR: • Draft PCR that includes list of participating interested parties and dates of consultation period.	1 Transparency	Open consultation period listed in 'Open consultation' section of the Part B development table. Aggregated technical and public comments spreadsheet, including commenter names and committee responses, to be created and made available in the Detailed Review Report.	Complete	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	5	PCR Committee shall ensure that the underlying LCA meets the requirements of ISO 14044 and other pertinent standards and that, according to these standards, it has either been critically reviewed by a third party or has undergone an internal verification, either by the PCR Committee itself or appointed independent LCA expert.	14025 Clause 6.7.1, 6.7.2, 8.1.3, 8.2.1, 8.2.2 14027 Clause 5.1, 6.1, 6.5.3, 7.1d	PCR supporting documentation: • Link to documentation of LCA review or internal verification.	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	6	PCR Committee shall ensure that the PCR is compliant with any referenced standards and relevant program instructions under which it is developed.		PCR: • List of referenced standards and link to relevant program instructions.	1 Transparency	Use of Part B in conjunction with SM Part A is addressed in Program operator responsibilities section of each Part B. SM Part A section 1.1 lists the standards required for conformance. The last section of each Part B contains a link to where to find the SM program instructions (governance document).	Complete	<input checked="" type="checkbox"/>
Goal and scope	<input checked="" type="checkbox"/>	7	PCR Committee shall establish LCA requirements that are consistent with ISO 14044. The PCR Committee is encouraged to develop end-use case scenarios for the PCR-compliant EPDs and to incorporate considerations for these use cases into the underlying LCA.	14025 Clause 6.7.1, 6.7.2 14027 Clause 5.1, 6.1, 6.5.3, 7.1d	PCR supporting documentation: • Third-party reviewed ISO 14040/44 conformant LCA of the product categories under consideration. The LCA will reflect cases in which the EPD may be interpreted in use.	1 Transparency	The underlying LCA is included in the Program operator responsibilities section of Part B and is being conducted by a PCR committee member.	Complete	LCA is not completed yet.
	Ground rules								
	<input checked="" type="checkbox"/>	8	PCR Committee shall ensure that all rules for LCA are specified and harmonized with upstream and downstream PCRs (if available) in conformance with relevant standards, including: specification of the functional unit, scope of the study, inventory collection, any allocation rules, impact assessment, and rules for additional information.	14044 14027 Clause 6.5.3	PCR: • Draft PCR with list of specifications	3 Data source	N/A	N/A	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	9	PCR Committee shall ensure that the product category used in the underlying LCA supporting the PCR is directly applicable to the PCR.	14025 Clause 3.14, 6.6, 6.7.2 14027 Clause 6.5.2, 6.5.3	PCR: • Specification and justification of the product category and applicable functional unit.	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	10	PCR Committee shall define the study scope and EPD type for construction products and services.	21930 Clause 5.2.1, 5.2.2	PCR: • Draft PCR with specification of scope as cradle-to-gate or cradle-to-gate with options or cradle-to-grave.	1 Transparency	Part B specifies the scope as cradle-to-gate.	Complete	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	11	PCR Committee shall ensure that a clearly defined and measurable functional or declared unit is included in the PCR for construction products and services.	21930 Clause 7.1.2, 7.1.3	PCR: • Draft PCR with detailed description of the application and suitability of defining functional and declared units, respectively.	1 Transparency	Part B provides a description of the declared unit.	Complete	<input checked="" type="checkbox"/>
	<input checked="" type="checkbox"/>	12	The PCR Committee shall determine which EPD types may be developed (ex: product-specific, industry-wide) and state the specific data requirements for each type. Any other terminology describing types of EPDs should be discouraged. Note: Refer to the 'EPD Types' addendum for descriptions.	ISO 21930 Annex B and 'EPD Types' addendum	PCR: • Draft PCR with description of the EPD types with specific data requirements	1 Transparency	Part B specifies EPD types in the Additional rules for comparability section. Specific data requirements are listed in the Additional rules to Part A section of Part B.	Complete	<input checked="" type="checkbox"/>
System boundary									
<input checked="" type="checkbox"/>	13	PCR Committee shall determine the level of granularity of unit processes specified by the PCR to be included in the underlying LCA supporting the EPD and ensure that these are consistent with the study's goal of using well-identified and explained criteria.	14044 4.2.3.3 14027 Clause 6.5.3 21930 Clause 7.1.9 for construction products & services	PCR: • Draft PCR with list of all unit processes that include all service, material, and energy flows directly connected to the study project and its ability to perform its function.	3 Data source	N/A	N/A	<input checked="" type="checkbox"/>	

