



SUMMARY AND RESPONSE TO PEER REVIEW COMMENTS

The Methodology for **The Destruction of Ozone Depleting Substances and High-GWP Foam** was updated from version 1.2 to 2.0 by the American Carbon Registry (ACR).

All new methodologies and methodology modifications, whether developed internally or brought to ACR by external parties, undergo a process of public consultation and scientific peer review prior to approval.

The methodology was posted for public comment from June 13, 2022, to July 13, 2022. The methodology was reviewed by an independent panel of experts beginning October 4, 2022. Comments and responses are documented here.





#	Reviewer #	Document Section	Reviewer Comment	Author Response	Reviewer Comment (R2)
1	3	Overall	I am very supportive of the expanded eligibility to include HCFC-22 refrigerant and high-GWP HFC foams. Overall, I think the authors did a great job editing the methodology and responding to the initial round of reviewer feedback.	Acknowledged.	Thank you.
2	2	Overall	Supporting the fast phasedown/phaseout of f-gases, by including HCFC-22 refrigerants and high-GWP HFC foams, is worthwhile, and I support it.	Acknowledged.	Confirmed.
3	2	1.1	Our climate system does not recognize borders. Banks of ODS and high-GWP HFCs are one of the most important sources of short-lived super climate pollutants that can be captured and destroyed. I support the expansion to include Canada and encourage you to include additional locations contingent upon ratification	Acknowledged. ACR has a separate International ODS destruction methodology that is currently being revised to include more ODS and other high-GWP halogenated compounds for destruction.	Confirmed.





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			of the Kigali Amendment to		
	<u> </u>		the Montreal Protocol.		
4	3	1.1; 3.2	Why not expand location	Acknowledged.	Congratulations on your
			eligibility to all countries that	ACD by a second of the second	work to revise the other
			are parties to the Montreal	ACR has a separate International ODS	methodology too. I'd
			Protocol and which have	destruction methodology that is	welcome the chance to
			ratified all amendments,	currently being revised to include	look at that one too when
			including the Kigali	more ODS and other high-GWP	it's ready.
			Amendment capping HFC production and	halogenated compounds for destruction.	
			consumption? Within these	destruction.	
			countries, production and		
			consumption are controlled.		
			2022 was the last baseline		
			year for HFC production		
			levels Article 5 (developing		
			country) group 1 parties,		
			including China. That means		
			the projects could still meet		
			the additionality bar, since		
			it's no longer possible to just		
			make new stuff to replace		
			the amounts destroyed		
			(provided that individual		
			countries did not require		
			destruction, and that there is		
			no re-manufacture		





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			allowances in exchange for		
			destruction.)		
			From an environmental		
			justice standpoint, it makes		
			sense to expand eligibility.		
			Most of the products sold in		
			least developed countries		
			(e.g. many places in Africa)		
			originate in countries that		
			are more developed, such as		
			Korea, Japan, China, or the		
			USA. Refrigerants and		
			blowing agents from insulation foams in less-		
			developed countries will		
			almost certainly be emitted		
			without incentive to collect		
			and destroy them. Why		
			should these developing		
			importer countries be		
			excluded from qualification,		
			when the source of their		
			contamination is the		
			products coming from the US		
			and other more developed		
			countries in the first place?		





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5	2	Section 2.1	It is important to look at the big picture to determine the appropriate DRE. Consider the origins of the TEAP DRE ratings: The framers of the Montreal Protocol on Ozone Depleting Substances envisioned the possibility that it might be necessary to provide virgin chemicals for some specialty uses where utilization of used chemical was impractical or undesirable. For these limited cases, they included a provision allowing for remanufacture of virgin	Minimum DRE of 95% has been added for ODS and High GWP HFCs destroyed from intact foams (this is the only dilute source mentioned in the TEAP report).	Good change.
			product, so long as an equal or greater amount of old substance was destroyed. They also needed to know, for reporting and compliance purposes, the quantities of ODS actually destroyed. (Amounts destroyed factor into the formulas for determining countries' production and consumption		





