Summary of Changes

ACR Methodology for the Quantification, Monitoring, Reporting and Verification of Greenhouse Gas (GHG) Emissions Reductions from the Transition to Advanced Formulation Blowing Agents in Foam Manufacturing and Use

v.2.1 → v.3.0

The following is a summary of significant changes made in version 3.0 of the ACR *Methodology for the Quantification, Monitoring, Reporting and Verification of Greenhouse Gas (GHG) Emissions Reductions from the Transition to Advanced Formulation Blowing Agents in Foam Manufacturing and Use* relative to version 2.1. Version 2.1 was published in August 2021. Version 3.0 was posted for public comment in November 2021.

Topic	Revision	Section
Crediting Period	Updates crediting period from Ten (10) years to Leakage Lifetime of individual foam end-use. According to Table A-136 of the Inventory of U.S. GHG Emissions and Sinks: 1990-2019 (published by EPA in 2021), the Leakage Lifetimes of different foam end-uses range from 1 to 50 years. Due to this big variation in Leakage Lifetimes, a fixed non-renewable crediting period of 10 years (allowed in the current methodology) is not appropriate for projects involving foam end-uses. Fixed non-renewable crediting period equal to respective Leakage Lifetime of the end-use will allow capture of all GHG emissions associated with the use of the foam product.	1.4
Geographic Boundary	Includes SSR6: Foam Disposal in the project boundary for quantification of baseline/project emissions and emission reductions.	2, Figure 1
Geographic Boundary	Includes emissions from the foam at the end-of-life	2, Table 2
Quantification	Replaces First Year Loss and Annual Loss rates (column 3 and 4) in Tables 5 and 6 with a single column of Leakage Lifetime emission rates based on data from US Inventory of GHG and Sinks: 2000-2019 (2021)	4, Tables 5 and 6
Quantification	Removes First-year loss rate emission factor (FYL_{BBA}, FYL_{EBA}, FYL_{LBA}) and Annual loss rate emission factor	4, Equations 1, 3, and 4

	(AL_{BBA}, AL_{EBA}, AL_{LBA}) and replaces them with a single Leakage Lifetime emission rate (LL_{BA}) Changes the equations 1,3 and 4 for quantification of baseline, project and leakage emissions From $\mathbf{BE_{BA} = \{[(Q_{BA} \times FYL_{BA}) + (Q_{BA} \times AL_{BA} \times YR)] \div 2204.62\} \times GWP_{BA}}$ To $\mathbf{BE_{BA} = (Q_{BA} \times LL_{BA}) \div 2204.62 \times GWP_{BA}}$	