	<input checked="" type="checkbox"/> 14	PCR Committee shall ensure that the PCR requires: 1) at minimum, a cradle-to-gate[1] system boundary and that any deviation is explicitly specified and justified; and 2) the use of the recycled content (i.e., cut-off) approach for end-of-life allocation of environmental burdens between product systems. [1] "Gate" represents the finished and packaged product at the manufacturing facility just prior to shipping.	14044 Clause 4.2.3.3.1 14025 6.7.2b, 6.7.2c, 6.7.2j, 7.2.5 14027 6.5.3b, 6.5.6	PCR: • Draft specification of the system boundary and justification of any system boundary minimum requirement deviations (where applicable).	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/> 15	PCR Committee shall ensure that the PCR specifies the capital goods and infrastructure to be included in cases whenever it is feasible. The PCR Committee is encouraged to specify lifetimes or standardized methods of computing lifetimes, as well as the depreciation method utilized to allocate the burden of capital goods over their service period, with any deviations from the default approach explicitly specified and justified.	This guidance	PCR: • Draft PCR that includes all items	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/> 16	PCR Committee shall develop scenarios representing a set of domain-specific standard guidelines for any and each life cycle stage to be included beyond cradle-to-gate (i.e., A1-A3) in the PCR scope and require LCA results for these be reported. The PCR shall also prescribe assumptions for scenarios in cases where there is no discernable difference between one product and another in the same category for use and end-of-life stages. The PCR Committee should include criteria in the PCR for deviation from the prescribed scenarios.	This guidance	PCR: • Where applicable, list of scenarios and associated assumptions.	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/> 17	PCR Committee shall specify whether the benefits and loads beyond the system boundary (i.e., Module D) are to be included in the EPD. If so, the PCR shall describe the specific scenario(s), benefits, and loads to be considered and reported separately in relevant EPDs communicating the full life cycle (cradle-to-grave) impacts of a product. <i>Note: Refer to the 'Circular Scenarios (Module D)' addendum.</i>	This guidance and 'Circular Scenarios (Module D)' addendum	PCR: • Where applicable, list of scenarios and concomitant benefits and loads to be included.	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
Life cycle inventory	Data collection						How criteria were met	Due	
	<input checked="" type="checkbox"/> 18	PCR Committee shall prescribe acceptable primary data collection practices and clearly specify the scope and data quality for secondary data with recommendations for use of specific datasets or databases facilitating this process. Datasets used for calculations shall have been updated within the last 10 years for background data and within the last 5 years for producer-specific (foreground) data; deviations shall be justified. Where databases are required, alternatives or modifications shall be proposed for geographic areas or technologies beyond the scope of the specified dataset(s). Any deviation from the recommended background (secondary) datasets in the PCR shall be clearly specified and justified. In addition, the PCR shall require EPDs to disclose the reporting period for primary and secondary data. <i>Note: Refer to the 'Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum.</i>	ISO 21930 Clause 7.1.9 and 'Data Quality and Secondary Background Datasets' addendum	PCR: • Draft PCR that includes all items	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/> 19	PCR Committee shall identify and ensure that the PCR specifies the selected LCIA indicators or additional information requirements for which relevant inventory information shall be collected.	14025 Clause 7.2.2, 7.2.3 14027 Clause 6.5.4, 6.5.5, 6.6	PCR: • Draft PCR that includes all items	1 Transparency	SM Part A includes the list of selected LCIA indicators.	Complete	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/> 20	PCR Committee shall specify, based on the underlying LCA and/or additional studies informing the PCR, all the data that are to be collected (rather than specifying cut-off criteria for the inventory).	14025 Clause 7.2.3, 7.2.4 14027 Clause 6.6	PCR: • Draft PCR that includes all items	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/> 21	PCR Committee shall specify the type of data to be collected. The committee is encouraged to follow standard data collection examples for foreground (primary) data collection.	21930 Clause 7.1.9 14044 Annex A	PCR: • Draft PCR with data collection sheet example specific to PCR	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
	Data quality						How criteria were met	Due	
	<input checked="" type="checkbox"/> 22	PCR Committee shall refer to relevant guidance to consider parameters for assessing data quality of both foreground (primary) and background (secondary) data. <i>Note: Refer to the 'Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum which provides a data quality assessment method.</i>	21930 Clause 7.1.9 14044 Clause 4.2.3.6 14025 Clause 6.7.2 14027 Clause 6.2	PCR supporting documentation: • Complete data quality assessment for both foreground (primary) and background (secondary) data. This information shall also be included in the underlying LCA, and reviewed.	1 Transparency	The author of the underlying LCA completed a data quality assessment of primary and secondary data and provided PCR-related recommendations to the committee.	Complete	<input checked="" type="checkbox"/>	
Background/secondary data						How criteria were met	Due		