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			baselines, and compliance		
			with the phaseouts and		
			phasedowns). Hence the		
			eventual elaboration of		
			rigorous destruction and		
			removal efficiency ratings,		
			and TEAP recommendations.		
			The use case here is		
			different. Setting too		
			stringent a destruction		
			efficiency level will result in		
			disqualification of potentially		
			viable and cost-effective		
			destruction facilities (e.g.		
			certain cement kilns) that		
			would be perfectly fine for		
			carbon credit generation.		
			Given how few foam		
			destruction projects have		
			been contemplated—let		
			alone completed—under this		
			methodology, it is far better		
			to have many eligible, cost-		
			effective destruction facilities		
			than to set the bar out of		
			reach. If you want to be extra		
			conservative, you could add		





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			an additional discount rate for facilities with lower DRE (such as a 5% penalty or reduction in credit below the TEAP's estimated DRE) for good measure.		
			Do not let perfect be the enemy of good: allow destruction in as many viable facilities as possible, or the status quo will continue to be that foams are landfilled and eventually emit their blowing agent to the atmosphere because it was too costly or difficult to destroy them.		
6	3	2.1	I support inclusion of destruction facilities outside of the USA. As other commentors have noted, there is limited capacity within the US and this could increase project costeffectiveness.	Acknowledged.	Confirmed.
7	3	2.1	I question the necessity of using destruction facilities	Minimum DRE of 95% has been added for ODS and High GWP HFCs	Thank you. I agree with the changes made.





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			that meet the Montreal Protocol Technology and Economic Assessment Panel (TEAP) 99.99% destruction and removal efficiency (DRE) level (2.1.1), at least for intact foams and other dilute sources, and fear that doing so will reduce the likelihood and economic viability of projects using this methodology. That might be even be considered more stringent than TEAP recommended to the Parties to the Montreal Protocol.	destroyed from intact foams (this is the only dilute source mentioned in the TEAP report). Mixed ODS and High GWP compounds cannot be considered dilute sources because each compound in the mix is a concentrated source eligible for generating carbon offsets upon destruction.	
			As explained on page 1 of the 2018 Decision XXIX/4 TEAP Task Force Report on Destruction Technologies for Controlled Substances, "The DRE must be a minimum of 99.99% for concentrated sources or 95% for dilute sources." (link: https://ozone.unep.org/sites/default/files/2019-04/TEAP-		





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			DecXXIX4-TF-Report-		
			April2018.pdf)		
			I believe the 95% dilute		
			source level is more		
			appropriate for bulk (in-tact)		
			foams, and possibly even for		
			diluted (e.g. contaminated or		
			mixed ODS and high-GWP		
			foam blowing agent)		
			refrigerant, solvents or		
			blowing agents.		
			At a minimum, this standard		
			should clarify what is		
			considered concentrated vs.		
			diluted sources, and align		
			diluted source destruction		
			standards with the 95%		
			recommendation to expand		
			the availability of cost- effective facilities for		
			destruction (i.e. cement kilns). The current definition		
			for "mixed ODS or high-GWP		
			foam blowing agent" (page		
			50) could be used as a proxy		
			for diluted sources.		





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8	1	2.1.1	There's a typo in the first sentence, "The end fate of the ODS, high-GWP foam blowing agent, or high-GWP insulation foam must be <u>destruction</u> at either:", emphasis added.	No typo found. "Destruction" is spelled correctly.	Agreed. I misread this statement during initial review.
9	3	2.2.VII.F	Given the extra steps (labor cost) involved, and the small quantities recovered from household appliances, is it really necessary to require the "serial, tracking or ID number of all appliances from which high-GWP foam blowing agents are extracted and destroyed in an enclosed equipment de-manufacturing system"?	Section 2.2.VII.F is removed.	Thank you.
10	2	2.2.1.I, and 2.2.2 -1	Consider wording this differently: "eligible refrigerants [or foams] must be recovered from equipment, systems, or other supplies that were legally sold in regions deemed eligible under this	Following sections are reworded as follows. 2.2.1.I Eligible refrigerants must originate from equipment, systems, or other supplies legally sold for use in the United States or Canada.	This resolves the issue.





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			methodology." Much refrigerant and foam insulation legally sold in the USA and Canada "originates" in China or other countries where pre-charged appliances and products are manufactured. This rewording will prevent potential confusion about eligibility of refrigerants and foams recovered from legally imported products that originated elsewhere.	2.2.2.I Eligible high-GWP insulation foam must originate from appliance foam, building foam, or other foam legally sold for use in the U.S. or Canada.	
11	3	2.2.1.l; also 2.2.2 (1)	This section currently reads: "Eligible refrigerants must originate from equipment, systems, or other supplies in the United States or Canada. Imported refrigerant (from countries other than U.S. or Canada) is not eligible under this Methodology." However, not all products containing refrigerant and	See response for comment 10.	Thank you.