<input checked="" type="checkbox"/> 23	<p>PCR Committee shall ensure that the PCR specifies background (secondary) data quality requirements such that differences between claim results are rooted in actual technical differences, rather than artifacts of background data or the platform. If a secondary data source does not meet the required quality specified by the PCR, it shall be verified by the program operator that better data is not available. <i>Note: Refer to the 'Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum which provides a data quality assessment method.</i></p> <p>For example, as detailed in this addendum, the most recent version of background data for baseline electricity from Federal LCA Commons met the data quality requirements and is recommended to be specified across PCRs (with the LCI and method compatible with the Federal Elementary Flow List (FEDEFL) from https://www.lcacommons.gov/.</p>	<p>Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum</p>	<p>PCR:</p> <ul style="list-style-type: none"> • Draft PCR with list of background (secondary) data sources and default LCIA method(s) 	<p>2 Procurement</p>	<p>N/A</p>	<p>N/A</p>	<input checked="" type="checkbox"/>
Foreground/primary data				How criteria were met	Due		
<input checked="" type="checkbox"/> 24	<p>PCR Committee shall ensure that the PCR specifies primary data be collected for every process in the product system under the control of the organization making the product claim.</p> <p>The PCR Committee is encouraged to specify that data specific to the investigated product scope and supply chain are preferable to generic data, particularly in unit processes considered to have a significant contribution to the product life cycle.</p> <p>For EPDs seeking transparency-level conformance with this guidance, the PCR shall require the following: EPDs that use secondary data for any unit process that contributes 30% or more to any disclosed environmental impact category shall disclose the data source (database name and version, dataset name, dataset geography, and dataset allocation method).</p>	<p>This guidance</p>	<p>PCR supporting documentation:</p> <ul style="list-style-type: none"> • Foreground (primary) data collected in conducting the underlying LCA, and the sensitivity of LCIA outcomes to variability in the foreground data. A facility-specific data collection protocol shall also be included. 	<p>1 Transparency</p>	<p>SM Part A section 7.6 states that primary data shall be collected for every process in the product system under the control of the organization(s) developing the LCA.</p> <p>Part B contains a statement in the Additional rules to Part A section which states: EPDs that use secondary data for any unit process that contributes 30% or more to any disclosed environmental impact category shall disclose the data source (database name and version, LCA modeling software type and version implemented, dataset name, dataset geography, and dataset allocation method)</p> <p>The underlying LCA will list primary data collected and include an analysis on sensitivity or variability.</p>	<p>Complete</p>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 25	<p>For EPDs seeking procurement-level conformance with this guidance, the PCR shall require that EPDs use facility-specific data for upstream unit processes that cumulatively contribute 50% or more to the disclosed global warming potential.</p> <p>In situations where facility-specific data is not available for the upstream unit processes, and such a facility is required to report to the EPA Greenhouse Gas Reporting Program (GHGRP), the PCR shall require the EPD to disclose in the Additional Environmental Information section: the carbon intensity of the manufacturing plant (carbon emitted per metric ton of product manufactured) from which these products, and/or the quartile in which in which the manufacturing plant resides where benchmarks have been published [https://www.epa.gov/ghgreporting/ghgrp-minerals]. Carbon intensity shall be calculated by dividing the emissions reported to the EPA GHGRP by plant production. Emission and production data must be from the same reporting period using the most recent year of data.</p> <p>When a published ENERGY STAR Energy Performance Indicator is available for a product or constituent upstream product, the PCR shall require the EPD to disclose in the Additional Environmental Information section: the ENERGY STAR Energy Performance Score for the manufacturing plant in which the product or constituent upstream product was manufactured, and the reporting period of the underlying data. See https://www.energystar.gov/industrial_plants/energy_star_plant_certification/buy_clean_procurement_and_energy_star_0 for more information.</p>	<p>This guidance</p>	<p>PCR:</p> <ul style="list-style-type: none"> • Draft PCR that includes all items 	<p>2 Procurement</p>	<p>N/A</p>	<p>N/A</p>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 26	<p>PCR Committee shall ensure that the PCR specifies the means by which primary data should be collected and may provide templates to facilitate harmonized data collection, metadata recording, and results reporting. If the specified data collection means are unachievable for a specific EPD developer, the PCR shall designate that the developer records the data collection method(s) utilized in the data description.</p>	<p>14025 Clause 6.7.2</p>	<p>PCR:</p> <ul style="list-style-type: none"> • Specification of data collection methods (e.g., measured, calculated, estimated) 	<p>1 Transparency</p>	<p>SM Part A section 7.6 states: The method of data collection shall be specified (e.g., measured, calculated, estimated).</p>	<p>Complete</p>	<input checked="" type="checkbox"/>
Data assumptions				How criteria were met	Due		
<input checked="" type="checkbox"/> 27	<p>PCR Committee shall specify all parameters of assumed scenarios for use and end-of-life stages so as to ensure comparability and consistency of results. If a manufacturer wishes to define their own scenario(s), they shall be based on primary data.</p>	<p>This guidance and the 'Circular Scenarios (Module D)' and the 'Allocating Materials Shared Across Product Systems' addendum</p>	<p>PCR:</p> <ul style="list-style-type: none"> • List of parameters for use and end-of-life stage scenarios 	<p>2 Procurement</p>	<p>N/A</p>	<p>N/A</p>	<input checked="" type="checkbox"/>
<input checked="" type="checkbox"/> 28	<p>PCR Committee shall ensure that the PCR provides worst-case (i.e., 'conservative') default values for scenario data of the specified processes where no data are available for the EPD developer.</p>	<p>This guidance</p>	<p>PCR:</p> <ul style="list-style-type: none"> • List of worst-case (i.e., 'conservative') default scenario values 	<p>2 Procurement</p>	<p>N/A</p>	<p>N/A</p>	<input checked="" type="checkbox"/>
Data compliance				How criteria were met	Due		