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			foams are made in the USA. Many if not most domestic AC and appliances are imported, pre-charged. In other words, the refrigerant (and foam) in them is "imported." Ditto with building insulation.		
			This section should be clarified to explain that refrigerant or foam recovered from products that were legally imported for sale in the US and Canada are eligible.		
12	2	2.2.1.III	Consider expanding eligibility to all controlled high-GWP F-gases in this or future versions of the methodology.	This will be considered in a future version of this methodology.	Noted with appreciation.
13	3	2.2.1.III	What is the logic to excluding other controlled ODS and HFC refrigerants that don't appear on this list? Put another way, why give credit to high-GWP HFCs destroyed from foam, but not from	The reason for including high-GWP HFC destruction for foam sources only is because recovery of blowing agents from end-of-life foam is expensive and not a common practice in the US and Canada. This results in most end-of-life foam being	Thank you for the explanation.





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			refrigerant? Source doesn't matter to the earth's climate.	disposed in landfills and hence all entrained blowing agents eventually leak into the atmosphere.	
				High-GWP HFCs from other sources are not eligible for destruction because virgin HFCs can still be produced, imported, and consumed in the US and Canada. Used HFCs from these sources can be economically recovered and reclaimed for reuse. ACR has a separate methodology that allows reclaimed HFCs to generate carbon credits once they are sold for reuse.	
14	1	5.111	There's a typo in this section, tables is plural in "Tables 4".	Typo corrected.	Resolved.
15	1	6.1.V	This section states "For projects destroying refrigerant ODS sourced from government stockpiles or inventories, the project proponent must maintain documentation that the ODS could be sold into commercial markets, and that the ODS is not required	Section 6.1.V reworded as follows. For projects destroying refrigerant ODS sourced from government stockpiles or inventories, the project proponent must maintain documentation that the ODS is not required to be destroyed or converted.	Resolved.





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			to be destroyed or converted." —emphasis added. The requirement that government stockpiles be eligible to be sold into commercial markets was removed from section 2.2.1 II per one of the public comments and therefore is no longer relevant here.		
16	3	6.1.IX.B	This section on monitoring says that for intact appliance high-GWP foams, the numbers of units containing high-GWP foam processed must be recorded. I worry this would exclude potential stockpiles of foam already extracted from appliances that have been scrapped or recycled. Perhaps more importantly, it also says the type and amount of appliance foam blowing agent in the foam must be recorded, as	To overcome the high cost of manual segregation and lab testing of foams (especially for appliances and stockpiles) to determine type and amount of blowing agent, following alternate methods are added. Manufacturer specifications (for appliances) and bill of materials (for buildings) that show the type and quantity of foam product(s) used may be provided as evidence for type(s) of blowing agent(s) contained in the foam(s). In lieu of lab tests to determine the amount of remaining blowing	This change increases the likelihood that projects including the noted applications will be successfully completed.





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			determined through	agent(s) in recovered and stockpiled	
			procedures in Appendix B II.	foam(s), default end of life emission	
			(page 37). But Appendix B	rates published by the US EPA in the	
			section II doesn't appear to	most recent US GHG Inventory may	
			explicitly include provisions	be used to quantify the amount of	
			for appliance foam: it talks	blowing agent(s) remaining in	
			about foams removed from	different categories of foam products	
			buildings, walk-in coolers,	at their EOLs. If the stockpile is older	
			refrigerated transport, pipes	than a year, annual leak rate shall be	
			and marine applications, etc.	deducted (for each 12-month year)	
			but not appliances like	from the disposal emission rate.	
			domestic refrigerators. This		
			oversight should be resolved,	This alternate approach would result	
			so that it is more feasible to	is conservative estimates because the	
			document and destroy	"Loss at Disposal rate" or EOL	
			stockpiles of insulation foams	emission rate in the US GHG	
			removed from appliances	Inventory is estimated assuming that	
			(e.g. old refrigerators and	all foam products will be used for	
			freezers), ideally without	entirety of their "leakage lifetimes"	
			having to individually test	or useful lifetimes. In reality, many	
			every single little scrap of	foam products are disposed of before	
			foam.	the end of their useful lifetimes.	
17	3	6.3	I agree with the decision to	Section 6.3.I.A is removed.	Confirmed.
			eliminate the quarterly		
			calibration requirement,		
			replacing it with a		
			requirement that calibration		





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			happen within six months of the project date instead, in response to the first round of reviewer comments. Is it still necessary to include the quarterly inspection requirement under 6.3 (1)A, given the new requirement in 6.3 B? Perhaps the quarterly inspection requirement should be eliminated if it's unattainable/unverifiable in practice.		
18	1	6.3.I.B	Recommendation: add additional clarification to the statement that scales be calibrated "at least within six months of project start date to 5% or better accuracy". Based on experience with other methodologies this can be interpreted as six months before or after the project start date. Depending on the intent of this requirement it could be better clarified to whether the calibration must	Section 6.3.I.B is modified as follows. "Properly calibrated and inspected per the destruction facility's RCRA permit, or for non-RCRA facilities, calibrated and inspected as required by the governing permit and at least within six months prior to the project start date to 5% or better accuracy. RCRA facilities that do not have calibration requirements defined in their RCRA permits must calibrate and inspect scales at least within six	Resolved.





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			be prior to the start date, or if after the start date is acceptable.	months prior to the project start date to 5% or better accuracy."	
19	1	6.4.II.C and Appendix C I.A.ii and iii	It appears that the term "CEMS data" has been removed from some sections of the methodology (since the previous version), notably section 6.1. There are still references to "CEMS data" in section 6.4.II.C and Appendix C I.A.ii and iii. If the removal of "CEMS data" from other sections was intentional, you may consider removing or revising that term from the remaining sections as well for consistency.	The term "CEMS" is replaced with "Continuous Emissions Monitoring" for section 6.4.II.C. References to CEMS data are removed from Appendix C.I.A.ii and iii.	Resolved.
20	2	Table 4	20-year GWPs should be used instead of 100-year GWPs for short-lived climate pollutants, including ODS and HFCs. Through 2050, mitigating short-lived climate pollutants like HFCs, black carbon, and methane can	ACR fully agrees that there is an urgent need to lower emissions of SLCPs to address global warming in the short term and to also help meet the myriad net zero targets. The 20-year GWP values do show that the magnitude of warming that	If we assume that the contribution of CO ₂ to warming remains constant, using a 20 yr GWP would give SLCPs a higher value over 20 years, to reflect that there is a premium on slowing warming during this 20 year period to limit over-





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			avoid 2-6 times as much warming as cuts in CO2 alone (link: https://www.ccacoalition.org /en/news/top-scientists-reducing-short-lived-climate-pollutants-key-keep-warming-below-2%CB%9Ac).	SLCPs cause in the first 20 years of release is much higher than that over 100 years. However, use of GWP-20 values in quantification of carbon offsets may not be accurate. Since GWP is a relative term that represents absolute GWP of a metric ton of GHG	shooting 1.5C as much as possible, a guardrail that will be breached within a decade or less, speeding self-reinforcing climate feedbacks and pushing the planet past a cascade of irreversible tipping points. If anything, CO2 mitigation should be further de-valued
			The IPCC's newest assessment report (the 6th) spends a considerable amount of time discussing the (in)appropriateness of using 100-year GWP values, depending on the use case. See, for instance, Chapter 6 on Short Lived Climate Pollutants, the discussion in section 1.5.4.1 on 'fitness for purpose' ("Since AR5,	relative to absolute GWP of a metric ton of CO2 over a fixed period of time, the 20-year GWP for SLCPs like methane and HFC-134a would seem high because over 80% of methane or HFC-134a would have decayed in the first 20 years resulting in high absolute GWP (20 yr) while only around 30% of CO2 would have decayed in the same time resulting in low absolute GWP (20 yr). So, the resulting GWP-20 values would show	over the first 20 years, as the primary strategy for reducing it—shutting down fossil fuel plants and shifting to clean energy—actually causes warming the first decade, is a wash at the 20 year mark, and even the most aggressive decarbonization only avoids a modest 0.1C at 2050. See Dreyfus et al: Mitigating climate disruption in time: A
			improved knowledge of the radiative properties, lifetimes and other characteristics of emitted species, and the response of the climate system, have led to updates to the numerical values of a	the warming potential of methane or HFC-134a relative to only 30% warming potential of CO2, and hence seem inaccurately high. Post year 20, when SLCPs will trap a much smaller fraction of heat compared to the pre-20 years, CO2 will continue to trap	self-consistent approach for avoiding both near-term and long-term global warming. ACR: Agreed that SLCPs heat the planet at much higher rates (than GWP-