	<input checked="" type="checkbox"/>	29	PCR Committee shall ensure that claims made in the PCR are based on the results of an LCIA, LCI, and/or substantiated and verifiable additional information modules relevant to the product category.	14027 Clause 6.6	PCR: • An underlying LCA with supporting LCIA and LCI for all PCR guidelines	1 Transparency	The underlying LCA will contain relevant supporting LCA results.	Complete	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	30	PCR Committee shall ensure that the PCR states data quality requirements for all data applicable for use in claims. These data shall be verified to be compliant with the established PCR data quality requirements and those for foreground (primary) and background (secondary) data. The PCR shall specify that a data quality assessment be performed on all collected foreground (primary) data and may provide templates to facilitate harmonized primary data collection, assessment, reporting, and verification. <i>Note: Refer to the 'Assessing Data Quality of Background Life Cycle Inventory Datasets' addendum.</i>	This guidance	PCR: • Data quality assessment criteria and/or template	3 Data source	N/A	N/A	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	31	PCR Committee shall ensure that PCR-designated background (secondary) data sources be specified and verified such that: • Data for electricity, transportation, basic fuels, and heavy equipment operation are the most current versions from common public background data (e.g., for North America, LCI and method compatible with the Federal Elementary Flow List (FEDEFLL) from https://www.lcacommons.gov/). • Temporal, geographical, and technological coverage of the secondary data is compatible with the scope of the PCR. • System boundaries are equivalent, and reference flows are adaptable to the product system specified in the PCR. • Sources of secondary data are cited. • Allocation procedures used for secondary data are appropriate for the system under study.	This guidance and 'Assessing Data Quality of Background Life Cycle Inventory Datasets' and the 'Allocating Materials Shared Across Product Systems' addenda	PCR: • Draft PCR with list of background (secondary) data sources and default LCIA method(s)	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
Allocation								How criteria were met	Due	
	<input checked="" type="checkbox"/>	32	PCR Committee shall ensure that the PCR specifies which processes are to be subdivided if allocation can be avoided in this manner wherever feasible. The PCR shall also provide guidelines on how the subdivision should be performed.	14025 Clause 6.7.1c, 6.7.2c 14027 Clause 6.5.3	PCR • Draft PCR that lists processes and subdivision method	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	33	PCR Committee shall ensure the PCR specifies that where allocation by physical relationship is applied, the PCR shall specify the relevant underlying physical relationships to be considered and establish or refer to the relevant allocation rules.	14025 Clause 6.7.1c, 6.7.2c 14027 Clause 6.5.3	PCR • Draft PCR that includes specification	1 Transparency	Part B section 6 provides a recommended allocation method.	Complete	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	34	PCR Committee should refer to relevant standards for defining allocation procedures for reuse and recycling, as well as waste handling, and for scenarios for treating waste generation during the product life cycle.	14044 Clause 4.3.4 21930 Clause 7.1.7.2.7	PCR • Draft PCR that includes specification	1 Transparency	Allocation regarding output of waste per ISO standards is listed in section 8 of SM Part A.	Complete	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	35	PCR Committee shall refer to rules for and prioritize stepwise allocation for industrial processes that produce more than one product or deliver more than one service. For example, the refining of crude oil produces more than one different product, such as liquefied petroleum gas, gasoline, naphtha, diesel, asphalt, and others. PCR Committee shall refer to rules prohibiting system expansion as a method for avoiding allocation for construction products that may involve the production of co-products; rather, the PCR shall prescribe an ISO-compliant method of allocation, or an allocation procedure if multiple methods are allowed.	14044 Clause 4.3.4.2 21930 Clause 7.2.5	PCR • Draft PCR including allocation method and procedure (where applicable)	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
End of life scenario								How criteria were met	Due	
	<input checked="" type="checkbox"/>	36	PCR Committee shall prescribe ISO-compliant rules for allocation between product systems (across the system boundary) and designate whether Module D may be optionally reported in the EPD for construction products and services. If so, the PCR shall prescribe detailed calculation rules for any quantitative metrics reported therein. <i>Note: Refer to the 'Allocating Burdens and Benefits of Materials Shared Across Product Systems' addendum.</i>	21930 Clause 7.2.6	PCR: • Draft PCR with allocation rules and calculation rules	2 Procurement	N/A	N/A	<input checked="" type="checkbox"/>	
Life cycle impact assessment	<input checked="" type="checkbox"/>	37	PCR Committee shall include all minimally required, core indicators for ISO-compliant EPDs; specifically bulleting the indicator with: 1) the LCA characterization methodology, and 2) reference in parenthesis. Additionally, the PCR is encouraged to specify at least one LCIA method that includes characterization factors for calculating category indicator results for each impact category and each geographical region covered by the PCR.	21930 Clause 9.5	PCR: • Draft PCR including all items	1 Transparency	Core indicators are listed in section 9 of SM Part A.	Complete	<input checked="" type="checkbox"/>	
Interpretation	<input checked="" type="checkbox"/>	38	PCR Committee shall identify the steps for interpreting the results of the underlying LCA study.	14044 Clause 4.5 21930 Clause 9	PCR: • Draft PCR including all items	1 Transparency	SM Part A section 9.3 includes steps for interpreting the results of a background LCA.	Complete	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	39	PCR Committee shall ensure that the PCR communicates requirements (either qualitative or quantitative) and reference the methods and format used to report additional environmental information.	21930 Clause 8.4 14025 Clause 7.2.3, 7.2.4	PCR: • Detailed specification on requirements and reference methods and format used to report additional environmental information.	1 Transparency	SM Part A section 10 includes a description of additional environmental information and the TR/EPD template in Appendix C showing placement of such information.	Complete	<input checked="" type="checkbox"/>	
	<input checked="" type="checkbox"/>	40	PCR Committee shall ensure that the PCR lists assumptions and limitations associated with the underlying LCA results.	14044 Clause 4.5.2.1	PCR: • Draft PCR including all items	1 Transparency	SM Part A section 5.2 includes a description of assumptions and limitations associated with TR/EPD results.	Complete	<input checked="" type="checkbox"/>	