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			range of metrics"), the	heat at levels comparable to the pre-	100 values) in the short
			summary on pages 1016-	20 years. This results in 20-year GWP	term and reducing their
			1017 about alternatives to	values not accounting for the actual	emissions should be
			100-year GWPs, and Box 7.3,	global warming potential of CO2 and	prioritized in the short
			"Physical Considerations in	hence resulting in inaccurately high	term. A better strategy
			Emissions Metric Choice."	GWPs for SLCPs.	(instead of using GWP-20
					values) may be to
			To summarize, if a company	While GWP-20 values are important	highlight the benefits of
			or other entity is trying to	to highlight that SLCPs trap heat at	reducing SLCP emissions
			achieve net-zero by mid-	much higher rate in the short term	in the short term and
			century, it could make more	and that emissions of SLCPs should	advocate for higher
			sense to use different	be reduced more urgently, use of	carbon prices for these
			metrics, like GWP-20 rather	GWP-20 values in quantification of	added benefits over non-
			than 100-year GWPs, as	offsets is not accurate because it	SLCP emissions.
			California and other states	underestimates the warming	
			have started doing. In	potential of CO2.	Additionally, 20-year
			particular, short lived climate		GWPs for SLCPs cannot be
			pollutants' climate forcing—		used because the credits
			their warming effect—is		have to have common
			concentrated in the days to		accounting - including
			decades after their release.		within international
			What is emitted in the 2020s,		crediting systems – to
			for instance, will have a		ensure fungibility in
			strong warming impact for		carbon markets.
			the next decade or two.		
			These are the critical decades		Closed.
			that will determine whether		
			the self-reinforcing climate		





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			feedbacks take over and		
			push us past the many		
			tipping points lurking beyond		
			1.5C. See background note		
			for more details (link:		
			https://www.igsd.org/wp-		
			content/uploads/2020/09/Sci		
			ence-Supporting-Need-for-		
			Fast-Near-Term-Climate-		
			Mitigation-Sept2020.pdf)		
			Using the 100-year GWPs		
			dilutes and therefore		
			disincentivizes destruction of		
			short-lived pollutants. That is		
			unfortunate, because it is the		
			removal of these short-lived		
			pollutants (ODS and HFCs		
			included), that could actually		
			provide cooling in the near-		
			term and help us avoid		
			catastrophic climate tipping		
			points.		
21	3	Table 4	The climate impact of short	See response to comment 20.	Thank you for
			lived climate pollutants is		acknowledging that there
			concentrated in the days to		is an urgent need to lower
			decades after their release.		





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			More and more, companies		emissions of SLCPs to
			and governments—and even		address global warming.
			the IPCC—recognize the		
			unique role that short-lived		
			climate pollutants, including		
			F-gases like HFCs, can play in		
			forestalling the worst of the		
			climate crisis. As such, they		
			are using the more		
			appropriate 20-year GWPs.		
			This methodology should do		
			the same.		
			I think Mario Molina, the		
			Nobel prize winning chemist		
			whose warning saved the		
			earth's ozone layer,		
			explained why best in this		
			quote, published (link:		
			https://www.project-		
			syndicate.org/commentary/a		
			rctic-sea-ice-depletion-short-		
			lived-climate-pollutants-by-		
			mario-molina-and-durwood-		
			zaelke-2020-10) shortly		
			before he passed away in		
			2020: Cutting CO2 isn't		
			enough. "It is also vital to		





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		Section	slash emissions of so-called short-lived climate pollutants: methane, black carbon, hydrofluorocarbons (HFCs), and tropospheric ozone. Such action could mitigate six times as much warming as reductions in CO2 emissions by 2050. Overall, eliminating emissions of these super pollutants would halve the rate of overall global		
			warming." See also this CCAC science summary (link: https://www.ccacoalition.org /en/content/why-we-need-act-now).		
			I often reflect on how we got into this mess where everyone uses 100-year GWPs for everything, despite the fact that most climate goals are mid-century (i.e. 2050) goals and despite the fact that other metrics like GWP-20 are available. As one		