It seems like this requirement is specific to the underlying LCA.

	<input checked="" type="checkbox"/> 41 PCR Committee shall specify different types of uncertainties to be propagated in the underlying LCA study and is encouraged to ensure that the PCR describes procedures for reporting uncertainty of results.	14044 Clause 4.4.4.2 14025 6.7.1b	PCR: <ul style="list-style-type: none"> • Draft PCR including all items 	1 Transparency	SM Part A states that uncertainty shall be addressed in the data quality assessment and may be addressed qualitatively or quantitatively.	Complete	It seems like this requirement is specific to the underlying LCA.
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Part B: Water-Resistive and Air Barriers (version 5.0)

April 24, 2026 | Sustainable Minds | Contact Kim Hammer (kim@sustainableminds.com)

EPD use case goal:

1, 2 or 3

EPD use levels are cumulative. Transparency is the baseline. To create a 'Data source' conformant PCR, all criteria in all checklists must be documented.

3. PCR Review Panel checklist Version 1.0, May 25, 2022 | ACLCA PCR Open Standard 2022

Categories	#	Criteria	ISO reference	Supporting documentation	EPD use	3 Data source 2 Procurement 1 Transparency	How criteria were met	Due
Organizational	Ground rules							
	<input checked="" type="checkbox"/>	1	The PCR Review Panel shall use this checklist to guide their process of reviewing the PCR.	This guidance	PCR supporting documentation: • Completed checklist	1 Transparency	Completed checklists saved with the PCR supporting documentation.	Complete
	<input checked="" type="checkbox"/>	2	PCR Review Panel members shall disclose any conflicts of interest using the conflict of interest form.	14027 Clause 7.2 14071	PCR supporting documentation: • Review panel completed conflict of interest forms	1 Transparency	Conflict of interest forms to be completed by review panel members.	Complete
	<input checked="" type="checkbox"/>	3	The PCR Review Panel shall meet with the Program Operator to discuss the PCR and how to perform their review. The PCR Review Panel shall investigate whether the PCR has been developed in accordance with relevant LCA-based claim standards, general program instructions, specifications, and guidelines, and ensure that it supports the creation of credible and consistent claims. The PCR Review Panel shall verify that the EPD template is consistent with the PCR guidelines. The PCR Review Panel shall generate and compile their comments in a review report. By the agreed upon date determined by the Program Operator, the review report shall be sent to the PCR Committee for consideration.	14027 Clause 7, 7.3, 7.5 14071	PCR supporting documentation: • Dated review report	1 Transparency	Aggregated technical and public comments spreadsheet, including commenter names and committee responses, to be created and made available in the Detailed Review Report.	Complete
	<input checked="" type="checkbox"/>	4	The PCR Review Panel shall confirm that the PCR meets relevant EPD-related federal and/or state procurement requirements (e.g., Buy Clean Legislation) that are specifically referenced in the PCR.	This guidance and relevant EPD-related federal and/or state procurement requirements	PCR supporting documentation: • Reviewers' sign-off and/or list of any deviations from procurement requirements	2 Procurement	N/A	N/A
<input checked="" type="checkbox"/>	5	The PCR Review Panel shall verify conformance the Program Operator and PCR Committee checklists and the appropriate category of EPD use is identified.	This guidance	PCR supporting documentation: • Reviewers' sign-off below and/or list of any deviations from this guidance. All three completed checklists returned to the PO.	1 Transparency	Section below completed by review panel chair, who confirmed sign-off from all review panel members.	Complete	

Reviewer acceptance for EPD use case (1, 2, or 3) Date | Reviewer names & email

Date	Revier name & email	Acceptance for EPD use case Level 1 (Y/N)
23-Apr-26	Thomas Gloria / t.gloria@industrial-ecology.com	Y
23-Apr-26	Terrie Boguski / tboguski@harmonyenviro.com	Y
23-Apr-26	Jason Pierce / blueridgesustainabilityllc@gmail.com	Y



Part B comments worksheet

SM Transparency Report™ Framework
Part B: Product group definition

Sustainable Minds, PCR Part B: Product group definition | Water-Resistive and Air Barriers, 2026. http://www.sustainableminds.com/files/transparency/pdfs/Part_B_Product_Group_Definition_Water-Resistive_and_Air_Barriers_v5-0.pdf.

Part B name:	Water-Resistive and Air Barriers, v5.0
Reviewers:	Tom Gloria, Terrie Boguski, Jason Pierce

Topic #	Page #	Section #	Type of comment (Technical/editorial/other)	Reviewer comment	Reviewer's proposed change/solution	Response	Rationale	Reviewer response	SM response	Reviewer response
1	3	3.0	te	JP: Section 3.0 lists seven functional performance tests of which one or more is mandatory for eligibility in this PCR. Section 1.0 Description lists four tests of which one or more are required to be covered by Part B. D779 is included in Section 1 but not the Section 3 list. AC212, AC38, and E2556 are included in Section 3 but not the Section 1 list. The relationship between the eligibility requirements of these two lists is not clear.	Either clarify the relationship of the two separate lists or consolidate into one common list of eligibility qualification tests.	Accept	Edited Section 3 to eliminate conformance requirement and instead refer back to Section 1 for specific performance requirements. Also added ASTM D779 to section 3 for consistency.	Accepted	-	-
2	3	4.0	ge	JP: The text says "Module D may not be optionally declared". This is not clearly worded!	Based on my interpretation of the intent, it is recommended to re-word this as "Module D shall not be declared".	Accept	Clarity needed; updated to "Module D shall not be declared"	Accepted	-	-
3	4	footnote 1	ge	JP: The hyperlink to the ACLCA PCR Open standard leads to a "page not found" error on the website	Update the link to the ACLCA PCR Open standard	Accept	Fix needed; updated link	Accepted	-	-
4	4	6.1	te	JP: The required specificity text is missing the option for industry-average EPD results.	Revise text to say "Per the ACLCA Guidance for Determining EPD Types and Calculating and Communicating Data Specificity Through the Supply Chain v1, this [choose one of: EPD, EPD result, set of EPD results] is [choose one of: industry-average, manufacturer-average, facility-specific] and [choose one of: product-average, product-specific], supply-chain-specificity [choose one of: ≤, ≥] X% [supply-chain-specificity statement is not reported in the case of industry-average and manufacturer-average EPDs]."	Accept	Consistency needed; added missing text for industry-average option	Accepted	-	-
5	4	6.1	te	TG: The ACLCA guidance establishes a framework for communicating what constitutes a Product-avg EPD or a Product-specific EPD. ACLCA "Guidance for Determining EPD Types and Calculating and Communicating Data Specificity Through the Supply Chain" Section 6. -- Product-specific EPD: An EPD that covers a single product. Given that the distinguishing benefit of a product-specific EPD is its accuracy of environmental impact results (by avoiding product-to-product variability), an EPD may also be considered product-specific if it covers a group of similar products that share equivalent material and performance characteristics such that their environmental impacts per declared unit are sufficiently equivalent. The nuance is creating thresholds that determine sufficient equivalency, allowing a product-specific EPD to be created. This provides guidance to the LCA practitioner regarding modeling approaches. For example, if a range of air barriers were determined to be sufficiently equivalent, then only one model representing that range would be allowable. If there were no criteria to determine sufficient equivalency, then air-barriers would have to be modeled and shown to result in impacts within +/- 10% to demonstrate the ability to group the products, and the EPD would no longer be product-specific. Providing guidance on what is and what is not sufficiently equivalent will reduce subjective interpretation by both the practitioner and the verifier.	Provide guidance on when products are or are not sufficiently equivalent to be grouped together and still be classified as product-specific.	Accept	Added new paragraph to EPD types row of Section 6 to clearly prohibit specific groupings while also allowing other potential groupings with approval of EPD program operator and/or verifier.	TG: SM response accepted with additional comment by TKB. TKB: To the last sentence in 6.1, add "and justified in the EPD report".	Accept; added "and justified in the EPD"	TKB: Accepted
6	4	6.2	te	JP: there is a large amount of information required for hazardous substances in SDS and it is not clear which of this information is required in an EPD	Is the intent here to require duplication of information in an SDS, or is necessary only to disclose the names of the substances? Or maybe a middle ground such as disclosing the names of substances along with their GHS hazard phrases. Please clarify what is needed.	Accept	Added clarification to disclose CASRN and chemical name.	Accepted	-	-
7	5	6.3	te	JP: In the section on Manufacturing A3 it says that onsite renewable electricity credits shall be "kept/owned" by the manufacturing facility. In order to prevent double-counting, the RECs need to be "retired", not just kept and owned	RECs generate by the installation are retired by the manufacturing facility.	Accept	Updated language to better reflect language from the REC addendum: "On-site renewable electricity may be included in the inventory if renewable electricity certificates (RECs) are eligible: an eligible REC is one for which the company has maintained ownership of the renewable attributes and is retired as part of the renewable energy claim."	Accepted	-	-
8	6	8.0	te	JP: Text says that demonstration of company specific results relative to industry average requires statistical confidence. In order to make this possible, Part B needs to mandate that quantitative uncertainty analysis shall be calculated and reported for industry average EPDs	Part B needs to mandate that quantitative uncertainty analysis shall be calculated and reported for industry average EPDs in order to enable company specific results to be compared against them.	Accept	Clarity needed; added: "Quantitative uncertainty analysis shall be calculated and reported for industry-average EPDs."	Accepted	-	-
9	6	8.0	ge	TKB: It is unclear if and how the threshold of performance improvement is related to the statistically significant lower comparison described above.	Please explain how these threshold values are meant to be reported in the EPD.	Accept	Clarity needed; added: "If the company-specific EPD is being compared to the industry average, the performance difference as a percentage compared to the industry average shall be reported in the EPD for each impact category."	Accepted	-	-
10	2	2.1	te	TKB: Since the underlying LCA is meant to inform the PCR development, will it be completed before the PCR is finalized? Additional explanation about how the underlying LCA informs the PCR would be helpful.		Accept	Explanation needed; added "preliminary results from the LCA model were used to identify gaps in prescribed requirements, particularly for the default allocation method and packaging descriptions"	Accepted	-	-