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			of the first CSA-certified GHG		
			inventory quantifiers back in		
			the early 2000s, I've seen this		
			process evolve over the last		
			two decades: countries		
			started quantifying emissions		
			using the now-outdated IPCC		
			4th assessment 100-year		
			GWPs for the UNFCCC		
			reporting process, companies		
			followed along, then the		
			reporting protocols		
			standardized it, and soon we		
			were all locked in to using a		
			metric that's not the right		
			tool for every job, and not		
			responsive to changing		
			scientific understanding of		
			the imperative to mitigate		
			short lived climate		
			pollutants. It's so ingrained at		
			this point it's difficult to right		
			the ship. But we need to try.		
			You could join other leaders		
			moving to 20-year GWP for		
			ODS and HFCs: Many leading		
			states in the US have already		





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			recognized the importance of		
			20-year GWPs and acted:		
			New York, for instance,		
			reports with 20-year GWPs		
			(see page 4, "Shortening		
			the time horizon over which		
			the GWP is integrated		
			increases the GWP of gases		
			that are shorter-lived than		
			CO2." California uses 20-year		
			GWPs in its inventory of		
			short lived climate pollutants		
			in addition to the 100-year		
			GWPs, and the State of		
			Washington is using 20-year		
			GWPs too (See page 20:		
			"Consistent with the		
			Governor's directive, the rule		
			will require the assessment		
			to use both 20-year and 100-		
			year GWPs.") ACR can do the		
			same. At least give people		
			the option of using 20-year		
			GWPs, if 20-year GWPs are		
			consistent with their		
			reporting and targets.		
			NY Link:		
			https://www.dec.ny.gov/doc		





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			s/administration_pdf/ghgsu mrpt21.pdf CA Link: https://ww2.arb.ca.gov/ghg- slcp-inventory WA Link: https://ecology.wa.gov/DOE/ files/36/36bdb605-225d- 4a74-9edd- 8bc600714977.pdf		
22	3	Table 4	Table 4 contains the GWPs for eligible ODS and HFCs. I applaud the authors for endeavoring to use the most up-to-date science, as reflected by your incorporation of reviewer's suggestion to update to the GWPs in the IPCC's 5 th Assessment Report. However, the IPCC's 6 th Assessment Report is now available, so you should be citing those GWP numbers as soon as possible.	ACR standard requires use of AR5 GWP values for projects with vintage 2021 onwards. Even though AR6 GWP values are already published, it will take some time before these new values start being commonly used. ACR will update its standard to require AR6 GWP values in the near future as these values become more commonly used.	Acknowledged.
23	2	Appendix B II	Be sure to explain how this verification method should	See author response to comment 16.	Acknowledged.





#	Reviewer #	Document Section	Reviewer Comment	Author Response	Reviewer Comment (R2)
			work for foams recovered from appliances too.	Sections 6.1.IX.C and D added to provide alternative methods to quantify type of blowing agent and amount of blowing agent entrained in the foams (recovered from appliances and buildings) that are sent for destruction.	
24	1	Appendix C.I.C.ii And Appendix C.I.G.v	Appendix C.I.C.ii specifies requirements for U.S. and Canadian destruction facilities—"fully evacuated sample bottle that meets applicable DOT (or equivalent in Canada) requirements"—but not for other countries. Consider including equivalent requirements for other countries, if any. The same comment applies to Appendix C.I.G.v. The definition of container also references only the U.S. and Canada. This clarification would be helpful as a reference during project validation/ verification if V-V body requests evidence that	Section Appendix C.I.C.ii revised as follows. ii. Samples must be taken with a clean, fully evacuated sample bottle that meets applicable DOT requirements in the U.S., or equivalent requirements in Canada (or another country if the destruction facility is located outside U.S. and Canada), with a minimum capacity of one pound; Following text (in bold) added to Section Appendix C.I.C.v vequivalent agency in Canada, or equivalent agency in Canada, or equivalent agency in another country (if the transfer takes place outside U.S. and Canada in the process of transporting the ODS or high-GWP blowing agent for destruction at a destruction	Resolved.





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			the project meets	facility outside U.S. and Canada)	
			transportation requirements	for that ODS or high-GWP	
			(if any).	blowing agent;	