11			ge	TKB: The ACLCA Open Standard PCR Committee checklist items #40 and #41 require that (40) PCR Committee shall ensure that the PCR lists assumptions and limitations associated with the underlying LCA results and (41) PCR Committee shall specify different types of uncertainties to be propagated in the underlying LCA study and is encouraged to ensure that the PCR describes procedures for reporting uncertainty of results. It is not clear that these requirements are met.	Review the requirements and add information to the PCR as needed.	Reject	Assumptions and limitations of LCAs conducted using SM Part A are defined in Part A, including the underlying LCA. Part A also discusses how uncertainty is addressed by LCAs conducted using Part A, including the underlying LCA.	TKB: I don't see that these requirements of the ACLCA Open Standard are fulfilled: #40. "PCR Committee shall ensure that the PCR lists assumptions and limitations associated with the underlying LCA results." and #41. "PCR Committee shall specify different types of uncertainties to be propagated in the underlying LCA study..." I interpret these requirements as the PCR Committee specifically looking at the underlying LCA for any Part B assumptions and limitations that need to be listed in the Part B for this specific product group. Likewise, are there any specific uncertainties that should be propagated and evaluated for this product group? These would be identified in the Part B PCR. I think that noting the PCR Committee considered these and found "none identified" would be acceptable, if this is the case. We could ask the ACLCA PCR Open Standard committee for clarification of these requirements.	Accept: 1. Added assumptions and limitations associated with the underlying LCA results. 2. Added to the end of section 7, "Apart from the requirements outlined in Sustainable Minds Part A for all LCAs and in section 8 of this document for calculating uncertainty in industry-average EPDs, and upon review of the assumptions and limitations associated with the underlying LCA, the PCR Committee did not identify any additional types of uncertainty analysis to be performed in LCAs for this product category."
12	all	Footer	ed	TG: The email address 'tab@sustainableminds.com' is 'sales@sustainableminds.com'	Revise text to be consistent.	Accept	Consistency needed; updated hyperlink to tab email address	Accepted	-